



haklift

2020

LIFTING, LASHING AND MATERIAL HANDLING PRODUCTS FOR PROFESSIONALS



Haklift Oy is the leading manufacturer and solution provider for lifting and load securing equipment in Finland. Safe lifting always starts by choosing the proper equipment. The needs of our clients are unique, as is any choice made aiming to use the equipment safely.

Our experts have solved thousands of different kinds of questions regarding situations involving lifting and load securing, forwarded by our clients during the past 30 years. We choose the proper products for each situation, fully considering the legislation and standards set, and assist the client in planning the most cost efficient solution. Furthermore, the expertise of our local sales personnel is fully available for the client in regard of any question concerning lifting and load securing.

A comprehensive warehouse, wide range of products and good connections from Kaarina ensure fast deliveries across Finland.

Haklift Oy is part of the Axel Johnson International group.



Product testing

Haklift Oy ensures the safety and quality of all equipment by testing products from each set of incoming delivery.

Lifting and lashing equipment is tested, among other things, for breaking strength, stretch, surface finishing and measurements.

The report of each test pull is recorded in the company database. By doing this we ensure the traceability of each set of delivered products.



A presentation video for the test bench is available at Haklift's YouTube channel.



Maintenance and inspections

Haklift Oy provides its clients with products' maintenance services, warranty repairs and annual inspections required by legislation.



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Working capacity column for all products intended for lifting in this catalogue is marked with blue color deviant from the other columns. In case the product is not marked as mentioned above, or otherwise marked as being appropriate for lifting, it must not be used for lifting.

All lifting equipment are covered by the Machinery Directive 2006/42/EC. We take full responsibility as a manufacturer and provider that our products meet the standards set by the Directive. We mark all the products covered by the Directive with a CE marking and from those products a Declaration of Conformity in accordance with the Directive will be formed.

Any product in this catalogue is not to be heat treated, unless told otherwise.

General terms for delivery	TK General 2010
Payment terms	14 days net, or as per agreement
Delivery terms	EXW Kaarina
Packing expenses	Extra fare for pallets
Extra fares for small deliveries	Extra 10 € delivery fare will be added for orders worth less than 50 €
Delay interest rate	As per legislation

Returns must be agreed upon in advance.
Returns made for reasons independent of us and our actions will only be compensated for max.
80 % of the value of the delivery/product.

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Represented brands



You are welcome to visit our store and exhibition in Kaarina, Finland.

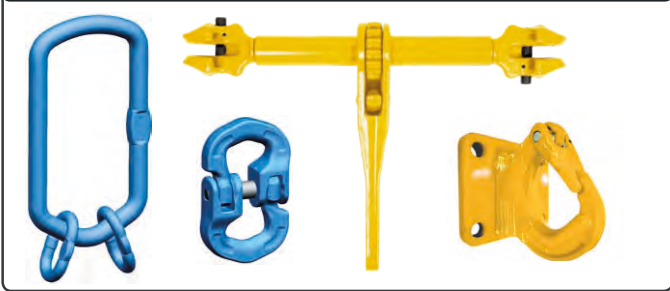


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1. WEBBING SLINGS AND ROUNDSLINGS

Eye webbing slings

Endless webbing slings

Extra wide webbing slings

Roundslings

Roundsling assemblies

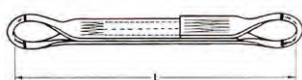
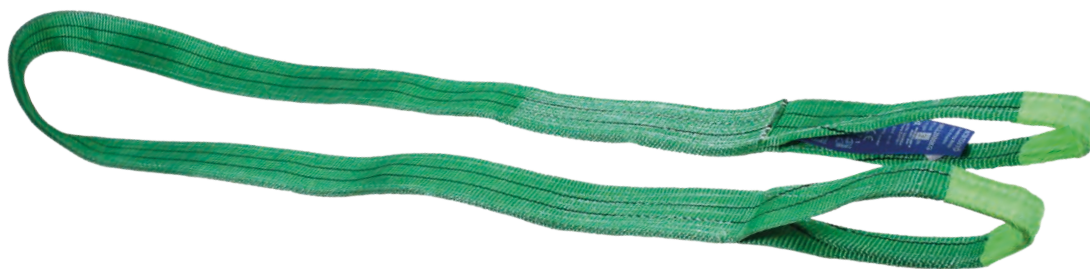
Extreema® roundslings

Dyneema® chains



EYE WEBBING SLINGS DUPLEX 500 - 35000 KG

- double layered "duplex" webbing slings
- tapered reinforced eyes as standard
- also available with flat eyes
- material 100 % polyester
- safety factor 7:1
- color coded
- EN 1492-1



WLL / Sling width / L-length	500 KG	Packing size 500 kg	1000 KG	Packing size 1000 kg	2000 KG	Packing size 2000 kg	3000 KG	Packing size 3000 kg
	White 25 mm		Violet 50 mm		Green 60 mm		Yellow 90 mm	
1 m	SNV0501	100	SNV101	40	SNV201	24	SNV301	15
2 m	SNV0502	50	SNV102	30	SNV202	20	SNV302	14
3 m	SNV0503	40	SNV103	24	SNV203	16	SNV303	11
4 m	SNV0504	35	SNV104	20	SNV204	12	SNV304	9
5 m	SNV0505	25	SNV105	18	SNV205	12	SNV305	8
6 m	SNV0506	-	SNV106	15	SNV206	10	SNV306	7
8 m	SNV0508	-	SNV108	15	SNV208	8	SNV308	5
10 m	SNV0510	-	SNV110	10	SNV210	6	SNV310	4

WLL / Sling width / L-length	4000 KG	Packing size 4000 kg	5000 KG	Packing size 5000 kg	6000 KG	Packing size 6000 kg	8000 KG	10000 KG	12000 KG
	Grey 120mm		Red 150 mm		Brown 180 mm		Blue 240 mm	Orange 300 mm	Orange 300 mm
1 m	SNV401	-	-	-	-	-	-	-	-
2 m	SNV402	8	SNV502	6	SNV602	5	SNV802	SNV1002	-
3 m	SNV403	7	SNV503	5	SNV603	4	SNV803	SNV1003	-
4 m	SNV404	5	SNV504	4	SNV604	3	SNV804	SNV1004	SNV1204
5 m	SNV405	4	SNV505	3	SNV605	2	SNV805	SNV1005	SNV1205
6 m	SNV406	4	SNV506	3	SNV606	2	SNV806	SNV1006	SNV1206
8 m	SNV408	3	SNV508	2	SNV608	2	SNV808	SNV1008	SNV1208
10 m	SNV410	2	SNV510	2	SNV610	1	SNV810	SNV1010	SNV1210

Also available 16-35 t.



Thanks to our own production unit, we can also make quick deliveries of special types and lengths as well as lifting slings with higher WLL up to 30 t.

Note! Standard dimensional tolerance is $\pm 3\%$. Lengths can vary within the tolerance range.

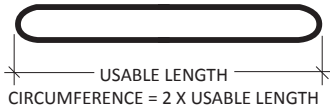
Last numbers are the length code. When ordering, for example, an eye webbing sling 3000 kg, length 12 m, the product code is SNV312.

See corner protectors in product group 12 and web sling hooks on page 2-8.



ENDLESS WEBBING SLINGS 500 - 10000 KG

- single layered endless webbing slings are also available with a double layer, which doubles the workload capacity for the same sling width
- material 100 % polyester
- safety factor 7:1
- color coded
- EN 1492-1



WLL / Sling width / Usable length / Circumference	500 KG White 25 mm	Packing size 500 kg	1000 KG Violet 50 mm	Packing size 1000 kg	2000 KG Green 60 mm	Packing size 2000 kg
0,5 / 1 m	UNV0501	250	UNV101	100	UNV201	24
0,75 / 1,5 m	UNV0501.5	300	-	-	-	-
1 / 2 m	UNV0502	250	UNV102	-	UNV202	20
1,5 / 3 m	UNV0503	160	UNV103	80	UNV203	40
2 / 4 m	UNV0504	100	UNV104	60	UNV204	32
2,5 / 5 m	UNV0505	-	UNV105	-	UNV205	-
3 / 6 m	UNV0506	-	UNV106	40	UNV206	20
3,5 / 7 m	-	-	-	-	UNV207	-
4 / 8 m	UNV0508	-	UNV108	15	UNV208	-
5 / 10 m	UNV0510	-	UNV110	10	UNV210	-

WLL / Sling width / Usable length / Circumference	3000 KG Yellow 90 mm	4000 KG Grey 120 mm	5000 KG Red 150 mm	6000 KG Brown 180 mm	8000 KG Blue 240 mm	10000 KG Orange 300 mm
0,5 / 1 m	UNV301	-	-	-	-	-
1 / 2 m	UNV302	UNV402	UNV502	UNV602	UNV802	UNV1002
1,5 / 3 m	UNV303	UNV403	UNV503	UNV603	UNV803	UNV1003
2 / 4 m	UNV304	UNV404	UNV504	UNV604	UNV804	UNV1004
2,5 / 5 m	UNV305	UNV405	UNV505	UNV605	UNV805	UNV1005
3 / 6 m	UNV306	UNV406	UNV506	UNV606	UNV806	UNV1006
4 / 8 m	UNV308	UNV408	UNV508	UNV608	UNV808	UNV1008
5 / 10 m	UNV310	UNV410	UNV510	UNV610	UNV810	UNV1010

ONE WAY ENDLESS WEBBING SLINGS

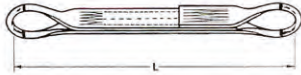
- safety factor 4:1
- markings on the sling
- other sizes and colors also available within delivery time, ask for more from our sales



WLL kg	Usable length / Circumference	Color	Strap width mm	Product code
500	3,25 / 6,5 m	White	50	UNVKK05065
1000	3,5 / 7,0 m	White	50	UNVKK107
1600	3,75 / 7,5 m	White	50	UNVKK1675V

EYE WEBBING SLINGS SECUTEX 1000 - 10000 KG

- double layered "duplex" webbing slings which are covered with special plastic
- extreme cut and abrasion resistance
- these slings can be used to lift sharp-edged items without special corner protectors
- tapered reinforced eyes as standard
- also available with one-sided and partial coating and with specific length, min. 1,3 m.
- material 100 % polyester
- safety factor 7:1
- EN 1492-1



WLL Sling width / L-length	2000 KG Green 80 mm	3000 KG Yellow 100 mm	4000 KG Grey 130 mm
2 m	SNVS202	SNVS302	SNVS402
3 m	SNVS203	SNVS303	SNVS403
4 m	SNVS204	SNVS304	SNVS404
5 m	SNVS205	SNVS305	SNVS405
6 m	SNVS206	SNVS306	SNVS406
8 m	SNVS208	SNVS308	SNVS408
10 m	SNVS210	SNVS310	SNVS410

Delivery time 4-5 weeks.

Note! Standard dimensional tolerance is $\pm 3\%$. Lengths can vary within the tolerance range.

Last numbers are the length code. When ordering, for example, an eye webbing sling 3000 kg, length 12 m, the product code is SNVS312.

TIGHTENING WEBBING SLINGS WITH HOOK 1600 - 2200 KG



- webbing slings with a special hook which tightens easily and securely around the item or bundle to be lifted (when using a choker hitch)
- material 100 % polyester
- safety factor 4:1
- EN 1492-1, EN 1677-2



WLL Sling width / L-length	1600 KG Green 60 mm	2200 KG Yellow 75 mm
1 m	NVK1601	NVK2201
2 m	NVK1602	NVK2202
3 m	NVK1603	NVK2203
4 m	NVK1604	NVK2204
5 m	NVK1605	NVK2205
6 m	NVK1606	NVK2206
8 m	NVK1608	NVK2208
10 m	NVK1610	NVK2210

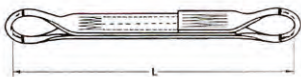
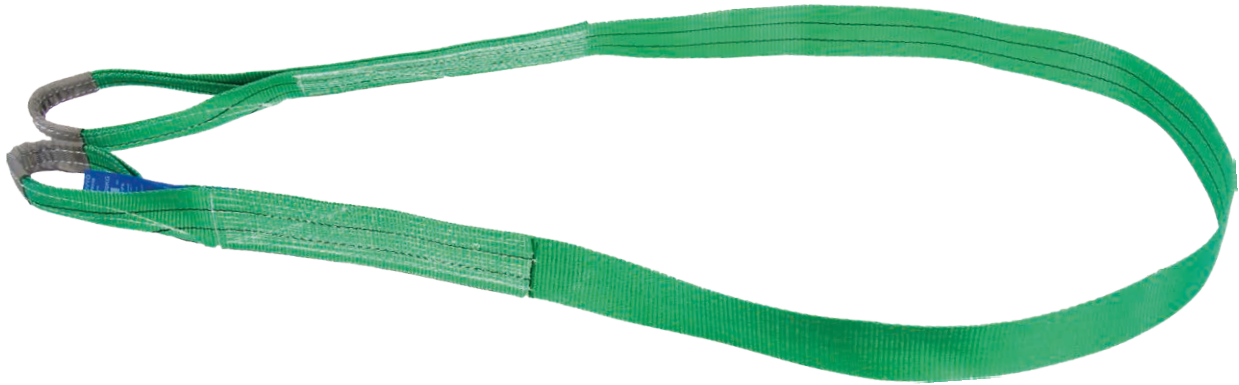
Delivery time 3-5 days.

Thanks to our own production unit, we can also make quick deliveries of special types and lengths as well as lifting slings with higher WLL.

Last numbers are the length code. When ordering, for example, an eye webbing sling 1600 kg, length 12 m, the product code is NKV1612.

WIDER EYE WEBBING SLINGS SINGLE 1000 - 5000 KG

- single layered eye webbing slings
- width of the sling is high with respect to the WLL
- perfect for applications where minimal surface pressure directed to the load to be lifted is needed, for example when lifting boats
- tapered reinforced eyes as standard
- also available with flat eyes
- material 100 % polyester
- safety factor 7:1
- EN 1492-1



WLL / Sling width / L-length	1000 KG Green 60 mm	2000 KG Grey 120 mm	3000 KG Brown 180 mm	4000 KG Blue 240 mm	5000 KG Orange 300 mm
1 m	SNVY101	SNVY201	-	-	-
2 m	SNVY102	SNVY202	SNVY302	SNVY402	-
3 m	SNVY103	SNVY203	SNVY303	SNVY403	SNVY503
4 m	SNVY104	SNVY204	SNVY304	SNVY404	SNVY504
5 m	SNVY105	SNVY205	SNVY305	SNVY405	SNVY505
6 m	SNVY106	SNVY206	SNVY306	SNVY406	SNVY506
8 m	SNVY108	SNVY208	SNVY308	SNVY408	SNVY508
10 m	SNVY110	SNVY210	SNVY310	SNVY410	SNVY510

Delivery time 3-5 days.



Thanks to our own production unit, we can also make quick deliveries of special types and lengths as well as lifting slings with higher WLL.

Last numbers are the length code. When ordering, for example, an eye webbing sling 3000 kg, length 12 m, the product code is SNVY312.

Note! Standard dimensional tolerance is $\pm 3\%$. Lengths can vary within the tolerance range.

See corner protectors in product group 12 and web sling hooks on page 2-8.



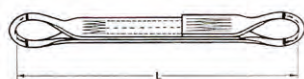
EXTRA WIDE WEBBING SLINGS 7000 - 22500 KG

- extra wide webbing slings for paper machine reels and other extra heavy loads
- perfect for applications where the surface pressure directed to the load to be lifted should be as low as possible
- tapered reinforced eyes as standard
- stretch with the maximum workload approx. 5 %
- material 100 % polyester
- safety factor 7:1



WLL (straight)	7000 KG	11000 KG	16000 KG	22500 KG
Sling width B	360 mm	600 mm	480 mm	600 mm
Eye width A	100 mm	160 mm	130 mm	160 mm
L-length 2 m	NOM1402	NOM2202	-	-
L-length 3 m	NOM1403	NOM2203	NOM3203	NOM4503
L-length 4 m	NOM1404	NOM2204	NOM3204	NOM4504
L-length 5 m	NOM1405	NOM2205	NOM3205	NOM4505
L-length 6 m	NOM1406	NOM2206	NOM3206	NOM4506
L-length 8 m	NOM1408	NOM2208	NOM3208	NOM4508
L-length 10 m	NOM1410	NOM2210	NOM3210	NOM4510

Delivery time 3-5 days.



Thanks to our own production unit, we can also make quick deliveries of special types and lengths as well as lifting slings with higher WLL.

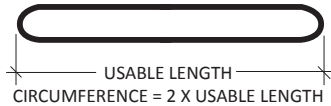
Last numbers are the length code. When ordering, for example, a webbing sling 22000 kg, length 12 m, the product code is NOM2212 (in the code the WLL is on U-shape).

Note! Standard dimensional tolerance is $\pm 3\%$. Lengths can vary within the tolerance range.

ROUNDSLINGS 1000 - 500 000 KG



- fibre roundslings with extra strong cover
- for all kind of lifting
- material 100 % polyester
- safety factor 7:1
- special lengths and roundslings with higher WLL are also available up to 500 t
- EN 1492-2
- color coded



WLL / Usab. length / Circumfer.	1000 kg Violet	Packing size 1000 kg	2000 kg Green	Packing size 2000 kg	3000 kg Yellow	Packing size 3000 kg	4000 kg Grey	Packing size 4000 kg	5000 kg Red	Packing size 5000 kg	6000 kg Brown	Packing size 6000 kg
0,5 / 1 m	PAR101	75	PAR201	60	PAR301	40	PAR401	50	PAR501	25	-	-
1 / 2 m	PAR102	50	PAR202	40	PAR302	30	PAR402	20	PAR502	15	PAR602	8
1,5 / 3 m	PAR103	40	PAR203	25	PAR303	20	PAR403	14	PAR503	10	PAR603	8
2 / 4 m	PAR104	30	PAR204	20	PAR304	12	PAR404	12	PAR504	8	PAR604	6
2,5 / 5 m	PAR105	25	PAR205	15	PAR305	12	PAR405	8	PAR505	7	PAR605	6
3 / 6 m	PAR106	15	PAR206	12	PAR306	10	PAR406	8	PAR506	6	PAR606	4
4 / 8 m	PAR108	15	PAR208	8	PAR308	8	PAR408	6	PAR508	4	PAR608	4
5 / 10 m	PAR110	10	PAR210	7	PAR310	6	PAR410	5	PAR510	4	PAR610	3
6 / 12 m	PAR112	10	PAR212	6	PAR312	5	PAR412	4	PAR512	3	PAR612	2

WLL / Usab. length / Circumfer.	8000 kg Blue	10000 kg Orange	15000 kg Orange	20000 kg Orange	30000 kg Orange	40000 kg Orange	50000 kg Orange
1 / 2 m	PAR802	PAR1002	PAR1502	-	-	-	-
1,5 / 3 m	PAR803	PAR1003	PAR1503	PAR2003	-	-	-
2 / 4 m	PAR804	PAR1004	PAR1504	PAR2004	-	-	-
2,5 / 5 m	PAR805	PAR1005	PAR1505	PAR2005	*PAR3005	*PAR4005	*PAR5005
3 / 6 m	PAR806	PAR1006	PAR1506	PAR2006	PAR3006	*PAR4006	*PAR5006
4 / 8 m	PAR808	PAR1008	PAR1508	PAR2008	PAR3008	PAR4008	*PAR5008
5 / 10 m	PAR810	PAR1010	PAR1510	PAR2010	PAR3010	PAR4010	*PAR5010
6 / 12 m	PAR812	PAR1012	PAR1512	PAR2012	PAR3012	PAR4012	PAR5012
8 / 16 m	PAR816	PAR1016	PAR1516	PAR2016	*PAR3016	*PAR4016	PAR5016
10 / 20 m	PAR820	PAR1020	PAR1520	PAR2020	*PAR3020	*PAR4020	*PAR5020
12 / 24 m	PAR824	*PAR1024	*PAR1524	*PAR2024	*PAR3024	*PAR4024	*PAR5024

*items marked with an asterisk delivery time 2-3 weeks



Lifting of a 305 t Azipod unit with Haklift 100 t roundslings.

We can also make quick deliveries of roundslings with usable length of 30 m and workloads up to 500 t. Ask for more.

Note! Standard dimensional tolerance is $\pm 3\%$. Lengths can vary within the tolerance range.

See corner protectors in product group 12 and web sling hooks on page 2-8.



Last numbers are the length code. When ordering, for example, a roundsling 3000 kg, circumference length 12 m, the product code is PAR312.

ROUNDSLING ASSEMBLIES



- 1-, 2-, 3- and 4-leg assemblies are suitable for all kind of lifting
- lighter alternative compared to a chain sling assembly e.g. in transformer lifting
- no risk of insulator damage
- material 100 % polyester
- safety factor 4:1
- total lengths from approx. 1 m, the largest type approx. 2 m
- lengths are provided in steps of 0,5 m
- also available with latch hooks, rotating swivel hooks, shackles etc.

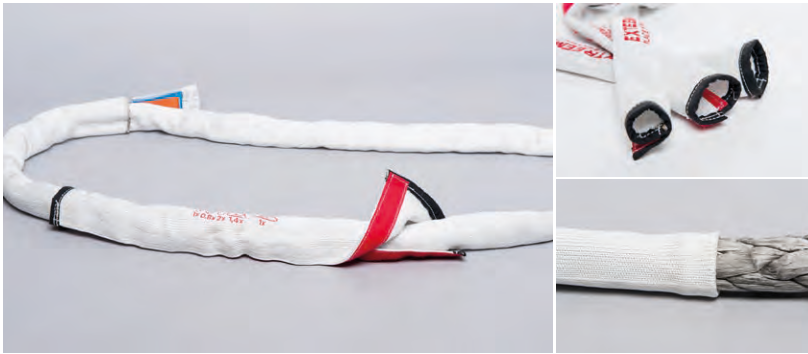


WLL Lifting angle 0 - 90°	WLL Lifting angle 90 - 120°	Product code
1-leg		
1000 KG		PRK1101
2000 KG		PRK2101
3000 KG		PRK3101
5000 KG		PRK5101
8000 KG		PRK8102
2-leg		
1400 KG	1000 KG	PRK1201
2800 KG	2000 KG	PRK2201
4200 KG	3000 KG	PRK3201
7000 KG	5000 KG	PRK5201
11200 KG	8000 KG	PRK8202
3-leg		
2100 KG	1500 KG	PRK1301
4200 KG	3000 KG	PRK2301
6300 KG	4500 KG	PRK3301
10500 KG	7500 KG	PRK5301
17000 KG	11800 KG	PRK8302
4-leg		
2100 KG	1500 KG	PRK1401
4200 KG	3000 KG	PRK2401
6300 KG	4500 KG	PRK3401
10500 KG	7500 KG	PRK5401
17000 KG	11800 KG	PRK8402

Delivery time 3-5 days.

When ordering, for example, a 1-leg roundslings assembly 3000 kg, length 1,5 m, the product code is PRK3101,5.

EXTREEMA® ROUNDSLINGS



Features:

- extremely thin and light structure (a third compared to a traditional polyester sling)
- extremely flexible and soft material, easy to handle
- extremely low stretch (less than 1 % of the WLL)
- extremely high cut and abrasion resistance
- endures well chemicals, UV-light, oil, diesel, grease and sea water
- repels water
- reduces costs – long service life
- no loss, does not cause damage to the object to be lifted

World's strongest fibre!

Extrema® roundslings manufactured from Dyneema® fibre are suitable for demanding applications. They fit in when traditional wire rope slings and roundslings cannot be used or it is not advisable. Extrema® slings are extremely light but they have a really strong structure at the same time. Slings are 15 times stronger than steel with a corresponding weight. They weigh only a third compared to a classic polyester sling and they are also much narrower. Dyneema® fibre endures well abrasion, moisture, UV-light, different chemicals and it floats in water. Therefore Extrema® slings can be used in multiple different applications.

Dyneema® fibre is manufactured from extremely durable UHMwPE polyethylene. Dyneema® fibre is produced in EU and it has been developed for over 30 years already.

Extrema® roundslings are available with workload capacities 1 – 500 t (breaking strength 2500 t) and lengths up to 65 m when the circumference length is 130 m.

Applications:

Seafaring, engineering workshops, heavy lifting, offshore installations, pressure vessel lifting, windmill installations

DYNEEMA® CHAINS



WORKING LOAD LIMITS IN LIFTING

2.6 t 4.0 t

5.0 t 6.8 t



World's strongest chain for lifting and lashing – Green Pin® Tycan





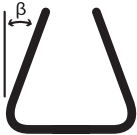
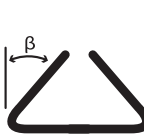
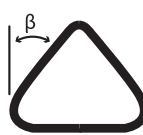
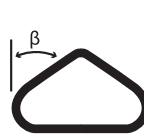
- Chain is manufactured from extremely durable Dyneema® fibre which structure consists of multiple layers of Dyneema® strap. Advanced synthetic chain which has been tested and certified globally (DNV-GL) and it is ideal for all types of lifting and lashing demands.
- Synthetic chain has a soft structure, it is extremely light, safe for operation and quiet in use.
- Dyneema® chain is eight times stronger and 85 % lighter than a classic steel chain with corresponding workload capacities. Therefore, e.g. with a long synthetic chain, it is really easy to operate even by just one operator. Chain can be used for lifting both large and small objects and also for lashing different kinds of loads in carriages, ships and in railway transport.
- Thanks to its lightweight structure it also floats in water.
- Flexible chains can be combined with almost any chain component and shortening can be executed e.g. by a regular shackle.
- Dyneema® fibre is manufactured from extremely durable UHMwPE polyethylene. The fibre is produced in EU and it has been developed for over 30 years already.

Features:

- extremely light (only 15 % of steel chain's weight)
- quiet
- small stretch – less than 5 % of the breaking strength
- extremely flexible and soft material
- easy and light to handle
- reduces the risk of being injured
- convenient to store - takes only little space
- extremely high abrasion resistance
- endures well UV-light, chemicals, oil, diesel, dirt, grease and sea water
- repels water
- does not conduct electricity
- reduces costs – long service life
- does not cause damage to the object to be lifted





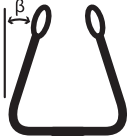
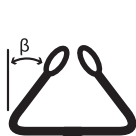
SALLITUT TYÖKUORMAT / WORKING LOAD LIMITS

PÄÄLYSTERAKSIT / ROUND SLINGS - UMPINOSTOVYÖT / ENDLESS WEBBING SLINGS

Nostotapa Lifting way	Suora nosto Straight lift	Kiristävä nosto Choke lift	Avonosto Basket lift	Kulmanosto Angle lift $\beta = 0 - 45^\circ$	Kulmanosto Angle lift $\beta = 45 - 60^\circ$	Kulmanosto Angle lift $\beta = 0 - 45^\circ$	Kulmanosto Angle lift $\beta = 45 - 60^\circ$
Muotokerroin Form Factory	1,0	0,8	2,0	1,4	1,0	0,7	0,5
							
Väri / Color	Työkuorma / WLL kg						
Violetti / Purple	1000	800	2000	1400	1000	700	500
Vihreä / Green	2000	1600	4000	2800	2000	1400	1000
Keltainen / Yellow	3000	2400	6000	4200	3000	2100	1500
Harmaa / Grey	4000	3200	8000	5600	4000	2800	2000
Punainen / Red	5000	4000	10000	7000	5000	3500	2500
Ruskea / Brown	6000	4800	12000	8400	6000	4200	3000
Sininen / Blue	8000	6400	16000	11200	8000	5600	4000
Oranssi / Orange	10000	8000	20000	14000	10000	7000	5000
Oranssi / Orange	12000	9600	24000	16800	12000	8400	6000
Oranssi / Orange	15000	12000	30000	21000	15000	10500	7500
Oranssi / Orange	20000	16000	40000	28000	20000	14000	10000
Oranssi / Orange	25000	20000	50000	35000	25000	17500	12500
Oranssi / Orange	30000	24000	60000	42000	30000	21000	15000

Varmuuskerroin / Safety factor 7:1

SILMUKKANOSTOVYÖT / WEBBING SLINGS

Nostotapa Lifting way	Suora nosto Straight lift	Kiristävä nosto Choke lift	Avonosto Basket lift	Kulmanosto Angle lift $\beta = 0 - 45^\circ$	Kulmanosto Angle lift $\beta = 45 - 60^\circ$
Muotokerroin Form Factory	1,0	0,8	2,0	1,4	1,0
					
Väri / Color	Leveys / Width	Työkuorma / WLL kg			
Valkoinen / White	25 mm	500	400	1000	700
Violetti / Purple	50 mm	1000	800	2000	1400
Vihreä / Green	60 mm	2000	1600	4000	2800
Keltainen / Yellow	90 mm	3000	2400	6000	4200
Harmaa / Grey	120 mm	4000	3200	8000	5600
Punainen / Red	150 mm	5000	4000	10000	7000
Ruskea / Brown	180 mm	6000	4800	12000	8400
Sininen / Blue	240 mm	8000	6400	16000	11200
Oranssi / Orange	300 mm	10000	8000	20000	14000
Oranssi / Orange	300 mm	12000	9600	24000	16800

Varmuuskerroin / Safety factor 7:1

KÄYTTÖLÄMPÖTILA
OPERATING TEMPERATURE **-40 - (+)100°C**

TARKASTA NOSTOVÄLINEET SILMÄMÄÄRÄISESTI AINA ENNEN KÄYTTÖÄ
JA TÄYDELLISESTI VÄHINTÄÄN KERRAN VUODESSA.

ALWAYS CHECK LIFTING DEVICES VISUALLY BEFORE USE
AND THOROUGHLY AT LEAST ONCE A YEAR.

2. LIFTING CHAINS, COMPONENTS AND STEEL WIRE ROPE SLINGS

Lifting chains grade 80, 100, 120 and stainless

Chain components grade 80, 100, 120 and stainless

Chain sling assemblies grade 80, 100, 120 and stainless

Steel wire rope slings



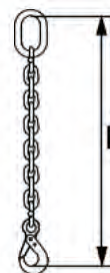
Material/Structure:

Chain slings are to be manufactured from short link chain, either grade 80, 100 or 120. In multiple legged slings every leg has to be the same size and grade. The working load limit (WLL) of every component has to be at least the same as the WLL of the chain. With 3- and 4-legged chain slings, a master link with additional links for 3- and 4-legged assemblies has to be used.

Safety factor: 4:1.

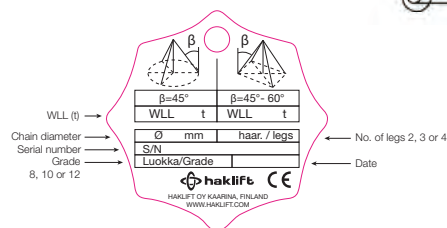
Length tolerance

The nominal length (L) is measured between the lifting points or from the edge of a solid sling. The actual length of each leg of the sling may exceed the nominal length by no more than 2 chain links. The length must not be shorter than the nominal length. The shortest and longest legs of a multiple legged sling, with equal nominal lengths, length difference must not exceed 10 mm if the sling has a nominal length of 2 m or less. In longer slings not more than 5 mm/m, if the sling is assembled with mechanical joints. If welded, the corresponding figures are 6 mm and 3 mm/m.



Marking

Chain slings have a label with manufacturer logo, unique identification mark, working load limit, grade, leg number, nominal size of the chain, date of manufacture and CE marking.



Acid conditions

Grade 80 chain slings must not be used immersed in acid or exposed to acidic gases. For the same reason chain slings must not be hot galvanized or coated without the manufacturer's permission.

Chemical effects

If the chain slings are simultaneously exposed to both high-strength chemicals and high temperatures, you should ask for more instructions from the manufacturer.

Dangerous conditions

Particularly hazardous operational situations include offshore functions, lifting people and dangerous loads such as molten metal, corrosive materials and nuclear material. In these cases the risk assessment should be given to an expert who defines the WLL.

Before starting

Prior to the use, check that:

- the chain sling is in accordance with the order
- there is a certificate
- the identification and WLL markings are same as in the certificate
- the equipment is marked in the inspection report
- it is appropriate for that particular lifting

Storing the chain slings

When the chain slings are not in use, they must be kept in a rack suitable for this purpose, not on the ground or on the floor where they may be damaged. If the chain sling is left to hang on the crane hook, its legs has to be attached to the master link so that they cannot swing or jam anywhere to cause danger. If there is a long interruption in the use of the chain sling, they must be cleaned, dried and protected from corrosion, for example by oiling them lightly.



The effect of temperature on the WLL

Grade	WLL % of the nominal load			
	Temperature °C			
	-40 - (+)200	201 - 300	301 - 400	401 >
80	100%	90%	75%	not allowed

Grade	WLL % of the nominal load	
	Temperature °C	
	-29 - (+)205	206 >
100	100%	not allowed

Grade	WLL % of the nominal load	
	Temperature °C	
	-40 - (+)200	201 >
120	100%	not allowed

Grade	WLL % of the nominal load	
	Temperature °C -40 - (+)400	
Stainless	100%	

Grade 100 chain also available with -30 - (+)380 °C temperature range, ask for more.

Inspection of lifting aids must be done annually. The employer is responsible for that the lifting aids used for lifting work are properly checked and that they comply with the valid regulations.

Annual inspections and maintenance of our customers' lifting aids are part of our daily job.



“Professional inspections guarantee work safety and the maximum productivity of the hardware”

Government Act 403/2008 for the safe use and inspection of machinery and tools used at work obligates that the work equipment must be kept safe to use throughout their life cycle.

The key to security is regular maintenance and upkeep.

The definition of a tool covers all lifting aids:

- e.g. hoists, clamps, lifting magnets
- lifting aid assemblies
- movable lifting aids (e.g. shackles and lifting brackets)

We take care of your lifting equipment throughout the life cycle

- Product inventory and product information administration in our inspection system.
- Reminders under the audit program automatically to the customer.
- The inspection of lifting aids is carried out in accordance with the planned timetable, which ensures minimum interference of the work.
- Our maintenance service repairs the faults found during the inspection - this way the hardware will always be in the same operating condition as new.
- Our inspection service covers all lifting aids available on the market.

LIFTING CHAINS GRADE 80

- short link grade 80 chains
- paint coated
- see operating temperatures on page 2-1
- safety factor 4:1
- EN 818-2



Chain size D mm	WLL t	A mm	B mm	Weight kg/m	Product code
6	1,12	18	9	0,80	NK6
7	1,50	22	10	1,10	NK7
8	2,00	24	12	1,35	NK8
10	3,15	30	14	2,15	NK10
13	5,30	39	19	3,50	NK13
16	8,00	48	23	5,50	NK16
20	12,50	60	25	8,40	NK20
22	15,00	66	28	10,35	NK22
26	21,20	78	35	15,80	NK26
32	31,50	96	43	23,00	NK32
36	40,00	108	49	29,00	*NK36
40	50,00	120	54	36,00	*NK40

*items marked with an asterisk only available as a factory order

PRE-PACKED GRADE 80 LIFTING CHAINS



Chain size mm	WLL t	Length m	Weight kg	Product code
6	1,12	50	41,00	NK6VP
8	2,00	40	55,00	NK8VP
10	3,15	30	66,00	NK10VP
13	5,30	20	71,00	NK13VP

LIFTING CHAINS GRADE 80, DACROME

- short link chains
- electro galvanized
- safety factor 4:1
- EN 818-2



Chain size D mm	WLL t	A mm	B mm	Weight kg/m	Product code
6	1,12	18	9	0,80	NKES6
8	2,00	24	12	1,35	NKES8
10	3,15	30	14	2,15	NKES10

LIFTING CHAINS GRADE 100

- short link grade 100 chains
- same chain size as grade 80, but approx. 25 % higher WLL
- see operating temperatures on page 2-1
- paint coated
- safety factor 4:1



Chain size	WLL	A	B	Weight	Product code
D mm	t	mm	mm	kg/m	
6	1,40	18	9	0,96	NK106
8	2,50	24	11	1,57	NK108
10	4,00	30	14	2,46	NK1010
13	6,70	39	18	4,18	NK1013
16	10,00	48	22	6,28	NK1016
20	16,00	62	25,6	10,10	NK1020
22	19,00	66	30	11,88	NK1022
26	26,50	78	35	16,18	*NK1026

The chain is also available for operating temperatures -30 - (+)380 °C, ask for more.

*items marked with an asterisk only available as a factory order

LIFTING CHAINS GRADE 120

- same chain size as grade 80, but approx. 50 % higher WLL
- see operating temperatures on page 2-1
- paint coated
- safety factor 4:1



Chain size	WLL	A	B	Weight	Product code
D mm	t	mm	mm	kg/m	
7	2,36	21	9,8	1,33	*NK127
8	3,00	24	11,0	1,69	NK128
10	5,00	30	14,3	2,66	NK1210
13	8,00	39	18,0	4,43	NK1213
16	12,20	48	21,5	6,73	NK1216

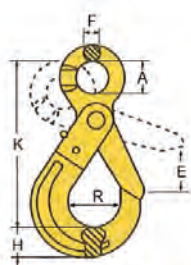
STAINLESS LIFTING CHAINS

- short link chains
- material AISI 316
- safety factor 4:1



Chain size	WLL	A	B	Weight	Product code
D mm	t	mm	mm	kg/m	
6	0,90	18,0	8	0,8	NKHK6
8	1,55	24,0	10	1,4	NKHK8
10	2,00	30,0	13	2,2	NKHK10
13	3,20	39,0	17	3,8	NKHK13

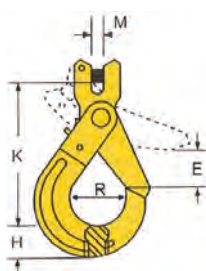
EYE SELF-LOCKING HOOKS



- hook locks automatically when lifting starts
- paint coated
- safety factor 4:1
- EN 1677

For chain mm	WLL t	K mm	H mm	E mm	F mm	R mm	A mm	Weight kg	Product code
6	1,12	110	19	28	10	34	22	0,50	VAK6
7/8	2,00	136	24	34	12	46	25	0,80	VAK78
10	3,15	171	30	44	15	56	32	1,43	VAK10
13	5,30	208	30	52	19,5	69	40	2,86	VAK13
16	8,00	257	50	60	22	86	56	5,64	VAK16
20	12,50	275	55	81	27	100	64	7,60	VAK20
22	15,00	320	67	82	30	98	70	13,00	VAK22
26	21,20	363	75	110	34	110	80	18,00	VAK26
32	31,50	472	97	168	45	166	105	44,50	VAK32

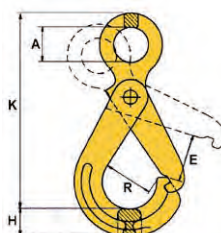
CLEVIS SELF-LOCKING HOOKS



- lifting chain is attached directly to the hook without a connecting link
- hook locks automatically when lifting starts
- paint coated
- safety factor 4:1
- EN 1677

For chain mm	WLL t	K mm	H mm	E mm	M mm	R mm	Weight kg	Product code
6	1,12	95	19	29	8	34	0,5	VAKH6
7/8	2,00	121	24	34	9	46	0,8	VAKH78
10	3,15	146	30	44	12	56	1,5	VAKH10
13	5,30	182	40	52	15	69	2,8	VAKH13
16	8,00	218	50	60	18	86	5,6	VAKH16
20	12,50	240	55	83	25	100	7,5	VAKH20
22	15,00	276	67	88	25	98	11,5	VAKH22

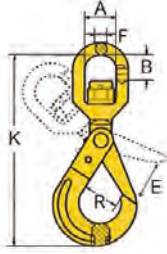
EYE SELF-LOCKING HOOKS WITH GRIP



- support structure against twisting on the tip of the hook
- hook locks automatically when lifting starts
- paint coated
- safety factor 4:1
- EN 1677

For chain mm	WLL t	K mm	H mm	E mm	R mm	A mm	Weight kg	Product code
7/8	2,00	163	21	34	40	25	0,75	VAKKT78
10	3,15	201	26	42	50	32	1,20	VAKKT10
13	5,30	243	31	50	60	40	2,00	VAKKT13
16	8,00	298	39	60	70	50	4,10	VAKKT16

EYE SELF-LOCKING HOOKS WITH SWIVEL

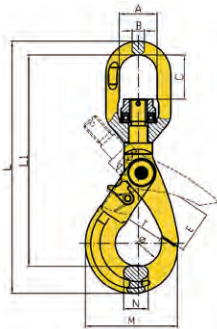


- hook locks automatically when lifting starts
- swivel structure allows the hook to rotate
- paint coated
- safety factor 4:1
- EN 1677

For chain mm	WLL t	K mm	E mm	B mm	F mm	R mm	A mm	Weight kg	Product code
6	1,12	170	29	22	11	34	32	0,71	VAKL6
7/8	2,00	210	34	26	12	46	35	1,10	VAKL78
10	3,15	247	44	34	15	56	42	2,00	VAKL10
13	5,30	302	52	38	16	69	50	4,00	VAKL13
16	8,00	383	60	55	21	86	61	7,30	VAKL16
20	12,50	418	83	61	26	100	72	11,60	VAKL20

EYE SELF-LOCKING HOOKS WITH BALL BEARING SWIVEL

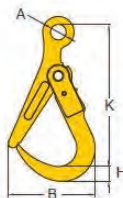
NEW



- hook locks automatically when lifting starts
- hook rotates easily also with full load
- paint coated
- safety factor 4:1
- EN 1677

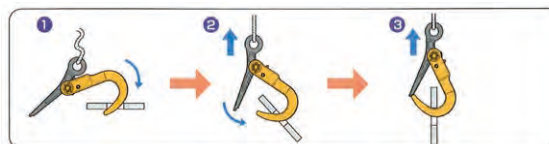
For chain mm	WLL t	A mm	B mm	C mm	L1 mm	L mm	T mm	E mm	M mm	N mm	Ø mm	Weight kg	Product code
6	1,12	32	11	34	160	194	28	32	70	15	34	0,71	VAKL6KL
7/8	2,00	36	13	40	202	240	35	39	88	20	44	1,1	VAKL78KL
10	3,15	42	16	48	237	283	45	48	108	26	58	2,0	VAKL10KL
13	5,30	50	17	58	282	343	52	65	134	33	70	4,0	VAKL13KL
16	8,00	61	22	60	342	419	63	65	169	38	86	7,3	VAKL16KL
20	12,50	76	27	75	400	483	86	85	186	50	97	11,6	VAKL20KL
22	15,00	97	33	97	466	564	76	80	202	52	98	16,0	VAKL22KL
26	21,20	123	42	115	544	661	96	125	244	60	110	21,5	VAKL26KL

SUPER SELF-LOCKING HOOKS



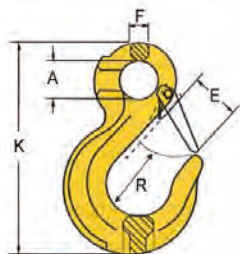
- wide self-locking safety hook
- perfect for e.g. handling large bags, as well as lifting items and equipment which can be lifted directly from their holes
- paint coated
- safety factor 4:1
- EN 1677

WLL kg	A mm	B mm	C mm	D mm	H mm	K mm	T mm	Weight kg	Product code
3000	32	177	41	16	30	290	29	3,5	VAK3SUPER



EYE SLING HOOKS WITH LATCH

- hooks with spring-loaded safety latch
- paint coated
- safety factor 4:1
- EN 1677

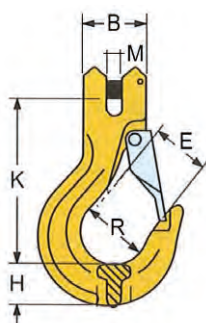


For chain mm	WLL t	K mm	E mm	F mm	R mm	A mm	Weight kg	Product code
6	1,12	108	24	9	21	20	0,30	SALK6
7/8	2,00	133	30	11	26	25	0,40	SALK78
10	3,15	167	34	15	39	38	0,90	SALK10
13	5,30	213	39	19	54	43	1,70	SALK13
16	8,00	255	46	23	64	50	3,20	SALK16
20	12,50	305	40	24	80	62	5,80	SALK20
22	15,00	348	71	32	80	62	8,50	SALK22
26	21,20	394	81	35	82	64	13,00	SALK26
32	31,50	480	102	37	112	68	17,00	SALK32
36	40,00	n.530	109	-	-	72	32,30	*SALK36
40	50,00	n.580	124	-	-	84	47,00	*SALK40

*items marked with an asterisk delivery time 4-5 weeks

CLEVIS SLING HOOKS WITH LATCH

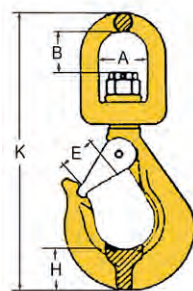
- lifting chain is attached directly to the hook without a connecting link
- paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	K mm	H mm	E mm	M mm	R mm	B mm	Weight kg	Product code
6	1,12	76	23	26	8	35	32	0,32	SALKH6
7/8	2,00	85	32	29	9,5	37	37	0,48	SALKH78
10	3,15	104	35	32	13	46	49	0,95	SALKH10
13	5,30	128	42	27	16	56	56	1,80	SALKH13
16	8,00	150	54	55	21	60	70	3,40	SALKH16
20	12,50	180	58	61	24	79	77	6,00	SALKH20

EYE SLING HOOKS WITH LATCH AND SWIVEL

- hook can be rotated to the desired position prior to lifting
- paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	K mm	E mm	A mm	B mm	Weight kg	Product code
6	1,12	170	22	32,5	22	0,34	SALKL6
7/8	2,00	210	27	35,5	26	0,85	SALKL78
10	3,15	247	32	42	34	1,54	SALKL10
13	5,30	302	40	50	38,5	3,40	SALKL13
16	8,00	382	45	61	55	5,36	SALKL16
20	12,50	418	49	72	61	7,40	SALKL20
22	15,00	527	54	95	95	10,60	SALKL22
26	21,20	610	81	122	115	21,40	SALKL26

EYE SLING HOOKS WITH LATCH AND BALL BEARING SWIVEL

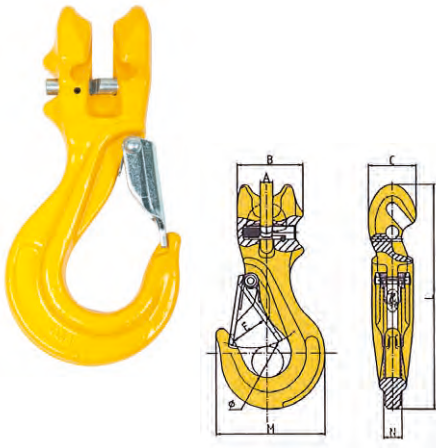
- hook rotates easily also with full load
- powder paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	K mm	P mm	B mm	A mm	D mm	T mm	H mm	Weight kg	Product code
6	1,12	149	29	22	31	12	15	19	0,70	SALKL6KL
8	2,00	186	34	29	36	14	20	24	1,20	SALKL78KL
10	3,15	220	44	34	40	16	26	30	2,00	SALKL10KL
13	5,30	267	52	43	46	22	30	39	4,20	SALKL13KL
16	8,00	328	60	50	60	24	36	49	7,30	SALKL16KL
20	12,50	388	90	82	75	26	48	62	11,70	SALKL20KL

SLING HOOKS WITH LATCH AND SHORTENING CLUTCH

- lifting chain is attached directly to the hook without a connecting link and it can be removed quickly
- can be used to replace a grab hook
- paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	A mm	B mm	C mm	E mm	M mm	N mm	L mm	Ø mm	Weight kg	Product code
6	1,12	8	40	29	20	66	11	136	17	0,5	SALKH6TK
7/8	2,00	10	45	33	27	84	13	172	27	0,9	SALKH78TK
10	3,15	12	56	42	33	103	11	215	34	1,7	SALKH10TK
13	5,30	15	75	57	40	133	20	258	45	3,4	SALKH13TK
16	8,00	18,5	82	72	44	156,7	26,5	305	56	5,57	SALKH16TK

WEB SLING HOOKS, GRADE 100

- sling hooks for webbing slings and roundslings
- color coded
- hook is threaded onto the sling
- paint coated
- safety factor 4:1
- EN 1677

WLL t	K mm	P mm	W mm	T mm	H mm	Weight kg	Product code
1,0	88	25	43	14	20	0,7	JOKERKOU1
2,0	115	30	52	20	26	1,5	JOKERKOU2
3,0	118	32	63	26	32	2,3	JOKERKOU3
5,0	154	43	73	26	38	3,3	JOKERKOU5
6,0	147	43	70	36	40	4,5	*JOKERKOU6
8,0	200	65	105	40	60	9,7	*JOKERKOU8
10,0	200	65	105	40	60	9,7	*JOKERKOU10

*items marked with an asterisk delivery time 3-4 weeks



1000 kg

2000 kg

3000 kg

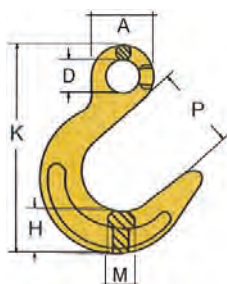
5000 kg

6000 kg

8000 kg

10000 kg

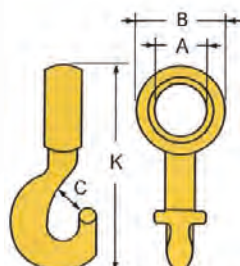
FOUNDRY EYE HOOKS



- wide mouth open hooks for foundry use
- paint coated
- safety factor 4:1
- EN 1677

For chain mm	WLL t	P mm	H mm	K mm	D mm	A mm	M mm	Weight kg	Product code
6	1,12	62	29	163	17	39	26	1,00	VAL6
7/8	2,00	63	31	163	18	39	25	1,09	VAL78
10	3,15	76	38	200	22	50	32	2,04	VAL10
13	5,30	89	44	238	27	63	38	3,22	VAL13
16	8,00	102	52	278	32	76	46	5,53	VAL16
20	12,50	114	65	325	38	89	55	8,75	VAL20
22	15,00	127	69	361	45	102	57	11,93	VAL22
26	21,20	140	77	402	67	126	66	16,80	VAL26
32	31,50	153	97	461	81	151	80	26,60	VAL32

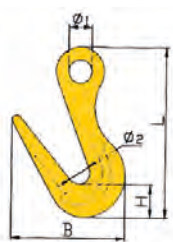
EYE CHOKE HOOKS



- used for choker hitch lifting in automatic choker slings
- paint coated
- safety factor 4:1
- EN 1677

For chain mm	WLL t	A mm	B mm	C mm	K mm	Weight kg	Product code
7/8	2,00	30	52	16	123	0,4	LIUA78
10	3,15	39	68	20	156	0,8	LIUA10
13	5,30	52	85	26	195	1,9	LIUA13
16	8,00	64	108	30	246	3,0	LIUA16

FARM HOOK



- for e.g. lifting large bags
- paint coated
- safety factor 4:1 / EN 1677

WLL t	Ø1 mm	B mm	Ø2 mm	L mm	H mm	Weight kg	Product code
2,0	35	170	33	254	49	3,1	MKOU2

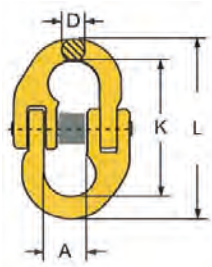
BARREL HOOK



- used in e.g. barrel lifting slings (see page 7-1)
- paint coated
- safety factor 4:1
- EN 1677

WLL t	Length mm	Width mm	Eye diameter mm	Weight kg	Product code
1,00	120	60	37	0,4	TYNKOU

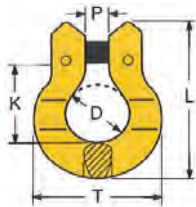
CONNECTING LINKS



- for connecting short link grade 80 chains to different kinds of master links and hooks
- paint coated
- safety factor 4:1
- EN 1677

For chain	WLL	L	K	A	D	Weight	Product code
mm	t	mm	mm	mm	mm	kg	
6	1,12	58	42	15	7	0,08	LL6
7/8	2,00	79	60	18	8	0,146	LL78
10	3,15	90	68	25	11	0,30	LL10
13	5,30	117	87	29	15	0,65	LL13
16	8,00	148	108	34	19	1,15	LL16
20	12,50	154	121	41	24	2,10	LL20
22	15,00	193	141	48	26	2,87	LL22
26	21,20	220	158	57	30	4,50	LL26
32	31,50	281	205	67	37	8,21	LL32

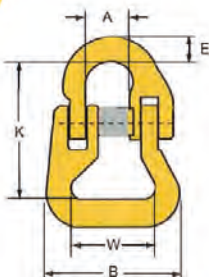
OMEGA LINKS



- used in choker chain slings or instead of connecting links
- paint coated
- safety factor 4:1
- EN 1677

For chain	WLL	T	L	D	K	P	Weight	Product code
mm	t	mm	mm	mm	mm	mm	kg	
7/8	2,00	8	68	23	35	10	0,22	OMEA78
10	3,15	12	81	31	40	12	0,36	OMEA10
13	5,30	15	108	41	54	15	0,71	OMEA13
16	8,00	19	126	49	64	19	1,30	OMEA16

ROUNDSLING AND WEBBING SLING CONNECTORS



- for connecting grade 80 chain components to roundslings and webbing slings
- paint coated
- safety factor 4:1
- EN 1677

For chain	WLL	W	B	A	K	E	Weight	Product code
mm	t	mm	mm	mm	mm	mm	kg	
7/8	2,00	40	61	20	63	9	0,30	PRL78
10	3,15	39	66	24	83	11	0,68	PRL10
13	5,30	55	68	28	93	16	1,47	PRL13
16	8,00	65	88	34	120	19	2,30	PRL16
20	12,50	80	108	41	138	23	3,30	PRL20

EYE GRAB HOOKS

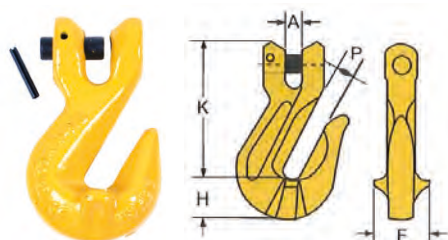
- to be attached to the master link with the same connecting link as the chain
- used for shortening chain legs
- paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	A mm	K mm	P mm	Weight kg	Product code
6	1,12	13	51	8	0,14	LYK6
7/8	2,00	18	61,5	10	0,245	LYK78
10	3,15	20	80	13	0,65	LYK10
13	5,30	26	99	16	1,39	LYK13
16	8,00	30	104	20	2,20	LYK16
20	12,50	37	140	25	4,60	LYK20
22	15,00	44	165	28	8,20	LYK22
26	21,20	41	188	30	9,80	LYK26
32	31,50	57	228	38	19,40	LYK32

CLEVIS GRAB HOOKS

- to be attached to the master link with a separate connecting link and chain
- other features same as in hooks listed above
- safety factor 4:1
- EN 1677

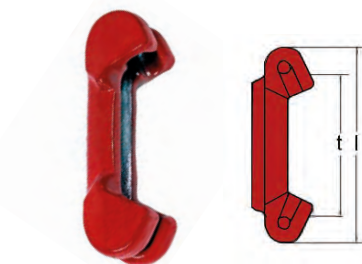


For chain mm	WLL t	A mm	K mm	P mm	F mm	H mm	Weight kg	Product code
7/8	2,00	9	70	11	33	18	0,32	LYKH78
10	3,15	12	97	13	46	29	0,73	LYKH10
13	5,30	15	121	16	57	42	1,60	LYKH13
16	8,00	18	141	19	74	42	2,80	*LYKH16
20	12,50	23	163	24	74	56	5,00	*LYKH20

*items marked with an asterisk delivery time 2 weeks

SHORTENING CLUTCHES, LOOSE MODEL

- loose shortening clutch which can be attached to any part of the chain without tools
- paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	t mm	l mm	Weight kg	Product code
6	1,00	79	100	0,3	LYKTI6
8	2,00	91	142	0,9	LYKTI8
10	3,20	121	162	1,3	LYKTI10
13	5,30	160	228	2,4	LYKTI13

SHORTENING CLUTCHES, FIXED MODEL

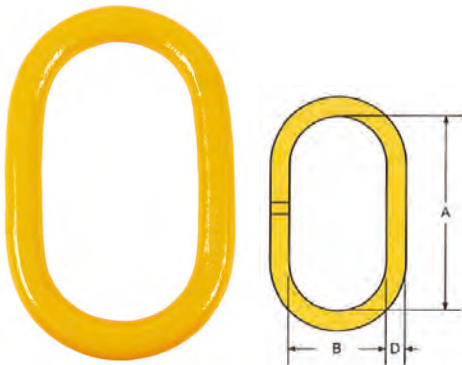
- attachment to the master link with a separate chain, to which the clutch is fixed with a pin
- can be used for normal shortening or making a loop around the item to be lifted
- paint coated
- safety factor 4:1
- EN 1677



For chain mm	WLL t	d mm	t mm	Weight kg	Product code
6	1,00	8	45	0,2	LYKTK6
8	2,00	10	54	0,5	LYKTK8
10	3,20	12	74	0,9	LYKTK10
13	5,30	16	77	1,5	LYKTK13
16	8,00	20	92	2,6	LYKTK16

MASTER LINKS FOR 1- AND 2-LEG CHAIN SLINGS

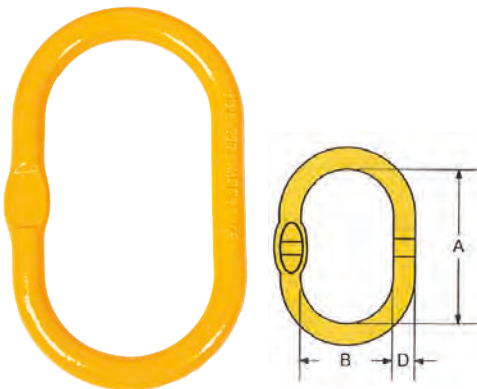
- standard size master links for chain slings
- paint coated
- safety factor 4:1
- EN 1677



1-leg For chain mm	2-leg For chain mm	WLL t	A mm	B mm	D mm	Weight kg	Product code
6/7	6	1,6	110	60	13	0,34	NOR76
8	7	2,12	110	60	16	0,53	NOR87
10	8	3,15	135	75	18	0,80	NOR108
13	10	5,3	160	90	22	1,50	NOR1310
16	13	8,0	180	100	26	2,30	NOR1613
18	16	11,2	200	110	32	3,90	NOR1816
20	18	14,0	260	140	36	6,35	NOR2218
22	20	17,0	300	160	40	9,00	NOR2220
26	22	21,2	340	180	45	12,80	NOR2622
32	26	31,5	350	190	50	17,20	NOR3226
36	32	45,0	400	200	56	24,20	NOR3632

MASTER LINKS, EXTRA LARGE / OVERSIZED

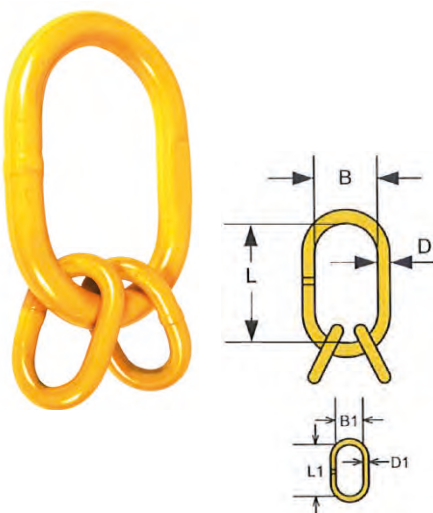
- master links larger than normal for chain slings
- paint coated
- safety factor 4:1
- EN 1677



1-leg For chain mm	2-leg For chain mm	WLL t	A mm	B mm	D mm	Weight kg	Product code
10	7/8	3,2	190	100	16	0,86	NOR16B7
13	10	6,4	300	210	25	5,53	NORY025
13	10	7,0	210	110	22	1,83	NOR22B7
16	13	11,0	300	210	32	5,94	NORY032
16	13/16	11,5	270	140	28	3,80	NOR28B7
22	20	17,0	270	140	32	5,05	NOR32B6
22	20	19,0	420	220	38	10,78	NOR38B7
26	22	28,0	270	140	38	7,29	NOR38B6
26	22	27,0	470	250	45	17,06	NOR45B7
36	32	45,0	380	200	50	17,65	NOR50B6
36	32	65,0	430	220	60	28,85	NOR60B6

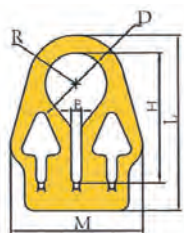
MASTER LINK ASSEMBLIES FOR 3- AND 4-LEG CHAIN SLINGS

- used for assembling 3- and 4-leg chain slings
- paint coated
- safety factor 4:1
- EN 1677



3/4-leg For chain mm	WLL t	L mm	B mm	D mm	B1 mm	D1 mm	L1 mm	Weight kg	Product code
6	2,4	135	75	18	25	14	54	1,2	NRLI6
7/8	4,3	160	90	22	34	16	70	2,2	NRLI78
10	6,7	180	100	26	40	18	85	3,4	NRLI10
13	11,2	200	110	32	50	22	115	6,0	NRLI13
16	17,0	260	140	36	65	26	140	10,0	NRLI16
20	26,5	350	190	51	70	32	150	23,3	NRLI20
22	32,0	350	190	51	75	36	170	25,9	NRLI22
26	45,0	400	200	57	80	40	170	35,2	NRLI26
32	67,0	460	250	72	190	49	357	67,6	NRLI32

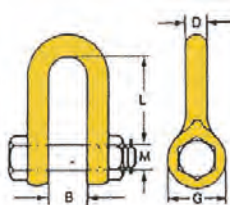
MASTER LINKS WITH SHORTENING POCKETS FOR 1- AND 2-LEG CHAIN SLINGS



- master links with integrated chain shortenings, no grab hooks needed
- master link is also removable from the chain legs
- paint coated
- safety factor 4:1

For chain mm	WLL t	E mm	D mm	R mm	H mm	M mm	L mm	Weight kg	Product code
8	0,95	8	51	40	107	109	144	0,46	NOR8L
10	1,58	10	78	56	151	133	196	1,30	NOR10L
13	3,22	12	81	69	148	167	234	1,89	NOR13L

CHAIN SHACKLES

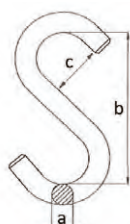


- can be attached straight to the lifting chain without a connecting link
- paint coated
- safety factor 4:1 / EN 1677

For chain mm	WLL t	B mm	D mm	G mm	L mm	M mm	Weight kg	Product code
7/8	2,00	15	8	20	30	10	0,15	SAKSA78
10	3,15	20	11	35	39	12	0,34	SAKSA10
13	5,30	24	13	42	52	16	0,66	SAKSA13
16	8,00	33	16	51	65	20	1,14	SAKSA16

S-HOOKS

- grade 80 hooks for lifting
- paint coated
- safety factor 4:1 / EN 1677



WLL t	a mm	b mm	c mm	Weight kg	Product code
0,3	10	80	25	0,2	SKOU803
0,5	13	100	30	0,5	SKOU805
1,0	18	160	50	1,0	SKOU810
1,5	22	200	60	2,0	SKOU815
2,0	26	220	65	3,6	SKOU820
3,0	32	260	80	5,6	SKOU830
4,0	36	320	95	7,9	*SKOU840
5,0	40	360	110	11,0	*SKOU850
6,0	45	400	120	15,3	*SKOU860

*items marked with an asterisk delivery time 1-2 weeks

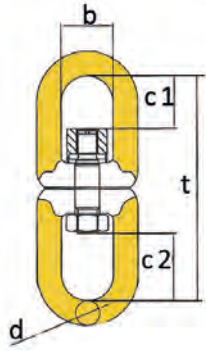
RELEASE-A-MATIC HOOKS



- hooks that can be launched / opened by means of a rope
- surface treatment electro galvanizing
- safety factor 4:1
- EN 1677

WLL t	A Ø mm	Weight kg	Product code
2,1	23	0,9	LAUK16
8,1	38	5,0	LAUK8

LIFTING SWIVELS WITH BALL BEARING, EYE / EYE

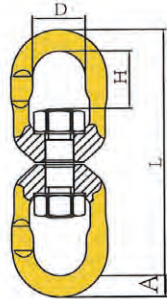


- duration lubricated, easily rotating swivels for use with lifting chains
- rotates easily also with full load
- large eye / eye ends
- paint coated
- safety factor 4:1 / EN 1677

For chain mm	WLL t	b mm	c1 mm	c2 mm	d mm	t mm	Weight kg	Product code
6	1,12	32	33	33	6	126	0,61	*LEIK6SS
7/8	2,0	37	40	40	14	153	1,07	LEIK78SS
10	3,2	39	35	65	19	168	1,50	LEIK10SS
13	5,0	61	65	100	28	258	3,40	LEIK13SS
16	8,2	73	67	67	17	281	6,44	*LEIK16SS
18-20	12,8	82	88	88	22	328	7,75	*LEIK18SS

*items marked with an asterisk delivery time 1-2 weeks

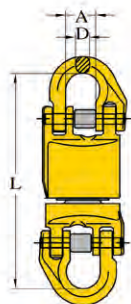
LIFTING SWIVELS, EYE / EYE



- rotating swivels with sliding surface for use with lifting chains
- can be rotated to desired position prior to lifting
- large eye / eye ends
- paint coated
- safety factor 4:1 / EN 1677

For chain mm	WLL t	A mm	D mm	H mm	L mm	Weight kg	Product code
7/8	2,0	12	35	28	164	0,60	LEILIU78SS
10	3,2	15	42	34	194	1,50	LEILIU10SS
13	5,0	18	50	43	216	1,75	LEILIU13SS
16	8,0	21	61	56	289	4,52	LEILIU16SS

BALL BEARING SWIVELS, EYE / EYE, ELECTRICALLY INSULATED



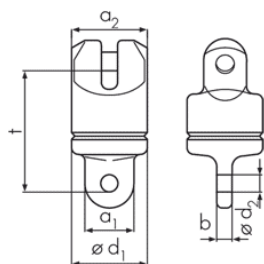
- small, duration lubricated, easily rotating swivels for use with lifting chains
- connecting link / connecting link ends
- paint coated
- safety factor 4:1 / EN 1677



For chain mm	WLL t	A mm	D mm	L mm	Weight kg	Product code
7/8	2,0	18	9	131	0,7	LEIK78LL
10	3,15	25	11	162	1,5	LEIK10LL
13	5,3	30	16	214	3,2	LEIK13LL
16	8,0	36	19	243	5,4	LEIK16LL
20	12,5	42	22	285	9,0	*LEIK20LL

*items marked with an asterisk delivery time 1-2 weeks

BALL BEARING SWIVELS, CLEVIS / EYE, GRADE 100



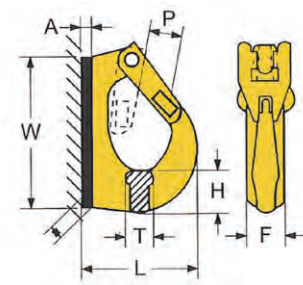
- small, duration lubricated, easily rotating swivels for use with lifting chains
- rotates easily also with full load
- clevis / eye ends
- paint coated / yellow passivated
- safety factor 4:1



For chain mm	WLL t	a1 mm	a2 mm	b mm	Ød1 mm	Ød2 mm	t mm	Weight kg	Product code
6	1,40	20	36	6	36	8	51	0,26	LEIK6SH
8	2,50	26	43	8	41	10	56	0,41	LEIK8SH
10	4,00	35	52	10	51	13	73	0,86	LEIK10SH
13	6,70	43	65	13	59	17	88	1,51	LEIK13SH

EXCAVATOR HOOKS, WELDABLE

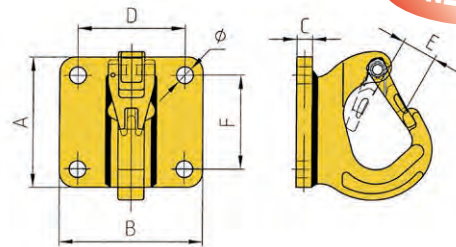
- weld-on hooks for excavator dippers, work machines and vehicles
- paint coated
- safety factor 4:1
- EN 1677



WLL t	A mm	W mm	P mm	T mm	L mm	H mm	F mm	Weight kg	Product code
2,0	5	80	25	20	94	24	34	0,80	KAKO02
3,0	6	115	30	24	105	30	36	1,20	KAKO03
5,0	10	155	34	28	132	43	44	2,50	KAKO05
8,0	12	160	34	38	135	51	51	3,30	KAKO08
10,0	15	200	50	39	167	55	53	5,20	KAKO10
15,0	14	241	54	45	184	67	61	7,90	KAKO15

BOLTABLE EXCAVATOR HOOK

- bolttable hook for excavator dippers, work machines and vehicles
- paint coated
- safety factor 4:1
- EN 1677



NEW

WLL t	A mm	B mm	C mm	D mm	E mm	F mm	Ø mm	Weight kg	Product code
2,0	100	110	12	82	20	72	13	1,87	KAKOPUL02

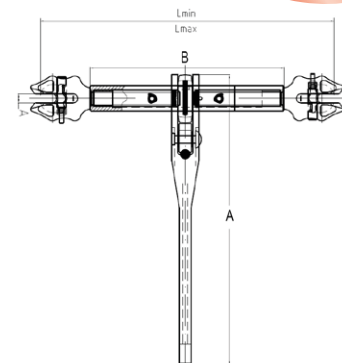
SPARE PART KITS FOR EXCAVATOR HOOKS



Product	Product code
Spare part kit for 1-3 t excavator hook	KAKOKOR02
Spare part kit for 5-8 t excavator hook	KAKOKOR05
Spare part kit for 10 t excavator hook	KAKOKOR10

LOAD BINDER FOR LIFTING AND LASHING

- can be used for lifting and load lashing
- equipped with chain locking pins
- for short link chains
- paint coated
- safety factor 4:1
- EN 1677



NEW

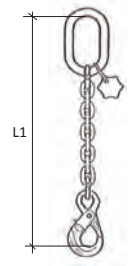
Chain size mm	WLL t	Breaking strength kg	LC kg	L min mm	L max mm	A mm	B mm	Weight kg	Product code
10	3,15	12600	6300	395	555	278	260	3,9	VA10N

1- AND 2-LEG CHAIN SLINGS

- self-locking safety hooks or sling hooks with latch as standard ends
- alternative ends are also available, e.g. foundry hooks, shackles etc.
- slings are equipped with a load plate
- paint coated
- safety factor 4:1
- EN 818-4

The last two numbers of the product code refer to the length. When ordering e.g. a 3 m long 2-leg chain sling with 10 mm chain and safety hooks, the product code is NKV10203. If you want to include shortening/grab hooks in the assembly, the product code is NKV10203L.

Note! The leg length of the chain sling assembly, unless specifically ordered, is as presented (L1) in the image.



1-LEG

Chain size mm	WLL t	Safety hook Product code	Safety hook + Grab hook Product code	Latch hook Product code	Latch hook + Grab hook Product code
6	1,12	NKV06101	NKV06101L	NKS06101	NKS06101L
7	1,50	NKV07101	NKV07101L	NKS07101	NKS07101L
8	2,00	NKV08101	NKV08101L	NKS08101	NKS08101L
10	3,15	NKV10101	NKV10101L	NKS10101	NKS10101L
13	5,30	NKV13101	NKV13101L	NKS13101	NKS13101L
16	8,00	NKV16101	NKV16101L	NKS16101	NKS16101L
20	12,50	NKV20101	NKV20101L	NKS20101	NKS20101L
22	15,00	NKV22101	NKV22101L	NKS22101	NKS22101L
26	21,20	NKV26101	NKV26101L	NKS26101	NKS26101L
32	31,50	NKV32101	NKV32101L	NKS32101	NKS32101L



2-LEG

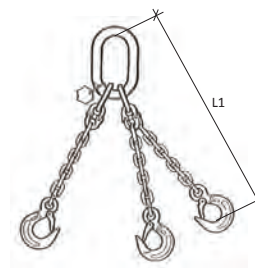
Chain size mm	WLL t 0 - 45° chain angle	WLL t 45 - 60° chain angle	Safety hooks Product code	Safety hooks + Grab hooks Product code	Latch hooks Product code	Latch hooks + Grab hooks Product code
6	1,60	1,12	NKV06201	NKV06201L	NKS06201	NKS06201L
7	2,12	1,50	NKV07201	NKV07201L	NKS07201	NKS07201L
8	2,80	2,00	NKV08201	NKV08201L	NKS08201	NKS08201L
10	4,25	3,15	NKV10201	NKV10201L	NKS10201	NKS10201L
13	7,50	5,30	NKV13201	NKV13201L	NKS13201	NKS13201L
16	11,20	8,00	NKV16201	NKV16201L	NKS16201	NKS16201L
20	17,00	12,50	NKV20201	NKV20201L	NKS20201	NKS20201L
22	21,20	15,00	NKV22201	NKV22201L	NKS22201	NKS22201L
26	30,00	21,20	NKV26201	NKV26201L	NKS26201	NKS26201L
32	45,00	31,50	NKV32201	NKV32201L	NKS32201	NKS32201L

3- AND 4-LEG CHAIN SLINGS

- self-locking safety hooks or sling hooks with latch as standard ends
- alternative ends are also available, e.g. foundry hooks, shackles etc.
- slings are equipped with a load plate
- paint coated
- safety factor 4:1
- EN 818-4

The last two numbers of the product code refer to the length. When ordering e.g. a 3 m long 4-leg chain sling with 10 mm chain and safety hooks, the product code is NKV10403. If you want to include shortening/grab hooks in the assembly, the product code is NKV10403L.

Note! The leg length of the chain sling assembly, unless specifically ordered, is as presented (L1) in the image.



3-LEG

Chain size mm	WLL t 0 - 45° chain angle	WLL t 45 - 60° chain angle	Safety hooks Product code	Safety hooks + Grab hooks Product code	Latch hooks Product code	Latch hooks + Grab hooks Product code
6	2,36	1,70	NKV06301	NKV06301L	NKS06301	NKS06301L
7	3,15	2,24	NKV07301	NKV07301L	NKS07301	NKS07301L
8	4,25	3,00	NKV08301	NKV08301L	NKS08301	NKS08301L
10	6,70	4,75	NKV10301	NKV10301L	NKS10301	NKS10301L
13	11,20	8,00	NKV13301	NKV13301L	NKS13301	NKS13301L
16	17,00	11,80	NKV16301	NKV16301L	NKS16301	NKS16301L
20	26,50	19,00	NKV20301	NKV20301L	NKS20301	NKS20301L
22	31,50	22,40	NKV22301	NKV22301L	NKS22301	NKS22301L
26	45,00	31,50	NKV26301	NKV26301L	NKS26301	NKS26301L
32	67,00	47,50	NKV32301	NKV32301L	NKS32301	NKS32301L

4-LEG

Chain size mm	WLL t 0 - 45° chain angle	WLL t 45 - 60° chain angle	Safety hooks Product code	Safety hooks + Grab hooks Product code	Latch hooks Product code	Latch hooks + Grab hooks Product code
6	2,36	1,70	NKV06401	NKV06401L	NKS06401	NKS06401L
7	3,15	2,24	NKV07401	NKV07401L	NKS07401	NKS07401L
8	4,25	3,00	NKV08401	NKV08401L	NKS08401	NKS08401L
10	6,70	4,75	NKV10401	NKV10401L	NKS10401	NKS10401L
13	11,20	8,00	NKV13401	NKV13401L	NKS13401	NKS13401L
16	17,00	11,80	NKV16401	NKV16401L	NKS16401	NKS16401L
20	26,50	19,00	NKV20401	NKV20401L	NKS20401	NKS20401L
22	31,50	22,40	NKV22401	NKV22401L	NKS22401	NKS22401L
26	45,00	31,50	NKV26401	NKV26401L	NKS26401	NKS26401L
32	67,00	47,50	NKV32401	NKV32401L	NKS32401	NKS32401L

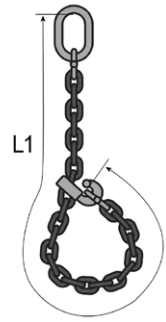


1- AND 2-LEG CHOKER CHAIN SLINGS

- used for choker hitch lifting
- perfect for lifting e.g. pipe bundles, lumber bundles and reinforcement steel
- paint coated
- safety factor 4:1
- EN 818-4

The last two numbers of the product code refer to the length. When ordering e.g. a 3 m long 2-leg chain sling with 10 mm chain and choke hooks, the product code is NKLI10203. If you want to include shortening/grab hooks in the assembly, the product code is NKLI10203L.

Note! The leg length of the chain sling assembly, unless specifically ordered, is as presented (L1) in the image.

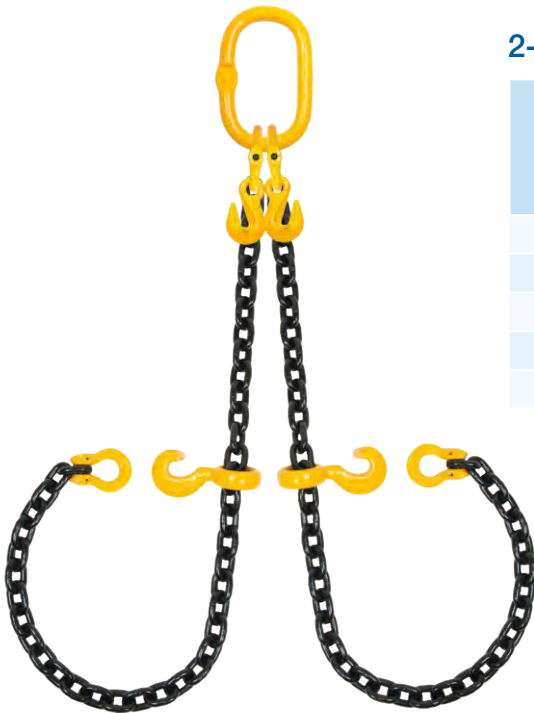


1-LEG

Chain size	WLL	Choke hook	Choke hook + Grab hook
mm	t	Product code	Product code
7	1,2	NKLI07101	NKLI07101L
8	1,6	NKLI08101	NKLI08101L
10	2,5	NKLI10101	NKLI10101L
13	4,2	NKLI13101	NKLI13101L
16	6,3	NKLI16101	NKLI16101L

2-LEG

Chain size	WLL t 0 - 45° chain angle	WLL t 45 - 60° chain angle	Choke hooks	Choke hooks + Grab hooks
mm			Product code	Product code
7	1,7	1,2	NKLI07201	NKLI07201L
8	2,2	1,6	NKLI08201	NKLI08201L
10	3,5	2,5	NKLI10201	NKLI10201L
13	6,0	4,2	NKLI13201	NKLI13201L
16	8,9	6,3	NKLI16201	NKLI16201L



8 LUOKKA GRADE

NOSTOKETJUYHDISTELMIEN SALLITUT TYÖKUORMAT WORKING LOAD LIMITS FOR CHAIN SLINGS

EN 818-4	1-haaraiset / legs	2-haaraiset / legs		3-4-haaraiset / legs	
	Kaltevuuskulma β / Inclination angle β				
	0 - 45°		45 - 60°		0 - 45°
Ketju / Chain \varnothing mm	Työkuorma / WLL kg				
6	1120	1600	1120	2360	1700
7	1500	2120	1500	3150	2240
8	2000	2800	2000	4250	3000
10	3150	4250	3150	6700	4750
13	5300	7500	5300	11200	8000
16	8000	11200	8000	17000	11800
19	11200	16000	11200	23600	17000
20	12500	17000	12500	26500	19000
22	15000	21200	15000	31500	22400
26	21200	30000	21200	45000	31500
32	31500	45000	31500	67000	47500
36	40000	56000	40000	84000	60000
40	50000	70000	50000	105000	75000
45	63000	88200	63000	132300	94500
Sallittuja kuormia laskettaessa käytetyt kertoimet / Coefficients used in calculated WLL					
	1,0	1,4	1,0	2,1	1,5
Kivistävässä nostossa taulukon arvot kerrotaan 0,8:lla / For a thightening lift, the table values are multiplied by 0,8					

Varmuuskerroin / Safety factor 4:1

NOSTOKETJUYHDISTELMIEN KUORMAKILVET WLL PLATES FOR CHAIN SLINGS



KÄYTTÖLÄMPÖTILAT / OPERATING TEMPERATURES

Työkuorma ilmoitettuna prosentteina työkuormasta
The working load limits presented as a percentage of the WLL

Lämpötila / temperature, t, °C			
-40 < t ≤ 200 °C	200 < t ≤ 300 °C	300 < t ≤ 400 °C	400 °C < t
100%	90%	75%	ei sallittu / not allowed

TARKASTA NOSTOKETJUYHDISTELMÄT SILMÄMÄÄRÄISESTI AINA ENNEN KÄYTTÖÄ
JA TÄYDELLISESTI VÄHINTÄÄN KERRAN VUODESSA.

ALWAYS CHECK LIFTING CHAIN ASSEMBLIES VISUALLY BEFORE USE
AND THOROUGHLY AT LEAST ONCE A YEAR.

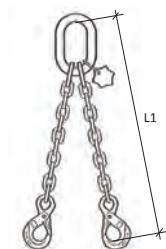
CHAIN SLING ASSEMBLIES IN CARTONS, GRADE 80 AND 100

- pre-assembled 2-leg chain slings in cartons
- three chain sizes: 6, 8 and 10 mm
- all chain slings include self-locking safety hooks and grab hooks
- barcode labels on the cartons
- paint coated



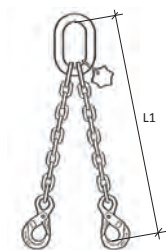
GRADE 80 EN 818-4

Chain size mm	Leg length (L1) m	WLL 0- 45° t	WLL 45 - 60° t	Weight kg	Product code
6	2	1,60	1,12	4,8	NKV06202LVP
8	2	2,80	2,00	7,9	NKV08202LVP
10	3	4,25	3,15	18,0	NKV10203LVP



GRADE 100 (HIGHER WLL WITH THE SAME CHAIN SIZE)

Chain size mm	Leg length (L1) m	WLL 0- 45° t	WLL 45 - 60° t	Weight kg	Product code
6	2	1,96	1,4	4,8	NKVE06202LVP
8	2	3,5	2,5	7,9	NKVE08202LVP
10	3	5,6	4,0	20,2	NKVE10203LVP

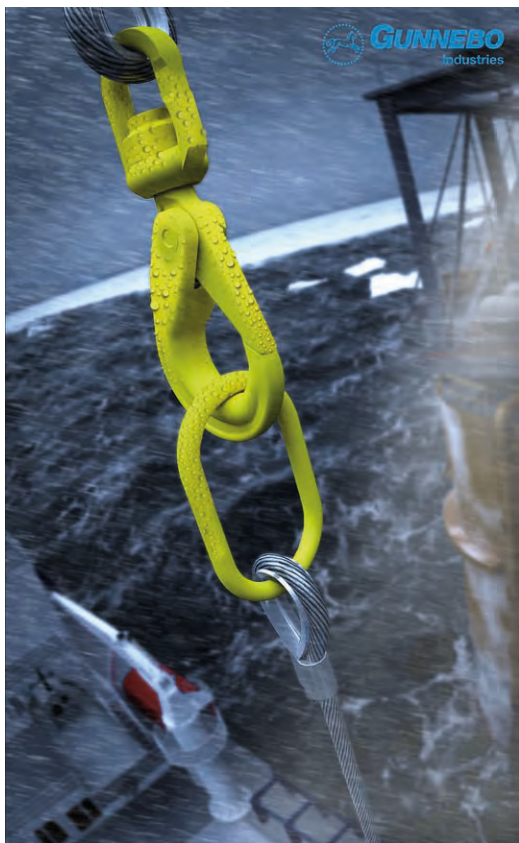




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Ask for more from our sales. We will build just the right lifting appliance for your needs.

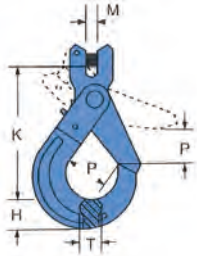
Products also directly from our stock.



GUNNEBO
Industries



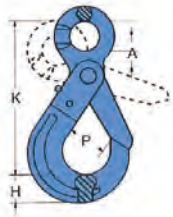
CLEVIS SELF-LOCKING HOOKS



- hook locks automatically when lifting starts
- lifting chain is attached directly to the hook without a connecting link
- paint coated
- safety factor 4:1

For chain mm	WLL t	P mm	M mm	T mm	H mm	K mm	Weight kg	Product code
6	1,4	28	8	15	19	95	0,50	VAKAH106
8	2,5	35	9	20	24	121	0,90	VAKAH1078
10	4,0	45	12	26	28	146	1,60	VAKAH1010
13	6,7	53	15	32	40	182	2,90	VAKAH1013
16	10,0	62	18	38	51	218	5,80	VAKAH1016
20	16,0	76	25	45	55	239	8,60	VAKAH1020
22	19,0	80	25	52	67	280	12,1	VAKAH1022

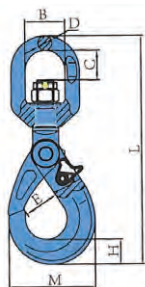
EYE SELF-LOCKING HOOKS



- hook locks automatically when lifting starts
- paint coated
- safety factor 4:1

For chain mm	WLL t	A mm	P mm	H mm	K mm	Weight kg	Product code
6	1,4	21	28	20	110	0,50	VAKA106
8	2,5	27	35	26	137	0,90	VAKA1078
10	4,0	34	45	30	169	1,50	VAKA1010
13	6,7	40	53	40	209	2,70	VAKA1013
16	10,0	50	62	50	254	5,70	VAKA1016
20	16,0	60	76	62	277	7,90	VAKA1020
22	19,0	70	80	66	319	11,20	VAKA1022

EYE SELF-LOCKING HOOKS WITH SWIVEL

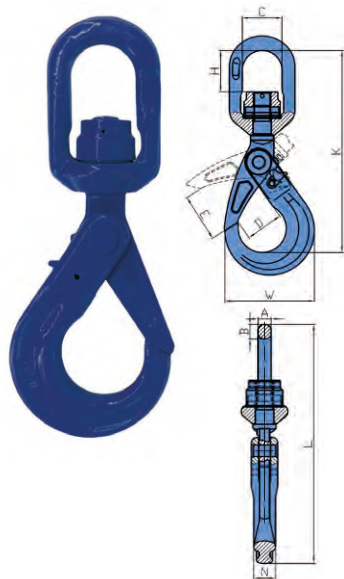


- swivel structure allows the hook to rotate
- can be rotated to desired position prior to lifting
- paint coated
- safety factor 4:1

For chain mm	WLL t	B mm	C mm	D mm	E mm	H mm	M mm	L mm	Weight kg	Product code
6	1,4	32	23	11	28	20	70	184	0,60	VAKAL106
8	2,5	36	28	13	35	26	90	229	1,10	VAKAL1078
10	4,0	42	35	15	45	30	108	269	2,00	VAKAL1010
13	6,7	50	40	17	53	40	138	330	4,00	VAKAL1013
16	10,0	61	56	21	62	50	170	413	6,80	VAKAL1016
20	16,0	72	62	26	76	62	192	463	12,50	VAKAL1020
22	19,0	97	95	33	80	63	-	553	19,40	*VAKAL1022

*items marked with an asterisk delivery time 1-2 weeks

EYE SELF-LOCKING HOOKS WITH BALL BEARING SWIVEL

- hook locks automatically when lifting starts
- hook rotates easily also with full load
- paint coated
- safety factor 4:1

For chain	WLL	A	B	C	D	E	N	H	K	L	W	Weight	Product code
mm	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
6	1,4	11	13	37	27	30	15	32	163	196	70	0,67	VAKAL1006KL
8	2,5	13	15	41	35	40	20	39	202	243	90	1,21	VAKAL1078KL
10	4,0	15	17	48	45	48	26	48	244	289	108	2,2	VAKAL1010KL
13	6,7	17	19	55	52	63	32	57	292	351	138	4,4	VAKAL1013KL
16	10,0	21	26	62	62	75	38	62	346	422	170	7,48	VAKAL1016KL
20	16,0	26	28	76	76	80	50	72	396	487	191	13,75	VAKAL1020KL
22	19,0	33	33	97	97	95	52	97	465	563	208	18,81	VAKAL1022KL
26	26,5	42	42	123	123	107	60	119	565	688	253	31,4	VAKAL1026KL

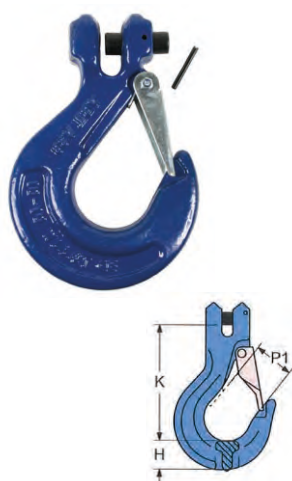
EYE SLING HOOKS WITH LATCH



- extra strong forged safety latch
- paint coated
- safety factor 4:1
- connection to the chain with a grade 100 connecting link

For chain	WLL	P	A	K	H	Weight	Product code
mm	t	mm	mm	mm	mm	kg	
6	1,4	18	20	80	21	0,32	SALKA1006
8	2,5	25	25	98	27	0,60	SALKA1078
10	4,0	28	34	120	33	1,20	SALKA1010
13	6,7	38	43	152	43	2,20	SALKA1013
16	10,0	44	50	183	50	3,50	SALKA1016
20	16,0	52	55	217	56	7,15	SALKA1020
22	19,0	66	60	241	62	11,5	SALKA1022

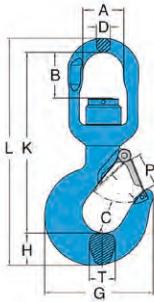
CLEVIS SLING HOOKS WITH LATCH



- like the previous hook, but the lifting chain is attached directly to the hook without a connecting link
- paint coated
- safety factor 4:1

For chain	WLL	P1	H	K	Weight	Product code
mm	t	mm	mm	mm	kg	
6	1,4	18	21	75	0,33	SALKAH1006
8	2,5	25	27	85	0,70	SALKAH1078
10	4,0	28	33	104	1,30	SALKAH1010
13	6,7	38	42	128	2,30	SALKAH1013
16	10,0	44	50	150	3,60	SALKAH1016
20	16,0	52	56	180	7,30	SALKAH1020
22	19,0	66	62	213	12,10	SALKAH1022

EYE SLING HOOKS WITH LATCH AND BALL BEARING SWIVEL

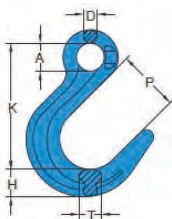


- hook rotates easily also with full load
- paint coated
- safety factor 4:1

For chain mm	WLL t	A mm	B mm	C mm	D mm	G mm	H mm	K mm	L mm	T mm	Weight kg	Product code
6	1,4	32	23	25	12	80	21	126	158	18	0,7	SALKAL1006KL
7-8	2,5	36	29	26	13	91	25	143	181	22	0,9	SALKAL1078KL
10	4	41	35	29	16	102	29	196	212	24	1,6	SALKAL1010KL
13	6,7	46	44	38	21	130	36	211	269	31	3,2	SALKAL1013KL
16	10	61	51	49	23	166	46	258	328	42	5,7	SALKAL1016KL
20	16,9	74	82	62	25	196	58	326	409	48	9,6	SALKAL1020KL
22	19	97	96	65	33	221	64	372	471	56	16,5	SALKAL1022KL

Delivery time 1-2 weeks.

EYE FOUNDRY HOOKS

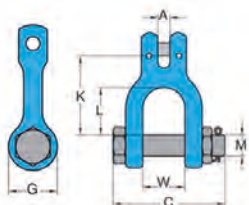


- wide mouth open hooks for foundry use
- paint coated
- safety factor 4:1

For chain mm	WLL t	A mm	D mm	H mm	K mm	P mm	T mm	Weight kg	Product code
6	1,4	18	6	22	93	48	17	0,33	VAL1006
7/8	2,5	24	12	27	123	62	19	0,8	VAL1078
10	4,0	32	15	32	149	74	23	1,6	VAL1010
13	6,7	40	19	39	180	88	32	2,6	VAL1013
16	10,0	50	25	47	213	98	41	4,5	*VAL1016
20	16,0	60	26	57	248	113	46	9,3	*VAL1020

*items marked with an asterisk delivery time 1-2 weeks

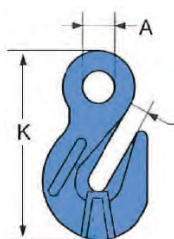
CHAIN SHACKLES



- can be attached directly to the lifting chain without a connecting link
- paint coated
- safety factor 4:1

For chain mm	WLL t	A mm	C mm	G mm	K mm	L mm	M mm	W mm	Weight kg	Product code
7-8	2,5	9	79	34	59	35	16	33	0,4	SAKSAH1078
10	4,0	11	93	40	78	48	20	37	0,8	SAKSAH1010
13	6,7	14	118	44	98	64	22	49	1,4	SAKSAH1013
16	10,0	18	141	54	112	69	28	60	2,5	SAKSAH1016

EYE GRAB HOOKS

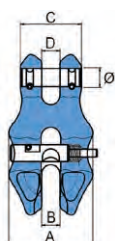


- for shortening chain legs
- attachment to the master link with the same connecting link as the chain
- paint coated
- safety factor 4:1

For chain mm	WLL t	P mm	K mm	A mm	Weight kg	Product code
6	1,4	8	71	14	0,20	LYKA1006
8	2,5	10	91	18	0,28	LYKA1008
10	4,0	13	127	22	0,72	LYKA1010
13	6,7	16	163	28	1,60	LYKA1013
16	10,0	19	183	36	2,45	LYKA1016
20	16,0	24	227	43	4,72	LYKA1020
22	19,0	27	260	48	8,20	LYKA1022

SHORTENING CLUTCHES

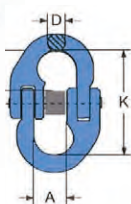
NEW



- attachment to the master link with a separate chain, to which the clutch is fixed with a pin
- can be used for normal shortening or for making a loop around the item to be lifted
- equipped with a chain locking pin
- paint coated
- safety factor 4:1

For chain mm	WLL t	A mm	B mm	C mm	D mm	M mm	N mm	Ø mm	L mm	Weight kg	Product code
6	1,4	38	7,5	27	7,5	29	16	7,7	73	0,25	LYKATK1006
8	2,5	50	9,5	33	9,5	36	23	9,5	92	0,41	LYKATK1078
10	4,0	60	11,5	43	11,5	45,5	26	13,3	115	0,75	LYKATK1010
13	6,7	79	15	55	15	54	34	16,3	149	1,67	LYKATK1013
16	10,0	98	19	70	19	70	40	19,7	184	4,20	LYKATK1016

CONNECTING LINKS

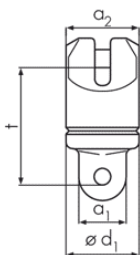


- for attaching chain and hooks
- paint coated
- safety factor 4:1

For chain mm	WLL t	D mm	K mm	A mm	Weight kg	Product code
6	1,4	7	44	14	0,10	LLA106
8	2,5	10	61	18	0,22	LLA1078
10	4,0	12	72	23	0,45	LLA1010
13	6,7	16	89	27	1,15	LLA1013
16	10,0	21	103	33	1,75	LLA1016
20	16,0	24	116	42	2,70	LLA1020
22	19,0	27	135	48	4,02	LLA1022

BALL BEARING SWIVELS, CLEVIS / EYE, GRADE 100

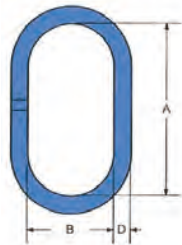
JDT



- small, duration lubricated, easily rotating swivels for use with lifting chains
- rotates easily also with full load
- clevis / eye ends
- paint coated / yellow passivated
- safety factor 4:1

For chain mm	WLL t	a1 mm	a2 mm	b mm	Ød1 mm	Ød2 mm	t mm	Weight kg	Product code
6	1,40	20	36	6	36	8	51	0,26	LEIK6SH
8	2,50	26	43	8	41	10	56	0,41	LEIK8SH
10	4,00	35	52	10	51	13	73	0,86	LEIK10SH
13	6,70	43	65	13	59	17	88	1,51	LEIK13SH

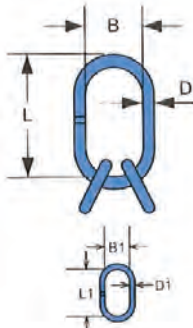
MASTER LINKS FOR 1- AND 2-LEG CHAIN SLINGS



- chain is attached with grade 100 connecting link
- paint coated
- safety factor 4:1

1-leg For chain mm	2-leg For chain mm	WLL t	D mm	B mm	A mm	Weight kg	Product code
6	6	2,1	13	60	110	0,3	NORA1076
8	-	3,5	16	60	110	0,5	NORA1087
10	8	5,0	18	75	135	0,9	NORA10108
13	10	7,6	22	90	160	1,6	NORA101310
16	13	10,0	26	100	180	2,4	NORA101613
-	16	14,0	32	110	200	4,0	NORA101816
22	20	25,0	36	140	260	6,3	NORA102220
-	22	30,8	45	175	320	12,0	NORA10222

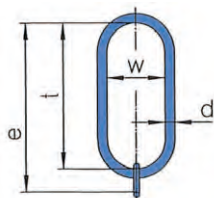
MASTER LINK ASSEMBLIES FOR 2-4-LEG CHAIN SLINGS



- chains are attached with grade 100 connecting links
- paint coated
- safety factor 4:1

3-/4-leg For chain mm	WLL t 0 – 45° chain angle	WLL t 45 – 60° chain angle	D mm	B mm	L mm	L+L1 mm	Weight kg	Product code
6	3,15	2,25	18	75	153	207	1,1	NRLIA6
8	5,30	3,75	22	90	182	252	2,2	NRLIA8
10	8,00	6,00	26	100	206	291	3,4	NRLIA10
13	14,00	10,00	32	110	232	347	6,1	NRLIA13
16	21,00	15,00	36	140	296	436	9,9	NRLIA16
20	33,60	24,00	45	180	430	670	26,5	NRLIA20
22	42,00	30,00	50	200	480	800	32,8	NRLIA22

OVERSIZED MASTER LINK ASSEMBLIES FOR 2-4-LEG CHAIN SLINGS

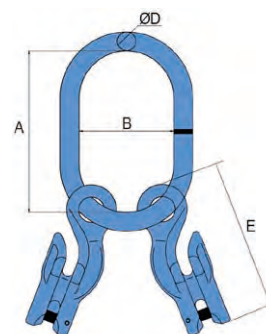


- chains are attached with grade 100 connecting links
- paint coated
- safety factor 4:1

2-leg For chain mm	3-4-leg For chain mm	WLL t	d mm	t mm	w mm	e mm	Weight kg	Product code
10	8	5,6	27	340	180	410	5,1	NORYL10108
13	10	9,5	33	340	180	425	8,0	NORYL101013
16	13	14,0	40	340	180	455	12,3	NORYL101316
20	16	21,2	40	340	180	480	13,8	NORYL101620

MASTER LINK ASSEMBLIES WITH GRAB HOOKS FOR 1- AND 2-LEG CHAIN SLINGS

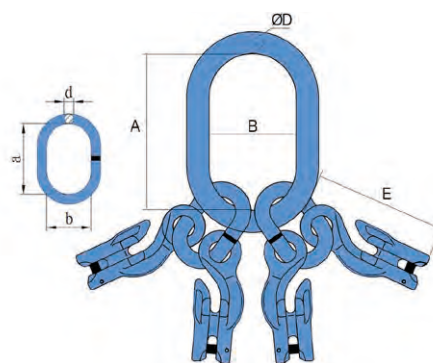
- chains are attached directly to the grab hooks which are fixed to the master link
- paint coated
- safety factor 4:1




For chain mm	WLL t	D mm	B mm	A mm	E mm	Weight kg	Product code
6	2,0	14	70	120	112	1,0	NRLIA6L
8	3,55	17	80	140	145	2,1	NRLIA78L
10	5,6	22	95	160	184	4,2	NRLIA10L
13	9,5	25	110	190	178	7,0	NRLIA13L
16	14,0	32	130	230	216	13,5	NRLIA16L

MASTER LINK ASSEMBLIES WITH GRAB HOOKS FOR 3- AND 4-LEG CHAIN SLINGS

- chains are attached directly to the grab hooks which are fixed to the master link
- paint coated
- safety factor 4:1




For chain mm	WLL t	D mm	B mm	A mm	E mm	a mm	b mm	d mm	Weight kg	Product code
6	3,0	14	75	135	112	54	25	13	2,5	NRLIA46L
8	5,3	17	90	160	145	70	34	16,5	5,1	NRLIA478L
10	8,0	22	100	180	184	85	40	19	9,0	NRLIA410L
13	14,0	25	110	200	178	115	50	23	16,0	NRLIA413L

CHAIN SLINGS WITH SELF-LOCKING HOOKS OR SLINGS HOOKS WITH LATCH

- 1- , 2- , 3- and 4-leg assemblies
- paint coated
- safety factor 4:1



	Chain size	WLL t chain angle 0 - 45°	WLL t chain angle 45 - 60°	Safety hooks	Safety hooks + Grab hooks	Latch hooks	Latch hooks + Grab hooks
	mm			Product code	Product code	Product code	Product code
1-leg	6	1,40		NKVE06101	NKVE06101L	NKSE06101	NKSE06101L
	8	2,50		NKVE08101	NKVE08101L	NKSE08101	NKSE08101L
	10	4,00		NKVE10101	NKVE10101L	NKSE10101	NKSE10101L
	13	6,70		NKVE13101	NKVE13101L	NKSE13101	NKSE13101L
	16	10,00		NKVE16101	NKVE16101L	NKSE16101	NKSE16101L
	20	16,00		NKVE20101	NKVE20101L	NKSE20101	NKSE20101L
	22	19,00		NKVE22101	NKVE22101L	NKSE22101	NKSE22101L

2-leg	6	1,96	1,40	NKVE06201	NKVE06201L	NKSE06201	NKSE06201L
	8	3,50	2,50	NKVE08201	NKVE08201L	NKSE08201	NKSE08201L
	10	5,60	4,00	NKVE10201	NKVE10201L	NKSE10201	NKSE10201L
	13	9,50	6,70	NKVE13201	NKVE13201L	NKSE13201	NKSE13201L
	16	14,00	10,00	NKVE16201	NKVE16201L	NKSE16201	NKSE16201L
	20	22,40	16,00	NKVE20201	NKVE20201L	NKSE20201	NKSE20201L
	22	26,60	19,00	NKVE22201	NKVE22201L	NKSE22201	NKSE22201L

3-leg	6	2,94	2,10	NKVE06301	NKVE06301L	NKSE06301	NKSE06301L
	8	5,25	3,75	NKVE08301	NKVE08301L	NKSE08301	NKSE08301L
	10	8,00	5,70	NKVE10301	NKVE10301L	NKSE10301	NKSE10301L
	13	14,00	10,00	NKVE13301	NKVE13301L	NKSE13301	NKSE13301L
	16	21,00	15,00	NKVE16301	NKVE16301L	NKSE16301	NKSE16301L
	20	33,60	24,00	NKVE20301	NKVE20301L	NKSE20301	NKSE20301L
	22	39,90	28,50	NKVE22301	NKVE22301L	NKSE22301	NKSE22301L

4-leg	6	2,94	2,10	NKVE06401	NKVE06401L	NKSE06401	NKSE06401L
	8	5,25	3,75	NKVE08401	NKVE08401L	NKSE08401	NKSE08401L
	10	8,00	5,70	NKVE10401	NKVE10401L	NKSE10401	NKSE10401L
	13	14,00	10,00	NKVE13401	NKVE13401L	NKSE13401	NKSE13401L
	16	21,00	15,00	NKVE16401	NKVE16401L	NKSE16401	NKSE16401L
	20	33,60	24,00	NKVE20401	NKVE20401L	NKSE20401	NKSE20401L
	22	39,90	28,50	NKVE22401	NKVE22401L	NKSE22401	NKSE22401L

The last two numbers of the product code refer to the length. When ordering, for example, a 10 mm, 2-leg and 3 m long chain sling, the product code is NKVE10203.

Note! The leg length of the chain sling assembly, unless specifically ordered, is as presented (L1) in the image.

10 LUOKKA GRADE

NOSTOKETJUYHDISTELMIEN SALLITUT TYÖKUORMAT WORKING LOAD LIMITS FOR CHAIN SLINGS

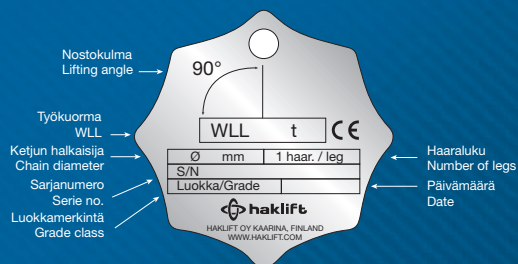
CE	1-haaraiset / legs		2-haaraiset / legs		3-4-haaraiset / legs						
	Kaltevuuskulma β / Inclination angle β										
0 - 45°						45 - 60°					
Ketju / Chain \varnothing mm						Työkuorma / WLL kg					
	6	1400	1960	1400	2940	2100					
	8	2500	3500	2500	5250	3750					
	10	4000	5600	4000	8000	5700					
	13	6700	9500	6700	14000	10000					
	16	10000	14000	10000	21000	15000					
	20	16000	22400	16000	33600	24000					
	22	19000	26600	19000	39900	28500					
	Sallittuja kuormia laskettaessa käytetyt kertoimet / Coefficients used in calculated WLL						1,0	1,4	1,0	2,1	1,5

Kiristävässä nostossa taulukon arvot kerrotaan 0,8:lla / For a thigtening lift, the table values are multiplied by 0,8

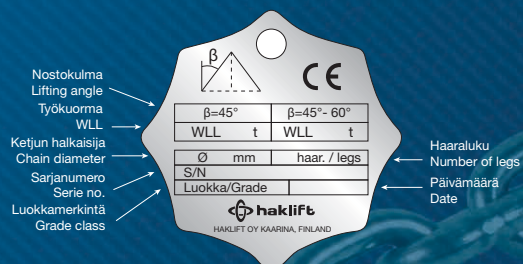
Varmuuskerroin / Safety factor 4:1

NOSTOKETJUYHDISTELMIEN KUORMAKILVET WLL PLATES FOR CHAIN SLINGS

1-haarainen / 1-leg



monihaarainen / 2-4-legs



KÄYTTÖLÄMPÖTILA
OPERATING TEMPERATURE **-29 - (+)205°C**

**TARKASTA NOSTOKETJUYHDISTELMÄT SILMÄMÄÄRÄISESTI
AINA ENNEN KÄYTTÖÄ JA TÄYDELLISESTI VÄHINTÄÄN KERRAN
VUODESSA.**

**ALWAYS CHECK LIFTING CHAIN ASSEMBLIES VISUALLY
BEFORE USE AND THOROUGHLY AT LEAST ONCE A YEAR.**

GRADE 120

WHAT BENEFIT CAN BE ACHIEVED WITH GRADE 120 PRODUCTS?

With grade 120 products a 50 % higher WLL can be achieved with the same chain size compared to grade 80 products.

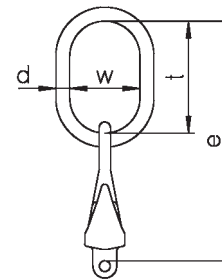
You can, for example, replace a 10 mm grade 80 chain sling by 8 mm grade 120 chain sling and achieve almost the same WLL with a considerably lighter product.

Note! We provide also grade 100 KWB products. Ask for more from our sales.



MASTER LINKS WITH GRAB HOOK FOR 1-LEG CHAIN SLINGS

- chain is attached directly to the grab hook fixed to the master link
- paint coated
- safety factor 4:1

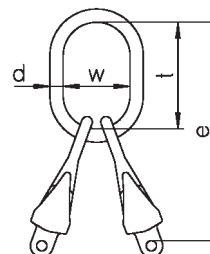


For chain mm	WLL t	d mm	t mm	w mm	e mm	Weight kg	Product code
7	2,36	14	120	70	244	1,21	*NOR1207
8	3,00	17	140	80	264	1,44	NOR1208
10	5,00	19	160	95	318	2,72	NOR1210
13	8,00	27	190	110	391	5,83	NOR1213
16	12,20	30	190	110	423	9,50	*NOR1216

*items marked with an asterisk delivery time approx. 2 weeks

MASTER LINKS WITH GRAB HOOKS FOR 2-LEG CHAIN SLINGS

- chains are attached directly to the grab hooks fixed to the master link
- paint coated
- safety factor 4:1

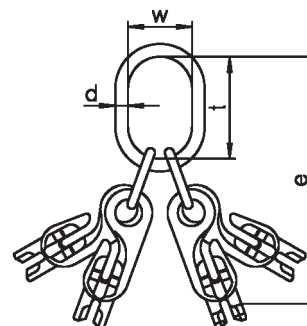
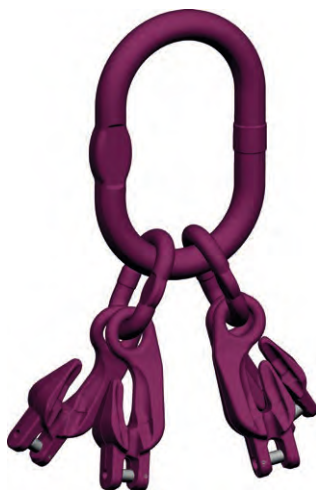


For chain mm	WLL t chain angle 0 - 45°	WLL t chain angle 45 - 60°	d mm	t mm	w mm	e mm	Weight kg	Product code
7	3,35	2,36	19	160	95	284	2,75	*NRLI1207
8	4,25	3,00	19	160	95	284	2,75	NRLI1208
10	7,10	5,00	23	170	105	328	4,76	NRLI1210
13	11,20	8,00	30	190	110	391	9,56	NRLI1213
16	17,08	12,20	38	275	150	508	18,66	NRLI1216

*items marked with an asterisk delivery time approx. 2 weeks

MASTER LINKS WITH GRAB HOOKS FOR 3 AND 4 -LEG CHAIN SLINGS

- chains are attached directly to the grab hooks fixed to the master link
- paint coated
- safety factor 4:1

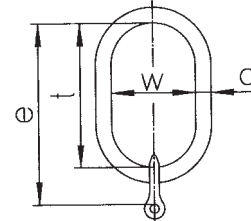


For chain mm	WLL t chain angle 0 - 45°	WLL t chain angle 45 - 60°	d mm	t mm	w mm	e mm	Weight kg	Product code
7	5,00	3,55	27	190	110	368	6,45	*NRLI124H07
8	6,30	4,50	27	190	110	368	6,45	NRLI124H08
10	10,60	7,50	30	190	110	433	11,70	NRLI124H10
13	17,00	11,80	38	275	150	616	23,84	NRLI124H13
16	25,62	18,30	38	275	150	658	36,16	*NRLI124H16

*items marked with an asterisk delivery time approx. 2 weeks

MASTER LINKS WITH OMEGA LINK FOR 1-LEG CHAIN SLINGS

- chain is attached directly to the omega link fixed to the master link
- paint coated
- safety factor 4:1

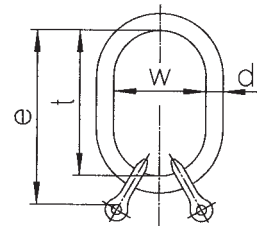
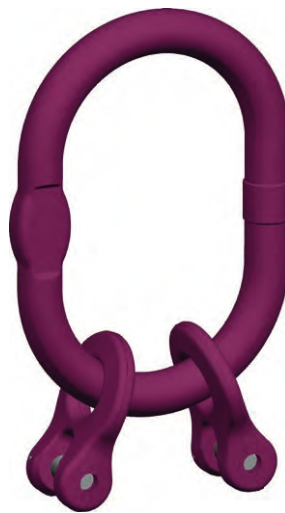


For chain mm	WLL t	d mm	t mm	w mm	e mm	Weight kg	Product code
7	2,36	14	120	70	163	0,66	*NOR1207OME
8	3,00	17	140	80	183	0,89	*NOR1208OME
10	5,00	19	160	95	211	1,62	*NOR1210OME
13	8,00	27	190	110	254	3,47	*NOR1213OME
16	12,20	30	190	110	268	5,80	*NOR1216OME

*items marked with an asterisk delivery time approx. 2 weeks

MASTER LINKS WITH OMEGA LINKS FOR 2-LEG CHAIN SLINGS

- chains are attached directly to the omega links fixed to the master link
- paint coated
- safety factor 4:1



For chain mm	WLL t chain angle 0 - 45°	WLL t chain angle 45 - 60°	d mm	t mm	w mm	e mm	Weight kg	Product code
7	3,35	2,36	19	160	95	203	3,35	*NRL11207OM
8	4,25	3,00	19	160	95	203	4,25	NRL11208OM
10	7,10	5,00	23	170	105	221	7,10	NRL11210OM
13	11,20	8,00	30	190	110	257	11,20	NRL11213OM
16	17,08	12,20	38	275	150	353	17,50	NRL11216OM

*items marked with an asterisk delivery time approx. 2 weeks

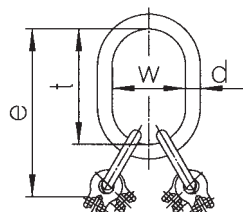
MASTER LINKS WITH OMEGA LINKS FOR 3- AND 4-LEG CHAIN SLINGS

- chains are attached directly to the omega links fixed to the master link
- paint coated
- safety factor 4:1



For chain mm	WLL t chain angle 0 - 45°	WLL t chain angle 45 - 60°	d mm	t mm	w mm	e mm	Weight kg	Product code
7	5,00	3,55	27	190	110	287	4,25	*NRL124H07OM
8	6,30	4,50	27	190	110	287	4,25	NRL124H08OM
10	10,60	7,50	30	190	110	326	7,34	NRL124H10OM
13	17,00	11,80	38	275	150	479	14,40	NRL124H13OM
16	25,62	18,30	38	275	150	503	19,48	*NRL124H16OM

*items marked with an asterisk delivery time approx. 2 weeks



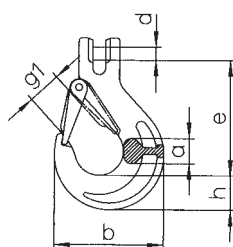
CLEVIS SLING HOOKS WITH LATCH

- chain is attached directly to the hook without a connecting link
- paint coated
- safety factor 4:1



For chain mm	WLL t	e mm	h mm	a mm	b mm	d mm	g1 mm	Weight kg	Product code
7	2,36	93	27	21	89	9,5	26	0,63	*SALKH1207
8	3,00	92	27	21	89	11	26	0,63	SALKH1208
10	5,00	108	33	25	110	14	31	1,18	SALKH1210
13	8,00	130	41	34	132	17,5	38	2,35	SALKH1213
16	12,20	158	49	37	160	21	45	3,82	*SALKH1216

*items marked with an asterisk delivery time approx. 2 weeks



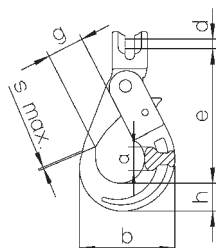
CLEVIS SELF-LOCKING HOOKS

- chain is attached directly to the hook without a connecting link
- paint coated
- safety factor 4:1



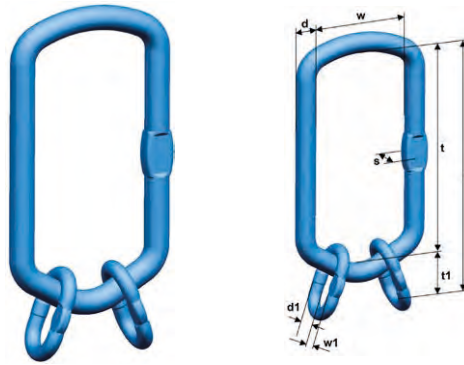
For chain mm	WLL t	e mm	h mm	a mm	b mm	d mm	g mm	s max. mm	Weight kg	Product code
7	2,36	125	26	21	92	9,5	32	1	0,93	*VAKH1207
8	3,00	124	26	21	92	11	32	1	0,93	VAKH1208
10	5,00	143	31	26	115	14	45	1	1,60	VAKH1210
13	8,00	183	42	35	145	17,5	54	2	3,50	VAKH1213
16	12,20	218	51	41	169	21	60	2	6,50	VAKH1216

*items marked with an asterisk delivery time approx. 2 weeks



OVERSIZED MASTER LINK ASSEMBLIES FOR 2-4-LEG CHAIN SLINGS

- grade 120
- chains are attached to the master link by means of connecting links
- paint coated
- safety factor 4:1



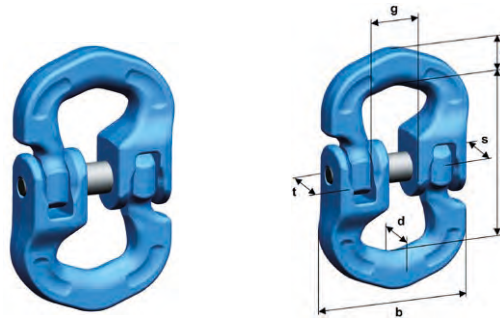
pewäg

NEW

2-leg For chain mm	3-4-leg For chain mm	WLL t chain angle 0 - 45° 2-leg	WLL t chain angle 45 - 60° 2-leg	WLL t chain angle 0 - 45° 3-4-leg	WLL t chain angle 45 - 60° 3-4-leg	e	d	t	w	d1	t1	w1	sw	Weight kg	Product code
10	7/8	7,1	5,0	6,3	4,5	410	27	340	155	17	70	34	21	5,20	NORYL121078P
13	10	11,2	8,0	10,6	7,5	425	33	340	155	20	85	40	26	8,00	NORYL121310P

CONNECTING LINKS

- grade 120
- for attaching chain and hooks
- paint coated
- safety factor 4:1



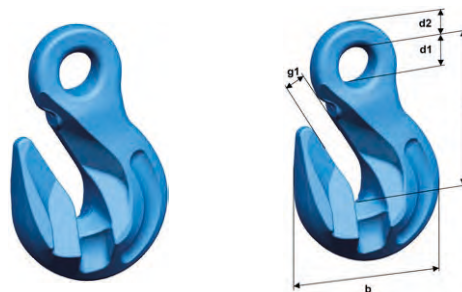
pewäg

NEW

For chain mm	WLL t	e	c	s	t	d	b	g	Weight kg	Product code
7-8	2,36	63	11.50	13	15.50	9	51	17	0.24	LLA1208P
10	5,00	78	18	21	25	13	66	22	0.57	LL1210P
13	8,00	107	22	25	34	17	84	25	1.43	LL1213P

GRAB HOOKS

- grade 120
- for shortening chain legs
- to be attached to the master link with the same connecting link as the chain
- paint coated
- safety factor 4:1



pewäg



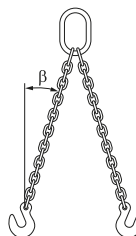
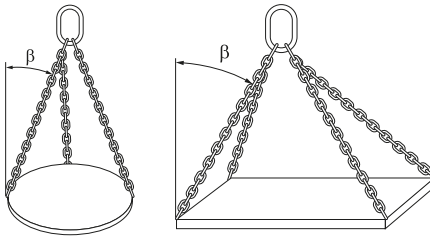
NEW

For chain mm	WLL t	e	b	d1	d2	g1	Weight kg	Product code
7-8	3,00	68	63	18	11	10	0.51	LYKA1208P
10	5,00	88	81	22	14	13	1.04	LYKA1210P
13	8,00	110	103	26	18	17	2.19	LYKA1213P

Ask for more from our sales. We will build just the right chain sling assembly for your needs.

12 LUOKKA GRADE

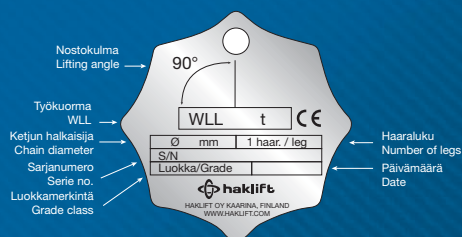
NOSTOKETJUYHDISTELMIEN SALLITUT TYÖKUORMAT WORKING LOAD LIMITS FOR CHAIN SLINGS

CE	1-haaraiset / legs	2-haaraiset / legs		3-4-haaraiset / legs	
					
	Kaltevuuskulma β / Inclination angle β				
	0 - 45°		45 - 60°		0 - 45°
Ketju / Chain \varnothing mm	Työkuorma / WLL kg				
7	2360	3350	2360	5000	3550
8	3000	4250	3000	6300	4500
10	5000	7100	5000	10600	7500
13	8000	11200	8000	17000	11800
16	12200	17080	12200	25620	18300
Sallittuja kuormia laskettaessa käytetyt kertoimet / Coefficients used in calculated WLL					
	1,0	1,4	1,0	2,1	1,5
Kirstävässä nostossa taulukon arvot kerrotaan 0,8:lla / For a thigtening lift, the table values are multiplied by 0,8					

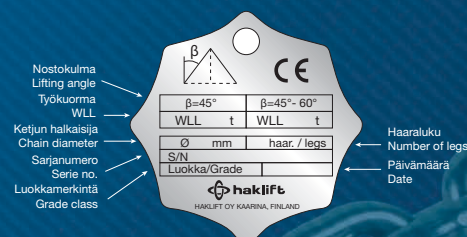
Varmuuskerroin / Safety factor 4:1

NOSTOKETJUYHDISTELMIEN KUORMAKILVET WLL PLATES FOR CHAIN SLINGS

1-haarainen / 1-leg



monihaarainen / 2-4-legs



**KÄYTTÖLÄMPÖTILA
OPERATING TEMPERATURE -40 - (+)200°C**

**TARKASTA NOSTOKETJUYHDISTELMÄT SILMÄMÄÄRÄISESTI
AINA ENNEN KÄYTTÖÄ JA TÄYDELLISESTI VÄHINTÄÄN KERRAN
VUODESSA.**

**ALWAYS CHECK LIFTING CHAIN ASSEMBLIES VISUALLY
BEFORE USE AND THOROUGHLY AT LEAST ONCE A YEAR.**

LIFTING CHAINS

- short link chains
- material AISI 316
- safety factor 4:1



Chain size	WLL	A	B	Weight	Product code
D mm	t	mm	mm	kg/m	
6	0,90	18,0	8	0,8	NKHK6
8	1,55	24,0	10	1,4	NKHK8
10	2,00	30,0	13	2,2	NKHK10
13	3,20	39,0	17	3,8	NKHK13

EYE SLING HOOKS WITH LATCH

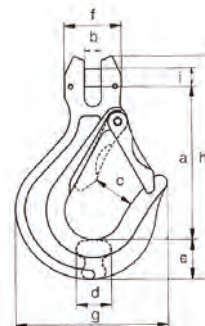
- material AISI 316
- safety factor 4:1



For chain	WLL	e	h	a	d1	d2	g1	b	Weight	Product code
mm	t	mm	mm	mm	mm	mm	mm	mm	kg	
5/6	0,90	84	20	14	21	8	22	67	0,25	SALKHK6SI
7/8	1,60	112	29	20	27	13	32	98	0,70	SALKHK78SI
10	2,50	133	33	28	37	15	39	115	1,35	SALKHK10SI
13	4,25	172	43	35	48	18	51	147	2,60	SALKHK13SI

CLEVIS SLING HOOKS WITH LATCH

- material AISI 316
- safety factor 4:1



For chain	WLL	a	b	c	d	e	f	g	h	i	Weight	Product code
mm	t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
6	0,70	76	7	25	15	19	27	73	109	8	0,29	*SALKHK6
8	1,20	95	9	28	20	22	32	85	133	9	0,55	*SALKHK78
10	1,60	113	11	28	24	28	41	106	164	13	0,97	*SALKHK10
13	2,70	138	15	38	32	40	52	133	208	16	1,86	*SALKHK13

*items marked with an asterisk delivery time 1-2 weeks

OMEGA LINKS

- used in the same way as connecting links
- material AISI 316
- safety factor 4:1



For chain mm	WLL t	B mm	L mm	Weight kg	Product code
7/8	1,20	23	34	0,16	OMER78
10	1,60	31	41	0,28	OMER10
13	2,70	40	54	0,63	OMER13

MASTER LINKS

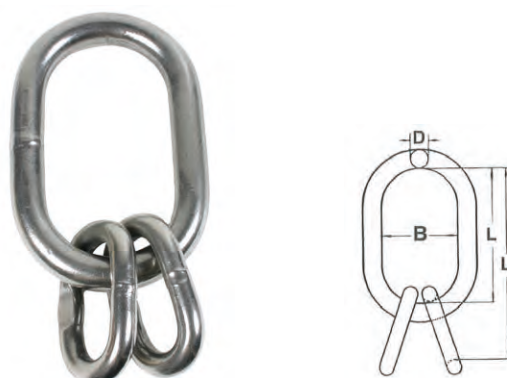
- for 1- and 2-leg chain slings
- material AISI 316
- safety factor 4:1



1-leg For chain mm	2-leg For chain mm	WLL 1-leg t	WLL 2-leg 45° t	WLL 2-leg 60° t	L mm	B mm	D mm	Weight kg	Product code
6	-	0,75	-	-	110	60	13	0,34	NORHK66
8	6	1,25	1,40	1,00	110	60	16	0,53	NORHK86
10	8	2,00	1,70	1,25	135	75	18	0,82	NORHK108
13	10	3,20	2,80	2,00	160	90	22	1,50	NORHK1310
-	13	-	4,50	3,20	180	100	26	2,31	NORHK1613

MASTER LINK ASSEMBLIES

- for 3- and 4-leg chain slings
- material AISI 316
- safety factor 4:1

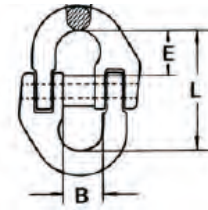


3/4-leg For chain mm	WLL 45° t	WLL 60° t	L mm	B mm	D mm	L1 mm	Weight kg	Product code
6	1,60	1,10	135	75	18	189	1,16	*NRLIH6
8	2,65	1,80	160	90	22	230	2,22	*NRLIH78
10	4,25	3,00	180	100	26	265	3,37	*NRLIH10
13	6,70	4,75	200	110	32	315	6,07	*NRLIH13

*items marked with an asterisk delivery time 1-2 weeks

CONNECTING LINKS

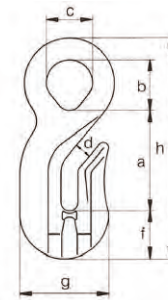
- for connecting chains to master links and hooks
- material AISI 316
- safety factor 4:1



For chain	WLL	E	B	L	Weight	Product code
mm	t	mm	mm	mm	kg	
6	0,70	14	16	45	0,10	LLHK6
8	1,20	18	20	55	0,16	LLHK8
10	1,60	25	25	73	0,36	LLHK10
13	2,70	32	28	92	0,73	LLHK13

EYE GRAB HOOKS

- used for shortening chain legs
- AISI 316



For chain	WLL	a	b	c	d	f	g	h	i	Weight	Tuote-koodi
mm	t	mm	mm	mm	mm	mm	mm	mm	mm	kg	
6	0,70	41	24	23	8	20	42	94	9	0,25	*LYKHK6
8	1,20	53	27	26	10	23	53	115	10	0,32	*LYKHK8
10	1,60	65	38	36	12	29	66	146	14	0,53	*LYKHK10
13	2,70	83	42	41	15	40	88	183	16	1,96	*LYKHK13

*items marked with an asterisk delivery time 1-2 weeks

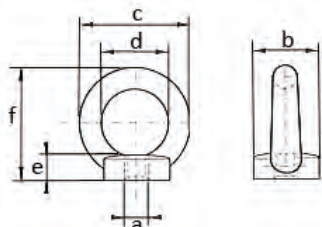
SHORTENING CLUTCHES

- used for shortening chain legs
- AISI 316



For chain	WLL	Weight	Product code
mm	t	kg	
6	0,75	0,205	LYKHNV06
8	1,25	0,345	LYKHNV08
10	2,00	0,790	LYKHNV10
13	3,20	1,230	LYKHNV13

LIFTING EYE NUTS DIN 582

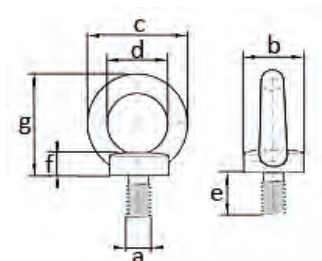


- polished surface
- material AISI 316

Size	b	c	d	e	f	Weight kg/ 100 pcs	Product code
M6	20,0	36,0	20,0	8,5	36,0	5,0	NSMH06L
M8	20,0	36,0	20,0	8,5	36,0	5,0	NSMH08L
M10	25,0	45,0	25,0	10,0	45,0	9,0	NSMH10L
M12	30,0	54,0	30,0	11,0	53,0	16,0	NSMH12L
M16	35,0	63,0	35,0	13,0	62,0	24,0	NSMH16L
M20	39,0	71,0	39,0	14,0	70,0	36,0	NSMH20L

Also other sizes available.

LIFTING EYE SCREWS DIN 580



- polished surface
- material AISI 316

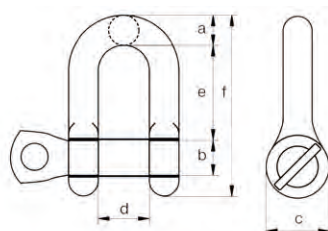
Size	b	c	d	e	f	g	Weight kg/ 100 pcs	Product code
M6	20,0	36,0	20,0	13,0	6,0	36,0	6,0	NSRH06L
M8	20,0	36,0	20,0	13,0	6,0	36,0	6,0	NSRH08L
M10	25,0	45,0	25,0	17,0	8,0	45,0	11,0	NSRH10L
M12	30,0	54,0	30,0	20,5	10,0	53,0	18,0	NSRH12L
M16	35,0	63,0	35,0	27,0	12,0	62,0	28,0	NSRH16L
M20	39,0	71,0	39,0	30,0	14,0	70,0	45,0	NSRH20L

WLL

Thread	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
M6	0,08	not allowed	0,16	not allowed	-	not allowed	-	not allowed
M8	0,14	not allowed	0,28	not allowed	0,10	not allowed	0,14	not allowed
M10	0,23	not allowed	0,46	not allowed	0,17	not allowed	0,23	not allowed
M12	0,34	not allowed	0,68	not allowed	0,24	not allowed	0,34	not allowed
M16	0,70	not allowed	1,40	not allowed	0,50	not allowed	0,70	not allowed
M20	1,20	not allowed	2,40	not allowed	0,86	not allowed	1,20	not allowed

Also other sizes available.

STAINLESS STEEL SHACKLES



- D-shackles approved for lifting
- material AISI 316
- safety factor 5:1

WLL t	a	b	c	d	e	f	Weight kg	Product code
0,40	8	8	16	16	32	52	0,06	SAKDH0400
0,60	10	10	19	20	40	64	0,12	SAKDH0600
0,90	12	12	24	25	48	78	0,21	SAKDH0900
1,50	13	16	31	24	52	90	0,34	SAKDH1500
2,50	16	20	38	28	64	110	0,61	SAKDH2500
3,00	19	22	44	32	72	124	0,90	SAKDH3000
4,00	22	25	50	37	74	134	1,08	SAKDH4000
6,00	25	30	57	40	94	162	2,25	SAKDH6000

Products' delivery time 1-2 weeks.

CHAIN SLINGS WITH SLING HOOKS WITH LATCH



- 1-, 2-, 3- and 4-leg assemblies
- equipped with a load plate and CE marking
- material AISI 316
- safety factor 4:1

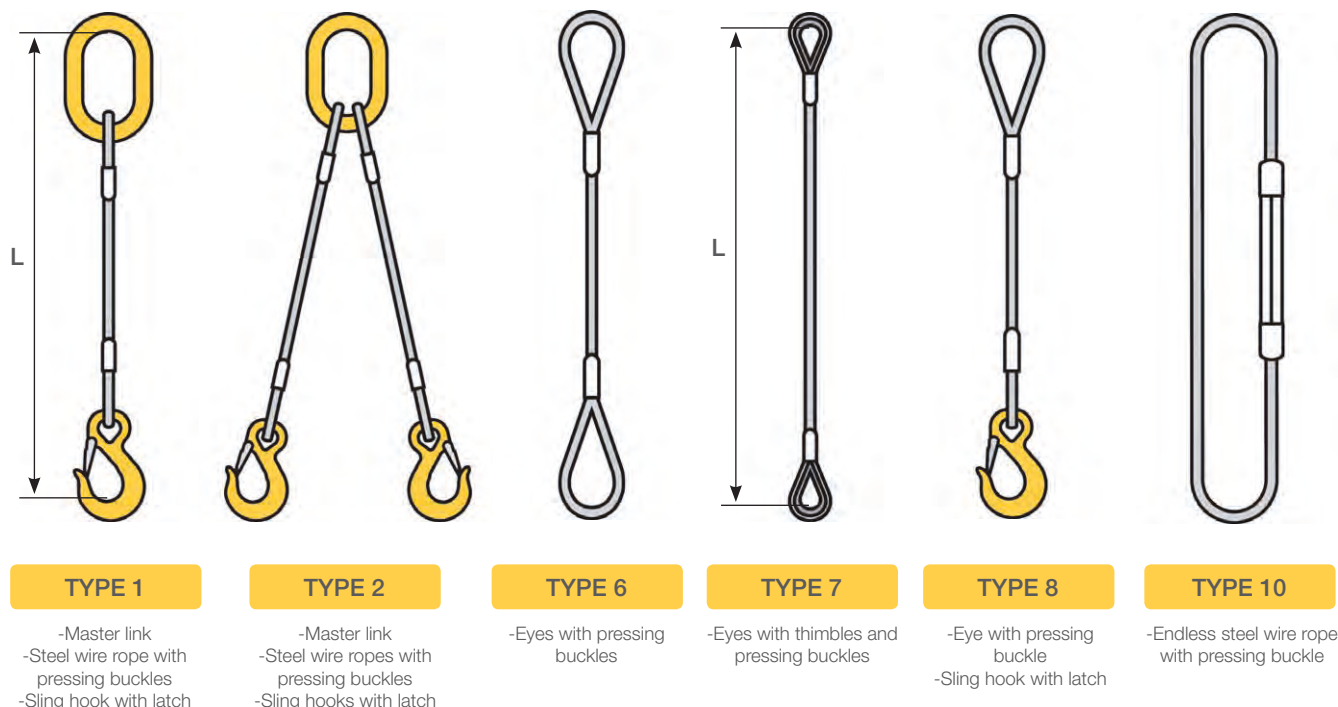
	Chain size	WLL t chain angle 0 - 45°	WLL t chain angle 45 - 60°	Latch hooks
	mm			Product code
1-leg	6	0,70		NKSH06101
	8	1,20		NKSH08101
	10	1,60		NKSH10101
	13	2,70		NKSH13101
2-leg	6	1,00	0,70	NKSH06201
	8	1,60	1,20	NKSH08201
	10	2,20	1,60	NKSH10201
	13	3,70	2,70	NKSH13201
3-leg	6	1,50	1,00	NKSH06301
	8	2,50	1,80	NKSH08301
	10	3,30	2,40	NKSH10301
	13	5,70	4,00	NKSH13301
4-leg	6	1,50	1,00	NKSH06401
	8	2,50	1,80	NKSH08401
	10	3,30	2,40	NKSH10401
	13	5,70	4,00	NKSH13401

The last two numbers of the product code refer to the length. When ordering, for example, a 10 mm, 2-leg and 3 m long chain sling, the product code is NKSH10203.

Note! The leg length of the chain sling assembly, unless specifically ordered, is as presented (L1) in the image.

STEEL WIRE ROPE SLINGS

- slings with eyes (type no. 6) and slings with eyes and thimbles (type no. 7) as standard types
- made from galvanized 6X36-IWRC 216-wire rope with pressing buckles
- steel wire rope's wire strength 1770 N/mm²
- also available with spliced connections
- also higher working load limits and special types with thread ends, turnbuckle ends etc.
- safety factor 5:1



When ordering, for example, a 16 mm steel wire rope sling type no. 8, length 9 m (L-length), the product code is TER81609.

WLL t	Wire rope diameter mm	Standard eye length mm	Product code type no. 6	Product code type no. 7
0,35	6	100	TER60601	TER70601
0,70	8	150	TER60801	TER70801
1,05	10	150	TER61001	TER71001
1,55	12	200	TER61201	TER71201
2,12	14	200	TER61401	TER71401
2,70	16	250	TER61601	TER71601
3,40	18	250	TER61801	TER71801
4,35	20	300	TER62002	TER72002
5,20	22	300	TER62202	TER72202
6,30	24	350	TER62402	TER72402
7,20	26	350	TER62602	TER72602
8,40	28	400	TER62802	TER72802
9,70	30	400	TER63002	TER73002
11,00	32	400	TER63202	TER73202
14,00	36	-	TER63603	TER73603
17,00	40	-	TER64003	TER74003
21,00	44	-	TER64403	TER74403
25,00	48	-	TER64803	TER74803
29,00	52	-	TER65203	TER75203
33,50	56	-	TER65603	TER75603
39,00	60	-	TER66003	TER76003

Delivery time 5-7 days.

TERÄSKÖYSIRAKSIEN SALLITUT TYÖKUORMAT WORKING LOAD LIMITS FOR STEEL WIRE ROPE SLINGS

Varmuuskerroin 5:1 EN-13414-1

Köyden halkaisija / Rope diameter	1-haaraiset 1-legs			2-haaraiset 2-legs				3-4-haaraiset 3-4-legs		Päätön / Endless		
	Suora Straight	Kiristävä Choke	U-muoto U-shape	Suora Straight	Kiristävä Choke	Suora Straight	Kiristävä Choke	Suora Straight		Suora Straight	Kiristävä Choke	U-muoto U-shape
					0° < β < 45°		45° < β < 60°		0° < β < 45°	45° < β < 60°		
6x36-IWRC 1770 N/mm ² Terässydän / Steel core												
Ø mm	Työkuorma / WLL kg											
6	350	280	700	490	392	350	280	735	525	700	560	1400
8	700	560	1400	980	784	700	560	1470	1050	1400	1120	2800
10	1050	840	2100	1470	1176	1050	840	2205	1575	2100	1680	4200
12	1550	1240	3100	2170	1736	1550	1240	3255	2325	3100	2480	6200
14	2120	1696	4240	2968	2374,4	2120	1696	4452	3180	4240	3392	8480
16	2700	2160	5400	3780	3024	2700	2160	5670	4050	5400	4320	10800
18	3400	2720	6800	4760	3808	3400	2720	7140	5100	6800	5440	13600
20	4350	3480	8700	6090	4872	4350	3480	9135	6525	8700	6960	17400
22	5200	4160	10400	7280	5824	5200	4160	10920	7800	10400	8320	20800
24	6300	5040	12600	8820	7056	6300	5040	13230	9450	12600	10080	25200
26	7200	5760	14400	10080	8064	7200	5760	15120	10800	14400	11520	28800
28	8400	6720	16800	11760	9408	8400	6720	17640	12600	16800	13440	33600
30	9700	7760	19400	13580	10864	9700	7760	20370	14550	19400	15520	38800
32	11000	8800	22000	15400	12320	11000	8800	23100	16500	22000	17600	44000
36	14000	11200	28000	19600	15680	14000	11200	29400	21000	28000	22400	56000
40	17000	13600	34000	23800	19040	17000	13600	35700	25500	34000	27200	68000
44	21000	16800	42000	29400	23520	21000	16800	44100	31500	42000	33600	84000
48	25000	20000	50000	35000	28000	25000	20000	52500	37500	50000	40000	100000
52	29000	23200	58000	40600	32480	29000	23200	60900	43500	58000	46400	116000
56	33500	26800	67000	46900	37520	33500	26800	70350	50250	67000	53600	134000
60	39000	31200	78000	54600	43680	39000	31200	81900	58500	78000	62400	156000
Sallittuja kuormia laskettaessa käytetyt kertoimet / Coefficients used in calculated WLL												
	1	0,80	2	1,4	1,12	1	0,8	2,1	1,5	2	1,6	4

KÄYTTÖLÄMPÖTILAT / OPERATING TEMPERATURES

Työkuorma ilmoitettuna prosentteina työkuormasta The working load limits presented as a percentage of the WLL						
Pääte / end type	Holkki / ferrule	Lämpötila / temperature				
		-40 - (+)100°C	101 - 150°C	151 - 200°C	201 - 300°C	301 - 400°C
Puristusholkki / the clamping bush	Alumiini / aluminium	100%	100%	ei sallittu / not allowed	ei sallittu / not allowed	ei sallittu / not allowed
Puristusholkki / the clamping bush	Teräs / steel	100%	100%	90%	75%	65%
Pleissi / splice	-	100%	100%	90%	75%	65%

Taulukossa annettujen sallittujen kuormien arvot pätevät vain kun kuorma jakautuu tasaisesti eri haarojen kesken.

Working load limits given in table values apply only when the load is evenly distributed among the legs.

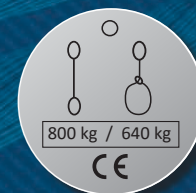
Tarkasta teräsköysiraksit silmämääräisesti aina ennen käyttöä ja täydellisesti vähintään kerran vuodessa.

Always check steel wire rope slings visually before use and thoroughly at least once a year.

KALTEVUUSKULMAT / INCLINATION ANGLES



KUORMAKILPI / WLL PLATE



Factors affecting to the loading of the slings

Factors that affect to the loading of the slings during lifting include, in addition to the weight of the load, the angle between the sling legs and the sizes of possible bending radiuses. It is strictly forbidden to use angles of over 120° . The effect of the lifting angle on the carrying capacity of the sling is presented in image 1. Small bending radiuses cause local load increase in the rope. If e.g. a rope is wrapped around an axel that is equal to the rope's diameter, the carrying capacity will decrease to approx. 50 % of the original (see image 2). In addition the rope will have a permanent distortion. For these reasons the eyes should always be equipped with thimbles and corner protectors should be used on the contact points of sharp corners of the load and the rope.

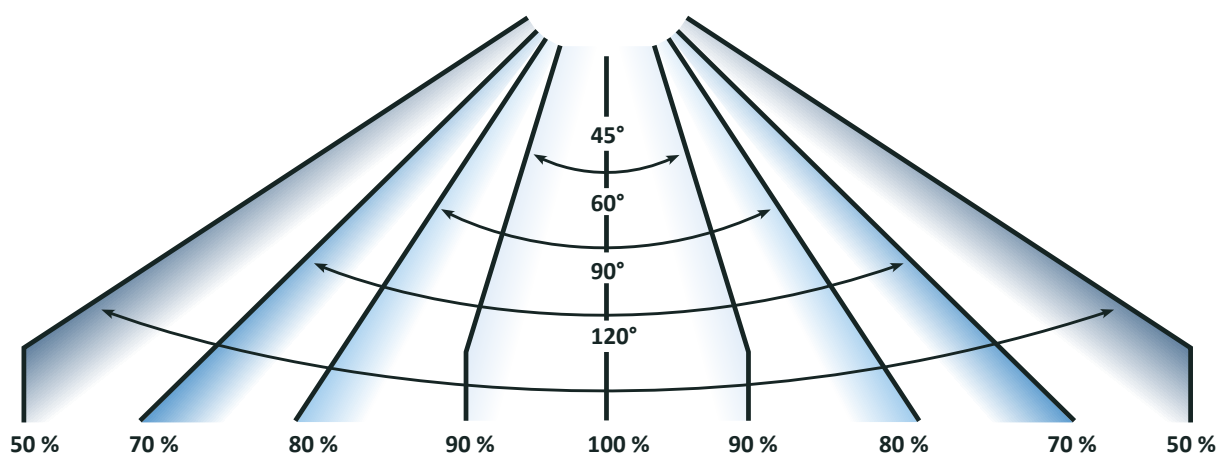


Image 1. The carrying capacity of the sling decreases as the lifting angle increases so that it will be only 50 % of the original with a 120° mounting angle.

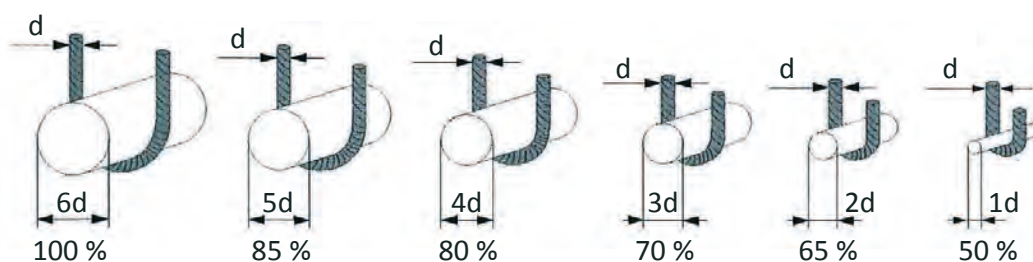


Image 2. The carrying capacity of the sling decreases as the bending radius decreases. The carrying capacity of a sling that is wrapped around a rod equal to the diameter of the rope is only 50 % of the original.

3. CHAIN, WIRE ROPE AND LEVER HOISTS & TROLLEYS

Electric chain hoists

Compressed air hoists and winches

Trolleys

Lever hoists

Hand chain hoists

Wire rope / Strap pulling hoists

Wire rope hoists

Electric wire hoists



LIFTKET ELECTRIC CHAIN HOISTS 400 V / 50 Hz

- lifting capacities 125 - 25000 kg
- available with hook suspension or integrated motor trolley
- 2-speed lifting
- 24 V low voltage control
- standard lifting height 6 m, other heights available for individual order
- if the lifting height is over 20 m, it may lower the WLL of the hoist
- control cable standard length 4,5 m, other lengths for individual order
- control switch is equipped with emergency stop as standard
- normal lifting heights are always equipped with a chain bag
- operating temperature -20 °C - (+)40 °C; if environment temperature is higher, running time has to be reduced
- Haklift trolleys (pages 3-10 and 3-11) can be utilized with hoists that are equipped with hook suspension
- protection class IP55
- made in Germany

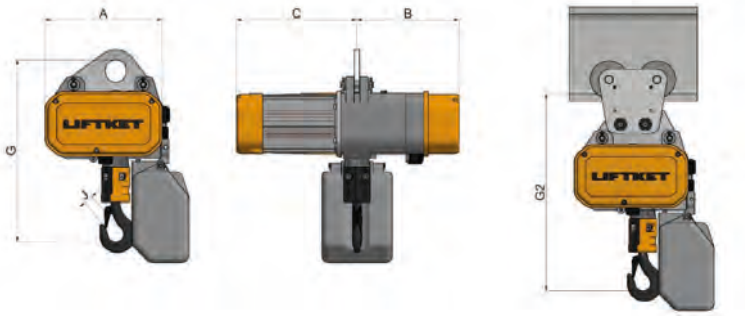


Check the hoist schematics on the next page and ED% explanation on page 3-5.

WLL	No. of chains	Chain size	Standard lifting height	Speed 1.	Speed 2.	ED % Speed 1. / Speed 2. / Lifting rate / h	Motor power	ISO / FEM	Weight	Weight	With hook suspension	With motor trolley
kg		mm	m	m/min	m/min		kW		3 m lift, hook model kg	3 m lift, motor trol. model kg	Product code	Product code
125	1	5,2x15	6	8,0	2,0	60/40% / 240	0,32	M7 / 4m	18	46	SKT125KV2	*SKT125MV2
250	1	5,2x15	6	8,0	2,0	50/25% / 240	0,32	M6 / 3m	18	46	SKT250KV2	*SKT250MV2
500	2	5,2x15	6	4,0	1,0	50/25% / 240	0,32	M6 / 3m	21	46	SKT500KV2	*SKT500MV2
NEW 500	1	7,2x21	6	8,0	2,0	60/25% / 240	0,9	M5 / 2m	42	67	SKT500KV21	*SKT500MV21
1000	2	7,2x21	6	4,0	1,0	60/25% / 240	0,9	M5 / 2m	47	72	SKT1000KV2	*SKT1000MV2
NEW 1000	1	7,2x21	6	6,0	1,5	60/25% / 240	1,1	M5 / 2m	42	67	SKT1000KV21	*SKT1000MV21
2000	2	7,2x21	6	3,0	0,75	60/25% / 240	1,1	M5 / 2m	47	72	SKT2000KV2	*SKT2000MV2
3200	2	9x27	6	5,0	1,25	60/25% / 150	3,0	M5 / 2m	97	130	SKT3200KV2	*SKT3200MV2
5000	2	11,3x31	6	5,0	1,25	40/25% / 150	4,4	M5 / 2m	130	201	*SKT5000KV2	*SKT5000MV2
6300	2	11,3x31	6	4,0	1,0	25/25% / 150	4,4	M3 / 1Bm	130	201	-	*SKT6300MV2
8000	2	16x45	6	2,8	0,7	40% / 240	6,0	M5 / 2m	246	361	-	*SKT8000MV2
10000	2	16x45	6	2,8	0,7	40% / 180	6,0	M4 / 1Am	246	361	-	*SKT10000MV2
12500	2	16x45	6	2,8	0,7	40% / 150	6,4	M3 / 1Bm	246	361	-	*SKT12500MV2
25000	2	23,5x66	6	3,2	0,8	10% / 150	12,5	M3 / 1Bm	613	843	-	*SKT25000MV2

*items marked with an asterisk delivery time approx. 5 weeks

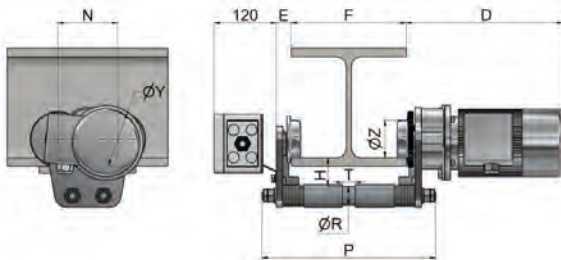
LIFTKET ELECTRIC CHAIN HOISTS 400 V / 50 Hz



MEASUREMENT TABLE

Hoist size	A	B	C	G	G2	J
kg	mm	mm	mm	mm	mm	mm
125	212	192	220	380	406	20
250	212	192	220	380	406	20
500 (4/1 m/min)	212	192	220	428	454	22
500 (8/2 m/min)	266	232	274	413	460	22
1000 (4/1 m/min)	266	232	274	514	561	28
1000 (6/1,5 m/min)	266	232	274	413	460	22
2000	266	232	274	514	561	28
3200	359	283	359	620	655	30
5000	359	291	410	740	807	42
6300	359	291	410	740	807	42
8000	567	183	434	918	994	50
10000	567	183	434	918	994	50
12500	567	183	434	918	994	50
25000	700	423	556	1456	1703	67

MOTOR TROLLEYS 400 V / 50 Hz



F-measure is I-beam measurement range for which a motor trolley is available. There are 2-3 different trolley sizes (N, S1, S2).

Hoist size	F	ØR	E	ØT	H	ØZ	N	ØY	P	D	Speed
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	m/min
125 kg	N: 50 - 106 / S1: 110 - 200 / S2: 210 - 300	25	104/69/24	22	46	70	112	88	214/306/406	292	5+20
250 kg	N: 50 - 106 / S1: 110 - 200 / S2: 210 - 300	25	104/69/24	22	46	70	112	88	214/306/406	292	5+20
500 kg	N: 50 - 106 / S1: 110 - 200 / S2: 210 - 300	35	108/28/28	22	52	70	112	88	214/306/406	292	5+20
1000 kg	N: 66 - 135 / S1: 137 - 215 / S2: 220 - 300	35	108/28/28	22	52	70	112	88	214/306/406	292	5+20
2000 kg	N: 66 - 135 / S1: 137 - 215 / S2: 220 - 300	35	108/28/28	22	52	70	112	88	214/306/406	292	5+20
3200 kg	N: 82 - 155 / S1: 137 - 215 mm S2: 220 - 300	40	31/31/31	36	55	103	152	136	308/364/454	387	5+20
5000 kg	N: 90 - 155 / S1: 160 - 226 mm S2: 240 - 310	50	44/44/44	35	64	122	191	160	345/424/496	410	4+16
6300 kg	N: 90 - 155 / S1: 160 - 226 mm S2: 240 - 310	50	44/44/44	35	64	122	191	160	345/424/496	410	4+16
8000 kg	N: 140 - 230 / S1: 220 - 310	65	76/76/76	49	79	150	256	203	424/504	429	4+16
10000 kg	N: 140 - 230 / S1: 220 - 310	65	76/76/76	49	79	150	256	203	424/504	429	4+16
12500 kg	N: 140 - 230 / S1: 220 - 310	65	76/76/76	49	79	150	256	203	424/504	429	4+16
*25000 kg	N: 140 - 230 / S1: 220 - 310	65	76/76/76	49	79	150	256	203	424/504	429	4+16

*in 25000 kg model there will be 2 motor trolleys in a row

LIFTKET ELECTRIC CHAIN HOISTS 230 V / 50 Hz

- lifting capacities 250 - 2000 kg
- available with hook suspension or integrated motor trolley
- 230 V model features 1-speed lifting
- standard lifting height 6 m, other heights available for individual order
- if the lifting height is over 20 m, it may lower the WLL of the hoist
- control cable standard length 4,5 m, other lengths for individual order
- control switch is equipped with emergency stop as standard
- normal lifting heights are always equipped with a chain bag
- operating temperature -20 °C - (+)40 °C; if environment temperature is higher, running time has to be reduced
- Haklift trolleys (pages 3-10 and 3-11) can be utilized with hoists that are equipped with hook suspension
- protection class IP55
- made in Germany



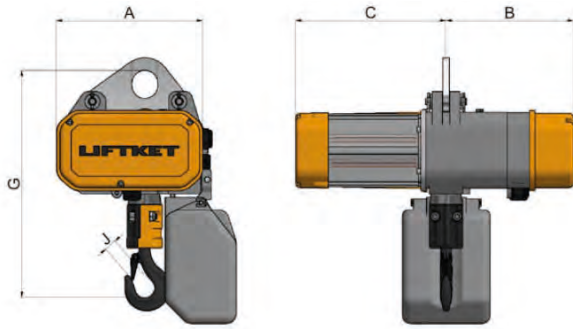
Also available with motorized or manual trolleys. Ask for more from our sales.

Check the hoist schematics on the next page and ED% explanation on page 3-5.

WLL	No. of chains	Chain size	Speed	ED % / lifting rate / h	Motor power	Weight without the chain	With hook suspension
kg		mm	m/min		kW	kg	Product code
250	1	5,2x15	8	60% / 240	0,25	17	*SKT250KWR
500	2	5,2x15	4	60% / 240	0,55	17	SKT500KWR
1000	2	7,2x21	5	60% / 240	1,10	36	*SKT1000KWR
2000	2	7,2x21	3	40% / 240	1,10	36	*SKT2000KW

*items marked with an asterisk delivery time approx. 5 weeks

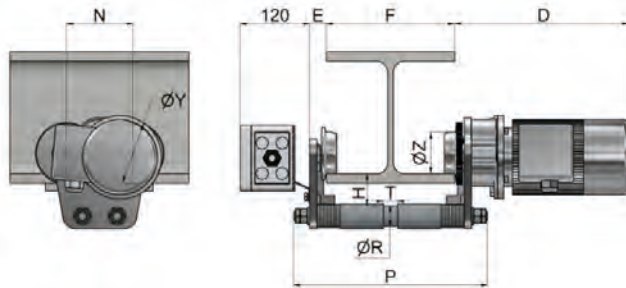
LIFTKET ELECTRIC CHAIN HOISTS 230 V / 50 Hz



MEASUREMENT TABLE

Hoist size	A	B	C	G	J
kg	mm	mm	mm	mm	mm
250	212	192	220	380	20
500	212	192	220	428	22
1000	266	232	274	514	28
2000	266	232	274	514	28

MOTOR TROLLEYS 230 V / 50 Hz



F-measure is I-beam measurement range for which a motor trolley is available. There are 2-3 different trolley sizes (N, S1, S2).

Hoist size	F	ØR	E	ØT	H	ØZ	N	ØY	P	D	Speed
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	m/min
250 kg	N: 50 - 106 / S1: 110 - 200 / S2: 210 - 300	25	104/69/24	22	46	70	112	88	214/306/406	292	16
500 kg	N: 50 - 106 / S1: 110 - 200 / S2: 210 - 300	35	108/28/28	22	52	70	112	88	214/306/406	292	16
1000 kg	N: 66 - 135 / S1: 137 - 215 / S2: 220 - 300	35	108/28/28	22	52	70	112	88	214/306/406	292	16
2000 kg	N: 66 - 135 / S1: 137 - 215 / S2: 220 - 300	35	108/28/28	22	52	70	112	88	214/306/406	292	16

CHAIN OIL

- practical spray for lubrication of chains, ropes and winches
- prevents wearing, hits, moisture, dust and corrosive gases from harming the chain
- high quality product regarding anti-corrosiveness and oxidation prevention
- excellent lubrication film ability to attach the metal also in high temperatures - elastic also in low temperatures
- decreases the noise and trembling of the chain
- package 400 ml

Product code: **KETSPRAY**

It is important to take care of the lubrication of the hoist chain. Correctly lubricated chain has much longer life span and it ensures safe, silent and trouble-free operation of the product.



ELECTRIC CHAIN HOIST UTILISATION RATE (ED %)

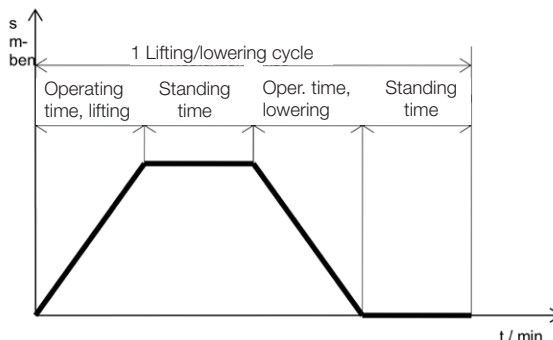
Electric chain hoist operating time (according to FEM 9.683)

Permissible switching cycle time and start time (ED) must not be exceeded (look FEM 9.683). Permissible start time is marked on the type/specification plate of the electric chain hoist. Start time is the relation between

Operating time and operating time + standing time

Calculation formula

$$ED \% = \frac{\text{Operating time sum} \times 100 \%}{\text{Operating time sum} + \text{Standing time sum}}$$



Start time is limited by the permissible warming of the lifting motor. Operating time depends on the required lifting height, lifting speed of the electric chain hoist and the amount of lifting motions for particular transportation process (unloading a truck, input of machines).

It is difficult to practise to pay attention to the start time during a lifting operation. For this reason practical instructions are given below:

Short time use

This operating method is not allowed for slow speed use with electric chain hoists with two lifting speeds. After the highest allowable operating time has achieved, breaks have to be taken. The lifting device can be used again in periodic use.

Motor group FEM 9.511	Motor group ISO 4301	Start time (ED)	Short time use* acc. to FEM 9.683 (t _B / min)
1 Bm	M 3	25 %	15
1 Am	M 4	30 %	15
2 m	M 5	40 %	30
3 m	M 6	50 %	30
3 m	M 6	60 %	60

*Operating time t_B of the electric chain hoists is longer than required by the FEM 9.683.

Table 12: Permissible operating time without standing time after the working has been started with motor temperature approx. 20 °C

Periodic use

The operation must be interrupted when the highest allowable operating time has been achieved. Depending on the start time of the electric chain hoist, breaks have to be taken as shown below:

Table 2: Essential breaks depending on the start time

Table 2

Start time (ED)	Break (min)
15 %	5 times operating time
20 %	4 times operating time
25 %	3 times operating time
30 %	2,5 times operating time
40 %	1,5 times operating time
50 %	1 times operating time
60 %	0,66 times operating time

Example

Electric chain hoist type 030/50 is supposed to lift a load of 250 kg 6 meters upwards.

Performance information: Carrying load 250 kg
 Lifting speed: 12 m/min
 Start time: 40 %
 Gear group of the lifter: 2m

When starting to unload a vehicle, the cold temperature of the electric chain hoist is approx. 20 °C

$$\text{Oper. time} = \frac{6 \text{ m lifting} + 6 \text{ m lowering}}{12 \text{ m / min lifting speed}} = 1 \text{ min}$$

In usage without breaks (short time use = max. 30 min without breaks according to FEM 9.683) max. 30 lifting-lowering cycles can be executed.

After a 30-minute operating time has fulfilled, a 40-second break after every 1 minute must be taken (0,66 times operating time). This break is usually needed when attaching and unfastening a load.

Important! In case of very high lifting heights (over 10 meters), cooling breaks must be taken.

Fine-lifting is only allowable when lifting and lowering sensitive loads. It is not suitable for operating higher lifting heights.

Accessory: To protect the motor from overheating, a temperature monitoring switch can be assembled (contactor control necessary!)

Electric conveyor start time according to FEM 9.683

If the electric chain hoist is equipped with a conveyor, the user must pay attention to the permissible operating cycle amount and start time of the electric chain hoist. This must be taken into account especially when transport distances are long.

Conveyor type	Periodic use	Short time use
Conveyors with 1 driving speed	40 %	30 min
Conveyors with 2 driving speeds	40/20 %	30 min*

*the permissible operating time given is based on fast driving speed

ELECTRIC CHAIN HOISTS 230 V / 50 Hz

- small and compact aluminium body electric chain hoist
- equipped with a chain bag and both upper and lower limit switches
- protection class IP54
- longer control and power cables and chains available for individual order
- operating temperature -10 - (+)50 °C



Lubrication of the hoist chains is important. Look for the lubrication oil on page 3-4.

WLL	Lifting height	No. of chains	Lifting chain	Speed	ED %	Motor power	Product code
kg	m		mm	m/min		kW	
250	3	1	6,3 x 19	10	30	1,3	SKTH250MINI
500	6	1	6,3 x 19	5	30	1,3	SKTH500MINI
1000	6	1	7,1 x 20	4	30	1,3	SKTH1000MINI
2000	6	2	7,1 x 20	2	30	2,0	SKTH2000MINI

MEASUREMENTS

Product code	Control cable length	Power cable length	Body width	Body depth	Body + chain min. height	Weight
	m	m	mm	mm	mm	kg
SKTH250MINI	3	5	420	160	480	18,5
SKTH500MINI	6	5	420	160	480	21,0
SKTH1000MINI	6	5	420	160	500	26,0
SKTH2000MINI	6	5	456	214	675	31,0

ELECTRIC CHAIN HOISTS 380 V / 50 Hz

- robust, steel bodied electric chain hoist
- induction motor
- 48 V low voltage control
- equipped with a chain bag and both upper and lower limit switches, thermal protection switch and overloading protection
- protection class IP54
- longer control and power cables and chains available for individual order
- operating temperature -10 - (+)50 °C



Lubrication of the hoist chains is important.
Look for the lubrication oil on page 3-4.

WLL	Lifting height	No. of chains	Lifting chain	Speed	ED %	Motor power	Product code
kg	m		mm	m/min		kW	
1000	6	1	7,1	6	40	1,47	SKTH1000
2000	6	2	7,1	3	40	1,47	SKTH2000

MEASUREMENTS

Product code	Control cable length	Power cable length	Body width	Body depth	Body+ chain min. height	Weight
	m	m	mm	mm	mm	kg
SKTH1000	6	1,5	430	290	600	53,0
SKTH2000	6	1,5	430	290	600	61,0

ELECTRIC CHAIN HOIST, BATTERY OPERATED

- small sized and efficient electric chain hoist packed in a practical carrying case
- equipped with remote control with load / overload indicator and stepless speed control
- length of the remote control cable 2,0 m
- lifting height 3,0 m
- protection class IP54
- 2 pcs of 18 V Li-ion 3,0 Ah batteries
- battery durability 20 min with continuous full load
- package includes: hoist, chain bag, remote control, 2 batteries and charger
- operating temperature -10 - (+)40 °C



Stepless speed control



Packed in a retail carton.

WLL kg	Lifting height m	Chain mm	No. of chains	Speed m/min	Battery	Body dimensions S x L x K	Weight kg	Product code
500	3,0	4,0	2	2,0	18V Li-ion 3.0 Ah	173 x 257 x 375	8,80	SKTH50018V

RED ROOSTER AIR COMPRESSED HOISTS AND WINCHES

RED ROOSTER compressed air hoists and winches offer a wide selection for industrial and maritime use.

All Red Rooster hoists and winches comply with ATEX 94/9/EC directive and may be used in areas and surroundings with danger of fire or explosion due to gases, chemicals or dust. Red Rooster hoists and winches operate mechanically with compressed air hence causing no sparks unlike electric hoists.

Red Rooster hoists and winches have been used and developed for 25 years and they are safe, easy to use and they operate reliably even in difficult circumstances.

Red Rooster hoists

- WLLs 0,25 - 50,0 t
- no sparks
- strong molded steel case
- stepless speed control
- safe automatic brake, load cannot fall with loss of pressure
- low noise level (80 dB)
- low consumption of air
- operational pressure for all products 4,5 - 6 bar (7 bar max.)
- endures demanding circumstances
- operating temperature -10 - (+)70 °C, also -20 °C possible to actualize
- spare parts easy and fast to acquire
- wide selection of accessories, incl. radio-operated remote control



Special low models also available.

Hoists with a hook suspension

WLL t	No. of chains	Amount of air when lifting l/sec	Amount of air when lowering l/sec	Lifting speed with full load m/min	Weight 3 m lift kg
0.25	1	13	15	9.3	7,0
0.25/0.5	1	25	27	12 / 10.5	9,0
0.5	2	13	15	4.6	19,0
0.5	1	28	33	17	31,1
0.98	2	28	33	8.5	23,5
1.0	2	25	27	5.3	35,2
1.0	1	25	28	6.0	34,0
2.0	2	25	30	3.0	39,7
3.0	1	33	43	2.8	69,0
6.0	2	33	43	1.4	91,0
9.0	3	33	43	0.9	150,0
10.0	2	90	100	1.5	210,0
12.0	4	33	43	0.6	170,0
15.0	5	33	43	0.5	210,0
15.0	3	90	100	1.0	320,0
20.0	4	90	100	0.75	470,0
25.0	2	90	100	0.6	490,0
37.5	3	90	100	0.35	870,0
50.0	4	90	100	0.3	1100,0

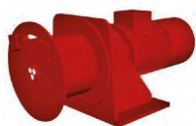
Lifting height to be defined according to the needs of the client.

Trolleys

For hoist t	No. of wheels	No. of driving wheels	Min. radius of the curve	Amount of air l/sec	Speed m/min
0,25 - 2,0	4	2	1.5	25	9, 6, 12
3,0	4	2	2	25	6
6,0	4	2	2.5	25	6
9 / 10 / 12	4	2	2.5	50	8
15,0	4	2	3	50	6
20,0	4	2	3	50	4
25,0 x 4	4	2	3	50	4
25,0 x 8	8	4	Straight	100	6
35,0 x 8	8	4	Straight	100	4
50,0 x 8	8	4	Straight	100	4

Note! In order to operate properly, air compressed hoists, trolleys and winches need a high quality air compression network equipped with a moisture remover and lubrication system. Components required can be delivered with the product.

Red Rooster winches



FD-series, 8 models
Max. workloads
800 - 5250 kg



SB-series for lifting, 14 models
Max. workloads
1200 - 20000 kg



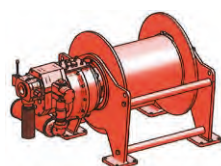
PFW-L-series for lifting, 6 models, max. workloads
500 - 3000 kg



LV-series, 6 models
Max. workloads
250 - 2000 kg



RRI-series, 4 models
Max. workloads
500 - 2000 kg



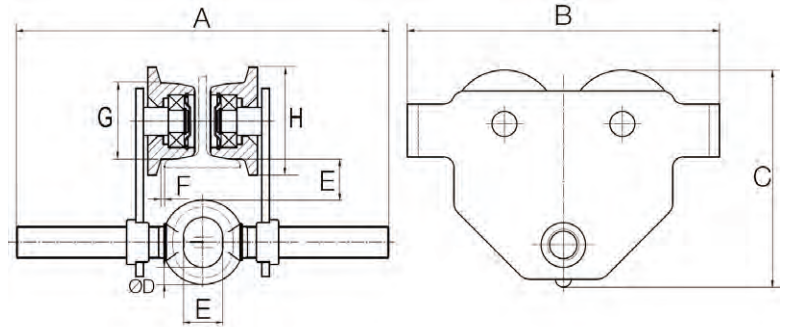
OAW offshore-series, 14 models
Max. workloads
1955 - 14980 kg

Ask for more information on the products from our sales!
Each product is tailored individually to meet the needs of the client.

PUSH TROLLEYS WITH THREADED POLE

NEW MODEL

- suitable for IPE- and T-beams
- width of the trolley can be adjusted by means of the threaded pole
- hoist / lifter is attached directly to the trolley eye from a hook or with a shackle
- wheels are equipped with duration lubricated ball bearings
- equipped with break supports
- paint coated yellow
- each product is delivered with a test certificate
- EN 13157



WLL	I/T-beam width	A	B	C	D	E	F	G	H	Min. radius of curve	Weight	Product code
kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	m	kg	
500	55-220	287	198	158	12.5	40	~3	55	80	0.5	5.0	SIVA05H
500	55-305	385	198	158	12.5	40	~3	55	80	0.5	5.4	SIVA05HL
1000	58-220	300	238	183	17	31	~3	68	96	0.7	8.8	SIVA10H
1000	58-305	388	238	183	17	31	~3	68	96	0.7	9.3	SIVA10HL
2000	66-220	304	277	208	20	31	~3	80	110	0.9	14.0	SIVA20H
2000	66-305	405	277	208	20	31	~3	80	110	0.9	14.8	SIVA20HL
3000	74-220	328	324	249	26	31	~3	100	132	1.2	23	SIVA30H
3000	74-305	429	324	249	26	31	~3	100	132	1.2	24.1	SIVA30HL
5000	90-220	359	373	296.5	28	40	~5	120	155	1.0	40.0	SIVA50H
5000	90-305	435	373	296.5	28	40	~5	120	155	1.0	41.1	SIVA50HL

TIGER SPECIAL MODELS



Non-sparking

Meets the following requirements:

- ATEX Directive 94/9/EC and the Machinery Directive 2006/42/EC
- ATEX markings: Ex II 2 GD c IIC T4 IIIC T135°C
- Zone 1 & 2 (gas) and Zone 21 & 22 (dust)



Corrosion resistant

- 1000 - 10000 kg
- protected bearings



Adjustable models

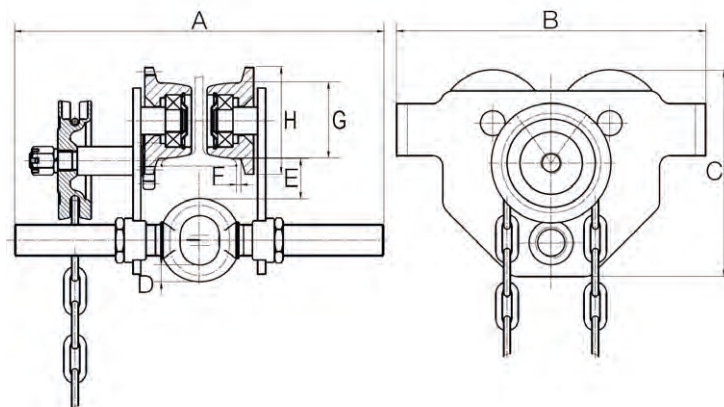
- 1000 - 10000 kg
- width adjustable quick and easy

ASK FOR MORE FROM OUR SALES!

CHAIN TROLLEYS WITH THREADED POLE

NEW MODEL

- trolley moves on the beam by pulling the hand chain
- width of the trolley can be adjusted by means of the threaded pole
- standard length of the hand chain is approx. 3 m, allowing for mounting the trolley at about 4 m height
- also available with longer chain
- suitable for I- and T-beams
- hoist / lifter is attached directly to the trolley eye from a hook or with a shackle
- wheels are equipped with duration lubricated ball bearings
- equipped with break supports
- paint coated yellow
- each product is delivered with a test certificate
- EN 13157



WLL kg	IPE-beam width M mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Min. radius of curve m	Weight kg	Product code
500	50-220	352.5	198	158	12.5	40	~3	55	75	0.5	8.5	SIVA05HKS
500	50-305	437.5	198	158	12.5	40	~3	55	75	0.5	8.9	SIVA05HLKS
1000	58-220	353.5	238	183	17	31	~3	68	95	0.7	12.5	SIVA10HKS
1000	58-305	438.5	238	183	17	31	~3	68	95	0.7	13	SIVA10HLKS
2000	66-220	362	277	208	20	31	~3	80	108	0.9	17	SIVA20HKS
2000	66-305	447	277	208	20	31	~3	80	108	0.9	17.8	SIVA20HLKS
3000	74-220	406.5	324	249	26	31	~3	100	131	1.2	28	SIVA30HKS
3000	74-305	491.5	324	249	26	31	~3	100	131	1.2	29.1	SIVA30HLKS
5000	90-220	434.5	373	296.5	28	40	~5	120	154	1.0	45	SIVA50HKS
5000	90-305	519.5	373	296.5	28	40	~5	120	154	1.0	46.1	SIVA50HLKS
10000	125-203	487.5	455	490	82	36.5	~5	-	-	1.3	93	SIVA100HKS
20000	136-203	523	642	622	110	54	~5	-	-	4.7	247.5	SIVA200HKS

TIGER SPECIAL MODELS



Corrosion resistant

- 500 - 3000 kg
- also a combination model with chain trolley and hoist available



Large double trolleys

- 3000 - 20000 kg



Adjustable models

- 1000 - 10000 kg
- width adjustable quick and easy

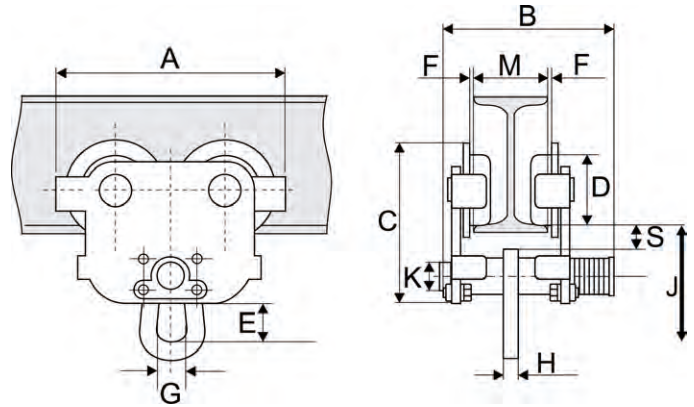
PUSH TROLLEYS WITH WASHERS

- suitable for IPE- and T-beams
- width of the trolley can be adjusted by adding or removing washers
- hoist / lifter is attached directly to the trolley eye from a hook or with a shackle
- Haklift chain hoist can be integrated to 0,5 / 1,0 / 2,0 t models



- wheels are equipped with duration lubricated ball bearings
- equipped with rubber end stoppers and break supports
- paint coated orange
- each trolley has been tested with a 1,5 times test load
- safety factor 4:1
- each product is delivered with a test certificate
- EN 13157

NEW



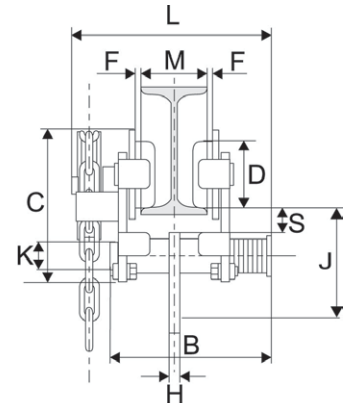
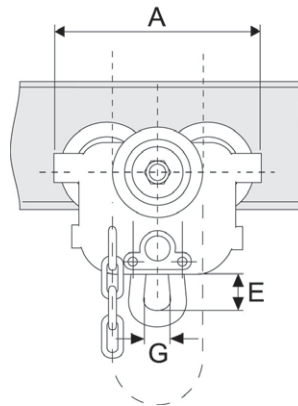
Haklift KTHA or VTHA chain hoist can be permanently integrated to 0,5 / 1,0 / 2,0 t models.

WLL kg	IPE-beam width M mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	S mm	Min. radius of curve mm	Weight kg	Product code
250	50-152	188	208	137	50	29	1,0-1,5	28	6	104	20	27	800	4.6	SIVA025
500	50-135	205	198	150	55	30	1,5-2,0	28	8	111	28	27	800	6.8	SIVA05
500	130-215	205	278	150	55	30	1,5-2,0	28	8	111	28	27	800	6.8	SIVA05L
500	215-300	205	363	150	55	30	1,5-2,0	28	8	111	28	27	800	6.8	SIVA05XL
1000	55-140	242	211	174	68	30	1,5-2,0	32	10	118	32	28	1000	11.2	SIVA10
1000	140-215	242	286	174	68	30	1,5-2,0	32	10	118	32	28	1000	11.2	SIVA10L
1000	215-300	242	371	174	68	30	1,5-2,0	32	10	118	32	28	1000	11.2	SIVA10XL
2000	65-155	270	238	194	80	49	1,5-2,0	40	12	147	36	27	1100	16.9	SIVA20
2000	150-230	270	313	194	80	49	1,5-2,0	40	12	147	36	27	1100	16.9	SIVA20L
2000	230-300	270	383	194	80	49	1,5-2,0	40	12	147	36	27	1100	16.9	SIVA20XL
3000	90-160	325	246	234	100	60	2,0-3,0	49	14	177	44	29	1300	28.6	SIVA30
3000	160-230	325	316	234	100	60	2,0-3,0	49	14	177	44	29	1300	28.6	SIVA30L
3000	230-300	325	386	234	100	60	2,0-3,0	49	14	177	44	29	1300	28.6	SIVA30XL
5000	90-180	370	280	267	110	79	2,0-3,0	59	16	219	55	29	1500	44.8	SIVA50
5000	180-230	370	330	267	110	79	2,0-3,0	59	16	219	55	29	1500	44.8	SIVA50L
5000	230-300	370	330	267	110	79	2,0-3,0	59	16	219	55	29	1500	44.8	SIVA50XL

CHAIN TROLLEYS WITH WASHERS



- trolley moves on the beam by pulling the hand chain
- suitable for IPE- and T-beams
- width of the trolley can be adjusted by adding or removing washers
- standard length of the hand chain is approx. 2,5 m (circumference 5 m), allowing for mounting the trolley at about 3,5-4 m height
- hoist / lifter is attached directly to the trolley eye from a hook or with a shackle
- Haklift chain hoist can be integrated to 0,5 / 1,0 / 2,0 t models
- wheels are equipped with duration lubricated ball bearings
- equipped with rubber end stoppers and break supports
- paint coated orange
- each trolley has been tested with a 1,5 times test load
- safety factor 4:1
- each product is delivered with a test certificate
- EN 13157



Haklift KTHA or VTHA chain hoist can be permanently integrated to 0,5 / 1,0 / 2,0 t models.

WLL kg	IPE-beam width M mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	S mm	Min. radius of curve mm	Weight kg	Product code
500	50-135	205	198	150	55	30	1,5-2,0	28	8	111	28	239	27	800	8.0	SIVA05KS
500	130-215	205	278	150	55	30	1,5-2,0	28	8	111	28	239	27	800	8.0	SIVA05KSL
500	215-300	205	363	150	55	30	1,5-2,0	28	8	111	28	239	27	800	8.0	SIVA05KSXL
1000	55-140	242	211	174	68	30	1,5-2,0	32	10	118	32	254	28	1000	12.4	SIVA10KS
1000	140-215	242	286	174	68	30	1,5-2,0	32	10	118	32	254	28	1000	12.4	SIVA10KSL
1000	215-300	242	371	174	68	30	1,5-2,0	32	10	118	32	254	28	1000	12.4	SIVA10KSXL
2000	65-155	270	238	194	80	49	1,5-2,0	40	12	147	36	277	27	1100	18.1	SIVA20KS
2000	150-230	270	313	194	80	49	1,5-2,0	40	12	147	36	277	27	1100	18.1	SIVA20KSL
2000	230-300	270	383	194	80	49	1,5-2,0	40	12	147	36	277	27	1100	18.1	SIVA20KSXL
3000	90-160	325	246	234	100	60	2,0-3,0	49	14	177	44	287	29	1300	30.3	SIVA30KS
3000	160-230	325	316	234	100	60	2,0-3,0	49	14	177	44	287	29	1300	30.3	SIVA30KSL
3000	230-300	325	386	234	100	60	2,0-3,0	49	14	177	44	287	29	1300	30.3	SIVA30KSXL
5000	90-180	370	280	267	110	79	2,0-3,0	59	16	219	55	320	29	1500	46.5	SIVA50KS
5000	180-230	370	330	267	110	79	2,0-3,0	59	16	219	55	320	29	1500	46.5	SIVA50KSL
5000	230-300	370	400	267	110	79	2,0-3,0	59	16	219	55	320	29	1500	46.5	SIVA50KSXL

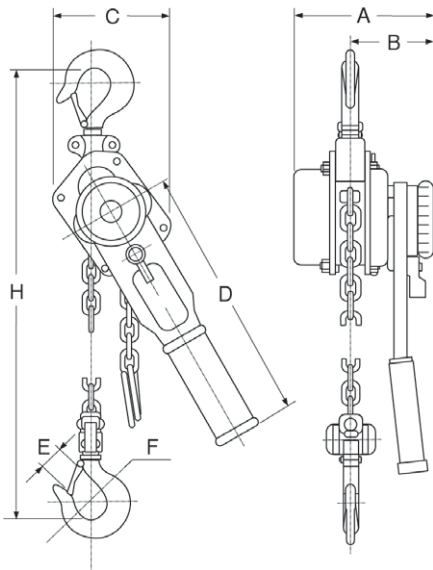
CHAIN LEVER HOISTS

Haklift chain lever hoists are high quality, durable, reliable and easy-to-use hoists designed for professional use. Standard lifting height is 3 m. Also other lifting heights available with fast delivery time straight from the stock.

NEW MODEL



- hoists are equipped with an RFID chip for easy maintenance and tracking
- spare parts straight from the stock
- available also with overload protection (0,5 - 9 t)
- sprocket wheel and shaft are equipped with needle and slide bearings for reliable and efficient operation
- enclosed braking system with double brake pads and four springs ensures a double confirmation in accordance with EN 13157
- surface treatment of the hoist guarantees good corrosion protection and a long service life
- upper and lower hooks are both equipped with a sliding bearing and durable steel latch
- in case of overloading the hooks are designed to open instead of breaking
- hooks have measuring points that speed up the inspection
- can be used also as a pulling hoist
- each hoist is delivered with a test certificate and declaration of conformity
- each hoist is dynamic proof load tested 1,5 x WLL before leaving the factory
- paint coated orange
- EN 13157



Can be permanently integrated to a Haklift trolley (also to a chain model).

WLL kg	No. of chains	Chain mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	Weight with 3 m lift kg	Product code	Product code with overload protection
250	1	4 x 12	100	70	56	163	20	31	235	2,5	VTHA250	-
500	1	5 x 15	150	90	118	253	22	32	310	5,5	VTHA500	VTHA500Y
800	1	5,6 x 17	158	98	132	273	23	36	340	6,5	VTHA800	VTHA800Y
1600	1	7,1 x 21	185	111	145	378	29	43	400	10,2	VTHA1600	VTHA1600Y
3200	1	10 x 28	212	124	198	418	37	50	520	22,0	VTHA3200	VTHA3200Y
6300	2	10 x 28	212	124	230	418	43	53	640	34,0	VTHA6300	VTHA6300Y
9000	3	10 x 28	212	124	338	418	44	67	730	45,0	VTHA9000	VTHA9000Y

HAND CHAIN HOISTS

Haklift hand chain hoists are high quality, durable, reliable and easy-to-use hoists designed for professional use. Maximum workload is achieved with relatively low hand power. Standard lifting heights are 3 m and 6 m. Also other lifting heights available with fast delivery time straight from the stock.

NEW MODEL



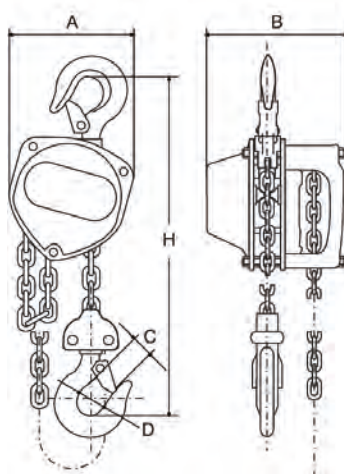
- each hoist is dynamic proof load tested 1,5 x WLL before leaving the factory
- sprocket wheel and shaft are equipped with needle and slide bearings for reliable and efficient operation
- enclosed braking system with double brake pads and four springs ensures a double confirmation in accordance with EN 13157
- surface treatment of the hoist guarantees good corrosion protection and a long service life
- upper and lower hooks are both equipped with a sliding bearing and durable steel latch
- in case of overloading the hooks are designed to open instead of breaking
- hooks are equipped with points that can be easily measured for possible overloading
- hoists are equipped with an RFID chip for easy maintenance and tracking
- each hoist is delivered with a test certificate and declaration of conformity
- spare parts available
- length of the hand chain is always same as the lifting height
- paint coated
- EN 13157



Can be permanently integrated to a Haklift trolley (also to a chain model).

ALSO AVAILABLE WITH AN OVERLOAD PROTECTION 500 - 10 000 KG

(Add Y-letter to the end of the product code.)



WLL kg	Lifting height m	No. of chains	Chain mm	A mm	B mm	C mm	D mm	H mm	Weight kg	Product code	
										lifting height 3 m	lifting height 6 m
250	3 / 6	1	4 x 12	108	106	20	30	260	6,0	KTHA250	KTHA2506
500	3 / 6	1	5 x 15	130	128	22	34	280	9,0	KTHA500	KTHA5006
1000	3 / 6	1	6,3 x 19	150	142	26	39	330	12,0	KTHA1000	KTHA10006
2000	3 / 6	1	8 x 24	185	175	35	49	385	20,0	KTHA2000	KTHA20006
3000	3 / 6	2	7,1 x 21	220	158	37	50	510	24,0	KTHA3000	KTHA30006
5000	3 / 6	2	9 x 27	255	183	43	60	615	37,0	KTHA5000	KTHA50006
10000	6	4	9 x 27	360	183	47	65	820	104,6	-	KTHA10000
20000	8	8	9 x 27	577	183	75	90	1060	200,0	-	KTHA20000 (8m)



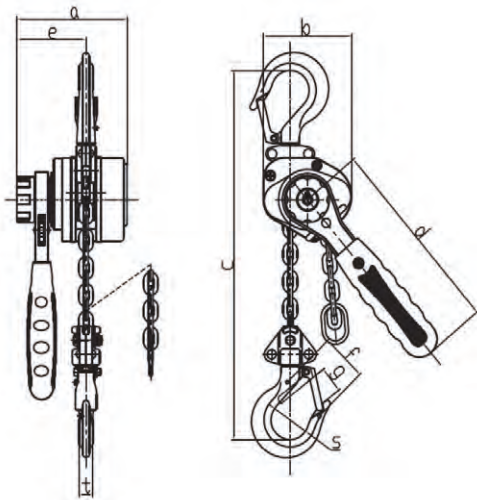
It is important to take care of the lubrication of the hoist chain. Correctly lubricated chain has much longer life span and it ensures safe, silent and trouble-free operation of the product.

Product code: KETSPRAY

ALUMINUM MINI CHAIN LEVER HOISTS

- extremely small and lightweight hoists for i.a. mounting operations
- 250, 500 and 750 kg hoists are packed in a carrying bag which can be fixed on a belt
- standard lifting height 3 m
- also other lifting heights quickly delivered
- upper and lower hook with swivel
- works also as a pulling hoist
- operating temperature: -10°C - (+)50°C
- paint coated
- each product is delivered with a test certificate
- EN 13157

NEW



WLL kg	No. of chains	Chain mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	s mm	t mm	Weight with 3 m lift kg	Product code
250	1	3,2 x 9	87	68	200	145	55,5	35,5	21	32	11	2,2	VTS250
500	1	4,3 x 21	100,5	81	250	160	62,5	42	24,5	34,5	12	3,6	VTS500
750	1	5 x 15	105	92	260	180	64	42	28,5	35,5	14	4,7	VTS750
1500	1	7,1 x 19,9	122	109	330	220	68,5	52	35	42,5	21,5	8,5	VTS1500
3000	2	7,1 x 19,9	122	160	432	220	68,5	61,9	43	50	24,5	12,4	VTS3000



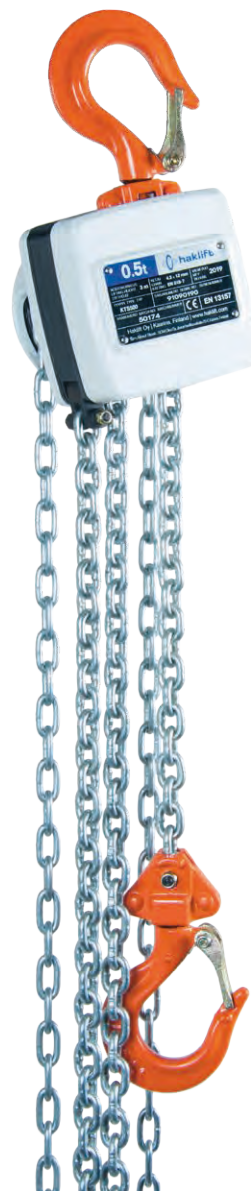
250 kg hoist is extremely small and light to use.



250, 500 and 750 kg hoists are packed in a carrying bag which can be fixed on a belt.

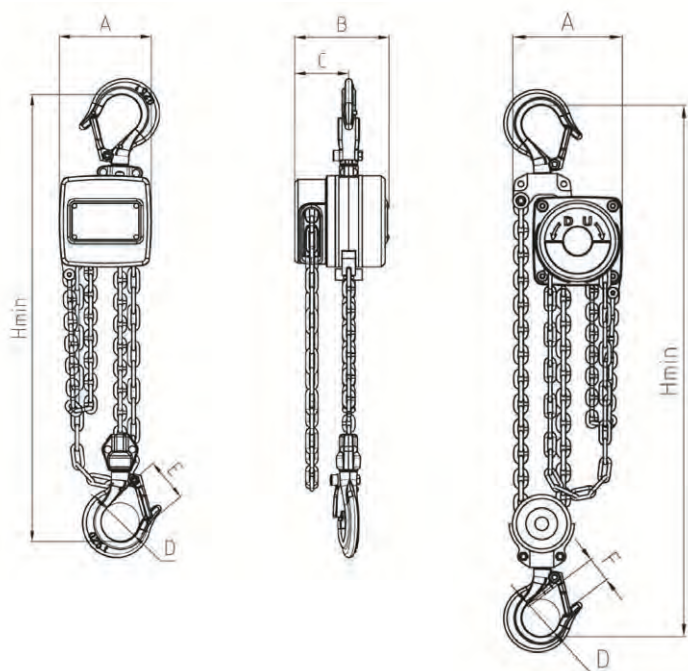
ALUMINUM HAND CHAIN HOISTS

- extremely small and light aluminum-bodied hoist
- thanks to the aluminum body the hoist is very light, weight is only approx. 50% of a corresponding basic hand chain hoist's weight
- standard lifting height 3 m
- also other lifting heights quickly delivered
- upper and lower hook with swivel
- works also as a pulling hoist
- operating temperature: -10°C - (+)50°C
- paint coated
- each product is delivered with a test certificate
- EN 13157

0,25 - 2,0 t

3,0 t



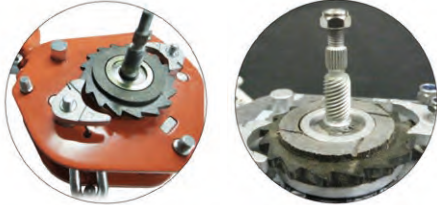
WLL	No. of chains	Chain	A	B	C	D	E	F	H min.	Weight with 3 m lift	Product code
t		mm	mm	mm	mm	mm	mm	mm	mm	kg	
0,25	1	3,2 x 9	75	77	44	32	35,5	21	225	2,6	KTS250
0,5	1	4,3 x 12	92	89	51	34,5	42	23	265	4,6	KTS500
1,0	1	5,6 x 15,7	110	102	55	42,5	49,5	27	295	6,6	KTS1000
2,0	1	8 x 24	145	138	78,5	46,5	58,5	35	390	13,5	KTS2000
3,0	2	7,1 x 19,9	165	120	68	50	61,9	37	470	17,0	KTS3000



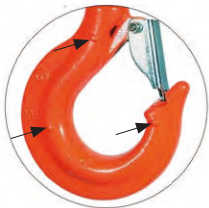
250 kg hoist is extremely small and light to use.

TIGER LEVER HOISTS

- extremely high quality hoist
- available also with overload protection
- patented braking system
- standard lift height 3 m (20 t model with 6 m lift)
- also other lifting heights delivered quickly
- hooks equipped with swivel and inspection points
- 250 kg hoist includes a preservation bag with belt attachment
- works also as a pulling hoist
- paint coated



Patented Quad cam brake pawl system ensures steady load in case of possible damage. Advanced brake system improves the reaction time of the brake.



Hooks are equipped with three inspection points, a swivel and a robust latch.



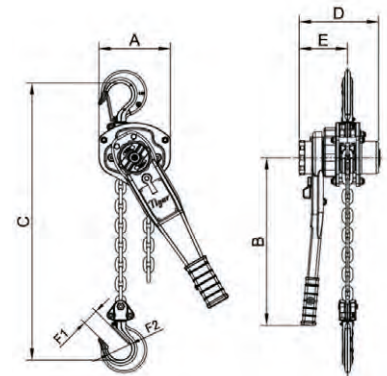
Hoist is equipped with a chain guide which eliminates e.g. chain jams and improves the flexible and safe use of the hoist.



500 kg



250 kg hoist equipped with a preservation bag which has a belt attachment.



WLL kg	No. of chains	Chain mm	A mm	B mm	C min. mm	D mm	E mm	F1 mm	F2 mm	Weight with 3 m lift kg	Product code	Product code with overload protection
250	1	4	60	169	245	85	63	22	31	2,5	VTT250	-
500	1	4	89	169	280	113	70	24	38	3,5	VTT500	
800	1	6,3	128	236	295	158	99	28	45	8,85	VTT800	*VTT800Y
1500	1	7,1	154	360	320	172	104	34	51	12,15	VTT1500	*VTT1500Y
3000	1	10	182	360	400	195	108	36	56	21,3	VTT3000	*VTT3000Y
6000	2	10	242	360	570	195	108	49	70	37,1	*VTT6000	*VTT6000Y
10000	3	10	379	360	630	195	108	54	87	55,75	*VTT10000	*VTT10000Y
15000	5	10	566	360	840	195	108	59	81	128,2	*VTT15000	*VTT15000Y
20000	6	10	470	360	1050	250	160	81	110	175,7	*VTT20000	*VTT20000Y

*products marked with an asterisk delivery time approx. 2 weeks

TIGER HOISTS - SPECIAL MODELS



Corrosion resistant / non-sparking

- both models have corrosion resistant lifting chain and body as well as transmission and brake systems designed for marine environments
- non-sparking model with copper coated hook, chain wheel, chain stopper and guides
- available with same WLL and measures as standard Tiger hand chain hoist - read the QR-code

Non-sparking model meets the following requirements:

- ATEX Directive 94/9/EC and the Machinery Directive 2006/42/EC
- Atex markings: Ex II 2 GD c IIC T4 IIIC T135°C
- Zone 1 & 2 (gas) ja Zone 21 & 22 (dust)

Entertainment

- painted black
- lifting heights and WLL available as per customer's needs

ROV

- 3 / 10 / 15 / 20 t
- hydraulical operation
- fully corrosion protected
- body stainless steel 316
- brake system designed to withstand marine conditions
- light and compact size

COMBINATIONS

- hand chain hoists and trolleys can be combined to form a one package
- basic model, corrosion resistant and non-sparking
- all models also available with chain trolleys



Read more about Tiger hoists.

SPECIAL ENDS

Also special end fittings are available for Tiger hoists. Lever hoists from model 500 kg and hand chain hoists from 800 kg.



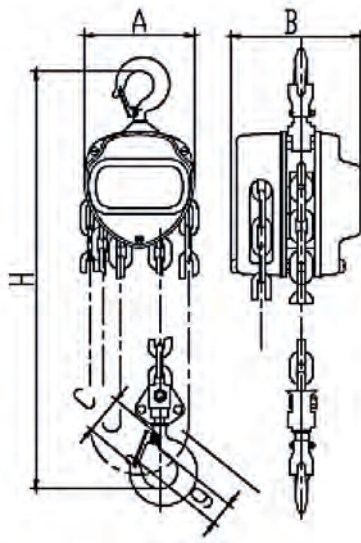
Self-locking hook

Master link

Clevis end

KTA HAND CHAIN HOISTS

- low-cost “clock-style” hand chain hoist
- standard lifting height 2,5 m, other lifting heights for individual order
- maximum workload is achieved with fairly low hand power
- upper and lower hooks are both equipped with a sliding bearing and durable steel latch
- in case of overloading the hooks will open instead of breaking
- length of the hand chain is always same as the lifting height
- paint coated
- EN 13157



WLL	No. of chains	Lifting height	Chain	A	B	C	H	g	Weight	Product code
kg		m	mm	mm	mm	mm	mm	mm	kg	
1000	1	2,5	6x18	147	140	45	306	33	9,65	KTA1000
2000	2	2,5	6x18	147	140	52	368	37	13,25	KTA2000

SEE BEAM CLAMPS IN
PRODUCT GROUP 4



WIRE ROPE PULLERS

- low-cost but strong pulling hoist with wire
- not to be used as a lifting device
- with RVT2000 and NAG1500C hoists the wire can also be set two-fold which doubles the workload and halves the pulling length



Packed in a retail carton.



RVT900



RVT2000



NAG1500C

Maximum load, pulling	Weight	Wire	Wire length	Lowest set height	Product code
t	kg	mm	m	mm	
2	3,5	4,8	1,4	550	RVT900
2 / 4	4,5	5,0	3,0 / 1,5	650	RVT2000
0,75 / 1,5	4,6	6,0	2,8 / 1,4	520	NAG1500C

POWER-PULLERS

- low-cost pulling hoist with strap
- two models, 900 and 1800 kg
- strap width 25 mm
- not to be used as a lifting device



RHT900P



RHT1800

Maximum load, pulling	Weight	Strap length	Lowest set height	Product code
kg	kg	m	mm	
900	3,5	7,6	700	RHT900P
1800	3,8	1,8	700	RHT1800

LUG-ALL WIRE ROPE HOISTS

Very high quality wire rope hoist made in USA. Hoists are perfect for lifting, lowering, pulling, tightening, stretching and bending. The body of the hoist is made of durable aluminium making it easy and light to handle. Hoists can be used with single or double wire. With double wire a higher WLL can be achieved and with single wire a longer pulling / lifting distance. Every hoist has a lever equipped with overload protection. Hoists have a feature which allows a very accurate load releasing / lowering - only one cog at a time.

- lightweight and small
- works in every position
- open, self-cleaning structure
- simple to maintain and repair
- stainless alloy-aluminium structure
- high quality steel wire rope
- non-slip double stoppers
- duration lubricated bearings
- lever equipped with overload protection
- handles are available as spare parts

Color ID	WLL lifting: single wire kg	WLL lifting: double wire kg	Wire length m	Wire Ø mm	Weight kg	Product code
Green	250	500	3,8 / 7,6	3,95	4,4	LUG-ALL1500-25
Red	500	1000	1,5 / 3,0	5,5	4,6	LUG-ALL3000-10
Red	500	1000	4,4 / 8,8	5,5	6,5	LUG-ALL3000-30
Blue	700	1400	3,0 / 6,0	6,35	8,3	LUG-ALL4000-20
Orange	900	1800	2,2 / 4,4	7,94	15,0	LUG-ALL6000-15



ALUMINIUM BODY WIRE ROPE HOISTS

- high quality pulling/lifting hoist
- hoist does not have a wire drum, the wire passes through the hoist
- lifting and pulling speed approx. 3 m/min
- body material painted cast aluminium
- 20 m wire with latch hook as standard
- other wire lengths also available
- all hoists are tested with a load of 1,25 times the maximum load
- maximum workload is achieved with fairly low hand power
- 800, 1600 and 3200 kg models equipped with carrying handle
- EN 13157



Maximum load, lifting kg	Maximum load, pulling kg	Weight hoist / wire and lever kg	Wire mm	Lever length mm	Product code
800	1200	6,5/14,5	8,3	800	LOABT800
1600	2400	12,7/27,3	11,0	1200	LOABT1600
3200	4000	22,1/48,6	16,0	1200	LOABT3200
5400	8000	28,7/110	20,0	1120	LOABT5400

SPARE WIRES FOR WIRE ROPE HOISTS



WLL kg	Length m	Wire mm	Product code
800	20	8,3	LO80VAI20
800	30	8,3	LO80VAI30
800	40	8,3	LO80VAI40
1600	20	11,0	LO16VAI20
1600	30	11,0	LO16VAI30
1600	40	11,0	LO16VAI40
3200	20	16,0	LO32VAI20
3200	30	16,0	LO32VAI30
3200	40	16,0	LO32VAI40
3200	50	16,0	LO32VAI50

Delivery time 1 week.

ELECTRIC WIRE HOISTS FOR LIFTING AND PULLING

- lightweight and easy-to-use electric wire hoist for lifting and pulling
- three models, two 230 V and one 24 V battery operated model
- 230 V models equipped with remote control
- stepless power control
- battery model equipped with two powerful 24 V NiMh batteries and an AC charger
- equipped with swivel hook and overload detector



230 V model with a remote control



24 V battery operated model



All hoists are packed in a retail carton.

WLL	Voltage	Motor	Battery	Wire length	Speed	Weight	Product code
kg		kW	mAh	m	m / min	kg	
450	24V	0,75	2500	4,6	5	9,7	VANOS450A
250	230V	1,2	-	8,0	5	7,0	VANOS250
450	230V	1,2	-	4,6	5	7,0	VANOS450

ELECTRIC WIRE HOIST 230 V / 50 Hz

- lightweight and efficient wire hoist
- equipped with upper and lower limit switches
- hook rotates 360°
- available also with longer control cable
- protection class IP54
- operating temperature -10 - (+)40 °C



WLL	Lifting height	Wire	Speed	ED %	Motor power	Product code
kg	m	mm	m/min		kW	
230	30	5	19	35	1,3	VAINOSH230
300	60	5	12	35	1,3	VAINOSH300
500	30	7	12	35	1,8	VAINOSH500

MEASUREMENTS

Product code	Control cable length m	Power cable length m	Body width mm	Body depth mm	Body + hook min. height mm	Weight kg
VAINOSH230	7	5	240	180	660	21,5
VAINOSH300	7	5	240	210	670	28,0
VAINOSH500	7	5	240	210	670	28,0

SPARE WIRES AND CONTROL CABLE

Product	Length m		Product code
Wire 5 mm	30 m	Thimble + preventer	VAINOSH230VA
Wire 7 mm	30 m	Thimble + preventer	VAINOSH500VA
Extension for control cable	10 m		VAINOSHKAAP

4. LIFTING CLAMPS

Clamps for plate lifting

Other clamp models

Magnetic lifting clamps

Steel wire rope / cable pulling clamps



TERRIER CLAMPS FOR VERTICAL LIFTING

- for vertical lifting of steel plates
- paint coated
- safety factor 4:1
- other sizes also available
- note, lifting piece's weight must be minimum of 10 % of the maximum WLL (250 kg clamp has no minimum)
- dedicated Terrier clamps for special materials, for more information contact our sales!

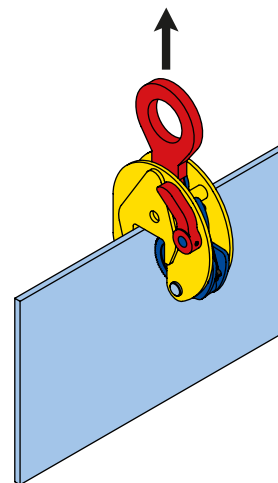
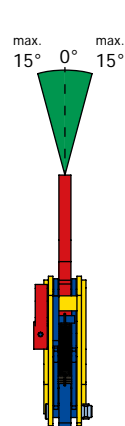
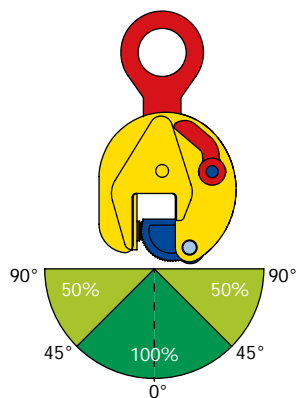
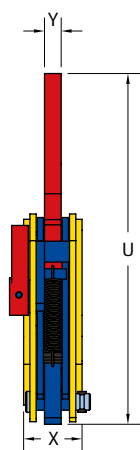
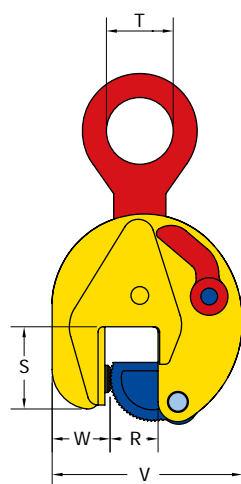


WLL	Grip area R	S	T	U	V	W	X	Y	Weight	Product code
kg	mm	mm	mm	mm	mm	mm	mm	mm	kg	
250	0 – 13	53	30	196	109	30	37	10	1,9	LTTJP025
750	0 – 13	47	30	205	100	35	37	10	1,7	LTTT075
1000	0 – 25	55	45	265	142	38	47	15	3,5	LTTSE1
2000	0 – 35	80	65	335	185	55	56	17	7,0	LTTSE2
3000	0 – 35	80	65	335	185	55	56	17	7,0	LTTSE3
4000	0 – 45	85	70	430	230	60	77	20	16,0	*LTTSE45
6000	0 – 32	114	75	490	255	78	78	20	21,0	*LTTT06
7500	0 – 55	112	75	530	267	70	86	20	26,0	*LTTSE75
9000	0 – 55	112	75	530	267	70	86	20	27,0	*LTTT09
12000	0 – 52	148	85	617	270	100	94	44	37,0	*LTTT120
15000	0 – 76	209	86	760	373	135	105	50	70,0	*LTTT150
25000	5 – 85	248	100	880	465	145	140	66	149,0	*LTTT250

*items marked with an asterisk delivery time approx. 2 weeks



250 kg clamp does not have a minimum WLL due to a tightenable counter pad.



TERRIER CLAMPS FOR VERTICAL LIFTING AND TURNING

- for vertical lifting and turning of steel plates
- paint coated
- safety factor 4:1
- other sizes also available
- note, lifting piece's weight must be minimum of 10 % of the maximum WLL (250 kg clamp has no minimum)
- dedicated clamps for special materials, for more information contact our sales!

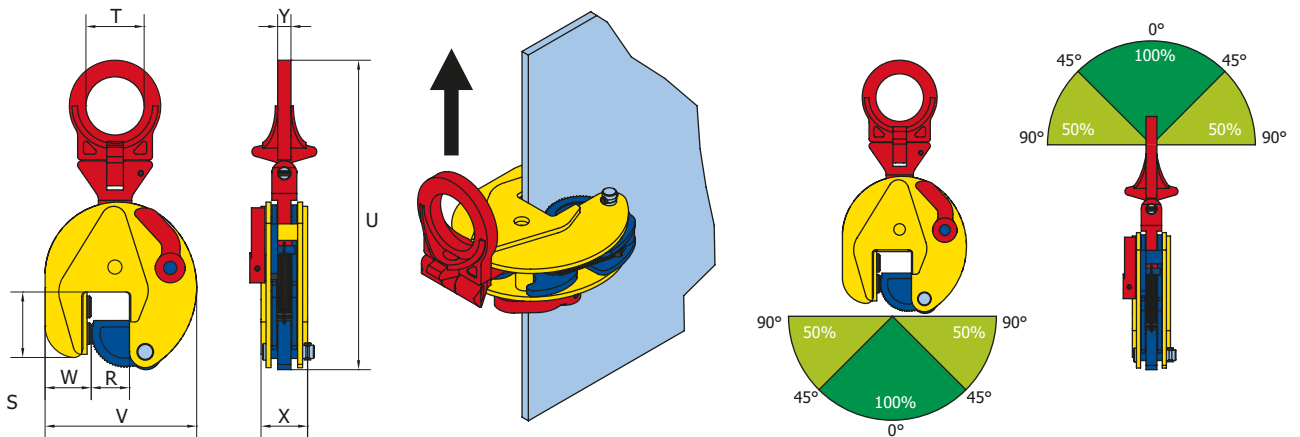


WLL	Grip area R	S	T	U	V	W	X	Y	Weight	Product code
kg	mm	mm	mm	mm	mm	mm	mm	mm	kg	
250	0 – 13	53	30	196	109	30	37	10	2,0	LTTJPU025
750	0 – 13	47	30	230	100	25	37	10	1,8	LTTSU075
1000	0 – 25	55	48	295	142	38	47	14	3,8	LTTSEU1
2000	0 – 35	80	70	370	180	55	56	16	8,0	LTTSEU2
3000	0 – 35	80	70	370	185	55	56	16	8,0	LTTSEU3
4500	0 – 45	85	70	430	230	60	77	20	16,5	LTTSEU45
7500	0 – 55	112	78	565	267	70	86	32	28,0	*LTTSEU75

*items marked with an asterisk delivery time approx. 2 weeks



250 kg clamp does not have a minimum WLL due to a tightenable counter pad.

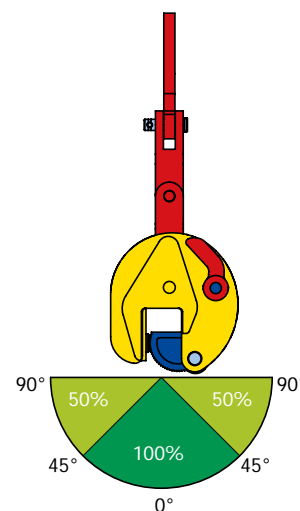
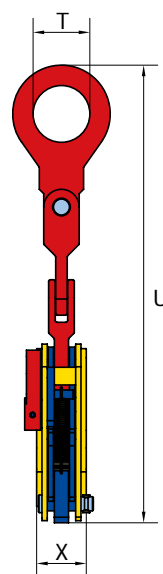
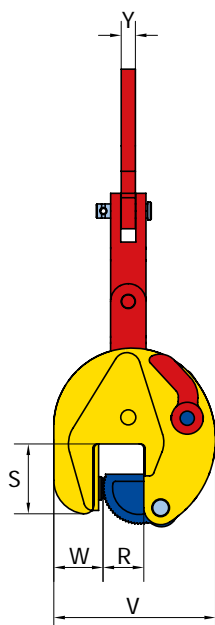


TERRIER CLAMPS FOR VERTICAL LIFTING AND TURNING / HORIZONTAL LIFTING IN PAIRS

- for vertical lifting and turning of steel plates and horizontal lifting in pairs
- paint coated
- safety factor 4:1
- other sizes also available
- note, lifting piece's weight must be minimum of 10 % of the maximum WLL
- dedicated clamps for special materials, for more information contact our sales!

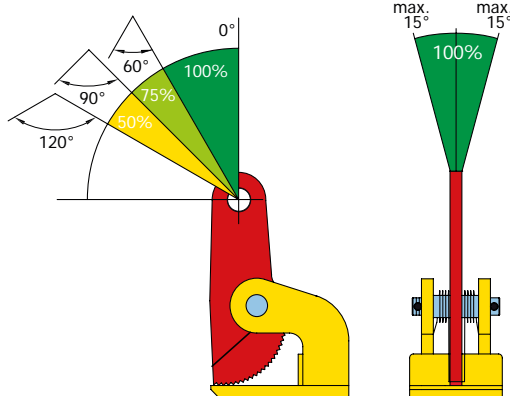
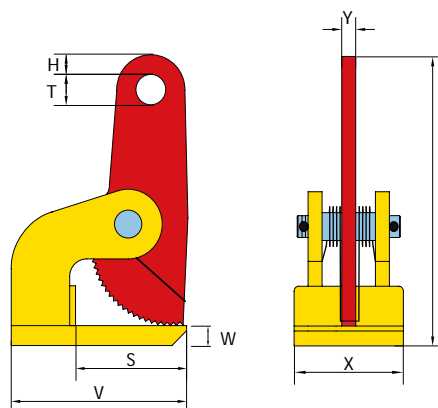
WLL kg	Grip area R mm	S mm	T mm	U mm	V mm	W mm	X mm	Y mm	Weight kg	Product code
750	0 – 13	47	30	310	100	33	37	10	2,0	LTTSMPO75
1000	0 – 25	55	45	405	142	38	47	15	4,5	LTTSEMP1
2000	0 – 35	80	65	515	165	55	56	17	8,0	LTTSEMP2
3000	0 – 35	80	65	515	165	55	56	17	8,0	LTTSEMP3
4500	0 – 45	85	70	655	230	60	77	20	19,0	LTTSEMP45
6000	0 – 32	114	75	760	225	78	78	20	24,0	*LTTSMPO6
7500	0 – 55	112	75	800	267	70	86	20	30,5	*LTTSEMP75
9000	0 – 55	112	75	800	267	70	86	20	31,0	*LTTSMPO9

*items marked with an asterisk delivery time approx. 2 weeks



TERRIER CLAMPS FOR HORIZONTAL LIFTING IN PAIRS

- for horizontal lifting of steel plates (only one plate or tied bundle at a time)
- paint coated
- safety factor 4:1
- other sizes also available



WLL	Grip area	V	S	W	T	H	X	U	Y	Weight	Product code
kg/pair	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
1000	0 - 35	140	99	10	25	11,5	65	188	15	2,6	LTFHX1
2000	0 - 60	180	118	15	30,5	19,5	90	287	16	7	LTFHX2
4000	0 - 60	180	120	15	30,5	19,5	90	383	15	9,2	LTFHX4
6000	0 - 60	220	145	25	30,5	19,5	105	304	20	13	LTFHX6
2000	0 - 100	220	145	25	30,5	19,5	110	307	20	14	LTFHSX2
4000	0 - 100	220	145	25	30,5	19,5	105	414	20	15	LTFHSX4
6000	0 - 100	220	145	25	30,5	19,5	120	414	20	16,5	*LTFHSX6
8000	0 - 100	225	135	35	30,5	19,5	120	428	30	21	*LTFHSX8
10000	0 - 100	225	135	35	30,5	19,5	120	428	30	22	*LTFHSX100

*items marked with an asterisk delivery time approx. 2 weeks

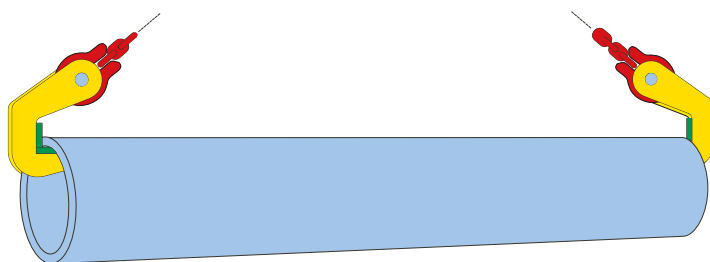
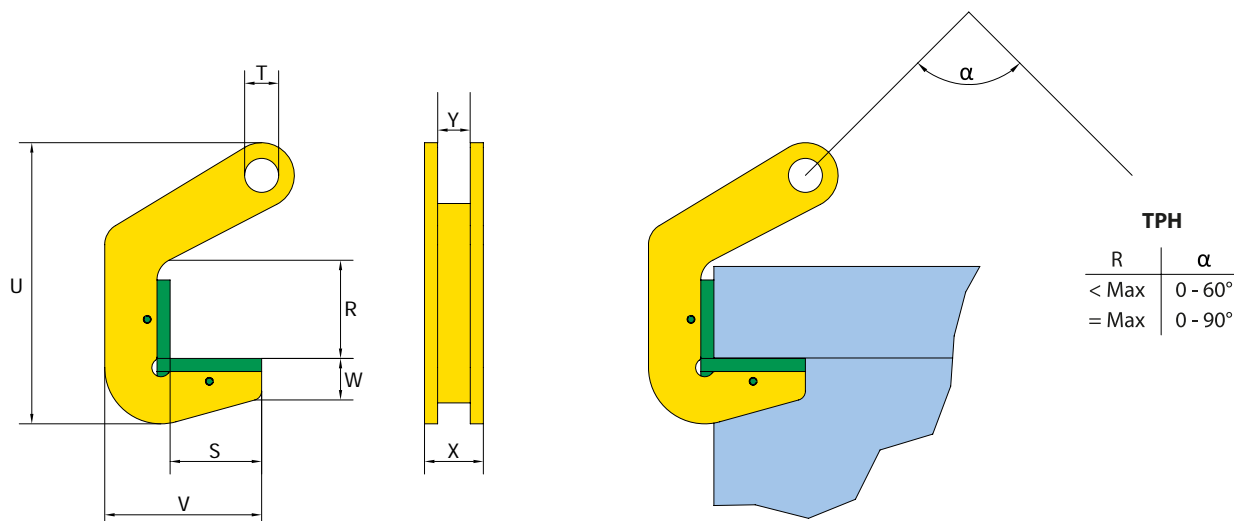
TERRIER CLAMPS FOR PIPES

- suitable for all kinds of pipes
- paint coated
- equipped with polyurethane covers which protect the pipe heads
- safety factor 4:1



WLL kg/pair	Max. wall of pipe R mm	V mm	W mm	U mm	S mm	X mm	Y mm	Weight kg	Product code
1500	40	120	50	185	70	41	25	2,0	PTTPH15
3000	40	140	50	185	70	41	25	2,0	PTTPH30
4000	50	140	58	204	70	41	25	3,0	PTTPH40
6000	50	140	58	204	70	41	25	3,0	PTTPH60
8000	70	140	58	224	70	45	25	3,4	PTTPH80
10000	70	140	58	224	70	85	45	7,0	PTTPH100

Delivery time approx. 2 weeks.

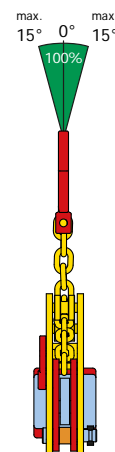
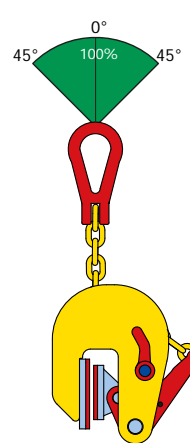
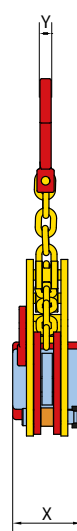
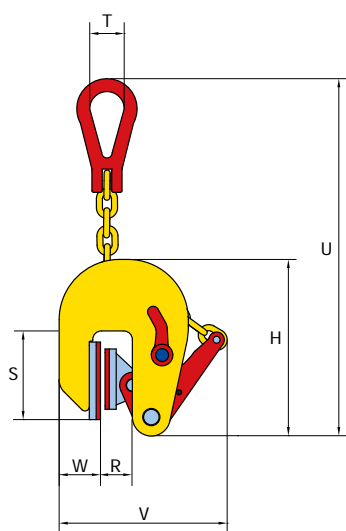


TERRIER CLAMPS FOR VERTICAL LIFTING OF STAINLESS STEEL PLATES

- for stainless steel plates and e.g. marble plates
- leaves no marks on the lifted plate
- automatic locking to a safety position when clamp is lowered to the side of the plate
- paint coated
- lifting possible between angles 0-45° (not for horizontal lifting)
- safety factor 4:1

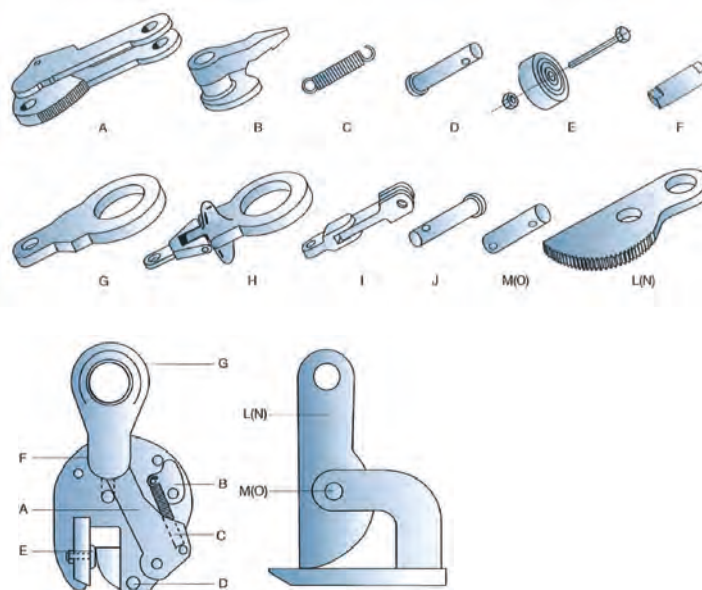
WLL kg	Grip area R mm	H mm	S mm	T mm	U mm	V mm	W mm	X mm	Y mm	Weight kg	Product code
500	0 - 20	205	102	40	462	224	48	80	14	5,3	LTNMK05
500	17 - 37	205	102	40	462	241	48	80	14	5,5	*LTNMKE05
1000	0 - 30	232	105	40	470	282	46	80	14	6,5	LTNMK1
1500	0 - 40	232	105	40	470	282	46	80	14	7,2	*LTNMK15
2000	0 - 50	362	124	50	704	408	63	80	18	14,0	*LTNMK2
3000	0 - 60	362	124	50	704	408	63	80	18	15,0	*LTNMK3

*items marked with an asterisk delivery time approx. 2 weeks



SPARE PARTS FOR TERRIER CLAMPS

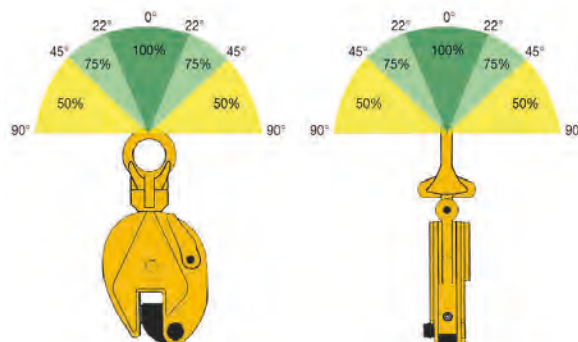
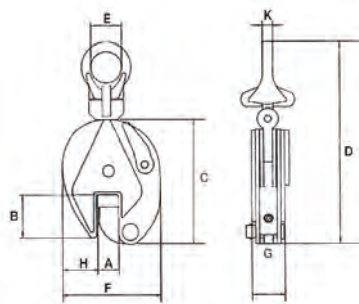
- A. Moving jaw
- B. Locking lever
- C. Spring
- D. Jaw pin
- E. Counter pad
- F. Lifting eye pin
- G. Lifting eye TS, STS, MPX
- H. Lifting eye TSU, STEU
- I. Pivot arm TSMP, STSMPX
- J. Pin for pivot arm, type MP
- L. Jaw FHX
- M. Jaw pin FHX
- N. Jaw FHSX
- O. Jaw pin FHSX



CLAMPS FOR VERTICAL LIFTING AND TURNING



- for vertical lifting and turning of steel plates
- paint coated
- delivery includes a test certificate
- safety factor 4:1
- note, lifting piece's weight must be minimum of 20 % of the maximum WLL



WLL kg	Min. WLL kg	Grip area mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	Test load kN	Weight kg	Product code
800	160	0 - 15	17	44	128	212	30	103	36	35	10	7,35	1,9	LTABT08
1000	200	0 - 20	22	63	167	295	48	138	50	51	12	14,7	4,5	LTABT10
2000	400	0 - 30	27	76	202	370	60	164	52	56	16	29,4	7,5	LTABT20
3000	600	0 - 30	32	85	237	418	65	193	78	59	20	44,1	14,8	LTABT30
5000	1000	0 - 50	55	90	262	480	76	232	90	59	20	73,5	23	LTABT45
8000	1600	0 - 45	45	112	330	600	85	263	100	77	22	117,6	37	LTABT80

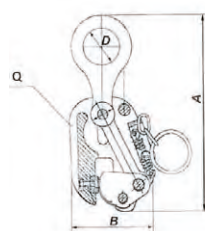
CLAMPS WITH LOCKING RING FOR VERTICAL LIFTING



- for vertical lifting of steel plates
- locking and opening by pulling the ring
- paint coated
- safety factor 4:1
- note, lifting piece's weight must be minimum of 10 % of the maximum WLL

WLL kg	Grip area mm	A mm	B mm	Q mm	D mm	Weight kg	Product code
2000	0 - 25	320	150	60	50	4,7	LTABT20RE
3000	0 - 30	340	180	70	40	10,7	LTABT30RE

locking and opening
by pulling the ring

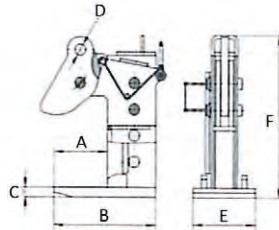


CLAMPS FOR HORIZONTAL LIFTING (IN PAIRS) OF STEEL PLATE BUNDLES

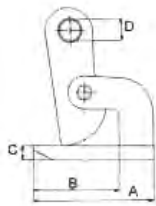


- for horizontal lifting of tied steel plate bundles
- adjustable grip area
- paint coated
- safety factor 4:1

WLL	Grip area	A	B	C	D	E	F	Weight	Product code
kg / pair	mm	mm	mm	mm	mm	mm	mm	kg	
8000	40 – 240	180	300	60	40	200	520	40	LTABT60N



CLAMPS FOR HORIZONTAL LIFTING IN PAIRS



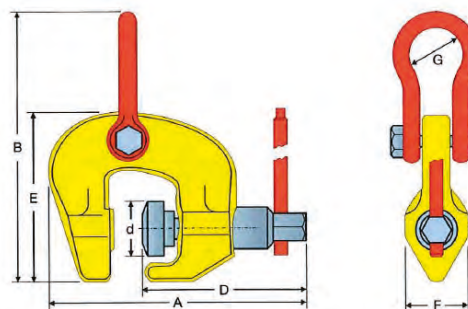
- for horizontal lifting of steel plates (only one plate at a time)
- paint coated
- safety factor 4:1

WLL /pair	Grip area	A	B	C	D	Weight	Product code
kg	mm	mm	mm	mm	mm	kg	
1500	0 – 50	127	90	15	30	4,3	LTVABT1500
3000	0 – 50	220	120	30	36	7,7	LTVABT3000
5000	0 - 55	185	-	58	-	7,5	LTVABT5000

SCREW CLAMPS FOR LIFTING IN DIFFERENT POSITIONS

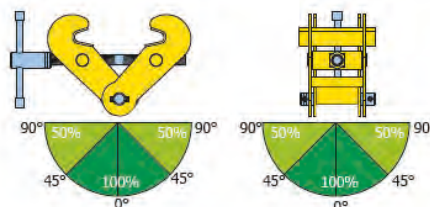
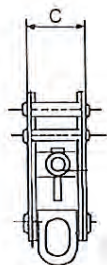
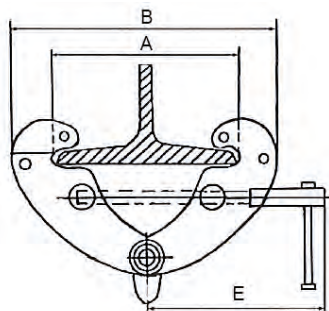
- suitable for steel plates and items of various shape
- paint coated
- safety factor 4:1

WLL	Grip area	Z	U	D	d	E	F	G	Weight	Product code
kg	mm	mm	mm	mm	mm	mm	mm	mm	kg	
500	0 – 28	127	116	89	26	75	30	17	0,8	LTTSCC05
750	0 – 22	167	201	120	42	125	46	38	3,0	LTTSCC075
1500	0 – 32	187	226	135	42	142	46	45	4,0	LTTSCC15
3000	0 - 50	223	268	165	49	165	55	50	7,0	LTTSCC3
6000	0 - 75	285	364	215	63	210	70	80	18,0	LTTSCC6



BEAM CLAMPS

- can be used e.g. to attach a hoist to an I- or T-beam
- can also be used for lifting
- paint coated yellow/black
- each product is delivered with a test certificate
- safety factor 4:1
- EN 13155



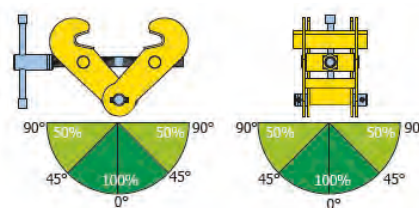
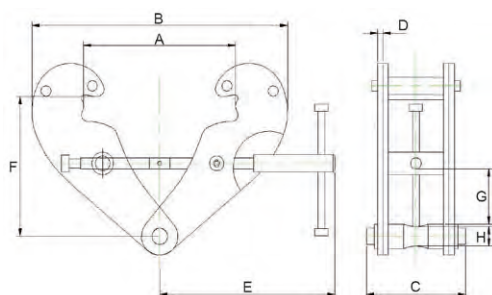
WLL	A	B	C	E	Weight	Product code
kg	mm	mm	mm	mm	kg	
1000	75-230	180-375	85	220	4,0	TARPAL10
2000	75-230	180-375	93	220	5,0	TARPAL20
3000	80-320	220-498	120	271	9,5	TARPAL30
5000	90-355	240-520	111	258	11,0	TARPAL50
10000	80-350	250-520	120	280	16,0	TARPAL100

BEAM CLAMPS RFID

- can be used e.g. to attach a hoist to an I- or T-beam
- can also be used for lifting
- paint coated orange/black
- each clamp has tested with a double load
- each product is delivered with a test certificate
- equipped with RFID
- safety factor 4:1
- EN 13155



NEW



WLL	A max	B max	C	D	E	F min	F max	G min	H	B min	Weight	Product code
kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
1000	270	370	94	4	198	100	154	22	20	183	3,5	TARPALH10
2000	270	370	102	6	198	100	154	22	20	183	4,5	TARPALH20
3000	355	500	132	8	263	148	219	46	22	243	9,5	TARPALH30
5000	355	500	142	10	263	148	219	43	28	243	11	TARPALH50
10000	364	521	180	12	285	165	239	51	38	269	16	TARPAL1H00

TIGER BEAM CLAMPS



Non-sparking

- working loads 1 - 30 t
- ATEX Directive 94/9/EC and the Machinery Directive 2006/42/EC
- Atex markings: Ex II 2 GD c IIC T4 IIIC T135°C
- Zone 1 & 2 (gas) and Zone 21 & 22 (dust)



Entertainment

- working loads 1 - 30 t
- painted black



Universal

- working loads 3 / 5 / 10 t
- can be used both vertically and horizontally
- for lifting, pulling or as an anchoring point



Adjustable

- working loads 1 / 3 t
- can be used for lifting or as an anchoring point
- maximum working angle 15°

ALSO OTHER MODELS AVAILABLE, ASK FOR MORE FROM OUR SALES.

ROUND PIPE CLAMPS

- suitable for pipes, bars, etc. that are made of different kinds of materials
- for short pieces individually, for long pieces in pairs with a lifting beam
- paint coated
- safety factor 4:1



Round pipe clamps available also for larger diameters.

WLL	Grip area diameter	Weight	Product code
kg	mm	kg	
2000	80 - 130	16,0	TARPA20
3000	120 - 220	32,0	TARPA30
5000	200 - 320	104,0	TARPA50

CONCRETE PIPE CLAMPS

- clamps for concrete pipes
- 2- or 3-leg
- two models: -standard models I and P for pipes without a rubber sealing
-model K for pipes with a rubber sealing, with high jaws
- paint coated
- chain leg length 1,5 m
- safety factor 4:1

WLL	Grip area	L	Model	No. of legs	Suitability	Weight	Product code
kg	mm	mm				approx. kg	
2000	60-120	245	normal jaw (P)	2-leg	normal pipe	25	KRT2P
2000	80-170	235	wide jaw (I)	2-leg	normal pipe	35	KRT2I
2000	60-120	345	high jaw (K)	2-leg	pipe with rubber seal	35	KRT2K
3000	60-120	245	normal jaw (P)	3-leg	normal pipe	37	KRT3P
3000	80-170	235	wide jaw (I)	3-leg	normal pipe	46	KRT3I
3000	60-120	345	high jaw (K)	3-leg	pipe with rubber seal	45	KRT3K

Also other sizes available for individual order!



JAW MODELS



Normal

P-model, 60-120 mm

Product code: KRTLS



Wide

I-model, 80-170 mm

Product code: KRTLL



High

K-model, 60-120 mm

Product code: KRTLPL

EK-PIPE LIFTER ALSO AVAILABLE

Used for e.g. lifting concrete pipes. Seven different sizes between 500 - 8000 kg and lengths 1 - 3 m. Ask more from our sales.



CONCRETE PIPE CLAMP IN A CARTON 2000 KG / 2-LEG



WLL	Grip area	L-size	Model	No. of legs	Suitability	Weight	Product code
kg	mm	mm				approx. kg	
2000	60-120	245	normal jaw (P)	2-leg	normal pipe	25	KRT2KVAL

CABLE REEL CLAMPS

without swivel

with swivel



- for lifting and handling cable reels
- by using the reel hole, a clamp equipped with a ball bearing swivel can also be used for pulling the cable
- paint coated
- safety factor 4:1

WLL	Reel hole diameter min. / max.	Type	A	Weight	Product code
kg	mm		mm	kg	
1500	40 / 90	without swivel	190	1,5	VITAR15
1500	40 / 90	with swivel	190	2,0	VITAR15L
3000	50 / 130	without swivel	225	3,6	VITAR3
3000	50 / 130	with swivel	225	4,7	VITAR3L

CABLE REEL SCISSOR CLAMPS

without swivel

with swivel

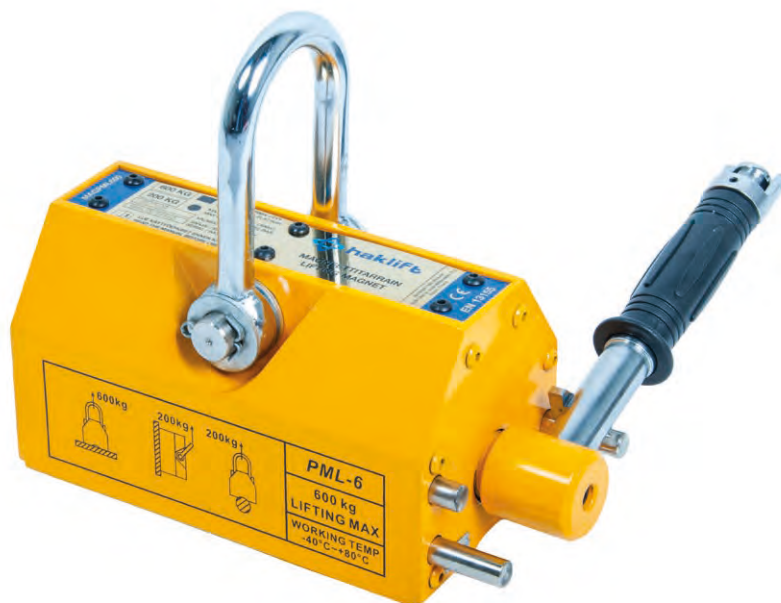
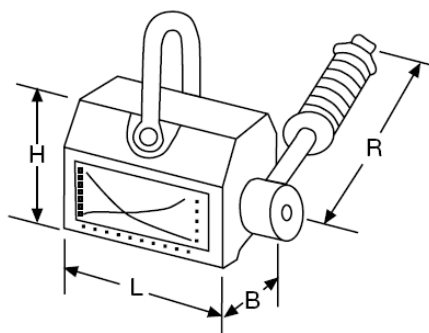


- for lifting and handling cable reels
- by using the reel hole, a clamp equipped with a ball bearing swivel can also be used for pulling the cable
- paint coated
- safety factor 4:1

WLL	Reel hole diameter min. / max.	Type	Weight	Product code
kg	mm		kg	
3000	50 / 130	without swivel	9,0	SATAR3
3000	50 / 130	with ball bearing swivel	10,0	SATAR3L

MAGNETIC LIFTING CLAMPS 100 - 2000 KG

- permanent magnetic clamps for lifting plates, pipes and round steel bars
- small and easy to use
- five sizes
- due to the articulated lifting eye, improved durability and stability on the item to be lifted
- rubber coated handle is comfortable to use
- operating temperature -40 °C - (+)80 °C
- safety factor of 100 - 300 kg clamps 3,5:1 and of 600 - 2000 kg clamps 3:1
- EN 13155



WLL with kg	WLL with round objects kg	B mm	H mm	L mm	R mm	Weight kg	Product code
100	30	62	67	92	126	3,0	MAGPML100
300	100	92	88	158	150	10,0	MAGPML300
600	200	122	113	228	186	24,0	MAGPML600
1000	300	176	158	258	282	37,0	MAGPML1000
2000	600	234	206	378	374	85,0	MAGPML2000

MAGNETIC LIFTING CLAMP, MANUALLY OPERATED



- handy permanent magnetic clamp
- release pin in the centre of the clamp which is activated by pressing the handle to the other direction
- perfect for carrying and transferring steel plates and pieces

WLL kg	Width mm	Depth mm	Height mm	Weight kg	Product code
50	100	125	270	2,0	MAG50

WIRE ROPE / CABLE CLAMPS

- for pulling steel ropes and cables
- suitable for steel ropes, coated wires, carrying cables and uncoated copper cables
- yellow chromized

NEW MODEL



The jaw and body of 2000 and 3000 kg clamps are equipped with serration, which ensures maximum gripping.

Tensile breaking strength kg	Grip area mm	Gripping jaw length mm	Weight kg	Product code
750	1 - 10	20	0,45	TARVAIP
1000	2,5 - 16	37	0,75	TARVAIL1
2000	4 - 22	60	1,38	TARVAIL2
3000	16 - 32	109	2,55	TARVAIL3

WIRE ROPE / CABLE PULLING SOCKS

- for pulling steel wire ropes and cables
- hot dip galvanized
- ask for sizes and models from our sales



WIRE ROPE / CABLE SWIVELS

- prevents the cable or steel wire rope from twisting during pulling
- extremely small-sized
- with needle bearings



Tensile breaking strength kg	A diam. mm	B length mm	Weight kg	Product code
1000	29	143	0,53	LEIKHGS1
2000	49	185	1,90	LEIKHGS2

CLAMP FOR PULLING PALLETS

- for pulling pallets from e.g. a container
- paint coated
- not to be used as a lifting device



Max. load kg	Grip area mm	Weight approx. kg	Product code
1000	30 - 100	8	TARLAVA1

SLAB CLAMP

- manually operated slab gripper
- for lifting and transporting concrete and stone slabs
- adjustable grip area

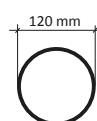
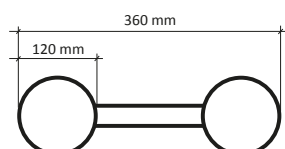


NEW

WLL kg	Grip area mm	Weight kg	Product code
20	200 - 300 / 300 - 400 / 400 - 500	2,0	LAT500

SUCTION LIFTERS

- two models
- adhesion capacity is dependent on the cleanliness and smoothness of the surface
- aluminium body
- suitable for glass, aluminium, plastic, acryl etc. plates



WLL kg	Type	Product code
40	1 suction cup	IMUTAR140
80	2 suction cups	IMUTAR280

5. CONSTRUCTION ACCESSORIES

Crane forks

Man baskets

Liftable bins and barrels

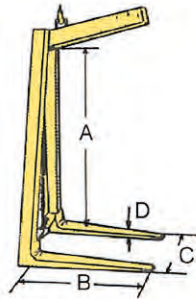
Protective material handling baskets

Concrete lifting buckets



CRANE FORKS WITH ADJUSTABLE AND FIXED FORKS

- note, lifting piece's weight must be minimum of 20 % of the maximum WLL (does not apply to model NOH15001)
- equipped with automatic adjustment, keeping the load in balance (does not apply to model NOH15001)
- safety factor 4:1
- powder coated
- EN 13155

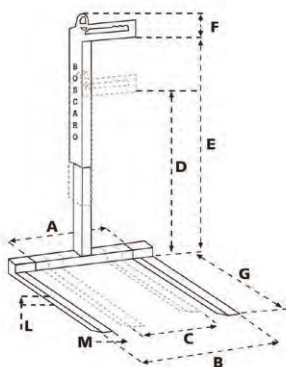


NOH15001

WLL kg	Fork type	A mm	B mm	C mm	D mm	Weight approx. kg	Product code
1500	Fixed forged	1500	1000	700	50	95	NOH15001
1500	Adjustable forged	1300-2000	1000	350-900	40	165	NOH1500S
2000	Adjustable forged	1300-2000	1000	400-900	40	220	NOH2000SB
3000	Adjustable forged	1300-2000	1000	450-900	50	280	NOH3000S

CRANE FORKS WITH MANUAL ADJUSTMENT AND ADJUSTABLE FORKS

- three models, powder coated and hot dip galvanized and aluminum
- crane fork's height and width of the forks can be adjusted
- manual balancing of the load
- safety factor 4:1
- EN 13155



Painted



Hot dip galvanized



Aluminum

WLL kg	Coating	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	M mm	Weight approx. kg	Product code
1500	Painted	1000	1000	300	1000	1600	450	1000	30	90	140	NOH1500SK
1500	Hot dip galv.	1000	1000	300	1000	1600	450	1000	30	90	148	*NOH1500SKKS
2000	Painted	1000	1000	300	1200	1800	450	1000	35	100	160	NOH2000SK
2000	Hot dip galv.	1000	1000	300	1200	1800	450	1000	35	100	165	*NOH2000SKKS
1000	Aluminum	-	900	400	-	1650	-	-	-	-	78	NOH1000DA

*items marked with an asterisk delivery time 4-6 weeks

FOLDABLE CRANE FORKS WITH AUTOMATIC ADJUSTMENT

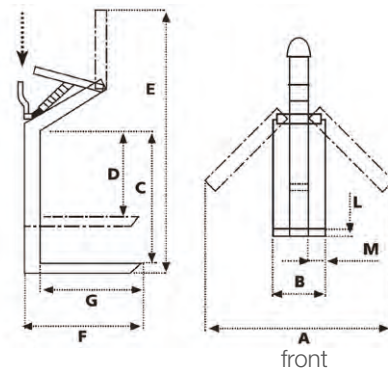
- equipped with automatic adjustment, keeping the load in balance
- powder coated
- safety factor 4:1
- EN 13155



The width of the forks can be adjusted with the crank, also when folded for transportation. EN 13155.

NOTE! Lifting always from the long side of the pallet!

See safety baskets on page 5-7.



WLL kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	M mm	Weight approx. kg	Product code
600	1600	340	1300	1200	2360	1080	1000	25	80	95	*NOH6001B
1000	1600	340	1300	1200	2360	1080	1000	25	90	120	*NOH10001B
1500	1600	340	1300	1200	2360	1080	1000	30	90	130	*NOH15001B
2000	1600	340	1300	1200	2360	1080	1000	35	100	146	*NOH20001B
2500	1600	380	1300	1200	2360	1090	1000	35	120	170	*NOH25001B
3000	1600	380	1300	1200	2360	1090	1000	35	120	175	*NOH30001B

*items marked with an asterisk delivery time 4-6 weeks

FOLDABLE CRANE FORKS WITH AUTOMATIC ADJUSTMENT AND SELF-LEVELLING FORKS

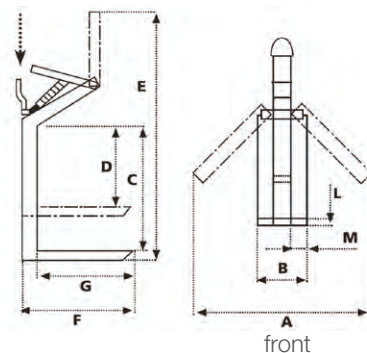
- equipped with automatic adjustment, keeping the load in balance – forks are equipped with articulations so that they always remain in optimal position
- powder coated
- safety factor 4:1
- EN 13155



The width of the forks can be adjusted with the crank, also when folded for transportation. EN 13155.

NOTE! Lifting always from the long side of the pallet!

See safety baskets on page 5-7.

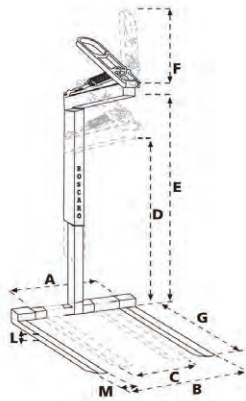


WLL kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	M mm	Weight approx. kg	Product code
600	1600	340	1300	1200	2360	1080	1000	25	80	95	*NOH6001C
1000	1600	340	1300	1200	2360	1080	1000	25	90	120	*NOH10001C
1500	1600	340	1750	1200	2360	1080	1000	30	90	130	NOH15001C
2000	1600	340	1300	1200	2360	1080	1000	35	100	150	*NOH20001C
2500	1600	380	1300	1200	2360	1090	1000	35	120	180	*NOH25001C
3000	1600	380	1300	1200	2360	1090	1000	35	120	185	*NOH30001C

*items marked with an asterisk delivery time 4-6 weeks

CRANE FORKS WITH AUTOMATIC ADJUSTMENT AND ADJUSTABLE FORKS

- equipped with automatic adjustment, keeping the load in balance
- width of the forks can be adjusted
- two models, powder coated or hot dip galvanized
- safety factor 4:1
- EN 13155



The width of the forks can be adjusted.

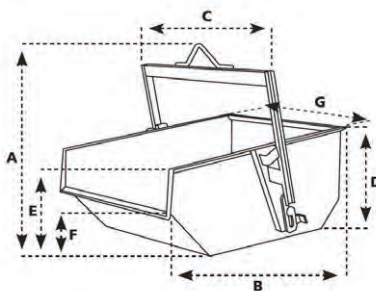


WLL kg	Coating	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	M mm	Weight approx. kg	Product code
1500	Painted	1000	1000	300	1000	1600	700	1000	30	90	155	*NOH1500D
1500	Hot dip galv.	1000	1000	300	1000	1600	700	1000	30	90	160	*NOH1500DKS
2000	Painted	1000	1000	300	1200	1800	700	1000	35	100	170	*NOH2000D
2000	Hot dip galv.	1000	1000	300	1200	1800	700	1000	35	100	170	*NOH2000DKS

*items marked with an asterisk delivery time 4-6 weeks

LIFTABLE SELF DUMPING BINS

- practical tool for waste handling in construction industry
- equipped with automatic tipping function
- two models, powder coated yellow or hot dip galvanized



Volume l	WLL kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight kg	Product code Painted, yellow	Product code Hot dip galv.
200	400	800	1000	850	480	370	250	780	60	*KKNOS200	*KKNOS200K
350	700	980	1180	950	540	460	350	880	85	*KKNOS350	*KKNOS350K
500	1000	1080	1280	1050	600	500	380	980	100	KKNOS500	*KKNOS500K
800	1600	1240	1520	1160	760	620	350	1080	125	KKNOS800	*KKNOS800K
1000	2000	1360	1680	1380	860	660	400	1280	190	*KKNOS1000	*KKNOS1000K
1500	3000	1370	1700	1430	860	860	640	1340	210	KKNOS1500	*KKNOS1500K
2000	4000	1518	1970	1612	946	840	530	1412	550	*KKNOS2000	*KKNOS2000K
3000	6000	1625	2146	1962	1006	900	580	1762	670	*KKNOS3000	*KKNOS3000K
4000	8000	2036	2551	2268	1130	1011	710	2062	1150	*KKNOS4000	*KKNOS4000K
6000	12000	2416	2830	2272	1436	1330	880	2066	1600	*KKNOS6000	*KKNOS6000K
8000	16000	2743	3425	2269	1736	1610	1072	2066	2700	*KKNOS8000	*KKNOS8000K

*items marked with an asterisk delivery time 4-6 weeks

LIFTABLE DUMPING BINS WITH LIFTING POINTS

- practical tool for waste handling in construction industry
- equipped with four lifting points
- can also be used with forklift

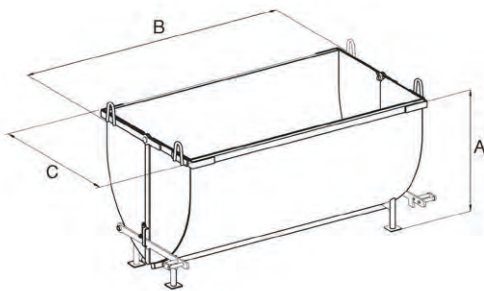


Volume l	WLL kg	Coating	External dimensions W x D x H (bin + lifting point) mm	Weight kg	Product code
750	1280	Painted	1080 x 1520 x 760	100	*KKNOSK750
1000	1600	Painted	1280 x 1680 x 860	150	*KKNOSK1000
1500	2400	Painted	1340 x 1700 x 860	190	*KKNOSK1500
2000	3200	Painted	1412 x 2070 x 1126	462	*KKNOSK2000

*items marked with an asterisk delivery time 4-6 weeks

BOTTOM EMPTYING BINS

- practical tool for transporting and emptying waste
- equipped with automatic emptying mechanism

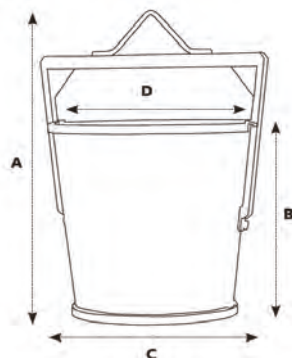


Volume l	WLL kg	A mm	B mm	C mm	Weight kg	Product code
800	2080	1043	1086	1226	170	*KONTTIAV0800
1000	2600	1043	1386	1226	190	*KONTTIAV1000
1500	3900	1044	1792	1226	265	*KONTTIAV1500
2000	5200	1155	2198	1234	390	*KONTTIAV2000
3000	7800	1328	2210	1550	610	*KONTTIAV3000

*items marked with an asterisk delivery time 4-6 weeks

LIFTABLE BARREL SKIPS

- practical tool for transporting and emptying waste
- manual locking mechanism
- automatic tipping



60 - 80 litres



100 - 2000 litres

Volume	WLL	A	B	C	D	Weight	Product code
l	kg	mm	mm	mm	mm	kg	
60	120	637	380	513	450	14	NOSTYN060
80	160	697	410	563	500	20	NOSTYN080
100	200	892	567	444	582	30	NOSTYN100
250	500	1227	758	606	784	65	NOSTYN250
500	1000	1612	963	823	1010	100	NOSTYN500
1000	2000	1933	1163	1048	1300	190	*NOSTYN1000
2000	4000	2026	1374	1325	1584	335	*NOSTYN2000

*items marked with an asterisk delivery time 4-6 weeks

STACKABLE CONTAINER

- equipped with four lifting points
- containers can be piled on top of or inside each other



WLL	Dimensions L x W x H mm	Weight kg	Product code
1000	2198 x 1198 x 1334	210	KONTTIPIN1000

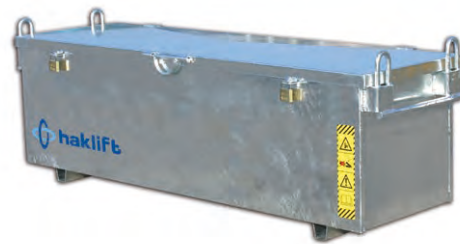
Delivery time 4-6 weeks.

LIFTABLE STORAGE BOXES

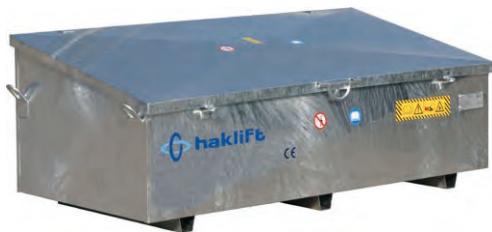
- all models equipped with four lifting points
- can also be handled with a forklift
- powder coated yellow or hot dip galvanized
- cover can be locked (locks are not included in the delivery)



NOSLAAT200, NOSLAAT420,
NOSLAAT425, NOSLAAT1460



NOSLAAT200KS, NOSLAAT420KS,
NOSLAAT425KS, NOSLAAT1460KS



NOSLAAT700KS

Volume l	WLL kg	Coating	Width mm	Depth mm	Height mm	Weight kg	Product code
200	400	Hot dip galv.	900	400	500	50	*NOSLAAT200KS
420	500	Hot dip galv.	900	900	500	80	*NOSLAAT420KS
425	500	Hot dip galv.	1700	500	500	90	*NOSLAAT425KS
200	400	Painted	900	400	500	40	NOSLAAT200
420	500	Painted	900	900	500	70	*NOSLAAT420
425	500	Painted	1700	500	500	82	*NOSLAAT425
700	400	Hot dip galv.	1700	830	595/415	90	*NOSLAAT700KS
1460	500	Painted	1950	996	752	165	*NOSLAAT1460
1460	500	Hot dip galv.	1950	996	752	175	*NOSLAAT1460KS

*items marked with an asterisk delivery time 4-6 weeks

STORAGE DEPOSITS

- equipped with four lifting points
- can also be handled with a forklift
- two doors and openable cover



Volume l	Height mm	Length mm	Width mm	Weight kg	Product code
200	1620	860	880	235	*KONTTI200
400	1550	870	1380	240	*KONTTI400
800	1600	1290	1340	270	*KONTTI800

*items marked with an asterisk delivery time 4-6 weeks

PROTECTIVE MATERIAL HANDLING BASKETS

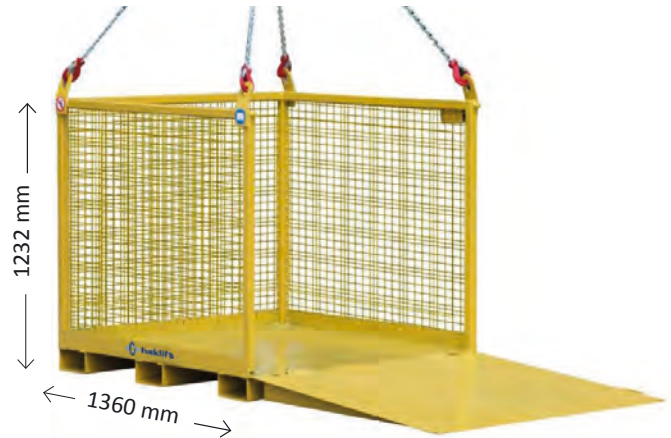
NOSKOR

- safety basket for crane fork and the load to be lifted
- works only with Haklift crane fork (page 3)
- fork max. width 174 mm and max. height 60 mm



NOSKOR2000

- can be used either with a chain sling or crane fork
- fork max. width 180 mm and max. height 65 mm

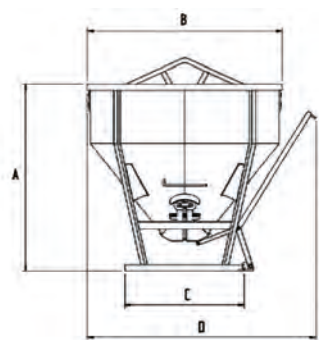


Capacity	Weight	Product code
kg	kg	
Crane fork defines the WLL	135	*NOSKOR
2000	200	NOSKOR2000

*items marked with an asterisk delivery time 4-6 weeks

CONCRETE LIFTING BUCKETS

- intended for lifting and precise dosing of concrete mass
- dosing mechanism functions with a leverage
- powder coated or hot dip galvanized

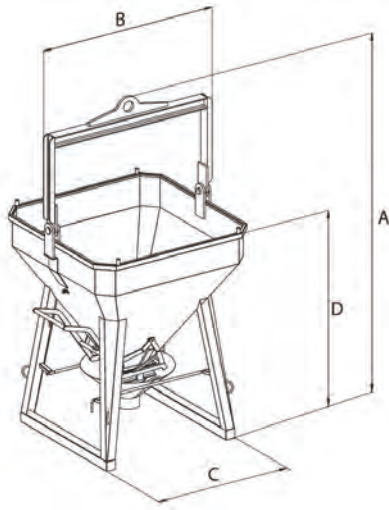


Volume	WLL	A	B	C	D	Weight	Product code	Product code
l	kg	mm	mm	mm	mm	kg	Painted, yellow	Hot dip galv.
200	520	620	920	750	1050	50	*BETNOS200	*BETNOS200KS
300	780	780	920	750	1050	60	*BETNOS300	*BETNOS300KS
500	1300	950	1050	880	1200	82	*BETNOS500	*BETNOS500KS
1000	2600	1300	1250	750	1450	160	*BETNOS1000	*BETNOS1000KS
1500	3900	1800	1250	750	1450	230	*BETNOS1500	*BETNOS1500KS

*items marked with an asterisk delivery time 4-6 weeks

CONCRETE LIFTING BUCKETS WITH RUBBER HOSE

- intended for lifting and precise dosing of concrete mass
- dosing mechanism functions with a leverage
- powder coated



Rubber hose length 2,0 m
Diameter 200 mm

Volume l	WLL kg	A mm	B mm	C mm	D mm	Weight kg	Product code
500	1300	2387	1128	1000	1505	215	*BETNOS500SUK
1000	2600	2807	1447	1200	1712	320	*BETNOS1000SUK
1500	3900	3048	1647	1300	1925	405	*BETNOS1500SUK
2500	6500	2008	1780	1780	1927	611	*BETNOS2500SUK

*items marked with an asterisk delivery time 4-6 weeks

PIPE LAYING HOOKS

- used for e.g. lifting concrete drum pipes
- lengths 1 -3 m, determined with the order



WLL	Product code
500	*EKNOSTIN0500
1000	*EKNOSTIN1000
2000	*EKNOSTIN2000
3000	*EKNOSTIN3000
5000	*EKNOSTIN5000
6500	*EKNOSTIN6500
8000	*EKNOSTIN8000

*items marked with an asterisk delivery time 4-6 weeks

MAN BASKETS

TRUHEKO

- quick attachment and locking to forklift's forks



HNKOR2

- removable roof and rolls on the side, so the basket can be moved along the wall
- equipped with four lifting points



HNKOR1

- equipped with four lifting points

Model	Capacity kg	Base size mm	Height mm	Weight kg	Product code
For 1 person, for forklift	400	1100 x 1000	2150	140	TRUHEKO
For 1 person	200	1000 Ø	2340	165	*HNKOR1
For 2 persons	300	1400 x 1000	2320	300	*HNKOR2

*items marked with an asterisk delivery time 4-6 weeks

6. JACKS

Bottle jacks

Floor jacks

Mechanical jacks

Toe jacks

Farm jacks

Forklift jack



BOTTLE JACKS

- 2 - 20 t jacks have a rotating adjustment piece on top of the cylinder which can be used to increase the lifting height
- can also be used horizontally
- paint coated



Jacks are packed in a retail carton.



WLL t	Min. height mm	Lifting height mm	Adjustment height mm	Max. height mm	Weight approx. kg	Product code
2,0	168	100	48	316	2,35	TUNKKI20P
5,0	207	125	70	402	3,9	TUNKKI50P
10,0	222	145	80	447	5,2	TUNKKI100P
15,0	227	150	80	457	7,9	TUNKKI160P
20,0	235	150	60	445	9,7	TUNKKI200P
32,0	260	160	-	420	17,8	TUNKKI300P
50,0	280	170	-	450	25,8	TUNKKI500P

HYDRAULIC AIR BOTTLE JACKS

- hydraulic jack operating with pressured air
- quick to use
- equipped with ¼ inch connector which is changeable
- required operating pressure 8-13,8 bar
- can also be operated normally with a lever
- paint coated



WLL t	Min. height mm	Lifting height mm	Adjustment height mm	Max. height mm	Weight kg	Product code
5	210	140	60	430	6,0	TUNKKI05AIR
12	265	165	80	510	13,5	TUNKKI12AIR
20	265	165	80	510	17,7	TUNKKI20AIR

HYDRAULICAL TOE JACKS

- lifting from extremely low at the tip of the jack or from top of the jack
- unbeatable tool for lifting and moving heavy machines and pieces etc.
- paint coated



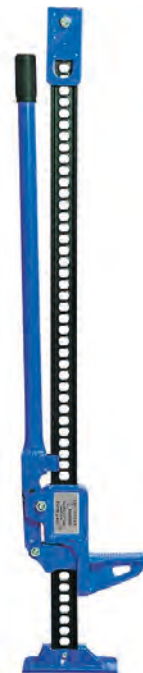
WLL from top t	WLL from tip t	Max. height from tip mm	Max. height from top mm	Lowest height from tip mm	Lowest height from top mm	Weight kg	Product code
5	2	230	573	20	370	20	TUNKKI5H
10	5	265	650	30	420	35	TUNKKI10H
25	10	273	720	58	505	109	TUNKKI25H

FARM JACKS

- for farms, off road equipment, garages etc.
- lightweight and efficient
- paint coated



TUNKHATA3520



WLL 130 - 300 mm 300 - 500 mm over 500 mm t	Lifting point min. height mm	Lifting point max. height mm	Weight kg	Product code
3	125	318	11,0	TUNKHATA3520
2 1,6 0,5	130	1060	13,0	TUNKHATA3548
2 1,6 0,5	130	1325	14,5	TUNKHATA3560

JACKS FOR LIFTING FROM THE SIDE OR TOP

- lifting and lowering with a fixed crank
- two different lifting points, from the side tip and from the top
- both lifting points have the same WLL
- paint coated



WLL	Min. height	Min. side lifting point height	Lifting height	Base size	Weight	Product code
t	mm	mm	mm	mm	approx. kg	
3	730	75	350	130x138	20	TUNKKI03S
5	730	70	300	140x170	28	TUNKKI05S
10	800	90	300	140x170	46	TUNKKI10S

TRUCK JACKS

- two sizes 22 t and 35 t
- pressured air - hydraulic heavy weight jack
- required operating pressure 7-10 bar
- adjustment blocks of different sizes affecting the lifting height are included
- paint coated



WLL	Min. height	Max. height	Lifting height	Weight	Product code
t	mm	mm	mm	kg	
22	230	430	200	45,0	TUNKKI22AIR
35	245	490	245	46,0	TUNKKI35AIR

FLOOR JACK WITH ALUMINIUM BODY 1,5T

- high class light metal jack
- light and steady to use
- equipped with double cylinders
- bottom part of the lifting handle is padded



Packed in a retail carton.



WLL	Min. height	Max. height	Lifting height	Weight	Product code
t	mm	mm	mm	kg	
1,5	90	358	268	14,3	TUNKHA15AL

FLOOR JACK WITH ALUMINIUM BODY 2,5T

- high class light metal jack
- light and steady to use
- bottom part of the lifting handle is padded



Packed in a retail carton.



WLL	Min. height	Max. height	Lifting height	Weight	Product code
t	mm	mm	mm	kg	
2,5	98	480	382	25,2	TUNKHA25AL

FLOOR JACK 2,5T

- low-profile floor jack
- robust steel body
- paint coated



Packed in a retail carton.



WLL	Min. height	Max. height	Lifting height	Weight	Product code
t	mm	mm	mm	kg	
2,5	85	455	370	34,8	TUNKHA25MA

FLOOR JACKS 5T AND 10T

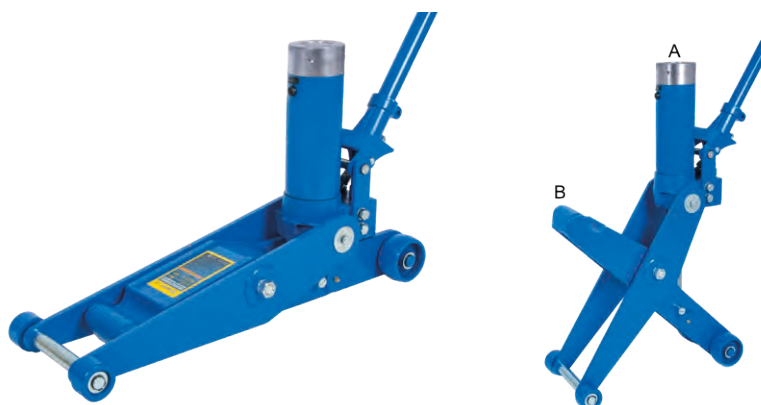
- long steel body
- lifting with either a handle or pedal
- lowering with a handle
- paint coated



WLL	Min. height	Max. height	Lifting height	Weight	Product code
t	mm	mm	mm	kg	
5	150	560	410	87,0	TUNKHA5PRO
10	160	560	400	146,0	TUNKHA10PRO

FORKLIFT JACK

- designed for forklift use
- two lifting points A and B
- paint coated



WLL lifting point A	WLL lifting point B	Max. height A	Max. height B	Min. height A	Min. height B	Weight	Product code
t	t	mm	mm	mm	mm	kg	
5	4	740	440	420	70	45,0	TUNKTRU45

7. DRUM HANDLING, LIFTING BEAMS, CRANE SCALES AND FORKLIFT ACCESSORIES

Drum clamps and slings

Crane beams

Crane scales

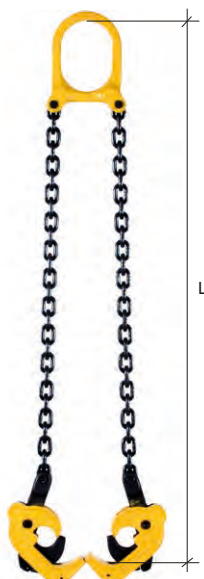
Load indicators

Forklift accessories

Snow chains



HARU DRUM VERTICAL LIFTER



- lifting vertically
- clamps are fixed to a 2-leg chain sling
- suitable for barrels of various sizes
- paint coated
- safety factor 4:1

WLL	Type	L-size	Weight	Product code
kg		mm	approx. kg	
1000	for 1 drum	690	3	TYNRAHARU1

DRUM HORIZONTAL LIFTERS



- lifting only horizontally
- adjusts automatically for different barrel sizes
- paint coated
- safety factor 4:1

WLL	Type	Weight	Product code
kg		approx. kg	
1000	for 1 drum	5	TYRA01
2000	for 2 drums	10	TYRA02

BARREL CLAMP FOR VERTICAL LIFTING



- lifting only vertically
- suitable for barrels of various sizes
- paint coated
- safety factor 4:1

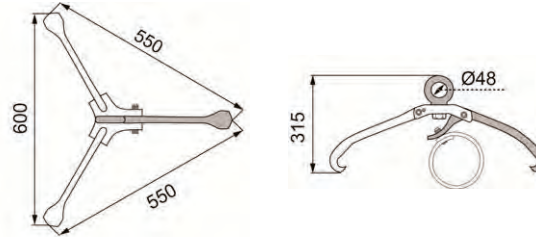
WLL	Type	Weight	Product code
kg		approx. kg	
600	for 1 drum	7	TYTAR600

DRUM GRAB



- for lifting 200 l drums
- quick and easy to use
- patented product
- suitable for closed or open steel and plastic drums
- drum grab will automatically keep its grip to the drum between lifts
- paint coated
- safety factor 5:1

WLL	Type	Jaw gap	Weight	Product code
kg		mm	kg	
1000	for 1 drum	570 - 610	8,0	TYNTAR1000



VERTICAL DRUM LIFTER



- for lifting and turning of 200 l standard drums
- easy and fast attachment with a locking latch
- can be locked into vertical and horizontal position

WLL	Weight	Product code
kg	kg	
360	20	TYNNOSTIN

FORKLIFT DRUM CARRIER



- for 200 l standard drum
- simple and quick attachment
- drum turning also possible from within a forklift
- paint coated

WLL	Space for fork tines	Weight	Product code
kg	mm	approx. kg	
365	180 x 60	70	TYNN365TRU

FORKLIFT DRUM CARRIER

- simple and quick attachment
- for handling steel barrels
- paint coated



WLL	Weight	Product code
kg	approx. kg	
450	57	TYNNTRU

MOBILE DRUM CARRIER

- for 200 l standard drum
- easy and quick to use
- paint coated
- with PU wheels



Drum can be moved in a vertical or horizontal position.



WLL	Weight	Product code
kg	approx. kg	
250	45	TYVA250

BARREL BASE

- for storing and handling drums
- solid steel structure



WLL	Inner dimension	Height	Wheel diameter	Weight	Product code
kg	mm	mm	mm	kg	
300	598	157	75	9,5	TYSIALU

SUMP PALLETS

- for storing 200 l drums
- fork holes for safe transportation
- hot dip galvanized grate



Volume	No. of drums	Height	Width	Depth	Weight	Product code
l		mm	mm	mm	kg	
210	1	430	860	860	60	VALUALLAS200
230	2	430	1340	850	75	VALUALLAS400
280	4	300	1250	1340	120	VALUALLAS800

Delivery time 4-5 weeks.

LIFTING BEAMS

- available in multiple different types according to customers needs
- lifting beam types A and B as standard
- can be equipped with shackles and different types of hooks
- paint coated
- all beams delivered in 3-5 weeks

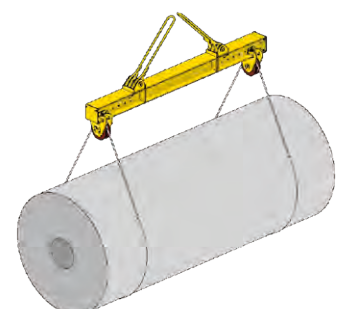
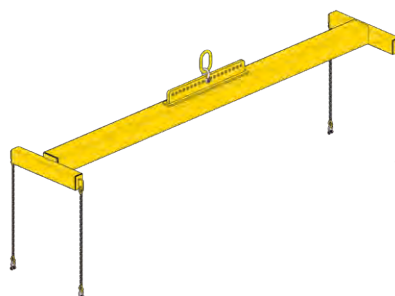
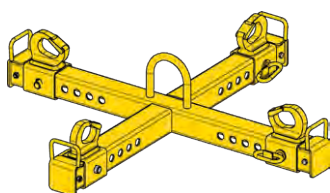
MODEL A



MODEL B

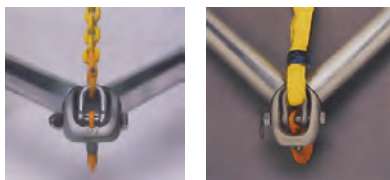


SPECIAL TYPE LIFTING BEAMS



ALUMINIUM LIFTING FRAMES

- collapsible aluminium lifting frame
- can be stored in a small space when dismantled
- easy and quick to assemble
- perfect for e.g. lifting boats
- the frame is also available as a plain beam model without hooks and roundsling

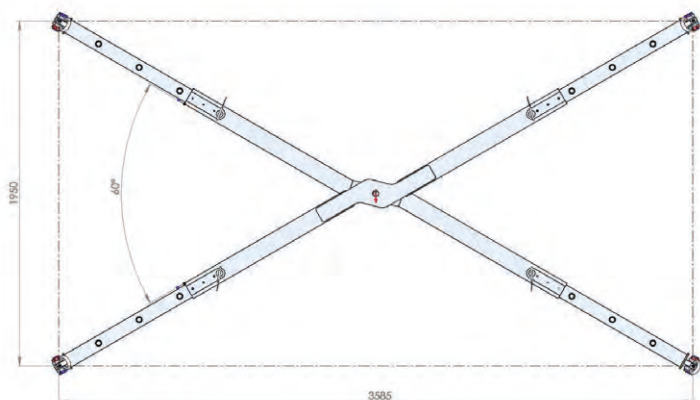
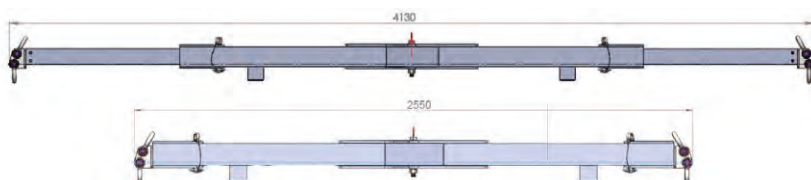


Size m	WLL kg	Lifting angle	Height m	Sling length m	Weight kg	Product code
3,0 x 3,0	7000	110	1,5	2,5	42	NOKE733AL
3,0 x 2,4	7000	98	1,7	2,5	38	NOKE7324AL
2,4 x 2,4	7000	82	2,0	2,5	35	NOKE72424AL

Delivery time 1-2 weeks.

4-LEG TELESCOPIC LIFTING BEAM

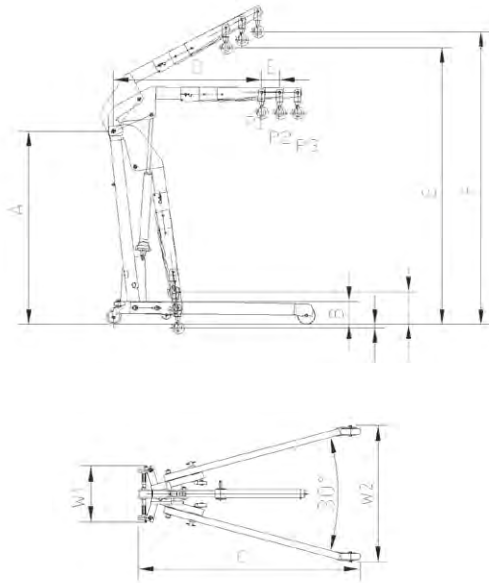
- 4-leg collapsible lifting beam
- material aluminium
- can be equipped with shackles
- equipped with standing legs so the beam can be extended easily on the ground
- EN 13155



WLL kg	Width min. m	Width max. m	Weight kg	Product code
10000	2,5	4,0	68	NOSPXALU10

FOLDABLE BEAM LIFTS

- jib can be adjusted longitudinally
- chrome coated cylinders
- equipped with overload protection
- collapsible, can be transported e.g. in a van
- paint coated



Beam is equipped with an adjustable jib extension.

Lowering clutch is equipped with a function that automatically stops lowering if user lifts one's hand off the lowering clutch.

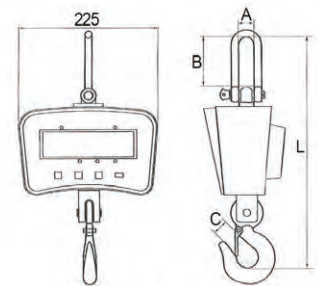


Max. load at different jib lengths (kg)			Dimensions									Weight kg	Product code
P1	P2	P3	mm										
A	B	C	D	E	F	G	W1	W2					
500	425	350	1410	165	1510	895	102	2120	1960	460	948	75	PUNOS500PROKT
1000	800	700	1597	90	1749	1231	150	2450	2320	460	1100	115	PUNOS1000PROKT
2000	1700	1500	1626	208	1911	1293	150	2490	2330	590	1170	165	PUNOS2000PROKT

SMALL CRANE SCALES



- built-in rechargeable batteries with operating time of approx. 100 hours at one charge
- equipped with wireless remote control with reset, hold, tare, unit change and switch off
- clear LCD screen
- precision class OIML III and protection class IP54
- delivery does not include an individual calibration certificate

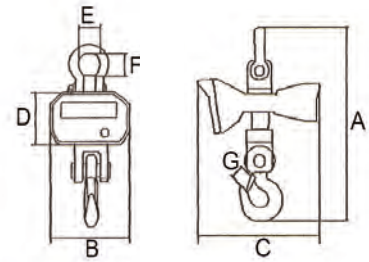


Max. load kg	Display accuracy kg	A mm	B mm	C mm	L mm	Weight approx. kg	Product code
1000	0,50	25	75	20	335	4,2	KV1ABT

CRANE SCALES



- also available for bigger loads
- battery charger included
- operating time at one charge is approx. 100 hours
- equipped with wireless remote control with reset, hold, tare, unit change and switch off
- precision class OIML III and protection class IP54
- delivery does not include an individual calibration certificate



Max. load kg	Display accuracy kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight approx. kg	Product code
3000	1,00	550	230	340	150	60	80	40	17,0	KV3ABT
5000	2,00	690	230	340	150	100	120	50	25,0	KV5ABT
10000	5,00	820	230	340	150	100	120	55	34,0	KV10ABT
20000	10,00	1120	230	360	155	140	220	90	67,0	KV20ABT

CRANE SCALE / DIGITAL LOAD INDICATOR

- can be used normally as a crane scale or for example to measure pulling power
- LCD screen
- uses AA batteries, operating time is over 200 h
- functions: reset, taring, hold, automatic power off, battery life display, overload warning, switching measurement unit
- can be equipped with shackle, hook etc. (not included in the delivery)
- delivery does not include an individual calibration certificate
- safety factor 4:1



3000 - 10000 kg



20000 kg

Max. load kg	Accuracy kg	Material	Width mm	Height mm	Depth mm	Hole diam. mm	A mm	Suitable shackle	Weight kg	Product code
3000	1,00	Aluminum	90	230	30	27	52	SAK47PLBP	1,7	KV3KI
5000	2,00	Stainless steel	90	230	30	32	67	SAK65PLBP	3,4	KV5KI
10000	5,00	Stainless steel	90	280	48	32	93	SAK120PLBP	6,7	KV10KI
20000	10,00	Alloy steel	90	350	60	50	140	SAK250PLBP	9,0	KV20KI

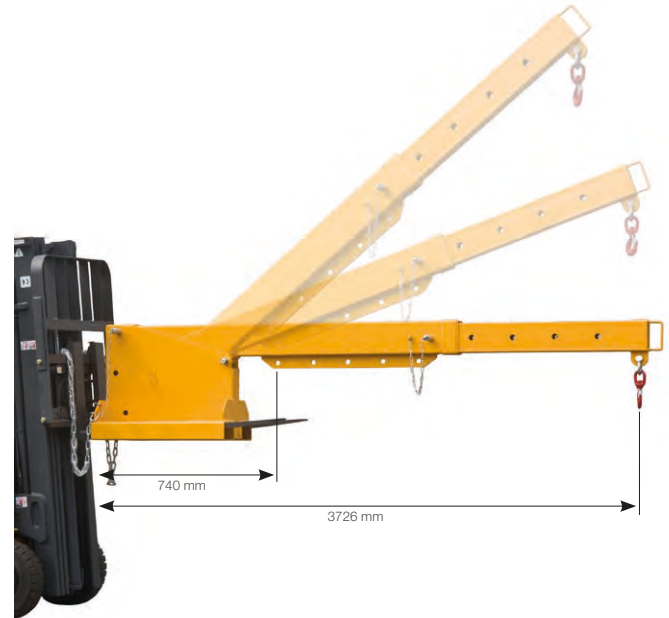
ADJUSTABLE CRANE

- enables the use of a forklift as a crane
- three different lifting angles
- quick attachment to forklift's forks
- location of the hook is adjustable between 980 – 3700 mm
- rotating latch hook as standard
- pay attention also to the forklift's lifting capacity while operating with the crane

WLLs

Hook location, beam folded up mm	690	897	1105	1312	1520	1727	1935	2150	2357	2565	2772	2980	3187	3395
WLL kg	3217	2476	2009	1691	1460	1285	1147	1033	942	865	800	745	695	654

Hook location, beam straightened mm	740	969	1198	1427	1656	1885	2114	2352	2581	2810	3039	3268	3497	3726
WLL kg	3000	2291	1853	1556	1341	1178	1050	944	860	790	730	679	635	596



WLL kg	Forklift's fork max. size mm	Weight kg	Product code
596 - 3217	80 x 160	230	TRUKPU3000

LIFTING ADAPTERS

Lifting adapters enable the use of a forklift as a crane. All models can be quickly attached to the forklift's forks.

TRUNP15SS



TRUNP2.52 / TRUNP5
Rotating latch hook as standard.

WLL kg	Forklift's fork max. width x height mm	Weight kg	Product code
2500	145 x 55	28	TRUNP2.52
5000	190 x 90	49	TRUNP5
1500	100 x 50		TRUNP15SS

MAN BASKET



You will find safety harnesses and ropes for safety cage working on product group 21.

- quick attachment to forklift's forks
- base size approx. 1100 + 1000 mm
- lockings to forklift's forks
- forklift's lifting capacity must always be checked prior to lifting!

Capacity kg	Base size mm	Weight kg	Product code
400	1100 x 1000	140	TRUHEKO

EXTENSION FORKS



- easy and quick way to increase the length of forklift's forks
- extremely strong and solid structure
- structure prevents the extension forks from sliding

Length mm	Forklift's fork max. size mm	Product code (1 pc)
1800	40x100	TRUJA401001800
1800	45X120	TRUJA451201800
1800	50X150	TRUJA501501800
2000	40X100	TRUJA401002000
2000	45X120	TRUJA451202000
2000	50X150	TRUJA501502000
2200	40X100	TRUJA401002200
2200	50X125	TRUJA501252200
2200	60X150	TRUJA601502200
2400	50X125	TRUJA501252400

Note!
The original forks of the forklift must be at least 60 % of the length of the extension forks!

Delivery time 3-5 days.

SNOW CHAINS FOR FORKLIFTS

- driving is smooth due to the compactness of the chain
- chain is easy and quick to assemble
- chains on the tract are square-shaped without spikes, thus making it possible to drive also indoors



Tyre size	Material strength mm	Weight kg/pair	Product code (1 pc)
12.00-20	7,0	56,0	EOTRUCK1200207
250-15	5,7	23,0	EOTRUCK25015
250/70 -12, 27x10 -12, 28x9 -15, 8.15 -15	5,7	20,0	EOTRUCK28915
250/70 -12, 27x10 -12, 28x9 -15, 8.15 -15	7,0	26,0	EOTRUCK289157
300-15,32X12.1-15,12-16.5, 33/12.5-16	5,7	26,0	EOTRUCK30015
300-15,32X12.1-15,12-16.5	7,0	38,0	EOTRUCK300157
6.50-10	5,7	15,0	EOTRUCK65010
7.00-12	5,7	17,0	EOTRUCK70012
7.00-12	7,0	23,0	EOTRUCK700127
7.00-15,205-16,215/80-16	5,7	20,0	EOTRUCK70016
8.25-15	5,7	20,0	EOTRUCK82515
8.25-15, 245/70-19.5	7,0	35,0	EOTRUCK825157

Delivery time 3-5 days.

8. WINCHES

Electric winches 230 V / 380 V

Direct current winches 12 V / 24 V

Electric wire winches

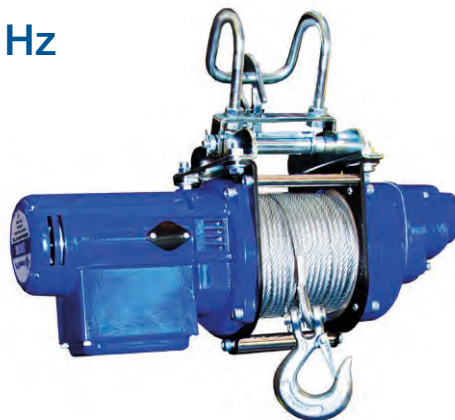
Trailer winches

Wire rope winches



ELECTRIC WINCH MINI 230 V / 50 Hz

- extremely lightweight but powerful winch with attachment hook
- equipped with overload protection
- carbon brush motor



Max. lifting and pulling capacity kg	Oper. voltage V	Steel wire diameter (mm) x length (m)	Motor kW	Speed m/min	Remote control cable m	Power cable m	ED%	Dimensions	Weight kg	Product code
								W x D x H mm		
500	230	6 x 30	1,30	7	2	0,5	40	500x250x330	19	VAVIN500MINI

ELECTRIC WINCHES 230 V AND 380 V / 50 Hz

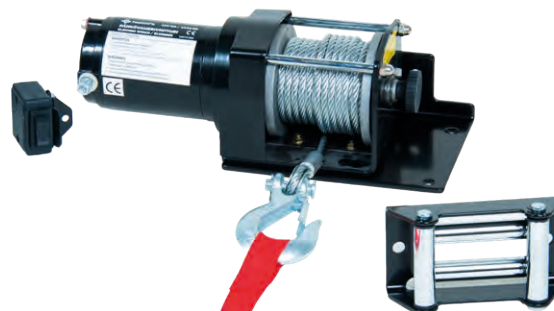
- quality and maintenance-free winches for professional use
- equipped with steel wire rope, rotating latch hook and automatic brake
- protection class IP54 / IP51 (VAVINTH300EL and VAVINTH500EL)



Max. lifting and pulling capacity kg	Oper. voltage V	Steel wire diameter (mm) x length (m)	Motor kW	Speed m/min	Remote control cable m	Power cable m	ED%	Dimensions	Weight kg	Product code
								W x D x H mm		
300	230	7 x 30	0,74	15	2	0,5	40	600x210x270	39	VAVINTH300EL
500	380	8 x 45	1,47	21	2	0,5	40	710x310x285	76	VAVINTH500EL
1000	380	10 x 45	2,20	12	2	0,5	40	1120x385x340	145	VAVINTH1000EL
2000	380	12 x 70	3,67	12	10	1,5	40	1290x590x520	392	VAVINTH2000EL

ELECTRIC WINCH FOR VEHICLES DC 12 V

- permanent magnetic motor
- equipped with steel wire rope and latch hook
- roll guide for wire rope and a separate attachment plate
- to be used with removable cable remote control
- wire free pull function



Max. pulling capacity kg	Oper. voltage V	Steel wire diameter (mm) x length (m)	Motor power kW	Pulling speed 0 kg - max m/min	Dimensions	Remote control cable length m	Weight kg	Product code
					W x D x H mm			
1133	12	4,8 x 12,0	0,75	3,2-1,0	283 x 99 x 105	2,8	6,5	VIATV1133

ELECTRIC WIRE HOIST FOR LIFTING AND PULLING 230 V / 50 Hz



Packed in a retail carton.

- lightweight and easy-to-use electric wire hoist for lifting and pulling
- two models 250 kg and 450 kg
- remote control
- equipped with swivel hook and overload detector

WLL	Operating voltage	Motor	Wire length	Weight	Product code
kg	V	kW	m	kg	
250	230	1,2	8,0	7,0	VANOS250
450	230	1,2	4,6	7,0	VANOS450

BATTERY OPERATED ELECTRIC WIRE HOIST FOR LIFTING AND PULLING 24 V



Packed in a retail carton.

- lightweight and easy-to-use electric wire hoist for lifting and pulling
- stepless power control
- 2 powerful 24 V NiMH batteries and AC power charger
- equipped with swivel hook and overload detector

WLL	Operating voltage	Motor	Battery	Wire length	Weight	Product code
kg	V	kW	mAh	m	kg	
450	24	0,75	2500	4,6	9,7	VANOS450A

TRAILER WINCHES



- high quality pulling winches for boat and car trailers
- 800 kg winch with two traction gears and mechanical lever brake
- 600 kg and 825 kg painted steel winches equipped with encased automatic brake

Material	Max. pulling capacity	Strap width	Strap length	Weight	Product code
	kg	mm	m	kg	
Steel, painted	600	50	8,0	4,4	VINT600AT
Steel, painted	825	50	8,0	8,0	VINT900AT
Steel, galvanized	800	50	8,0	4,9	VINT800H

SPARE STRAP TO WINCHES



- equipped with hook
- strap material polyester

Strap length	Breaking strength	Strap width	Product code
m	kg	mm	
8,0	2000	50	VV20008

WINCHES FOR LIFTING AND PULLING



High quality Tiger winch is suitable for both lifting and pulling. Product equipped with wire rope can be used for lifting and pulling and product with strap only for pulling. The winch is equipped with an automatic brake function which ensures that there is no risk of load falling or sliding. Brake system and components are encased and protected from dust and rain. Operating temperature -20 °C - (+)80 °C. Straps and wire ropes are also available separately as spare parts.

Also a stainless model with OCP-coating available.



WINCHES (wire rope or strap to be ordered separately)

Lifting capacity	Pulling capacity	Handle length	Gear ratio	Max. wire length	Max. strap length	Drum diameter	Weight	Product code	Product code
t	t	mm		m	m	mm	kg	Painted	Stainless
0,185	0,37	160	4,1:1	36	9,1	40	3,0	VINTT360	VINTT360R
0,275	0,55	210	4,1:1	23	8,5	50	3,5	VINTT550	VINTT550R
0,410	0,82	320	5:1	24	14,1	70	8,0	VINTT800	VINTT800R
0,600	1,20	320	10:1	18	10,6	82	10,5	VINTT1180	VINTT1180R

WIRE ROPES WITH LATCH HOOK (for lifting and pulling)

For winch	Length m	Diameter mm	Breaking strength	Product code
VINTT360	30	4,0	1270	VINTT360VA430
VINTT550	20	5,0	2000	VINTT550VA520
VINTT800	22	6,0	3000	VINTT800VA622
VINTT1180	16	8,0	4500	VINTT1180VA816

STRAPS WITH LATCH HOOK (only for pulling)

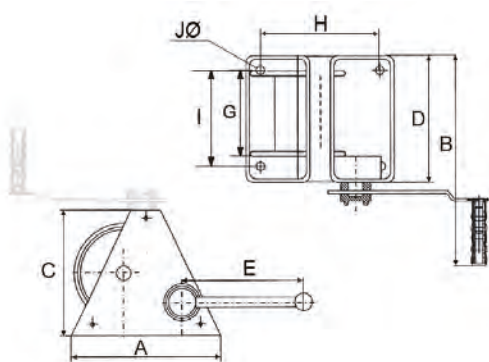
For winch	Length m	Diameter mm	Breaking strength	Product code
VINTT360	6	48	2068	VINTT48NA6
VINTT550	6	48	2068	VINTT48NA6
VINTT800	9	54	2864	VINTT54NA9
VINTT1180	9	60	4136	VINTT60NA9

STEEL WIRE ROPE WINCHES

- high class winches for professional use
- suitable for pulling and lifting
- two models, one with handle on the side of the winch and other with handle on top
- equipped with automatic friction brake that operates in both directions
- can be mounted in various ways, for example on the floor or wall
- delivered without wire (must be ordered separately)



Model	Max. load pulling	Max. load lifting	Max. wire diameter	Max. wire length on the drum	Weight (without wire)	Product code
	kg	kg	mm	m	kg	
Side handle	150	75	4	22	5,5	VAVIN150
Side handle	300	150	5	40	16,9	VAVIN250
Side handle	500	250	6,8	25	18,8	VAVIN500
Side handle	1000	500	9	25	38,0	VAVIN1000
Side handle	2000	1000	13	30	64,0	VAVIN2000
Top handle	250	125	5	20	10,0	VAVIN250Y
Top handle	500	250	6,8	25	17,0	VAVIN500Y
Top handle	1000	500	9	30	35,0	VAVIN1000Y



MEASUREMENTS

Product code	A mm	B mm	C mm	D mm	E mm	G mm	H mm	I mm	JØ mm
VAVIN150	180	325	150	150	350	102	152	112.5	8.5
VAVIN250	240	385	200	200	250	122	196	143	12
VAVIN500	240	385	200	200	250	122	200	145	12
VAVIN1000	412	485	300	300	350	195	367	235	17
VAVIN2000	500	585	325	350	350	285	436	326	20
VAVIN250Y	150	-	150+170	200	240	128	136/100	114	10.5
VAVIN500Y	180	-	180+180	260	240	182	183/130	141	12
VAVIN1000Y	300	-	300+190	300	340	198	247	186	17

WIRE ROPES FOR WINCHES, WITH SWIVEL LATCH HOOK



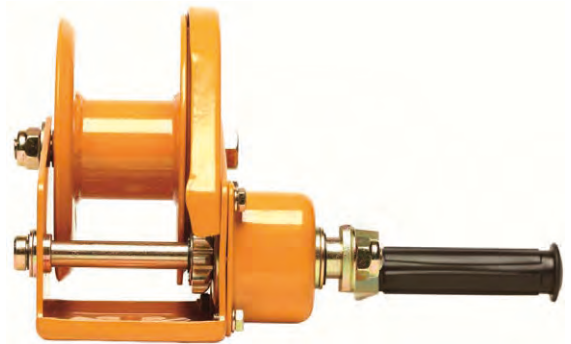
For winch kg	Length m	Wire diameter mm	Product code
150/250/300	12	4	VAVIN250VA412
500	14	6	VAVIN500VA614
1000	30	10	VAVIN100VA1030
2000	13	13	VAVIN200VA1330

Tiger winches are manufactured with over 50 years of experience and with high standards for different industries. Products are durable, reliable, safe to use and they meet the industry standards. All winches can be used for lifting purposes.

Here we are introducing few winch models that are available. Contact our sales and we will find a solution for your needs.



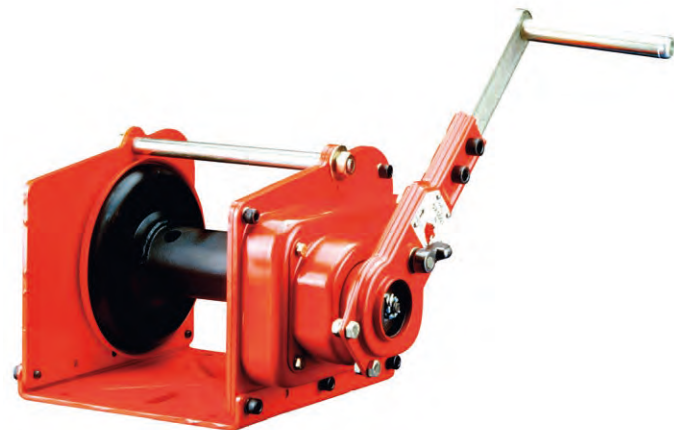
Entertainment 909 kg / 12 m
Available with one or two reels and with or without handle (two reel model in the picture). **Can be used for lifting.**



Silent model 360 / 550 / 800 / 1180 kg
Equipped with patented automatic braking system which guarantees a silent use. Suitable for using in schools, hospitals and theaters. **Can be used for lifting.**



Ceiling mountable 2270 kg / 11 m
With shared reel, which makes reeling possible from opposite directions with two wires. Equipped with brake which keeps the load in place. The brake and gears are protected from dust and rain. **Can be used for lifting.**



1000 kg / 25 m
Equipped with automatic brake which keeps the load in place. The brake and gears are protected from dust and rain. **Can be used for lifting.**

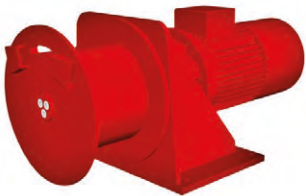
RED ROOSTER AIR COMPRESSED WINCHES



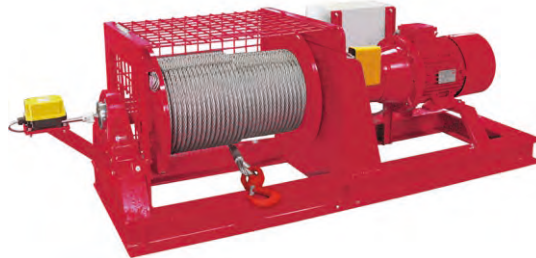
RED ROOSTER compressed air winches offer a wide selection for industrial and maritime use. All Red Rooster winches comply with ATEX 94/9/EC directive and may be used in areas and surroundings with danger of fire or explosion due to gases, chemicals or dust. Red Rooster winches operate mechanically with compressed air hence causing no sparks unlike electric hoists.

Red Rooster winches have been used and developed for 25 years and they are safe, easy to use and they function reliably even in difficult circumstances.

Note! In order to operate properly, winches require a high quality air compression network equipped with a moisture remover and lubrication system. The necessary components can be supplied with the product.



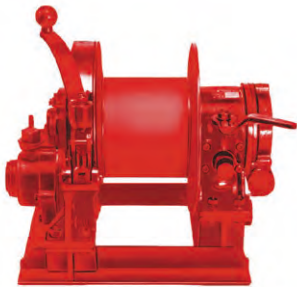
FD-series, 8 models
Max. workloads
800 - 5250 kg



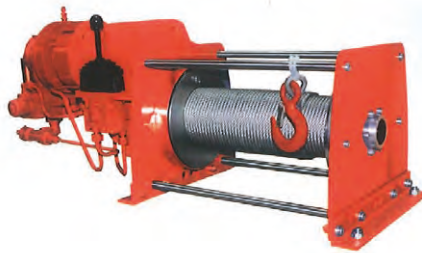
SB-series for lifting, 14 models
Max. workloads
1200 - 20000 kg



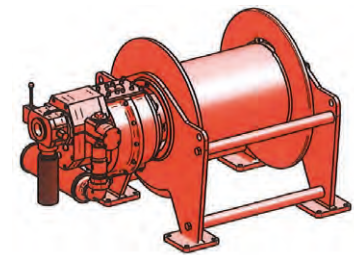
LV-series, 6 models
Max. workloads
250 - 2000 kg



RRI-series, 4 models
Max. workloads
500 - 2000 kg



PFW-L-series for lifting, 6 models
Max. workloads
500 - 3000 kg



OAW offshore -series, 14 models
Max. workloads
1955 - 14980 kg

**Ask for more about the winches from our sales!
Every product is tailored according to the customer's needs.**

9. LIFTING EYES

Grade 80

Stainless steel

Grade 100

Container lifting lugs

With ball bearings

Concrete element lifting

Bolttable / Weld-on



Instructions for using Haklift lifting points

In multiple leg lifting the angles are side angles, the angles between slings are correspondingly 0 – 90° (0-45°) and 90 – 120° (45-60°).

Lifting eyes with thread must always be tightened with a tool onto the object to be lifted. Avoid making it too tight, however.

If the lifter hook is attached directly to the lifting eye it must fit in a way that the load is directed towards the hook bottom, not the tip.

If a lifting eye with a long thread is used in an unthreaded hole and a nut on the other end, one must ensure that the hole diameter is max. 10 % bigger than the diameter of the thread of the lifting eye and that the nut is tightened carefully and its strength category is at least 8.8. (NS8P*, page 9-14, strength category 10.9) The screw must be so long that the entire length of the nut can be screwed to it.

With DIN 580 and DIN 582 lifting points the operating temperature is -20 - (+)200 °C.

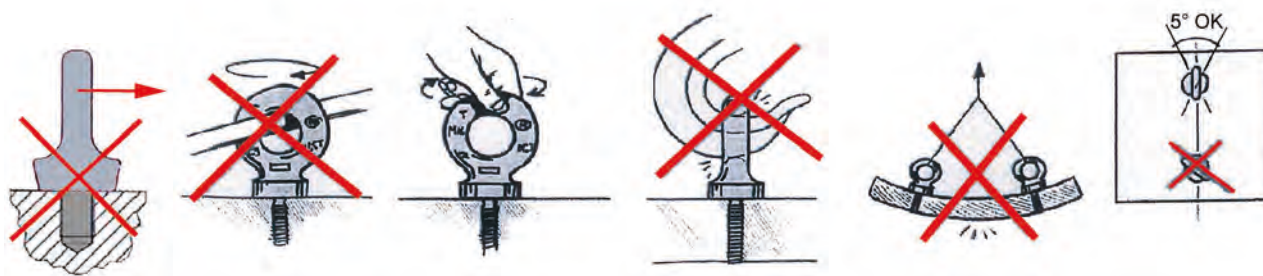
Minimum thread lengths for different materials when using screw eyes,
d = lifting eye thread diameter

Steel	Cast iron	Aluminium	Aluminium-Magnesium alloy
1 x d	1,25 x d	2 x d	2,5 x d

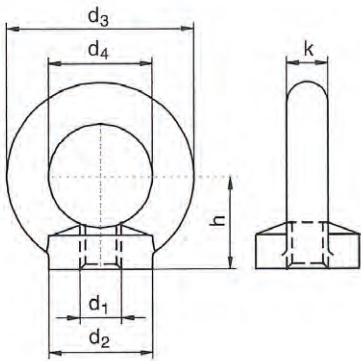
Grade 80 lifting eyes

Lifting eye must be attached by twisting with hand or using a tool suitable for the work so that the leg part of the eye touches the surface of the item being lifted with its whole plane. Do not exceed the tightening torque given.

Ensure that the lifting eye's arc is pointing towards the lifting direction. Also in multilegged lifts the eye arc must be towards the direction of the load. DIN 580 / DIN 582 type lifting eyes must not be loaded horizontally.



LIFTING EYE NUTS FOR VERTICAL LIFTING DIN 582



Size	d2	d3	d4	h	k	Pack. size pcs	Weight kg	Product code
d1	mm	mm	mm	mm	mm			
M 6	20	36	20	18	8	50	0.045	NSM06
M 8	20	36	20	18	8	50	0.05	NSM08
M10	25	45	25	22.5	10	50	0.09	NSM10
M12	30	54	30	26	12	25	0.16	NSM12
M14	35	63	35	30.5	14	25	0.24	NSM14
M16	35	63	35	30.5	14	10	0.24	NSM16
M18	40	72	40	35	16	10	0.36	NSM18
M20	40	72	40	35	16	10	0.36	NSM20
M22	45	81	45	40	18	1	0.58	NSM22
M24	50	90	50	45	20	1	0.72	NSM24
M27	50	90	50	45	20	1	0.70	NSM27
M30	65	108	60	55	24	1	1.32	NSM30
M33	65	108	60	55	24	1	1.30	NSM33
M36	75	126	70	65	28	1	2.08	NSM36
M39	75	126	70	65	28	1	2.02	NSM39
M42	85	144	80	75	32	1	3.11	NSM42
M45	85	144	80	75	32	1	3.04	NSM45
M48	100	166	90	85	38	1	5.02	NSM48
M52	100	166	90	85	38	1	4.95	NSM52
M56	110	184	100	95	42	1	6.69	NSM56
M64	120	206	110	105	48	1	9.30	NSM64

Larger sizes and inch sizes also available.

RETAIL-PACKED



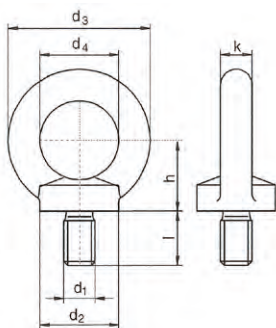
Retail packing pcs	Package size pcs	Product code
4	10	NSM06IP4
2	10	NSM08IP2
2	10	NSM10IP2
1	10	NSM12IP1

See also other retail-packed products starting on page 15-6.

Working load limits

Size	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
M6	0,06	not allowed	0,12	not allowed	0,042	not allowed	0,06	not allowed
M8	0,14	not allowed	0,28	not allowed	0,10	not allowed	0,14	not allowed
M10	0,23	not allowed	0,46	not allowed	0,17	not allowed	0,23	not allowed
M12	0,34	not allowed	0,68	not allowed	0,24	not allowed	0,34	not allowed
M14	0,34	not allowed	0,68	not allowed	0,24	not allowed	0,34	not allowed
M16	0,70	not allowed	1,40	not allowed	0,50	not allowed	0,70	not allowed
M18	0,70	not allowed	1,40	not allowed	0,50	not allowed	0,70	not allowed
M20	1,20	not allowed	2,40	not allowed	0,83	not allowed	1,20	not allowed
M22	1,20	not allowed	2,40	not allowed	0,83	not allowed	1,20	not allowed
M24	1,80	not allowed	3,60	not allowed	1,27	not allowed	1,80	not allowed
M27	2,50	not allowed	5,00	not allowed	1,78	not allowed	2,50	not allowed
M30	3,20	not allowed	6,40	not allowed	2,28	not allowed	3,20	not allowed
M33	3,20	not allowed	6,40	not allowed	2,28	not allowed	3,20	not allowed
M36	4,60	not allowed	9,20	not allowed	3,28	not allowed	4,60	not allowed
M39	4,60	not allowed	9,20	not allowed	3,28	not allowed	4,60	not allowed
M42	6,30	not allowed	12,60	not allowed	4,50	not allowed	6,30	not allowed
M45	6,30	not allowed	12,60	not allowed	4,50	not allowed	6,30	not allowed
M48	8,60	not allowed	17,20	not allowed	6,10	not allowed	8,60	not allowed
M52	8,60	not allowed	17,20	not allowed	6,10	not allowed	8,60	not allowed
M56	11,50	not allowed	23,00	not allowed	8,30	not allowed	11,50	not allowed
M64	16,00	not allowed	32,00	not allowed	11,00	not allowed	16,00	not allowed
M72	20,00	not allowed	40,00	not allowed	14,28	not allowed	20,00	not allowed
M80	28,00	not allowed	56,00	not allowed	20,00	not allowed	28,00	not allowed
M100	40,00	not allowed	80,00	not allowed	28,57	not allowed	40,00	not allowed

LIFTING EYE SCREWS FOR VERTICAL LIFTING DIN 580



Size	d2	d3	d4	h	k	l	Pack. size pcs	Weight kg	Product code
d1	mm	mm	mm	mm	mm	mm			
M 6	20	36	20	18	8	13	50	0.045	NSR06
M 8	20	36	20	18	8	13	50	0.05	NSR08
M10	25	45	25	22.5	10	17	50	0.09	NSR10
M12	30	54	30	26	12	20.5	25	0.16	NSR12
M14	35	63	35	30.5	14	27	25	0.24	NSR14
M16	35	63	35	30.5	14	27	10	0.24	NSR16
M18	40	72	40	35	16	30	10	0.36	NSR18
M20	40	72	40	35	16	30	10	0.36	NSR20
M22	45	81	45	40	18	35	1	0.58	NSR22
M24	50	90	50	45	20	36	1	0.72	NSR24
M27	50	90	50	45	20	36	1	0.70	NSR27
M30	65	108	60	55	24	45	1	1.32	NSR30
M33	65	108	60	55	24	45	1	1.30	NSR33
M36	75	126	70	65	28	54	1	2.08	NSR36
M39	75	126	70	65	28	54	1	2.02	NSR39
M42	85	144	80	75	32	63	1	3.11	NSR42
M45	85	144	80	75	32	63	1	3.04	NSR45
M48	100	166	90	85	38	68	1	5.02	NSR48
M52	100	166	90	85	38	68	1	4.95	NSR52
M56	110	184	100	95	42	78	1	6.69	NSR56
M64	120	206	110	105	48	90	1	9.30	NSR64

Larger sizes and inch sizes also available.

RETAIL-PACKED



Retail packing pcs	Package size pcs	Product code
4	10	NSR06IP4
2	10	NSR08IP2
2	10	NSR10IP2
1	10	NSR12IP1

See also other retail-packed products starting on page 15-6.

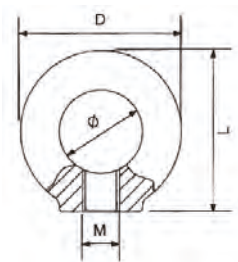
Working load limits

Size	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
M6	0,08	not allowed	0,16	not allowed	0,05	not allowed	0,08	not allowed
M8	0,14	not allowed	0,28	not allowed	0,10	not allowed	0,14	not allowed
M10	0,23	not allowed	0,46	not allowed	0,17	not allowed	0,23	not allowed
M12	0,34	not allowed	0,68	not allowed	0,24	not allowed	0,34	not allowed
M14	0,34	not allowed	0,68	not allowed	0,24	not allowed	0,34	not allowed
M16	0,70	not allowed	1,40	not allowed	0,50	not allowed	0,70	not allowed
M18	0,70	not allowed	1,40	not allowed	0,50	not allowed	0,70	not allowed
M20	1,20	not allowed	2,40	not allowed	0,83	not allowed	1,20	not allowed
M22	1,20	not allowed	2,40	not allowed	0,83	not allowed	1,20	not allowed
M24	1,80	not allowed	3,60	not allowed	1,27	not allowed	1,80	not allowed
M27	2,50	not allowed	5,00	not allowed	1,78	not allowed	2,50	not allowed
M30	3,20	not allowed	6,40	not allowed	2,28	not allowed	3,20	not allowed
M33	3,20	not allowed	6,40	not allowed	2,28	not allowed	3,20	not allowed
M36	4,60	not allowed	9,20	not allowed	3,28	not allowed	4,60	not allowed
M39	4,60	not allowed	9,20	not allowed	3,28	not allowed	4,60	not allowed
M42	6,30	not allowed	12,60	not allowed	4,50	not allowed	6,30	not allowed
M45	6,30	not allowed	12,60	not allowed	4,50	not allowed	6,30	not allowed
M48	8,60	not allowed	17,20	not allowed	6,10	not allowed	8,60	not allowed
M52	8,60	not allowed	17,20	not allowed	6,10	not allowed	8,60	not allowed
M56	11,50	not allowed	23,00	not allowed	8,30	not allowed	11,50	not allowed
M64	16,00	not allowed	32,00	not allowed	11,00	not allowed	16,00	not allowed
M72	20,00	not allowed	40,00	not allowed	14,28	not allowed	20,00	not allowed
M80	28,00	not allowed	56,00	not allowed	20,00	not allowed	28,00	not allowed
M100	40,00	not allowed	80,00	not allowed	28,57	not allowed	40,00	not allowed

LIFTING EYES FOR ALL LIFTING DIRECTIONS, GRADE 80

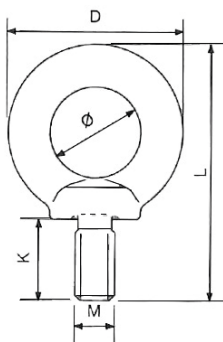
Lifting eye nut

- grade 80
- WLL for vertical lifting is marked on the eye
- in lateral lifting the load is 25% of the vertical lifting WLL
- powder coated
- safety factor 4:1



Size	D	Ø	L	Weight	Product code
M	mm	mm	mm	kg	
M6	36	20	36	0,05	NS8M06
M8	36	20	36	0,05	NS8M08
M10	45	25	45	0,09	NS8M10
M12	54	30	53	0,16	NS8M12
M14	63	35	62	0,24	NS8M14
M16	63	35	62	0,24	NS8M16
M20	72	40	71	0,36	NS8M20
M24	90	50	90	0,72	NS8M24
M30	108	60	109	1,32	NS8M30
M36	126	70	128	2,08	NS8M36
M42	144	80	147	3,11	NS8M42
M48	166	90	168	5,02	NS8M48

Lifting eye screw



Size	D	K	Ø	L	Weight	Product code
M	mm	mm	mm	mm	kg	
M6	28	13	16	42	0,05	NS8R06
M8	39	15	20	51	0,06	NS8R08
M10	45	18	25	63	0,11	NS8R10
M12	54	22	30	75	0,18	NS8R12
M14	63	28	35	88	0,28	NS8R14
M16	63	28	35	88	0,28	NS8R16
M20	72	30	40	101	0,45	NS8R20
M24	90	38	50	128	0,87	NS8R24
M30	108	45	60	154	1,66	NS8R30
M36	126	55	70	183	2,65	NS8R36
M42	144	65	80	212	4,03	NS8R42
M48	166	70	90	238	6,38	NS8R48

Working load limits

Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M6	0,40	0,15	0,80	0,30	0,21	0,15	0,32	0,23	3,5
M8	1,00	0,40	2,00	0,80	0,56	0,40	0,84	0,60	8,0
M10	1,00	0,40	2,00	0,80	0,56	0,40	0,84	0,60	16,0
M12	2,00	0,75	4,00	1,50	1,05	0,75	1,58	1,13	28,0
M14	4,00	1,50	8,00	3,00	2,10	1,50	3,15	2,25	70,0
M16	4,00	1,50	8,00	3,00	2,10	1,50	3,15	2,25	70,0
M20	6,00	2,30	12,00	4,60	3,22	2,30	4,83	3,45	135,0
M24	8,00	3,20	16,00	6,40	4,48	3,20	6,72	4,80	230,0
M30	12,00	4,50	24,00	9,00	6,30	4,50	9,45	6,75	465,0
M36	16,00	7,00	32,00	14,00	9,80	7,00	14,70	10,50	814,0
M42	24,00	9,00	48,00	18,00	12,60	9,00	18,90	13,50	1304,0
M48	32,00	12,00	64,00	24,00	16,80	12,00	25,20	18,00	1981,0

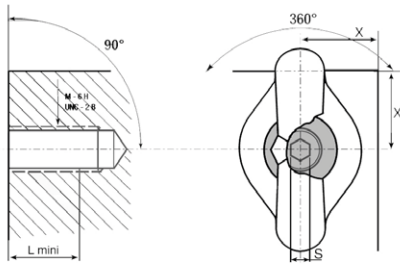
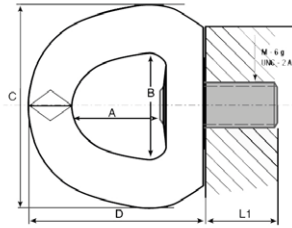
BOLTABLE LIFTING EYE SCREWS WITH SWIVEL, GRADE 80

- grade 80
- for lifting in all positions
- can be turned to the direction of the load
- separate attachment bolt
- paint coated
- safety factor 5:1



Models made of stainless steel also available, ask for more from our sales.

- M12 - 0,55 t
- M16 - 1,20 t
- M20 - 1,50 t
- M24 - 2,50 t



Size	L1	S	A	B	C	D	Weight	Product code
	mm	mm	mm	mm	mm	mm	kg	
M8	14	4	30	34	60	57	0,24	*NS8R08SEB
M10	17	4	30	34	60	57	0,24	*NS8R10SEB
M12	21	4	30	34	60	57	0,24	*NS8R12SEB
M16	27	8	38	45	90	79	0,80	*NS8R16SEB
M20	30	8	38	45	90	79	0,80	*NS8R20SEB
M24	36	14	58	70	134	115	2,60	*NS8R24SEB
M30	45	14	58	70	134	115	2,70	*NS8R30SEB
M36	54	14	88	94	190	166	8,00	*NS8R36SEB

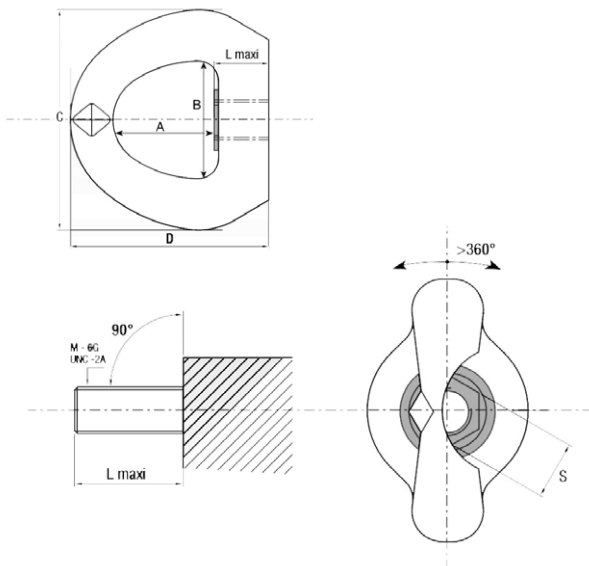
*items marked with an asterisk delivery time 1-2 weeks

Working load limits

Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M8	0,30	0,30	0,60	0,60	0,42	0,30	0,63	0,45	8
M10	0,60	0,60	1,20	1,20	0,84	0,60	1,26	0,90	10
M12	1,00	1,00	2,00	2,00	1,40	1,00	2,10	1,50	15
M16	1,60	1,60	3,20	3,20	2,24	1,60	3,36	2,40	50
M20	2,50	2,50	5,00	5,00	3,50	2,50	5,25	3,75	100
M24	4,00	4,00	8,00	8,00	5,60	4,00	8,40	6,00	160
M30	6,30	6,30	12,60	12,60	8,82	6,30	13,23	9,45	250
M36	10,00	10,00	20,00	20,00	14,00	10,00	21,00	15,00	320

BOLTABLE LIFTING EYE NUTS WITH SWIVEL, GRADE 80

- grade 80
- for lifting in all positions
- can be turned to the direction of the load
- separate attachment bolt
- paint coated
- safety factor 5:1



Size	L max. mm	S mm	A mm	B mm	C mm	D mm	Weight kg	Product code
M8	21	21	38	45	90	78	0,8	*NS8M08FE.SEB
M10	21	21	38	45	90	78	0,8	*NS8M10FE.SEB
M12	21	21	38	45	90	78	0,8	*NS8M12FE.SEB
M16	21	21	38	45	90	78	0,8	*NS8M16FE.SEB
M20	31	36	58	70	134	115	2,5	*NS8M20FE.SEB
M24	45	40	88	94	190	166	8,0	*NS8M24FE.SEB
M30	45	40	88	94	190	166	8,0	*NS8M30FE.SEB
M36	45	40	88	94	190	166	8,0	*NS8M36FE.SEB

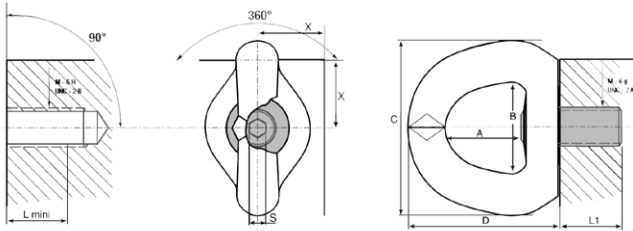
*items marked with an asterisk delivery time 1-2 weeks

Working load limits

Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M8	0,30	0,30	0,60	0,60	0,42	0,30	0,63	0,45	6
M10	0,60	0,60	1,20	1,20	0,84	0,60	1,26	0,90	10
M12	1,00	1,00	2,00	2,00	1,40	1,00	2,10	1,50	15
M16	1,60	1,60	3,20	3,20	2,24	1,60	3,36	2,40	50
M20	2,50	2,50	5,00	5,00	3,50	2,50	5,25	3,75	100
M24	4,00	4,00	8,00	8,00	5,60	4,00	8,40	6,00	160
M30	6,30	6,30	12,60	12,60	8,82	6,30	13,23	9,45	250
M36	10,00	10,00	20,00	20,00	14,00	10,00	21,00	15,00	320

INCH THREADED BOLTABLE LIFTING EYES WITH SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 80









- grade 80
- inch threaded
- for lifting in all positions
- eye turns to the direction of the load
- paint coated
- safety factor 5:1





Size	L1	S	A	B	C	D	Weight	Product code
	mm	mm	mm	mm	mm	mm	kg	
UNC 3/8"	16	4	30	34	60	57	0,24	*NS8R3/8
UNC 1/2"	21	4	30	34	60	57	0,24	*NS8R1/2
UNC 5/8"	27	8	38	45	90	78	0,80	*NS8R5/8
UNC 3/4"	30	8	38	45	90	78	0,80	*NS8R3/4
UNC 1"	36	14	58	70	134	115	2,60	*NS8R1
UNC 1"1/4	45	14	58	70	134	115	2,60	*NS8R1 14
UNC 1"1/2	62	14	88	94	190	166	8,00	*NS8R112

*items marked with an asterisk delivery time 1-2 weeks

Working load limits (lbs)

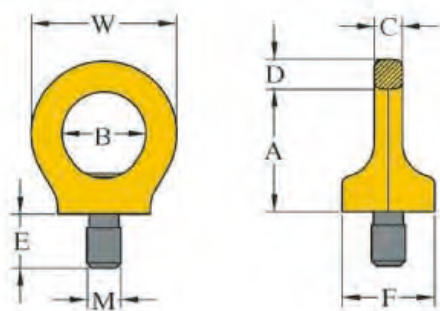
Size	 WLL lbs	 WLL lbs	 WLL lbs	 WLL lbs	 WLL lbs 0 - 45°	 WLL lbs 45 - 60°	 WLL lbs 0 - 45°	 WLL lbs 45 - 60°	Tightening torque max. foot lbs.
UNC 3/8"	1200	1200	2400	2400	1680	1200	2520	1800	8 F.L
UNC 1/2"	2200	2200	4400	4400	3080	2200	4620	3300	12 F.L
UNC 5/8"	3800	3800	7600	7600	5320	3800	7980	5700	40 F.L
UNC 3/4"	5500	5500	11000	11000	7700	5500	11550	8250	80 F.L
UNC 1"	10000	10000	20000	20000	14000	10000	21000	15000	125 F.L
UNC 1"1/4	14000	14000	28000	28000	19600	14000	29400	21000	200 F.L
UNC 1"1/2	20000	20000	40000	40000	28000	20000	42000	30000	300 F.L

Working load limits (t)

Size	 WLL t	 WLL t	 WLL t	 WLL t	 WLL t 0 - 45°	 WLL t 45 - 60°	 WLL t 0 - 45°	 WLL t 45 - 60°	Tightening torque max. Nm
UNC 3/8"	0,54	0,54	1,08	1,08	0,76	0,54	1,14	0,81	10
UNC 1/2"	0,99	0,99	1,99	1,99	1,39	0,99	2,09	1,49	16
UNC 5/8"	1,72	1,72	3,44	3,44	2,41	1,72	3,62	2,58	54
UNC 3/4"	2,49	2,49	4,99	4,99	3,49	2,49	5,24	3,74	108
UNC 1"	4,53	4,53	9,07	9,07	6,35	4,53	9,52	6,80	169
UNC 1"1/4	6,35	6,35	12,7	12,7	8,89	6,35	13,3	9,52	271
UNC 1"1/2	9,07	9,07	18,1	18,1	12,7	9,07	19,0	13,6	406









BOLTABLE LIFTING EYE SCREWS FOR ALL LIFTING DIRECTIONS, GRADE 100

- grade 100
- for lifting in all positions
- can be turned to the direction of the load
- bolt key integrated to the lifting eye
- paint coated
- safety factor 4:1



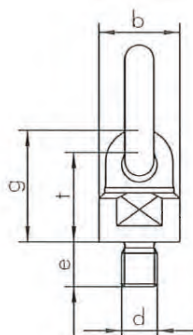
Size	A	B	C	D	E	F	S	W	Weight	Product code
	mm	mm	mm	mm	mm	mm	mm	mm	kg	
M10	36	25	8	11	15	25	6	44	0.1	NS8R10LY
M12	42	30	10	13	18	33	8	52	0.2	NS8R12LY
M16	51	35	14	13	24	35	10	61	0.3	NS8R16LY
M20	57	40	16	17	30	44	12	70	0.6	NS8R20LY
M24	70	48	19	21	36	52	14	84	1.0	NS8R24LY
M30	86	60	24	26	45	62	17	108	1.8	NS8R30LY
M36	103	72	29	32	54	78	22	130	3.2	NS8R36LY
M42	123	82	34	32	63	88	24	147	5,0	NS8R42LY
M48	144	94	38	37	72	104	27	168	7,6	NS8R48LY
M56	147	102	40	43	84	124	27	178	9,2	NS8R56LY
M64	147	102	40	43	95	124	27	178	10,0	NS8R64LY

Working load limits

Size	 WLL t	 WLL t	 WLL t	 WLL t	 WLL t 0 - 45°	 WLL t 45 - 60°	 WLL t 0 - 45°	 WLL t 45 - 60°
M10	1,00	0,40	2,00	0,80	0,56	0,40	0,84	0,60
M12	2,00	0,75	4,00	1,50	1,05	0,75	1,58	1,13
M16	4,00	1,50	8,00	3,00	2,10	1,50	3,15	2,25
M20	6,00	2,30	12,00	4,60	3,22	2,30	4,83	3,45
M24	8,00	3,20	16,00	6,40	4,48	3,20	6,72	4,80
M30	12,00	4,50	24,00	9,00	6,30	4,50	9,45	6,75
M36	16,00	7,00	32,00	14,00	9,80	7,00	14,70	10,50
M42	24,00	9,00	48,00	18,00	12,60	9,00	18,90	9,00
M48	32,00	12,00	64,00	24,00	16,80	12,00	25,00	12,00
M56	32,00	12,00	64,00	24,00	16,80	12,00	25,00	12,00
M64	32,00	12,00	64,00	24,00	16,80	12,00	25,00	12,00

LIFTING EYE SCREWS WITH BALL BEARING SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 80

- grade 80
- eye turns to the direction of the load
- paint coated
- safety factor 4:1
- also available with longer 120 mm thread



With long thread



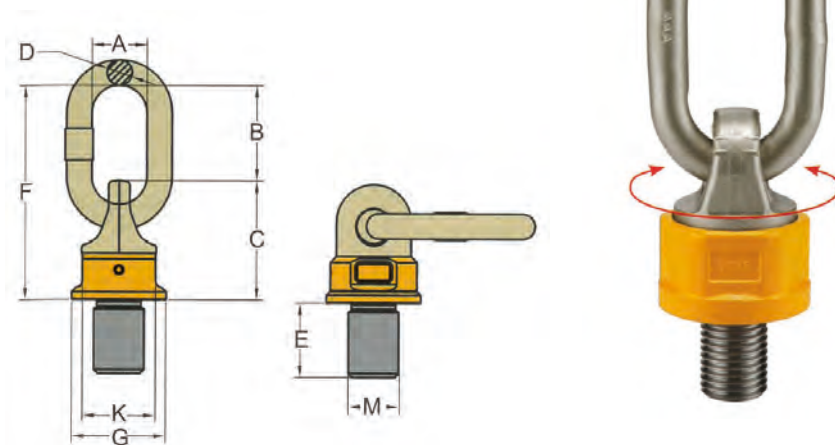
Size	b	e	g	t	Inner dimensions of the eye thickness x height x width mm	Weight kg	Product code	Product code with 120 mm thread
d	mm	mm	mm	mm				
M10	36	18	51	41	14 x 55 x 30	0,43	NS8KL1003	-
M12	36	18	51	41	14 x 55 x 30	0,44	NS8KL1205	-
M16	36	20	52	42	14 x 55 x 30	0,46	NS8KL161	NS8KL161120
M20	50	30	68	56	16 x 70 x 34	0,96	NS8KL202	NS8KL202120
M24	57	40	78	65,5	18 x 85 x 37	1,45	NS8KL2432	NS8KL243120
M30	66	35	97	80,5	20 x 85 x 37	2,17	NS8KL3053	NS8KL305120
M30	80	35	112	92	22 x 115 x 50	3,57	NS8KL308	NS8KL308120
M36	80	50	109	89,5	22 x 115 x 50	4,17	NS8KL368	NS8KL368120
M42	80	50	109	89,5	25 x 115 x 50	3,67	NS8KL4210	-
M45	80	60	109	89,5	25 x 115 x 50	4,17	NS8KL4510	-
M48	80	50	109	89,5	25 x 115 x 50	4,02	NS8KL4810	-
M56	117	84	310	280	32 x 152 x 70	11,6	NS8KL5615	-
M64	117	95	310	280	32 x 152 x 70	12,6	NS8KL6415	-

Working load limits

Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M10	0,90	0,45	1,80	0,90	0,63	0,45	0,95	0,68	10-16
M12	1,00	0,5	2,00	1,00	0,70	0,50	1,05	0,75	15-28
M16	2,00	1,10	4,00	2,20	1,54	1,10	2,31	1,65	45-70
M20	4,00	2,00	8,00	4,00	2,80	2,00	4,20	3,00	75-130
M24	6,30	3,20	12,60	6,40	4,48	3,20	6,72	4,80	90-130
M30	10,60	5,30	21,20	10,60	7,42	5,30	11,13	7,95	230-400
M30	11,80	8,00	23,60	16,00	11,20	8,00	16,80	12,00	230-400
M36	11,80	8,00	23,60	16,00	11,20	8,00	16,80	12,00	270-600
M42	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00	270-700
M45	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00	350-800
M48	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00	350-800
M56	25,00	15,00	50,00	30,00	21,00	15,00	31,50	22,50	350-900
M64	25,00	15,00	50,00	30,00	21,00	15,00	31,50	22,50	350-900

LIFTING EYE SCREWS WITH BALL BEARING SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 100

- grade 100
- eye turns to the direction of the load
- paint coated
- safety factor 4:1



Size	E	G	C	K	F	D	B	A	Weight	Product code
	mm	mm	mm	mm	mm	mm	mm	mm	kg	
M10	18	36,5	48	34	101	13	53	35	0,4	NS10KL10005Y
M12	18	36,5	48	34	101	13	53	35	0,4	NS10KL12007Y
M16	20	36,5	48	34	101	13	53	35	0,44	NS10KL16014Y
M20	40	52	68	46	127	16	59	35	1,0	NS10KL20025Y
M24	30	57	75	50	148	19	73	40	1,5	NS10KL2404Y
M30	35	70	95	65	163	19	68	40	2,4	NS10KL3067Y
M36	50	81	106	75	201	22	95	50	3,8	NS10KL3610Y
M42	60	81	106	75	201	22	95	50	4,0	NS10KL42125Y

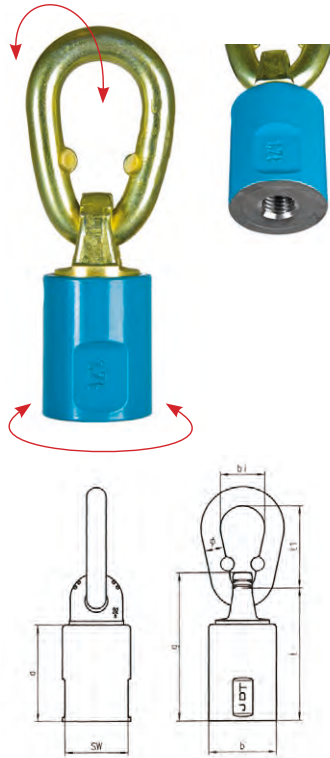
Working load limits

Size									Tightening torque
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	Nm
M10	1,00	0,50	2,00	1,00	0,70	0,50	1,00	0,75	10-40
M12	1,40	0,70	2,80	1,40	1,00	0,70	1,40	1,00	15-40
M16	2,80	1,40	5,60	2,80	2,00	1,40	3,00	2,12	45-130
M20	5,00	2,50	10,00	5,00	3,55	2,50	5,30	3,75	100-170
M24	8,00	4,00	16,00	8,00	5,60	4,00	8,50	6,00	190-280
M30	12,00	6,70	24,00	13,40	9,50	6,70	14,00	10,00	230-400
M36	15,00	10,00	30,00	20,00	14,00	10,00	21,20	15,00	270-600
M42	15,00	12,50	30,00	25,00	17,00	12,50	25,00	18,00	270-600

BOLTABLE LIFTING EYES WITH BALL BEARING SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 100



- grade 100
- eye turns to the direction of the load
- paint coated / yellow chromated
- safety factor 4:1



Size	a	Ø b	g	SW	T	Eye dimensions Ø x t ₁ x b ₁ mm	Weight kg	Product code
M12 x 15	45	36,5	73	34	66	13 x 55 x 32	0,61	NS10KL1205P
M16 x 20	52	36,5	80	34	73	13 x 55 x 32	0,65	NS10KL1610P
M20 x 25	66	52	106	46	95	16 x 70 x 34	1,50	NS10KL2017P
M24 x 30	80	57	120	50	108	18 x 85 x 45	2,12	NS10KL242P
M30 x 40	94	70	148	65	131	20 x 85 x 45	3,70	NS10KL3032P
M36 x 45	107	80	164	75	145	23 x 115 x 60	5,75	NS10KL365P

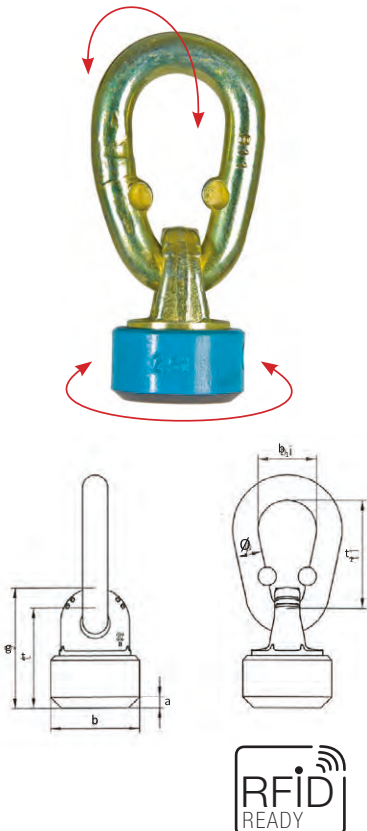
Delivery time 2-3 weeks.

Working load limits

Size	WLL t	WLL t stamp on the product	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	Tightening torque Nm
M12 x 15	1,40	0,50	2,80	1,00	0,70	0,50	1,05	0,75	15-40
M16 x 20	2,80	1,00	5,60	2,00	1,40	1,00	2,10	1,50	45-130
M20 x 25	5,00	1,70	10,00	3,40	2,38	1,70	3,57	2,55	100-170
M24 x 30	8,00	2,10	16,00	4,20	2,94	2,10	4,41	3,15	190-280
M30 x 40	12,00	3,20	24,00	6,40	4,48	3,20	6,72	4,80	230-400
M36 x 45	15,00	5,00	30,00	10,00	6,70	5,00	10,00	7,50	270-600



WELD-ON LIFTING EYES WITH BALL BEARING SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 100



a	b	g	t	Eye dimensions Ø x t ₁ x b ₁ mm	Weight kg	Product code
5,5 x 45°	52	68	57	16 x 70 x 34	0,95	NS10KL2HI
7,0 x 45°	57	74	62	18 x 85 x 45	1,30	NS10KL4HI
8,5 x 45°	70	95	78	20 x 85 x 45	2,20	NS10KL6HI
10,0 x 45°	80	102	83	23 x 115 x 60	3,80	NS10KL10HI
12,0 x 45°	100	129	106	30 x 140 x 70	6,66	NS10KL17HI

Delivery time 2-3 weeks.

Working load limits

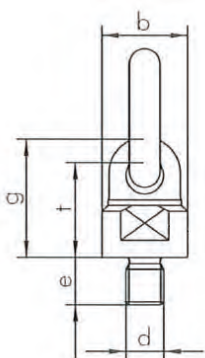
Product code	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
NS10KL2HI	5,00	2,50	10,00	5,00	3,50	2,50	5,25	3,75
NS10KL4HI	8,00	4,00	16,00	8,00	5,60	4,00	8,40	6,00
NS10KL6HI	12,00	6,70	24,00	13,40	9,38	6,70	14,07	10,05
NS10KL10HI	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00
NS10KL17HI	25,00	17,00	50,00	34,00	23,80	17,00	35,70	25,50





LIFTING EYE SCREWS WITH BALL BEARING SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 100

- grade 100
- eye turns to the direction of the load
- paint coated / yellow chromated
- safety factor 4:1



Size	WLL 90° lifting	b	g	t	Inner dimensions of the eye thickness x height x width	Weight	Product code
d x e	t	mm	mm	mm	mm	kg	
M 10 x 18	0,7	36,5	48	41	13 x 55 x 32	0,42	NS10KL10007
M 12 x 18	0,7	36,5	48	41	13 x 55 x 32	0,43	NS10KL12007
M 14 x 20	1,0	36,5	48	41	13 x 55 x 32	0,42	NS10KL14010
M 16 x 30	1,4	36,5	48	41	13 x 55 x 32	0,44	NS10KL16014
M 20 x 30	1,7	36,5	48	41	13 x 55 x 32	0,46	NS10KL20017
M 20 x 40	2,5	52	68	57	16 x 70 x 34	0,97	NS10KL20025
M 24 x 30	1,7	36,5	48	41	13 x 55 x 32	0,49	NS10KL24017
M 24 x 45	4,0	57	75	63	18 x 85 x 45	1,48	NS10KL2404
M 30 x 35	4,0	57	75	63	18 x 85 x 45	1,50	NS10KL3004
M 30 x 45	6,7	70	95	78	20 x 85 x 45	2,37	NS10KL30067
M 30 x 45	8,0	81	106	86	23 x 115 x 60	3,64	NS10KL3008
M 36 x 50	10,0	81	106	86	23 x 115 x 60	3,72	NS10KL3610
M 42 x 50	12,5	81	106	86	23 x 115 x 60	3,82	NS10KL4212
M 45 x 60	17,0	104	127	106	30 x 140 x 70	7,50	NS10KL4517
M 48 x 72	12,0	81	106	86	23 x 115 x 60	4,33	NS10KL4812
M 48 x 60	17,0	104	127	106	30 x 140 x 70	7,57	NS10KL4817
M 56 x 78	18,0	104	127	106	30 x 140 x 70	8,00	NS10KL5618
M 64 x 96	20,0	104	127	106	30 x 140 x 70	8,85	NS10KL6420
M 64 x 96	28,0	129	174	135	35 x 170 x 80	16,30	NS10KL6428
M 72 x 120	28,0	129	174	135	35 x 170 x 80	17,60	NS10KL7228
M 80 x 150	28,0	129	174	135	35 x 170 x 80	19,50	NS10KL8028
M 90 x 115	40,0	170	233	182	46 x 240 x 110	36,50	NS10KL9040
M 100 x 150	40,0	170	233	182	46 x 240 x 110	39,80	NS10KL10040

Delivery time 2-3 weeks.

Working load limits

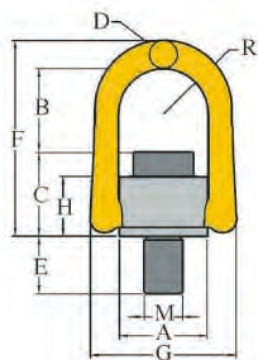
Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M 10 x 18	1,40	0,70	2,80	1,40	0,98	0,70	1,47	1,05	15 - 40
M 12 x 18	1,40	0,70	2,80	1,40	0,98	0,70	1,47	1,05	15 - 40
M 14 x 20	2,00	1,00	4,00	2,00	1,40	1,00	2,10	1,50	30 - 40
M 16 x 30	2,80	1,40	5,60	2,80	1,96	1,40	2,94	2,10	45 - 130
M 20 x 30	3,40	1,70	6,80	3,40	2,38	1,70	3,57	2,55	75 - 130
M 20 x 40	5,00	2,50	10,00	5,00	3,50	2,50	5,25	3,75	100 - 170
M 24 x 30	3,40	1,70	6,80	3,40	2,38	1,70	3,57	2,55	90 - 130
M 24 x 45	8,00	4,00	16,00	8,00	5,60	4,00	8,40	6,00	190 - 280
M 30 x 35	8,00	4,00	16,00	8,00	5,60	4,00	8,40	6,00	190 - 280
M 30 x 45	12,00	6,70	24,00	13,40	9,38	6,70	14,07	10,05	230 - 400
M 30 x 45	12,00	8,00	24,00	16,00	11,20	8,00	16,80	12,00	270 - 600
M 36 x 50	15,00	10,00	30,00	20,00	14,00	10,00	21,00	15,00	270 - 600
M 42 x 50	15,00	12,50	30,00	25,00	17,50	12,50	26,25	18,75	270 - 700
M 45 x 60	25,00	17,00	50,00	34,00	23,80	17,00	35,70	25,50	350 - 800
M 48 x 72	15,00	12,50	30,00	25,00	17,50	12,50	26,25	18,75	270 - 700
M 48 x 60	25,00	17,00	50,00	34,00	23,80	17,00	35,70	25,50	350 - 800
M 56 x 78	25,00	18,00	50,00	36,00	25,20	18,00	37,80	27,00	350 - 900
M 64 x 96	25,00	20,00	50,00	40,00	28,00	20,00	42,00	30,00	350 - 900
M 64 x 96	32,50	28,00	65,00	56,00	39,20	28,00	58,80	42,00	500 - 1000
M 72 x 120	32,50	28,00	65,00	56,00	39,20	28,00	58,80	42,00	500 - 1200
M 80 x 150	32,50	28,00	65,00	56,00	39,20	28,00	58,80	42,00	500 - 1200
M 90 x 115	50,00	40,00	100,00	80,00	56,00	40,00	84,00	60,00	500 - 1500
M 100 x 150	50,00	40,00	100,00	80,00	56,00	40,00	84,00	60,00	500 - 1700

Many sizes available also with shorter and longer threads. Ask for more!









BOLTABLE LIFTING EYE SCREWS WITH SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 100

- grade 100
- for lifting in all positions
- can be turned to the direction of the load
- paint coated
- safety factor 4:1

YOKE
is our first priority™



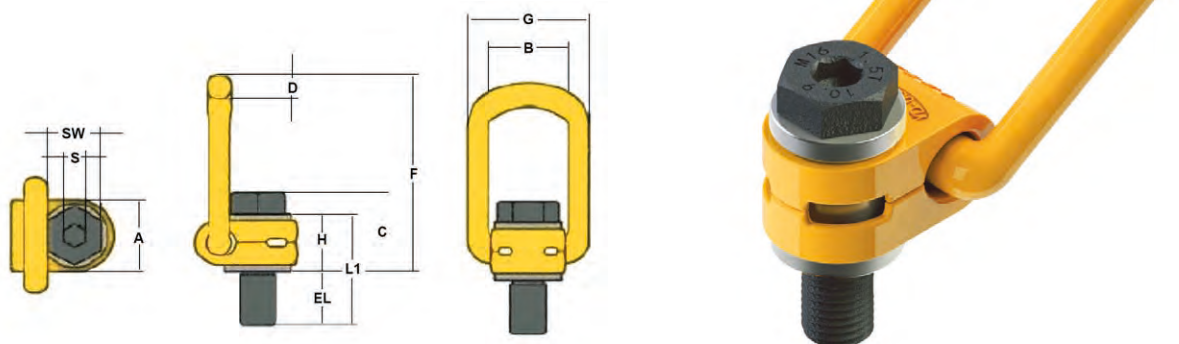
Size	A	B	C	D	E	F	G	H	R	S	SW	Weight	Product code
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
M12	33	40	31	11	18	80	58	23	17	8	19	0,3	NS8PKL10
M14	51	56	45	17	21	117	90	36	27	10	22	0,9	NS8PKL15
M16	51	54	46	17	24	117	90	36	27	10	24	0,9	NS8PKL20
M18	65	78	57	20	27	153	108	44	34	12	30	0,9	NS8PKL25
M20	50	52	49	17	30	117	90	36	27	12	30	1,0	NS8PKL30
M24	72	81	59	22	36	162	125	44	37	14	36	2,6	NS8PKL50
M27	87	96	79	30	38	205	148	62	46	17	41	4,9	NS8PKL56
M30	87	94	81	30	48	205	148	62	46	17	46	5,0	NS8PKL78
M36	110	112	98	38	54	246	188	75	57	22	55	9,6	NS8PKL125

Size								
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
M12	1,00	1,00	2,00	2,00	1,40	1,00	2,10	1,50
M14	1,50	1,50	3,00	3,00	2,10	1,50	3,15	2,25
M16	2,00	2,00	4,00	4,00	2,80	2,00	4,20	3,00
M18	2,50	2,50	5,00	5,00	3,50	2,50	5,25	3,75
M20	3,00	3,00	6,00	6,00	4,20	3,00	6,30	4,50
M24	5,00	5,00	10,00	10,00	7,00	5,00	10,50	7,50
M27	5,60	5,60	11,20	11,20	7,84	5,60	11,76	8,40
M30	7,80	7,80	15,60	15,60	10,92	7,80	16,38	11,70
M36	12,50	12,50	25,00	25,00	17,50	12,50	26,25	18,75

ROTATING LIFTING EYE SCREWS FOR ALL LIFTING DIRECTIONS, GRADE 80

- grade 80
- bolts also available with 120 mm thread
- eye turns to the direction of the load
- paint coated
- safety factor 4:1

NEW



Size	A	B	C	D	E	F	G	H	S	SW	Weight	Product code	Product code with 120 mm thread
M	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg		
M8	34	37	42	14	11	99	57	36	6	13	0,5	NS8P0803	NS8P0803120
M10	34	37	44	14	16	99	57	36	6	16	0,5	NS8P10063	NS8P10063120
M12	34	37	45	14	18	99	57	36	8	18	0,5	NS8P121	NS8P121120
M16	34	37	48	14	24	99	57	36	10	24	0,5	NS8P1615	NS8P1615120
M20	50	54	58	16,5	30	144	82	44	12	30	1,5	NS8P2025	NS8P2025120
M24	50	54	61	16,5	36	144	82	44	14	36	1,5	NS8P244	NS8P244120
M30	60	65	82	22	48	171	99	62	17	46	3,5	NS8P305	NS8P305120
M36	77	85	104	27	62	227	123	79	22	55	6,0	NS8P368	NS8P368120
M42	95	104	117	36	63	258,5	158	90	22	65	11,0	NS8P4215	NS8P4215120
M48	95	104	120	36	72	258,5	158	90	27	75	12,0	NS8P4820	NS8P4820120

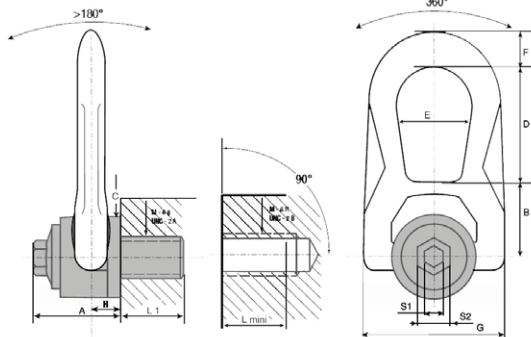
Working load limits

Size	WLL t stamp on the product	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	Tightening torque max. Nm
M8	0,30	0,3	0,6	0,6	0,42	0,3	0,63	0,45	30
M10	0,63	0,63	1,26	1,26	0,88	0,63	1,32	0,95	60
M12	1,00	1	2	2	1,4	1	2,1	1,5	100
M16	1,50	1,5	3	3	2,1	1,5	3,1	2,2	150
M20	2,50	2,5	5	5	3,5	2,5	5,2	3,7	250
M24	4,00	4	8	8	5,6	4	8,4	6	400
M30	5,00	5	10	10	7	5	10,5	7,5	500
M36	8,00	8	16	16	11,2	8	16,8	12	800
M42	15,00	15	30	30	21	15	31,5	22,5	1500
M48	20,00	20	40	40	28	20	42	30	2000

Bolt strength category must be at least 10.9.

LIFTING EYE SCREWS WITH SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 80

- grade 80
- eye turns to the direction of the load
- safety factor 5:1



Models made of stainless steel and models with longer threads also available. Ask for more from our sales.



Size	L1	S1	S2	A	B	C	D	E	F	G	H	Product code
M	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
M4	15	3	-	33	30	30	38	27	14	53	9,5	*NS8KL04M
M5	15	4	-	33	30	30	38	27	14	53	9,5	*NS8KL05M
M6	15	5	-	33	30	30	38	27	14	53	9,5	NS8KL06M
M8	14	8	16	33	30	30	38	27	14	53	9,5	NS8KL08M
M10	17	8	16	33	30	30	38	27	14	53	9,5	NS8KL10M
M12	21	8	16	33	30	30	38	27	14	53	9,5	NS8KL12M
M14	23	8	20	45	42	45	54	38	17	76	13	NS8KL14M
M16	27	8	20	45	42	45	54	38	17	76	13	NS8KL16M
M18	27	8	20	45	42	45	54	38	17	76	13	NS8KL18M
M20	30	8	20	45	42	45	54	38	17	76	13	NS8KL20M
M22	33	14	24	62	55	60	83	55	25	117	19	NS8KL22M
M24	36	14	24	62	55	60	83	55	25	117	19	NS8KL24M
M27	40	14	24	62	55	60	83	55	25	117	19	NS8KL27M
M30	45	14	24	62	55	60	83	55	25	117	19	NS8KL30M

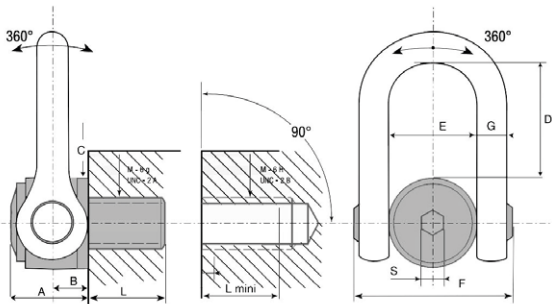
*items marked with an asterisk delivery time 1-2 weeks

Working load limits

Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M4	0,05	0,05	0,10	0,10	0,07	0,05	0,105	0,075	2
M5	0,07	0,07	0,14	0,14	0,098	0,07	0,147	0,105	3
M6	0,15	0,15	0,30	0,30	0,21	0,15	0,315	0,225	4
M8	0,40	0,40	0,80	0,80	0,56	0,40	0,84	0,60	5
M10	0,70	0,70	1,40	1,40	0,98	0,70	1,47	1,05	10
M12	1,05	1,05	2,10	2,10	1,47	1,05	2,205	1,575	15
M14	1,40	1,40	2,80	2,80	1,96	1,40	2,94	2,10	30
M16	2,00	2,00	4,00	4,00	2,80	2,00	4,20	3,00	50
M18	2,30	2,30	4,60	4,60	3,22	2,30	4,83	3,45	70
M20	2,50	2,50	5,00	5,00	3,50	2,50	5,25	3,75	100
M22	3,50	3,50	7,00	7,00	4,90	3,50	7,35	5,25	120
M24	4,40	4,40	8,80	8,80	6,16	4,40	9,24	6,60	160
M27	5,70	5,70	11,40	11,40	7,98	5,70	11,97	8,55	200
M30	6,00	6,00	12,00	12,00	8,40	6,00	12,60	9,00	250

LIFTING EYE SCREWS WITH SWIVEL FOR ALL LIFTING DIRECTIONS, GRADE 80

- grade 80
- eye turns to the direction of the load
- safety factor 5:1



Models made of stainless steel and inch models also available. Ask for more from our sales.



M24 - M56
2,70 - 8,00 t



M24 - M36
2,70 - 5,00 t

Size	L1	S	A	B	C	D	E	F	G	Weight	Product code
M	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
M24	36	19	61	31	70	104	73	145	29	5,4	NS8KL24DSS
M30	45	19	61	31	70	104	73	145	29	5,5	NS8KL30DSS
M33	50	19	61	31	70	104	73	145	29	5,5	NS8KL33DSS
M36	54	19	61	31	70	104	73	145	29	5,5	NS8KL36DSS
M39	58	19	61	31	70	104	73	145	29	5,7	NS8KL39DSS
M42	63	19	61	31	70	104	73	145	29	5,8	NS8KL42DSS
M45	63	19	61	31	70	104	73	145	29	5,9	NS8KL45DSS
M48	68	19	79	38	90	125	91	184	36	11,0	NS8KL48DSS
M52	68	19	79	38	90	125	91	184	36	11,2	NS8KL52DSS
M56	78	19	79	38	90	125	91	184	36	11,3	NS8KL56DSS
M64	90	19	79	38	90	125	91	184	36	12,2	NS8KL64DSS

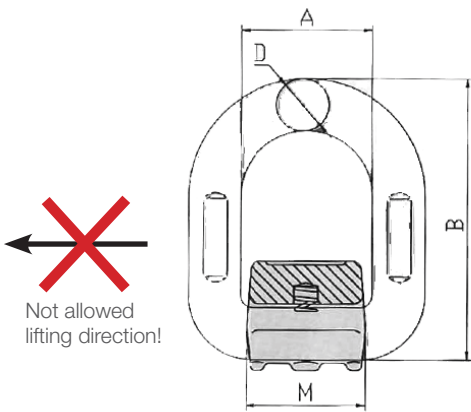
Delivery time 1-2 weeks.

Working load limits

Size									Tightening torque Nm
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°	
M24	4,50	4,50	9,00	9,00	6,30	4,50	9,45	6,75	160
M30	7,30	7,30	14,60	14,60	10,22	7,30	15,33	10,95	250
M33	8,00	8,00	16,00	16,00	11,20	8,00	16,80	12,00	250
M36	10,00	10,00	20,00	20,00	14,00	10,00	21,00	15,00	320
M39	10,00	10,00	20,00	20,00	14,00	10,00	21,00	15,00	320
M42	12,50	12,50	25,00	25,00	17,50	12,50	26,25	18,75	400
M45	15,00	15,00	30,00	30,00	21,00	15,00	31,50	22,50	400
M48	20,00	20,00	40,00	40,00	28,00	20,00	42,00	30,00	600
M52	20,00	20,00	40,00	40,00	28,00	20,00	42,00	30,00	600
M56	25,00	25,00	50,00	50,00	35,00	25,00	52,50	37,50	600
M64	32,10	32,10	64,20	64,20	44,94	32,10	67,41	48,15	600

WELD-ON LIFTING POINTS, GRADE 80

- grade 80
- paint coated
- equipped with a spring which enables the eye to stay in the desired position
- safety factor 4:1



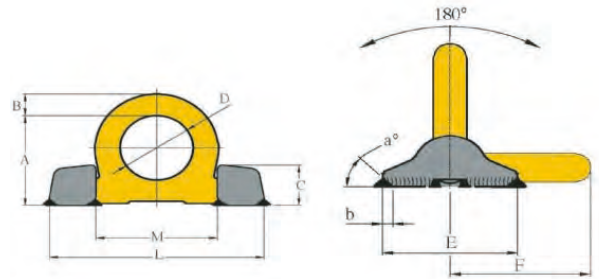
A	B	D	M	Weight	Product code
mm	mm	mm	mm	kg	
41,0	78,5	13,0	37,0	0,40	NS8HI1
42,0	88,0	14,0	40,0	0,47	NS8HI2
45,0	94,0	17,0	42,5	0,69	NS8HI3
55,0	118,0	22,0	50,0	1,46	NS8HI5
70,0	141,0	26,5	66,5	2,50	NS8HI8
97,0	188,0	34,0	90,0	5,79	NS8HI15

Working load limits

Product code								
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
NS8HI1	1,12	1,12	2,24	2,24	1,57	1,12	2,35	1,68
NS8HI2	2,00	2,00	4,00	4,00	2,80	2,00	4,20	3,00
NS8HI3	3,15	3,15	6,30	6,30	4,41	3,15	6,62	4,73
NS8HI5	5,30	5,30	10,60	10,60	7,42	5,30	11,13	7,95
NS8HI8	8,00	8,00	16,00	16,00	11,20	8,00	16,80	12,00
NS8HI15	15,00	15,00	30,00	30,00	21,00	15,00	31,50	22,50

WELD-ON LIFTING POINTS, GRADE 100

- grade 100
- with two welding attachment points
- paint coated
- safety factor 4:1



A	B	C	D	E	F	G	H	Weight	Product code
mm	mm	mm	mm	mm	mm	mm	mm	kg	
14	65	48	29	134	14	60	79	0,73	NS8J04Y
20	83	60	39	169	16	88	103	1,80	NS8J06Y
22	96	65	48	196	19,5	98	118	3,00	NS8J10Y
31	126	90	55	264	29	127	155	5,75	NS8J16Y
42	175	130	79	371	45	157	217	16,00	NS8J30Y

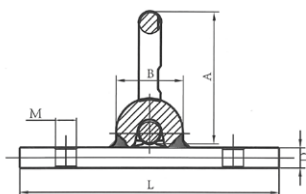
Working load limits

Product code								
	WLL t	WLL t	WLL t	WLL t	WLL t 0 - 45°	WLL t 45 - 60°	WLL t 0 - 45°	WLL t 45 - 60°
NS8J04	4,00	4,00	8,00	8,00	5,60	4,00	8,40	6,00
NS8J06	6,70	6,70	13,40	13,40	9,38	6,70	14,07	10,05
NS8J10	10,00	10,00	20,00	20,00	14,00	10,00	21,00	15,00
NS8J16	16,00	16,00	32,00	32,00	22,40	16,00	33,60	24,00
NS8J30	30,00	30,00	60,00	60,00	42,00	30,00	63,00	45,00

BOLTABLE LIFTING EYES, GRADE 80



- grade 80
- lifting in all positions
- delivered without bolts
- bolt property class must be at least 8.8
- paint coated
- safety factor 4:1



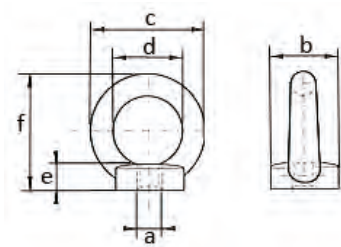
WLL	A	B	D	M	L	Weight	Product code
t	mm	mm	mm	mm	mm	kg	
1,00	78,0	40,0	12,0	12,5	155	1,10	NS8PUL1
2,00	80,5	40,0	14,0	14,5	155,0	1,20	NS8PUL2
3,00	94,0	46,5	16,0	16,5	155,0	1,50	NS8PUL3
5,00	118,0	60,0	20,0	22,5	180,0	2,60	NS8PUL5
8,00	141,0	63,0	26,0	26,5	220,0	4,90	NS8PUL8

Bolt strength category must be at least 8.8.

STAINLESS STEEL LIFTING EYES FOR VERTICAL LIFTING

LIFTING EYE NUTS DIN 582

- polished surface
- material AISI 316

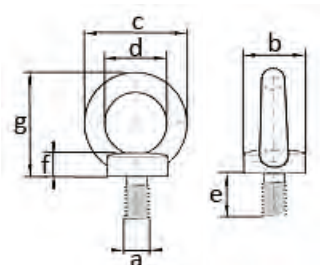


Size	b	c	d	e	f	Weight kg / 100 pcs	Product code
a	mm	mm	mm	mm	mm		
M6	20,0	36,0	20,0	8,5	36,0	5,0	NSMH06L
M8	20,0	36,0	20,0	8,5	36,0	5,0	NSMH08L
M10	25,0	45,0	25,0	10,0	45,0	9,0	NSMH10L
M12	30,0	54,0	30,0	11,0	53,0	16,0	NSMH12L
M16	35,0	63,0	35,0	13,0	62,0	24,0	NSMH16L
M20	39,0	71,0	39,0	14,0	70,0	36,0	NSMH20L

Also other sizes available.

LIFTING EYE SCREWS DIN 580









- polished surface
- material AISI 316



Size	b	c	d	e	f	g	Weight kg / 100 pcs	Product code
a	mm	mm	mm	mm	mm	mm		
M6	20,0	36,0	20,0	13,0	6,0	36,0	6,0	NSRH06L
M8	20,0	36,0	20,0	13,0	6,0	36,0	6,0	NSRH08L
M10	25,0	45,0	25,0	17,0	8,0	45,0	11,0	NSRH10L
M12	30,0	54,0	30,0	20,5	10,0	53,0	18,0	NSRH12L
M16	35,0	63,0	35,0	27,0	12,0	62,0	28,0	NSRH16L
M20	39,0	71,0	39,0	30,0	14,0	70,0	45,0	NSRH20L

Working load limits

Also other sizes available.

Thread	 WLL t	 WLL t	 WLL t	 WLL t	 WLL t 0 - 45°	 WLL t 45 - 60°	 WLL t 0 - 45°	 WLL t 45 - 60°
M6	0,08	not allowed	0,16	not allowed	-	not allowed	-	not allowed
M8	0,14	not allowed	0,28	not allowed	0,10	not allowed	0,14	not allowed
M10	0,23	not allowed	0,46	not allowed	0,17	not allowed	0,23	not allowed
M12	0,34	not allowed	0,68	not allowed	0,24	not allowed	0,34	not allowed
M16	0,70	not allowed	1,40	not allowed	0,50	not allowed	0,70	not allowed
M20	1,20	not allowed	2,40	not allowed	0,86	not allowed	1,20	not allowed

CONTAINER MULTIPLE LIFTING LUG SET

- grade 80
- multiple lifting lugs for lifting from the upper or lower corners from the sides
- multiple lifting lugs do not lock like the other models
- delivery includes 4 lifting eyes (for all corners) without shackles
- paint coated
- safety factor 4:1



Type	WLL 30° chain angle	WLL 45° chain angle	WLL 60° chain angle	Weight / set 4 pcs kg	Product code
Multiple lugs	t 43	t 35	t 25	16,2	KONNOSETTI

CONTAINER LIFTING LUG SET

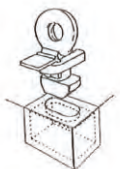
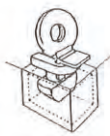
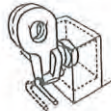
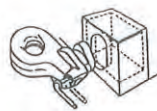
- grade 80
- top lifting lugs for lifting vertically from the upper part of the container with a lifting frame
- bottom side lifting lugs for lifting from the lower corners of the container with max. 50° chain angle
- delivery includes 4 lifting eyes (for all corners) without shackles
- paint coated
- safety factor 4:1



Top lifting lug



Bottom side lifting lug


 KONMKIIA
Top lug

 KONMKVA
Bottom side lug


Type	WLL vertical lifting	WLL 36° chain angle	WLL 50° chain angle	Weight / set 4 pcs kg	Product code
Top lug set	t 56	-	-	19,2	KONMKIIA
Bottom side lug set	50	40	32	19,2	KONMKVA

LIFTING POINTS FOR CONCRETE ELEMENTS



- four different sizes
- flexible steel wire rope eye combined with a special thread end fitting
- galvanized
- safety factor 4:1

Thread	WLL vertical lifting t	WLL side lifting t	Eye length mm	L-size mm	Weight kg	Product code
M16	1,5	1,5	140	330	2,0	NSBER16
M20	2,0	2,0	140	330	2,0	NSBER20
M24	2,5	2,5	140	330	2,4	NSBER24
M30	3,0	3,0	140	400	2,6	NSBER30

NOTES

10. SHACKLES, SWIVELS AND SNATCH BLOCKS

SAE / Green pin shackles

DIN 82101 shackles

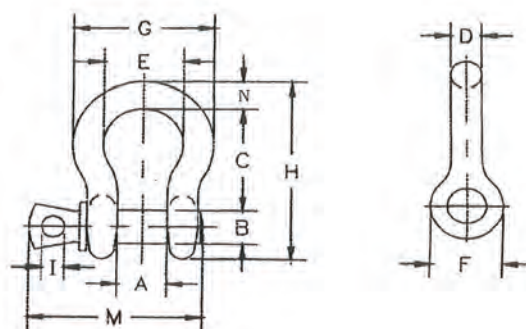
Stainless steel and chain shackles

Snatch blocks / Pulley wheels



SHACKLES, SAE - BOW MODEL

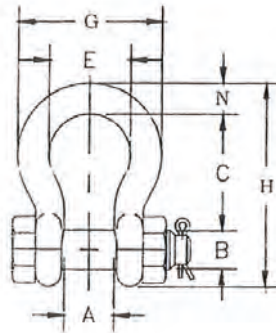
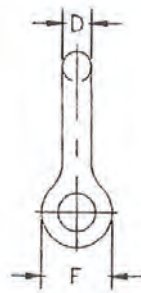
- shackles approved for lifting
- hot dip galvanized coating
- safety factor 6:1



WLL	A	B	C	D	E	F	G	H	I	M	N	Weight/ pcs	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
0,33	10	7	22	5	15	14	25	38	4	29	5	0,03	SAK03PBP
0,50	12	8	29	7	20	16	33	47	5	35	5	0,05	SAK05PBP
0,75	14	10	31	8	22	19	38	53	6	42	8	0,09	SAK07PBP
1,00	17	11	37	10	26	23	45	63	7	52	10	0,14	SAK10PBP
1,50	19	13	43	11	30	27	52	74	8	61	11	0,17	SAK15PBP
2,00	21	16	48	13	34	30	59	84	10	69	13	0,33	SAK20PBP
3,25	27	19	61	16	43	38	75	106	11	85	18	0,62	SAK32PBP
4,75	32	23	72	19	51	46	89	126	13	101	21	1,07	SAK47PBP
6,50	37	26	84	23	58	53	102	148	13	114	25	1,64	SAK65PBP
8,50	43	29	96	26	69	61	119	167	14	129	27	2,28	SAK85PBP
9,50	46	32	108	30	74	69	131	190	16	142	32	3,36	SAK95PBP
12,00	52	35	119	33	93	76	146	210	18	156	35	4,31	SAK120PBP
13,50	57	38	133	36	92	84	162	233	19	174	38	6,14	SAK135PBP
17,00	61	42	146	39	99	92	175	254	21	187	41	7,80	SAK170PBP
25,00	73	51	178	47	127	106	225	313	26	231	57	12,60	SAK250PBP
35,00	83	57	197	53	146	122	253	348	31	263	61	20,40	SAK350PBP
55,00	105	70	267	69	184	145	327	453	35	330	80	38,90	SAK550PBP
85,00	127	82	330	76	200	165	367	546	38	490	105	70,00	SAK850PBP

SHACKLES, SAE - BOW MODEL WITH LOCKING

- shackles approved for lifting
- hot dip galvanized coating
- safety factor 6:1

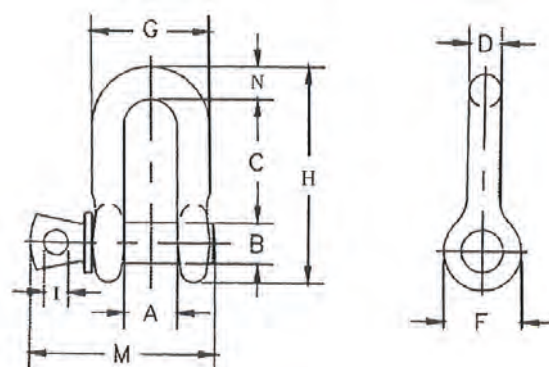


WLL	A	B	C	D	E	F	G	H	N	Weight/ pcs	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
0,50	12	8	29	7	20	16	33	47	7	0,05	SAK05PLBP
0,75	14	10	31	8	22	19	38	53	8	0,10	SAK07PLBP
1,00	17	11	37	10	26	23	45	63	10	0,15	SAK10PLBP
1,50	19	13	43	11	30	27	52	74	11	0,22	SAK15PLBP
2,00	21	16	48	13	34	30	59	84	13	0,36	SAK20PLBP
3,25	27	19	61	16	43	38	75	106	18	0,76	SAK32PLBP
4,75	32	23	72	19	51	46	89	126	21	1,23	SAK47PLBP
6,50	37	26	84	23	58	53	102	148	25	1,79	SAK65PLBP
8,50	43	29	96	26	69	61	119	167	27	2,57	SAK85PLBP
9,50	46	32	108	29	74	69	131	190	32	3,75	SAK95PLBP
12,00	52	35	119	32	83	76	146	210	35	5,31	SAK120PLBP
13,50	57	38	133	35	92	84	162	233	38	7,18	SAK135PLBP
17,00	61	42	146	38	99	92	175	254	41	9,43	SAK170PLBP
25,00	73	51	178	45	127	106	225	313	57	15,40	SAK250PLBP
35,00	83	57	197	51	146	122	256	348	61	23,70	SAK350PLBP
55,00	105	70	267	67	184	145	327	453	80	44,61	SAK550PLBP
85,00	127	83	330	76	200	165	365	546	92	70,00	SAK850PLBP
120,00	133	96	372	92	229	203	419	626	105	120,0	SAK1200PLBP
150,00	140	108	368	104	254	229	468	653	116	153	*SAK1500PLBP

*items marked with an asterisk delivery time 2-3 weeks

SHACKLES, SAE - DEE MODEL

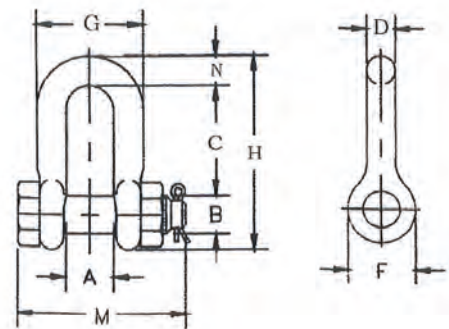
- shackles approved for lifting
- hot dip galvanized coating
- safety factor 6:1



WLL	A	B	C	D	F	G	H	I	M	Weight/ pcs	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
0,33	10	7	16	5	14	20	31	4	29	0,02	SAK03SBP
0,50	12	8	23	7	16	25	41	5	35	0,05	SAK05SBP
0,75	14	10	26	8	19	30	49	6	42	0,08	SAK07SBP
1,00	17	11	32	10	23	36	59	7	52	0,13	SAK10SBP
1,50	19	13	37	11	27	42	68	8	61	0,20	SAK15SBP
2,00	21	16	42	13	30	46	77	10	69	0,27	SAK20SBP
3,25	27	19	51	16	37	59	96	11	85	0,57	SAK32SBP
4,75	32	23	61	19	46	70	115	13	101	1,20	SAK47SBP
6,50	37	26	72	23	53	81	135	13	114	1,43	SAK65SBP
8,50	43	29	81	25	61	94	151	14	129	2,15	SAK85SBP
9,50	46	32	91	29	69	103	172	16	142	3,06	SAK95SBP
12,00	52	35	100	32	76	115	191	18	156	4,11	SAK120SBP
13,50	57	38	111	35	84	127	210	19	174	5,28	SAK135SBP
17,00	61	42	122	38	92	137	230	21	187	7,23	SAK170SBP
25,00	73	51	146	45	106	162	279	26	231	12,10	SAK250SBP
35,00	83	57	172	51	122	184	312	31	263	19,20	SAK350SBP
55,00	105	70	203	67	145	238	377	35	330	32,50	SAK550SBP

SHACKLES, SAE - DEE MODEL WITH LOCKING

- shackles approved for lifting
- hot dip galvanized coating
- safety factor 6:1



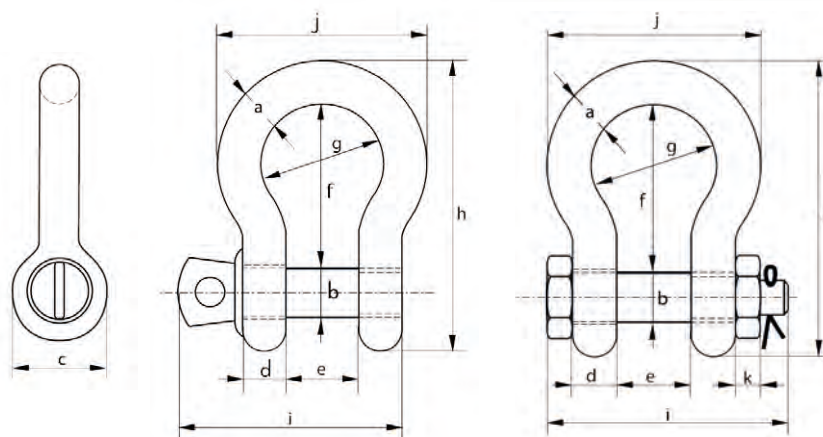
WLL	A	B	C	D	F	G	H	M	N	Weight/ pcs	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
0,50	12	8	19	7	16	25	41	40	7	0,06	SAK05SLBP
0,75	14	10	26	8	19	30	49	46	8	0,10	SAK07SLBP
1,00	17	11	31	10	23	36	59	55	10	0,15	SAK10SLBP
1,50	19	13	36	11	27	41	68	64	11	0,22	SAK15SLBP
2,00	21	16	42	13	30	46	77	71	13	0,34	SAK20SLBP
3,25	27	19	51	16	38	59	96	90	16	0,67	SAK32SLBP
4,75	32	23	61	19	46	70	115	103	21	1,14	SAK47SLBP
6,50	37	26	72	23	53	81	135	120	25	1,74	SAK65SLBP
8,50	43	29	81	26	61	94	151	135	26	2,52	SAK85SLBP
9,50	46	32	91	29	69	103	172	150	32	3,45	SAK95SLBP
12,00	52	35	100	32	76	115	191	165	35	4,90	SAK120SLBP
13,50	57	38	111	35	84	127	210	183	38	6,24	SAK135SLBP
17,00	61	42	122	38	92	137	230	196	42	8,39	SAK170SLBP
25,00	73	51	146	45	106	162	279	230	54	14,20	SAK250SLBP
35,00	82	57	172	51	122	184	312	264	51	21,20	SAK350SLBP
55,00	105	70	203	67	145	238	377	344	67	38,60	SAK550SLBP
85,00	127	83	216	76	165	279	429	419	89	56,00	SAK850SLBP
120,00	133	96	240	92	203	320	500	510	102	95,00	SAK1200SLBP

SHACKLES, GREEN PIN® - BOW MODEL

- shackles approved for lifting
- hot dip galvanized coating
- safety factor 6:1



with locking

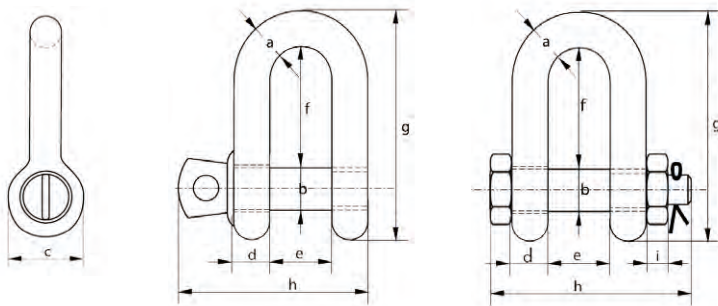


WLL	a	b	c	d	e	f	g	h	i	i lock.	j	k	Weight pcs	Weight pcs lock.	Product code	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg		with locking
0,33	5	6	12	5	9,5	22	16	36	29,5	-	26	-	0,02	-	*SAK03P	-
0,50	7	8	16,5	7	12	29	20	48,5	38	42	34	4	0,05	0,06	SAK05P	SAK05PL
0,75	9	10	20	9	13,5	32	22	56	46,5	50	40	5	0,10	0,11	SAK07P	SAK07PL
1,00	10	11	22,5	10	17	36,5	26	63,5	54	60	46	8	0,14	0,16	SAK10P	SAK10PL
1,50	11	13	26,5	11	19	43	29	74	59,5	67	51	11	0,19	0,22	SAK15P	SAK15PL
2,00	13,5	16	34	13	22	51	32	89	73	82	58	13	0,36	0,42	SAK20P	SAK20PL
3,25	16	19	40	16	27	64	43	110	89	98	75	17	0,63	0,74	SAK32P	SAK32PL
4,75	19	22	46	19	31	76	51	129	103	114	89	19	1,01	1,18	SAK47P	SAK47PL
6,50	22	25	52	22	36	83	58	144	119	130	102	22	1,50	1,77	SAK65P	SAK65PL
8,50	25	28	59	25	43	95	68	164	137	150	118	25	2,21	2,58	SAK85P	SAK85PL
9,50	28	32	66	28	47	108	75	185	153	166	131	27	3,16	3,66	SAK95P	*SAK95PL
12,00	32	35	72	32	51	115	83	201	170	178	147	30	4,31	4,91	SAK120P	*SAK120PL
13,50	35	38	80	35	57	133	92	227	186	197	162	33	5,55	6,54	SAK135P	*SAK135PL
17,00	38	42	88	38	60	146	99	249	203	202	175	19	7,43	8,19	SAK170P	*SAK170PL
25,00	45	50	103	45	74	178	126	300	243	249	216	23	12,84	14,22	SAK250P	*SAK250PL
35,00	50	57	111	50	83	197	138	331	272	269	238	26	18,15	19,85	*SAK350P	*SAK350PL
42,50	57	65	130	57	95	222	160	377	310	301	274	29	26,29	28,33	*SAK425P	*SAK425PL
55,00	65	70	145	65	105	260	180	433	344	330	310	32	37,60	39,59	*SAK550P	*SAK550PL
85,00	75	83	162	73	127	329	190	527	-	380	340	39	-	62,00	-	*SAK850PL

*items marked with an asterisk delivery time 1-2 weeks

SHACKLES, GREEN PIN® - DEE MODEL

- shackles approved for lifting
- hot dip galvanized coating
- safety factor 6:1

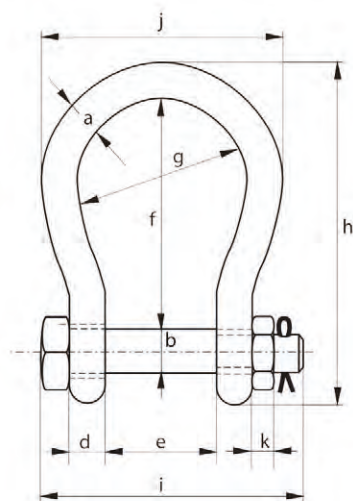


WLL	a	b	c	d	e	f	g	h	h lock.	i lock.	Weight pcs	Weight pcs lock.	Product code	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg		with locking
0,33	5	6	12	5	9,5	19	33	29,5	-	-	0,02	-	SAK03S	-
0,50	7	8	16,5	7	12	22	41,5	38	-	-	0,05	-	SAK05S	-
0,75	9	10	20	9	13,5	26	50	46,5	-	-	0,09	-	SAK07S	-
1,00	10	11	22,5	10	17	32	59	54	-	-	0,14	-	SAK10S	-
1,50	11	13	26,5	11	19	37	68	59,5	-	-	0,19	-	SAK15S	-
2,00	13,5	16	34	13	22	43	81	73	82	13	0,32	0,39	SAK20S	*SAK20SL
3,25	16	19	40	16	27	51	97	89	98	17	0,54	0,67	SAK32S	*SAK32SL
4,75	19	22	46	19	31	59	112	103	114	19	0,87	1,08	SAK47S	*SAK47SL
6,50	22	25	52	22	36	73	134	119	130	22	1,34	1,66	SAK65S	*SAK65SL
8,50	25	28	59	25	43	85	154	137	150	25	2,08	2,46	SAK85S	*SAK85SL
9,50	28	32	66	28	47	90	167	153	166	27	2,77	3,40	*SAK95S	*SAK95SL
12,00	32	35	72	32	51	94	180	170	178	30	3,72	4,51	*SAK120S	*SAK120SL
13,50	35	38	80	35	57	115	209	186	197	33	5,14	6,10	*SAK135S	*SAK135SL
17,00	38	42	88	38	60	127	230	203	202	19	6,85	7,63	*SAK170S	*SAK170SL
25,00	45	50	103	45	74	149	271	243	249	23	11,45	12,88	*SAK250S	*SAK250SL
35,00	50	57	111	50	83	171	305	272	269	26	16,86	17,35	*SAK350S	*SAK350SL
42,50	57	65	130	57	95	190	345	310	301	29	24,61	25,94	*SAK425S	*SAK425SL
55,00	65	70	145	65	105	203	376	344	330	32	32,65	35,33	*SAK550S	*SAK550SL
85,00	75	83	162	73	127	229	427	380	380	39	-	52,97	-	*SAK850SL

*items marked with an asterisk delivery time 1-2 weeks

WIDE MOUTH SHACKLES, GREEN PIN® - BOW MODEL

- wide mouth shackle approved for lifting
- hot dip galvanized coating
- safety factor 6:1
- temperature durability -20 - (+)200 °C

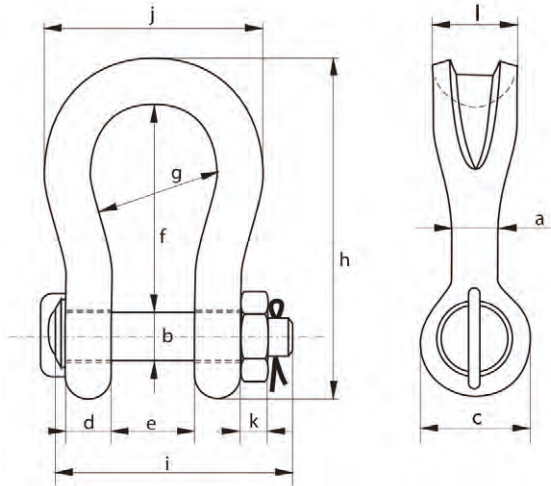


WLL	a	b	c	d	e	f	g	h	i	j	k	Weight	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
4.75	22	25	52	22	63	112	88	173	157	132	22	2.08	SAK47PLWM
6.5	25	28	59	25	75	135	105	204	183	155	25	3.14	SAK65PLWM
8.5	28	32	66	28	82	148	115	225	205	171	27	4.36	*SAK85PLWM
9.5	32	35	72	32	90	162	126	248	224	190	30	5.95	*SAK95PLWM
12	35	38	79	35	100	180	140	274	245	210	33	7.87	SAK120PLWM
16	38	42	88	38	106	216	159	319	248	235	19	12.5	*SAK160PLWM
25	45	50	103	45	127	248	175	370	296	265	23	16.7	SAK250PLWM
30	50	57	118	50	146	273	207	411	332	307	26	25	*SAK300PLWM
55	65	70	145	65	165	314	213	487	391	343	32	45	*SAK550PLWM
75	83	83	164	83	184	330	254	537	460	420	39	70	*SAK750PLWM

*items marked with an asterisk delivery time 1-2 weeks

WIDE BODY SHACKLES, GREEN PIN® - BOW MODEL

- wide body shackle approved for lifting
- hot dip galvanized coating
- safety factor 5:1
- temperature durability -20 - (+)200 °C

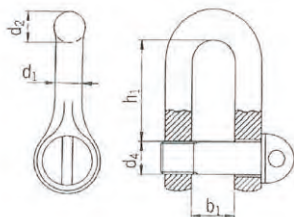


WLL	a	b	c	d	e	f	g	h	i	j	k	l	Weight	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
7	22	22	46	19	32	96	64	153	115	110	19	41	2	SAK70PLL
12.5	28	28	61	25	44	121	82	197	151	146	24	54	4	SAK125PLL
18	35	35	69	30	54	148	102	239	175	180	29	64	7	SAK180PLL
30	40	42	90	35	69	165	126	279	211	200	34	79	13	SAK300PLL
40	55	51	109	45	84	199	140	331	252	235	38	97	21	SAK400PLL
55	60	57	115	55	90	240	160	389	299	270	45	100	30	SAK550PLL
75	68	70	125	54	110	290	185	473	327	317	54	120	48	SAK750PLL
125	85	80	154	85	137	366	220	583	426	390	64	150	92	SAK1250PLL
150	94	95	179	89	147	391	253	645	435	434	50	170	140	SAK1500PLL
200	110	105	199	100	158	481	280	759	470	482	50	205	205	SAK2000PLL
250	126	120	227	110	179	542	300	859	519	530	60	240	264	SAK2500PLL
300	135	134	245	122	195	601	350	947	575	620	70	265	360	SAK3000PLL
400	160	160	293	145	231	576	370	985	675	690	80	320	580	SAK4000PLL
500	170	180	328	160	263	681	450	1131	748	790	90	339	780	SAK5000PLL
600	190	200	348	170	289	741	490	1234	809	865	100	370	980	SAK6000PLL
700	200	215	392	190	315	751	540	1284	879	901	100	400	1360	SAK7000PLL
800	218	230	420	200	342	851	554	1426	942	947	110	420	1430	SAK8000PLL
900	242	255	466	220	368	851	580	1488	1023	1023	120	440	1650	SAK9000PLL
1000	260	270	490	240	399	851	614	1532	1103	1107	120	460	2970	SAK10000PLL
1250	285	300	510	260	452	931	650	1666	1227	1182	150	530	3700	SAK12500PLL
1550	285	320	550	280	483	950	680	1710	1300	1253	150	560	4000	SAK15500PLL

Products' delivery time 1-2 weeks.

SHACKLES DIN 82101

- shackles approved for lifting
- electro galvanized
- safety factor 5:1



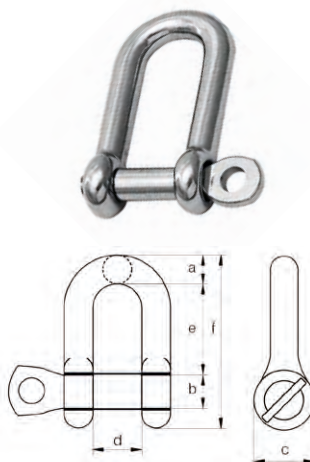
Also available as hot dip galvanized (0,4 - 50 t).

Size d4 mm	WLL t	b1 mm	d1 mm	d2 mm	h1 mm	Packing size pcs	Weight/ 100 pcs kg	Product code	Product code with locking
5	0,10	7	4	5	15	50	1,7	SAKD0100	-
6	0,16	8	5	6	18	50	2,4	SAKD0160	-
8	0,25	11	7	8	24	50	5,4	SAKD0250	-
10	0,40	14	8	10	30	25	9,7	SAKD0400	*SAKD0400L
12	0,63	17	10	12	36	25	18,0	SAKD0630	*SAKD0630L
16	1,00	21	13	15	49	25	30,0	SAKD1000	*SAKD1000L
20	1,60	27	17	19	61	25	57,0	SAKD1600	*SAKD1600L
22	2,00	30	19	21	67	1	98,0	SAKD2000	*SAKD2000L
24	2,50	33	21	23	73	1	130,0	SAKD2500	*SAKD2500L
27	3,15	38	24	26	84	1	185,0	SAKD3150	*SAKD3150L
30	4,00	42	27	29	91	1	253,0	SAKD4000	*SAKD4000L
36	5,00	47	30	33	111	1	400,0	*SAKD5000	*SAKD5000L
39	6,30	53	34	37	120	1	530,0	*SAKD6300	*SAKD6300L
45	8,00	60	38	41	140	1	790,0	*SAKD8000	*SAKD8000L
48	10,00	66	42	45	147	1	1000,0	*SAKD10000	*SAKD10000L
60	16,00	81	52	55	185	1	1920,0	*SAKD16000	*SAKD16000L
68	20,00	90	58	60	211	1	2800,0	*SAKD20000	*SAKD20000L
72	25,00	100	63	65	221	1	3400,0	-	*SAKD25000L
80	32,00	110	70	75	246	1	4900,0	-	*SAKD32000L
90	40,00	125	80	80	276	1	7500,0	-	*SAKD40000L

*items marked with an asterisk delivery time 2-3 weeks

STAINLESS STEEL SHACKLES

- D-shackles approved for lifting
- material AISI 316
- safety factor 5:1

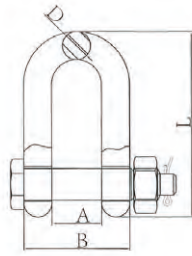


WLL t	a mm	b mm	c mm	d mm	e mm	f mm	Weight kg	Product code
0,40	8	8	16	16	32	52	0,06	SAKDH0400
0,60	10	10	19	20	40	64	0,12	SAKDH0600
0,90	12	12	24	25	48	78	0,21	SAKDH0900
1,50	13	16	31	24	52	90	0,34	SAKDH1500
2,50	16	20	38	28	64	110	0,61	SAKDH2500
3,00	19	22	44	32	72	124	0,90	SAKDH3000
4,00	22	25	50	37	74	134	1,08	SAKDH4000
6,00	25	30	57	40	94	162	2,25	SAKDH6000

Products' delivery time 1-2 weeks.

CHAIN SHACKLES

- can be joined directly to a lifting chain without a connecting link
- paint coated
- safety factor 4:1



For chain mm	WLL t	A mm	B mm	D mm	L mm	Weight kg	Product code
7/8	2,00	15	32	9	56	0,14	SAKSA78
10	3,15	21	43	11,5	71	0,27	SAKSA10
13	5,30	25	51	14,5	91	0,50	SAKSA13
16	8,00	30	63	17,5	111	0,89	SAKSA16

SNATCH BLOCKS 0,5 - 5,0T



- one- or two-wheel side opening snatch blocks for steel wire rope
- with hook ends
- with slide bearings, with grease nipple or aperture
- powder coated
- safety factor 4:1

WLL t	Max. rope diameter mm	Wheel diameter mm	L-size mm	Weight kg	Product code 1-wheel	Product code 2-wheel
0,5	8	75	225	1,7	VAP050075	-
1,0	10	100	260	3,2	VAP1000100	-
1,5	13	125	310	5,0	VAP1500125	-
2,0	16	150	380	8,3	VAP2000150	-
3,0	19	180	415	12,0	VAP3000180	VAP30180K2
4,0	22	200	480	18,0	VAP4000200	VAP40200K2
5,0	25	250	585	27,0	VAP5000250	VAP50250K2

Also other sizes available with 3-4 weeks delivery time.

SNATCH BLOCKS 4,0 - 22,0T



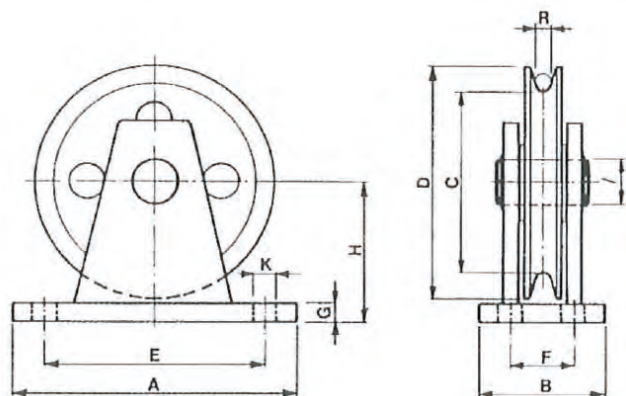
- one-wheel side opening heavy duty snatch blocks for steel wire rope
- ball bearing and with grease nipple (4 t model with slide bearing)
- safety factor 4:1

WLL t	Max. rope diameter mm	Wheel diameter mm	L-size mm	Weight kg	Product code with shackle
4	16 - 18	150	390	6	VAP4150S
8	20 - 22	200	505	16	VAP8200S
12	24 - 26	300	730	32	VAP12300S
22	28 - 32	360	910	89	VAP22360S

Also other sizes available with 3-4 weeks delivery time.

PULLEY WHEELS WITH BASE

- one-wheel pulleys with base attachment
- slide bearing
- electro galvanized / ground coating
- safety factor 4:1



WLL	Max. rope diam.	A	B	C	D	E	F	G	H	I	K	Weight	Product code
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
0,5	8	120	60	78	100	90	30	8	60	20	10	1,5	VAP05JAL
1,0	10	140	60	98	125	110	35	10	77	25	12	2,4	VAP10JAL
2,0	12	180	80	118	150	140	40	12	92	30	14	4,5	VAP20JAL
3,0	16	230	100	160	200	180	50	15	120	35	18	8,2	VAP30JAL
5,0	20	320	120	225	275	260	60	20	165	40	23	18,0	VAP50JAL

PULLEY WHEELS

- one-wheel pulleys with slide bearings
- ground coating
- safety factor 4:1



WLL	Max. rope diameter	Wheel diameter	Axle diameter	Weight	Product code
t	mm	mm	mm	kg	
0,5	8	100	20	0,8	VAPY05
1,0	10	125	25	1,5	VAPY10
2,0	12	150	30	3,0	VAPY20
3,0	16	200	35	6,0	VAPY30
5,0	20	275	40	13,0	VAPY50

11. LASHING SYSTEMS AND TRUCK BODY BUILDING EQUIPMENT

Lashing systems and accessories

Winches

Webbings and ratchets

Anti-slip mats

Cargo and rope nets

Towing slings

Lashing chains / binders

Lashing tracks & connectors

Truck body building p. 11-40

Crane lifting bases p. 11-66



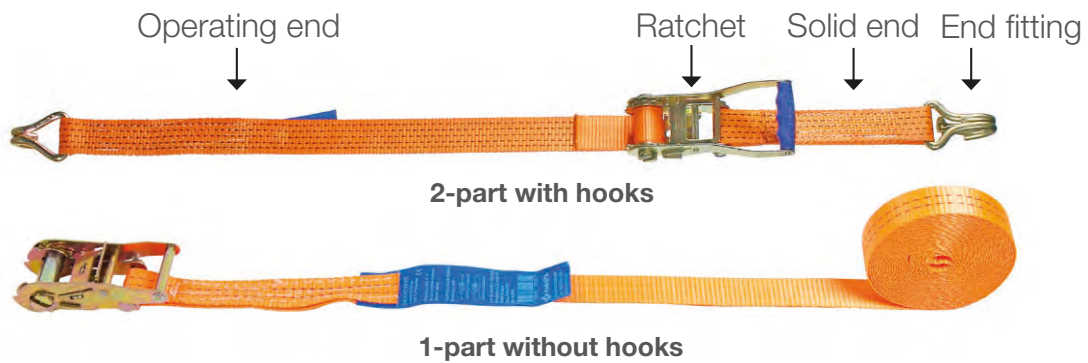
Thanks to our own production unit based in Finland, we can also make quick deliveries of special types and lengths as well as lashing systems with higher lashing capacities.

All lashing systems available as 1- or 2-part models, also in dimensions and with end fittings (starting from page 11-26) of customer's choice.

All Haklift lashing systems are in accordance with standard EN 12195-2.

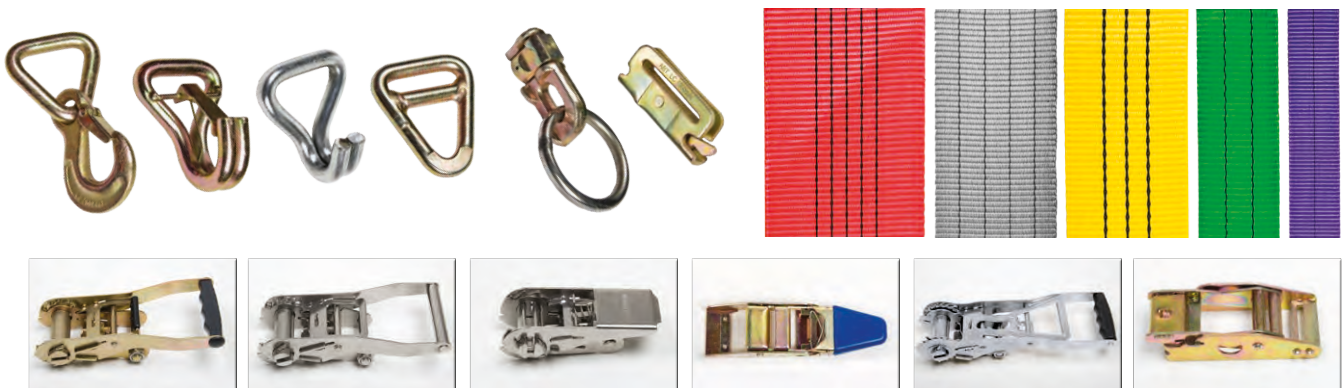


STRUCTURE OF RATCHET TIE DOWNS / LASHING SYSTEMS



END FITTINGS, WEBBINGS, RATCHETS

You can find more products starting from page 11-26.



The regulations regarding the lashing of cargo in road transport in Finland differ from those in the rest of the EU region. In Finland the regulation is Decree 940/82 of the Finnish Transport Agency.

In the EU region a term LASHING CAPACITY (LC) is in effect.

Webbing material is 100 % polyester.

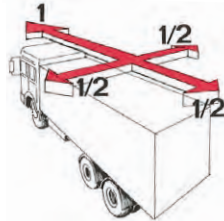
SECURING THE LOAD

Decree 940/82 of the Finnish Transport Agency FTA

APPLIES TO

- trucks
- truck trailers, when the total weight is over 3,5 t

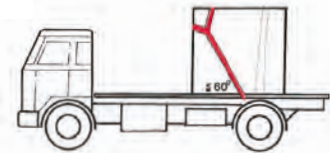
The load must be secured in a way that it will endure
 - weight of the entire load forward
 - half of the load weight sideways and backwards



ANGLE OF THE LASHING DEVICE

Greatest lashing force is achieved when the lashing device is in a horizontal position. The lashing force can be calculated according to the table below.

Angle of the lashing device	Lashing force % from the nominal capacity
0-60°	100
70°	70
80°	35
90°	25



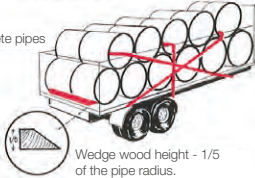
EXAMPLES OF CARGO SECURING

Heavy plate stacks



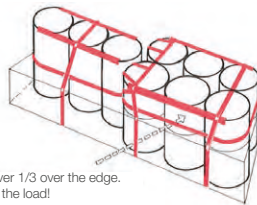
Tempered chain Ø 10mm (3/8").
 If lashing webbings are used, corner protectors must also be used.

Concrete pipes



Wedge wood height - 1/5 of the pipe radius.

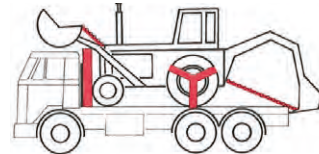
Paper rolls



Roll stands over 1/3 over the edge. Always cover the load!

TRANSPORTATION OF CONSTRUCTION MACHINES

1. Switch to the parking brake and to a small gear.
2. No machine part should rely merely on hydraulics. Dislocation during the journey must be prevented with a cylinder lock or other appropriate mechanic device.
3. Bind from a rigid or heavy axle.

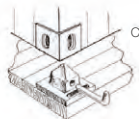


Prevent the device from moving sideways.



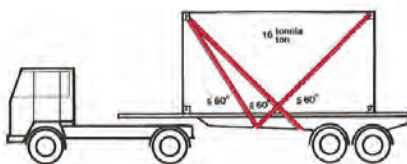
CONTAINER TRANSPORTATION

In the transportation of containers a vehicle equipped with container locks must primarily be used.



Container lock

If a container cannot be locked with container locks it must be bound with at least four separate bindings.



FRICTION AND LASHING FORCE

The amount of friction force depends on the roughness of contact surfaces and the weight of the load. It is weakened significantly by ice, impurities and dampness. The size of contact surface areas do not affect the friction force.

pallet	friction coefficient
dry	0,3
damp	0,2
snowy	0,1

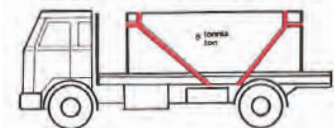
LASHING FORCES

Direction	Sling t	Friction coefficient = 0,2 0,2 x 16 t = 3 t	Total t	Requirement t (kN)
Forward ≤ 60° 4 x 3,5 t	14	3	17	16 tn (160 kN)
Sideways = 90° 0,25 x 6 x 3,5 t	5,3	3	8,3	8 tn (80 kN)
Backward ≤ 60° 2 x 3,5 t	7	3	10	8 tn (80 kN)

Example:

Vehicle load weight = 8 t
 Friction between load and pallet = 0,2
 Friction force (0,2 x 8 t) = 1,6 t (16 kN)
 In addition to friction the following securing requirements should be met:

- forward 8 tn - 1,6 tn = 6,4 tn (64 kN)
- sideways 4 tn - 1,6 tn = 2,4 tn (24 kN)
- backward 4 tn - 1,6 tn = 2,4 tn (24 kN)



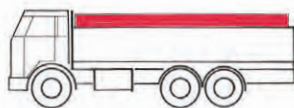
PLACING THE LOAD

Distribute the load equally length- and widthwise.

Pay attention to weight distribution.

Mass centre down.

Support the load against the front wall.



Support the load after partial unloading.



Pay attention to weight distribution.



LASHING SYSTEMS - WIDTH 25 MM



LC 400 KG, 5 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bag	400	800	0,4 + 4,6	25	50	SV100052EC
Bulk	400	800	0,4 + 4,6	25	50	SV100052ECI



LC 500 KG, 5 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	500	1000	0,4 + 4,6	25	40	SV100052I
Cardboard	500	1000	0,4 + 4,6	25	40	SV100052



LC 400 KG, 5 M STAINLESS AISI 304

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	400	800	0,4 + 4,6	25	50	SV100052R

LASHING SYSTEMS - WIDTH 25 MM



LC 400 KG, 5 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	400	800	0,3 + 4,7	25	50	SV100052SS



2 pcs/box

PREMIUM LC 750 KG, 5 M



Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Box	750	1500	0,3 + 4,7	25	2	SV100052PRE



LC 500 KG, 5 M 1-PART

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	400	800	5	25	50	SV100051

LASHING SYSTEMS - WIDTH 35 MM



LC 1000 KG, 6 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	1000	2500	0,5 + 5,5	35	20	SV150062I
Cardboard	1000	2500	0,5 + 5,5	35	20	SV150062



LC 1000 KG, 6 M
STAINLESS AISI 304

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	1000	2500	0,5 + 5,5	35	20	SV150062R

LASHING SYSTEMS - WIDTH 35 MM



PREMIUM 
LC 1000 KG, 6 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Box	1000	2500	0,4 + 5,6	35	1 / box	SV150062PRE



LC 1000 KG, 6 M
1-PART

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	1000	2500	6	35	18	SV150061

LASHING SYSTEMS - WIDTH 50 MM



LC 1700 KG, 10 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	1700	4000	0,5 + 9,5	50	10	SV2000102H
Cardboard	1700	4000	0,5 + 9,5	50	10	SV2000102P



LC 1500 KG, 10 M STAINLESS AISI 304

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	1500	3000	0,5 + 9,5	50	10	SV2000102R

LASHING SYSTEMS - WIDTH 50 MM



PREMIUM  LC 2000 KG, 10 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Box	2000	5000	0,4 + 9,6	50	1 / box	SV2500102PRE



LC 1700 KG, 10 M
WITH EYES, WITHOUT HOOKS

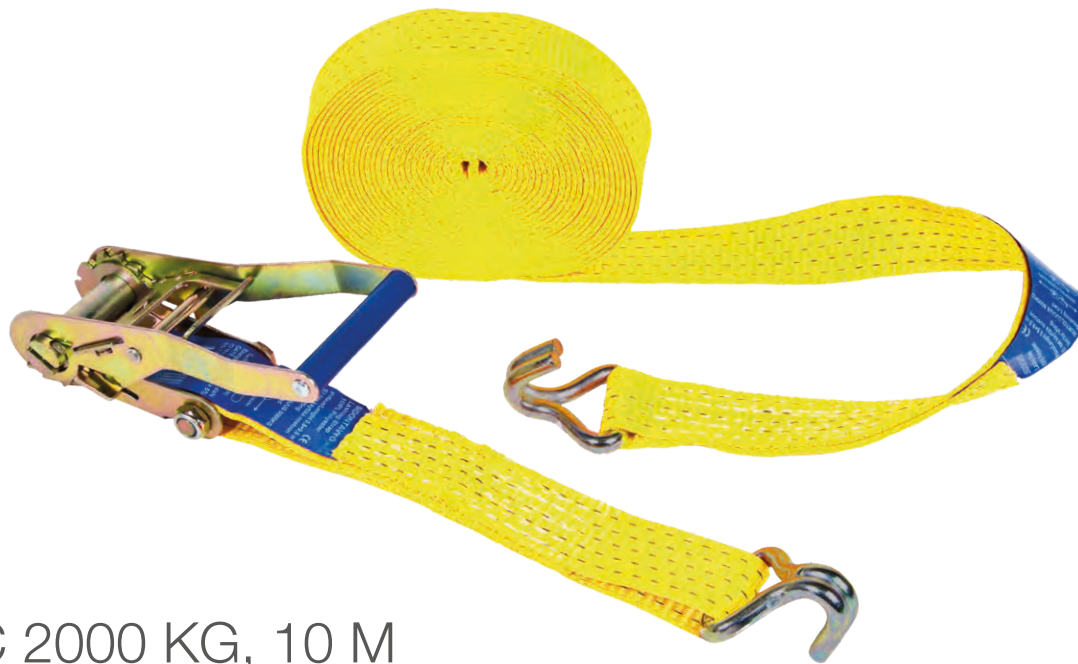
Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	1700	4000	0,5 + 9,5	50	10	SV2000102SI



LC 1700 KG, 10 M
1-PART

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	1700	5000	10	50	1	SV2000101

LASHING SYSTEMS - WIDTH 50 MM

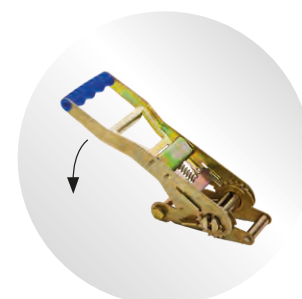


LC 2000 KG, 10 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	2000	5000	0,5 + 9,5	50	10	SV2500102



LC 2000 KG, 10 M
DOWNWARD TIGHTENING ERGO-MODEL



With long handle

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	2000	5000	0,5 + 9,5	50	8	SV2500102E

LASHING SYSTEMS - WIDTH 50 MM

LC 2000 KG, 10 M
1-PART

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	2000	5000	10	50	1	SV2500101



LC 2500 KG, 10 M

Color	Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Orange	Bulk	2500	5000	0,5 + 9,5	50	10	SV3500102
Green	Bulk	2500	5000	0,5 + 9,5	50	10	SV3500102N

LASHING SYSTEMS - WIDTH 50 MM



With long handle

LC 2500 KG, 10 M DOWNWARD TIGHTENING ERGO-MODEL

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	2500	5000	0,5 + 9,5	50	8	SV3500102E



LC 2500 KG, 10 M 1-PART

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	2500	5000	10	50	10	SV3500101

LASHING SYSTEMS - WIDTH 50 MM

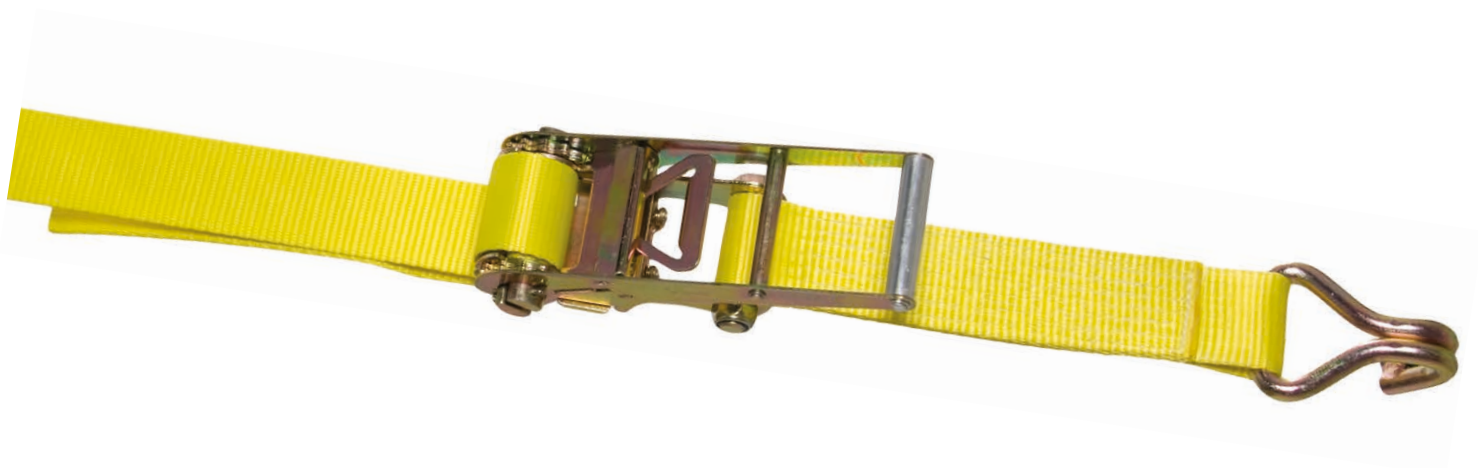


LC 3000 KG, 10 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	3000	6000	0,5 + 9,5	50	1	SV4300102

LASHING SYSTEMS - WIDTH 75 MM

- for lashing extremely heavy items on ships and carriages etc.

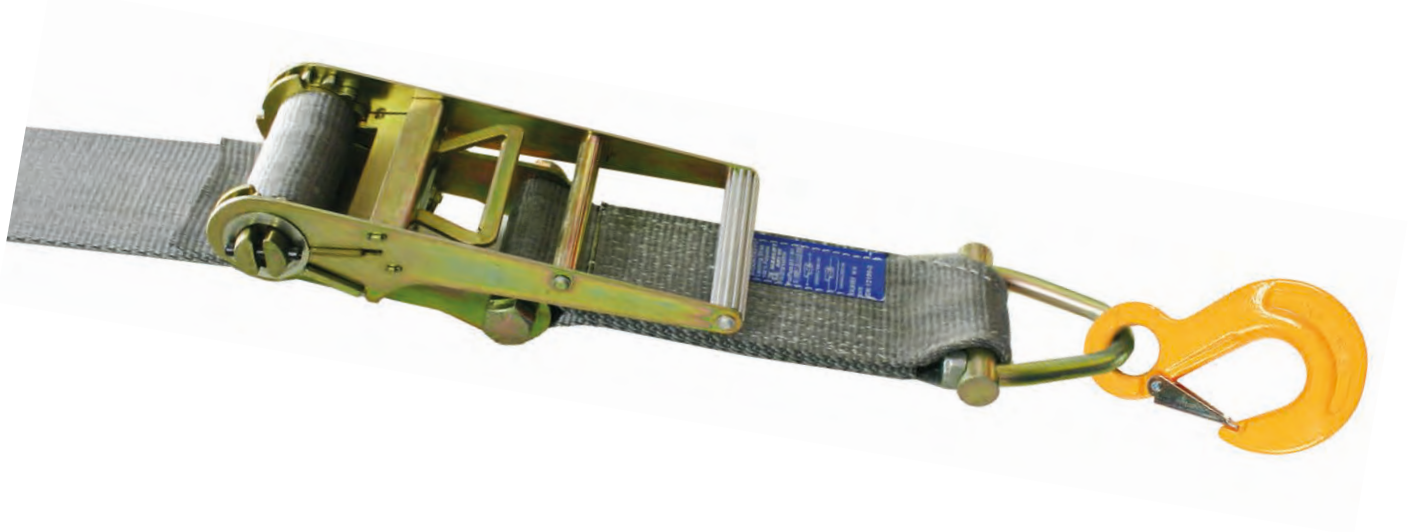


LC 4300 KG / MBL 10000 KG, 6 M / 10 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	4300	10000	0,5 + 5,5	75	4	SV700062
Bulk	4300	10000	0,5 + 9,5	75	1	SV7000102

LASHING SYSTEM - WIDTH 100 MM

- for lashing super heavy items on ships and carriages etc.
- forged hooks as standard end fittings



LC 6000 KG / MBL 12000 KG, 6 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	6000	12000	0,5 + 5,5	100	1	SV900062

LASHING SYSTEM - WIDTH 60 MM

- for lashing super heavy items on ships and carriages etc.
- forged hooks as standard end fittings



Ratchet wrench for ratchet tightener
Product code: SIVKI28

LC 5800 KG / MBL 15000 KG, 2,5 M

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	5800	15000	0,5 + 2,0	60	1	SV150252

LASHING SYSTEM FOR TRAILERS - WIDTH 50 MM

- for lashing trailers on ships
- standard end fittings forged hook and elephant hook
- webbing material 100 % polyester



MBL 10000 KG, 3 M

Package	Breaking strength (straight) kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	10000	0,5 + 2,5	50	1	SV10032

LASHING SYSTEM FOR TRAILERS - WIDTH 75 MM

- for lashing trailers on ships
- standard end fittings forged hook and elephant hook
- webbing material 100 % polyester



MBL 20000 KG, 3,0 M

Package	Breaking strength (straight) kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	20000	0,5 + 2,5	75	1	SV200252L

ROLLO LASHING SYSTEMS

- lashing system with a ratchet which is easy to operate especially due to the automatic webbing rewinding mechanism that also prevents webbings getting tangled
- suitable for lashing in transporters, trailers, boat trailers, vans or any equivalent
- ratchet unit can be bolted onto the floor



Package	LC	Breaking strength	Length	Webbing width	Retail-packing size	Packing size	Weight	Product code
	kg	kg	m	mm	pcs / bag	pcs / box	kg	
Bulk	250	500	3,0	25	-	24	0,75	ROLLO253
Bulk	600	1200	0,5 + 2,7	50	-	12	1,45	ROLLO503
Bag	250	500	3,0	25	2	12 bags	0,95	ROLLO253IP2
Bag	600	1200	0,5 + 2,7	50	1	10	1,65	ROLLO503IP1

TRACK LASHING SYSTEMS - WIDTH 45 MM

- for lashing from tracks of enclosed body trucks
- ratchet tightener
- steel double J-hooks as standard end fittings
- webbing material 100 % polyester



Hook profile

LC 1000 KG

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	1000	2000	1 + 3	45	25	SVR11004
Bulk	1000	2000	1 + 5	45	20	SVR11006



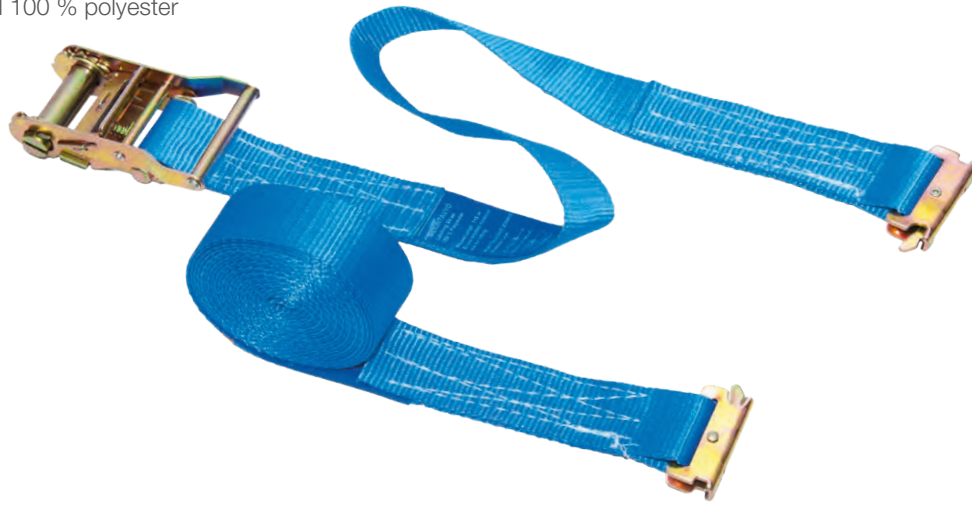
Hook profile

LC 500 KG

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Bulk	500	1000	1 + 3	45	25	SVR11004KI
Bulk	500	1000	1 + 5	45	20	SVR11006KI

TRACK LASHING SYSTEMS - WIDTH 45 MM

- with combi end fittings
- for lashing from tracks of enclosed body trucks
- ratchet tightener
- webbing material 100 % polyester



LC 750 KG

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	750	1500	1 + 3	45	25	SVR11004CO
Bulk	750	1500	1 + 5	45	20	SVR11006CO

TRACK LASHING SYSTEM - WIDTH 50 MM

- for lashing from tracks of enclosed body trucks
- Cr⁶⁺ free metal parts
- equipped with combi end fittings and webbing prints
- webbing material 100 % polyester

High quality
ratchet tightener



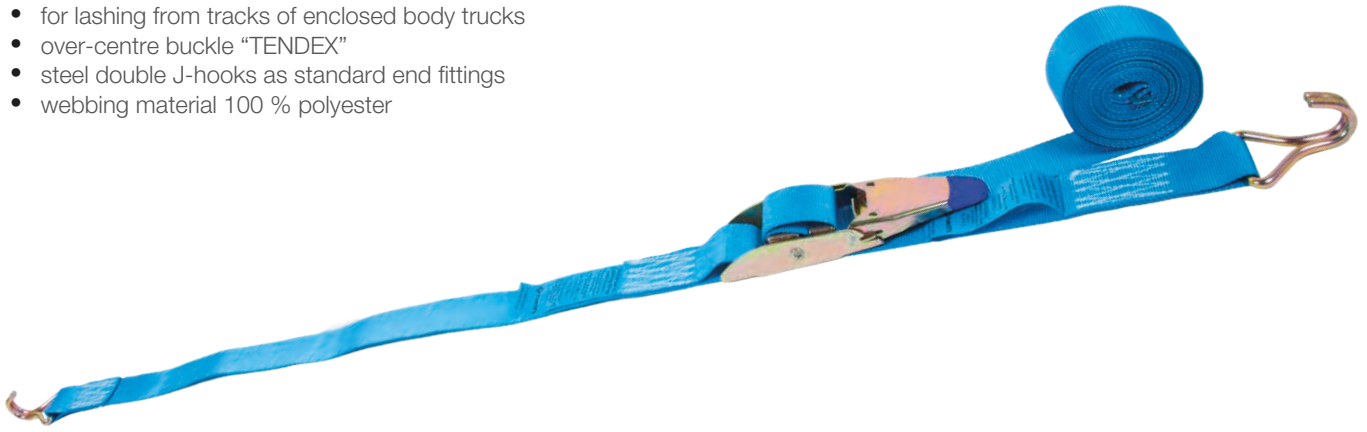
PREMIUM LC 1000 KG, 4 M



Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs / box	Product code
Box	1000	2000	1 + 3	50	1	SVR11004COPRE

TRACK LASHING SYSTEMS - WIDTH 45 MM

- for lashing from tracks of enclosed body trucks
- over-centre buckle "TENDEX"
- steel double J-hooks as standard end fittings
- webbing material 100 % polyester



LC 1000 KG

Package	LC kg	Breaking strength kg	Length m	Webbing width mm	Packing size pcs	Product code
Bulk	1000	2000	1 + 3	45	24	SV1100T4
Bulk	1000	2000	1 + 5	45	24	SV1100T6

CAR LASHING SYSTEM - WIDTH 35 MM

- for lashing a car onto a car trailer
- lashing from the car wheels
- webbing material 100 % polyester



LC 1000 KG, 3,2 M

Package	LC kg	Breaking strength kg	Webbing length m	Webbing width mm	Packing size pcs	Product code
Bulk	1000	3000	3,1	35	20	SVAU150032

CAR LASHING SYSTEMS - WIDTH 35 MM

- for lashing a car onto a car trailer
- lashing from the car wheels
- webbing material 100 % polyester



LC 1000 KG, 2,3 M

Webbing color	Package	LC	Breaking strength	Length	Webbing width	Packing size	Product code
		kg	kg	m	mm	pcs	
Blue	Bulk	1000	3000	0,3 + 2,0	35	20	SVAU150023S
Orange	Bulk	1000	3000	0,3 + 2,0	35	20	SVAU150023O

CAR LASHING SYSTEM - WIDTH 50 MM

- for lashing a car to a car transporting vehicle
- hooks can be fitted directly to holes on the transporting platform
- lashing over the wheel in the same direction
- webbing material 100 % polyester



LC 1500 KG, 1,8 M

Package	LC	Breaking strength	Length	Webbing width	Packing size	Product code
	kg	kg	m	mm	pcs	
Bulk	1500	3000	0,3 + 1,5	50	1	SVAU2000

ROLLER FOR WEBBING

- handy tool for rolling lashing webbings
- due to guiding rolls no hand guiding is needed
- saves a lot of work time
- weight 0,8 kg

Product code: RULLARIMT



BATTERY OPERATED ROLLER FOR WEBBING

- handy and quick tool for rolling lashing webbings
- equipped with 12 V Li-ion 2,0 Ah battery and charger
- due to guiding rolls no hand guiding is needed
- saves a lot of work time

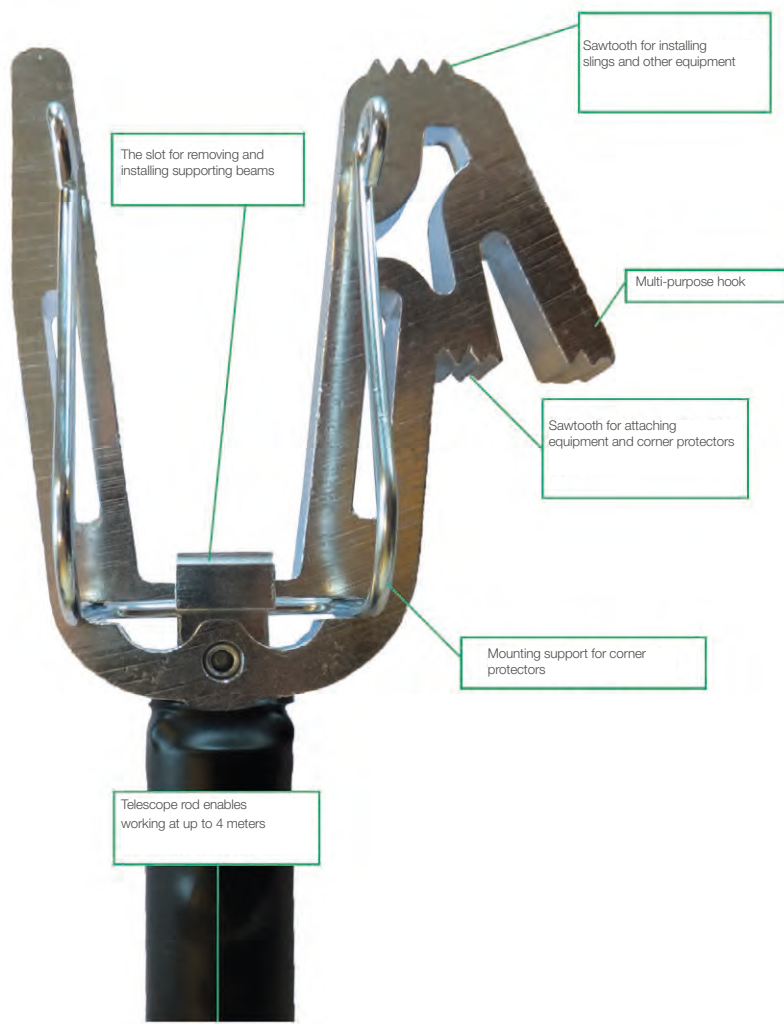
Product code: RULLARIA



SECU-STICK

Makes work easier and faster, removes the need for climbing and improves work safety!

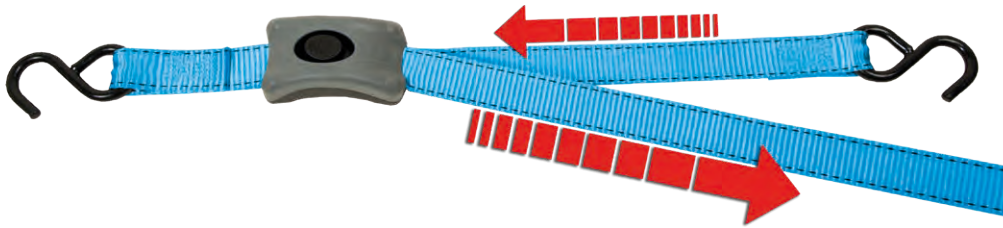
Aluminium Secu-stick is the tool for removing and installing vertical supporting beams of tarpaulin covered trucks and to make the installing of corner protectors easier in high target areas. The driver has no need to climb - the stick is fully operationable from the ground level with significantly lower risk of causing accidents or injuries. Secu-Stick is equipped with a telescopic arm and corner protector mounting device.



Product	Adjustment height	Weight	Product code
	mm	kg	
Secu-stick	860 - 1750	0,50	SECU

LASHING SYSTEM WITH QUICK LOCKING

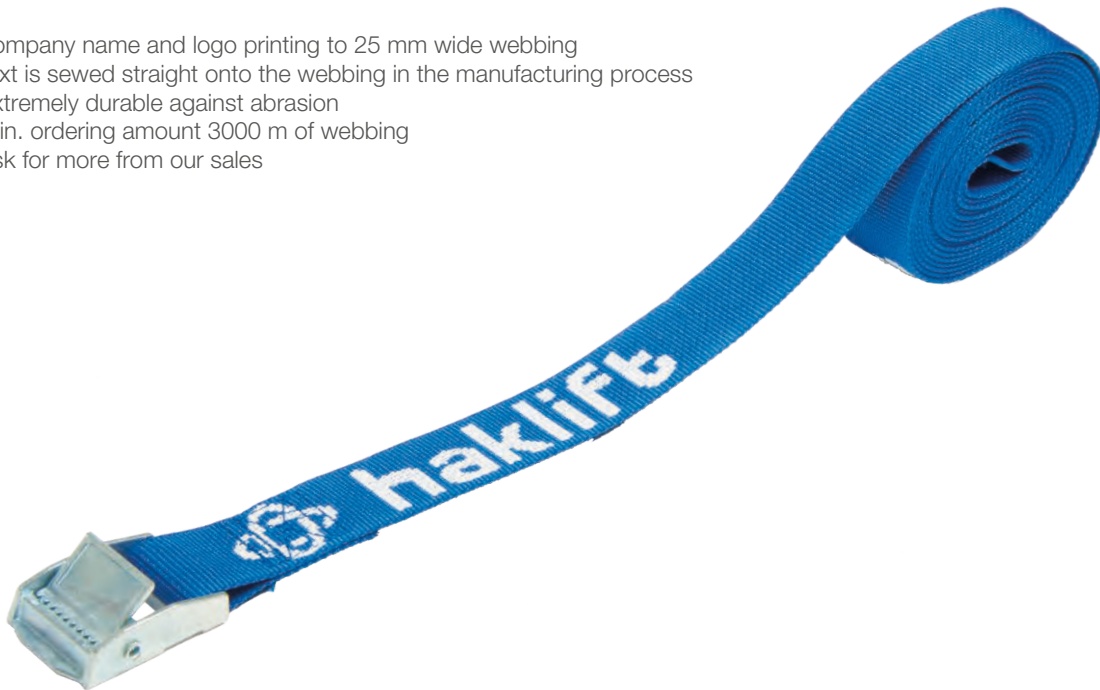
- easy to use and quick lashing system with quick locking
- tightening by pulling the strap, releasing by pressing the button of the buckle
- packed in a retail carton shown in the picture



Breaking strength	Webbing width	Length	Packing size	Product code
kg	mm	m	pcs / box	
500	25	2,5	16	SVPLU525

NAME PRINTING TO WEBBING

- company name and logo printing to 25 mm wide webbing
- text is sewed straight onto the webbing in the manufacturing process
- extremely durable against abrasion
- min. ordering amount 3000 m of webbing
- ask for more from our sales



CAM BUCKLE STRAPS

- for bundling and lashing for different purposes from industry to hobbies
- webbing width 25 mm
- webbing material 100 % polyester
- also available in other lengths and end fittings e.g. 35 and 50 mm webbing



Color	Length	Packing size	Packing size	Product code
	m	pcs / bag	pcs / box	
Black	0,5	10	100	SVPL25005M
Red / Black	1,0	10	100	SVPL2501P / SVPL2501M
Black	1,5	10	100	SVPL25015M
Orange / Black / Red	2,0	10	100	SVPL2502O / SVPL2502M / SVPL2502P
Blue / Black	3,0	10	100	SVPL2503S / SVPL2503M
Black	4,0	10	100	SVPL2504M
Blue	4,0	10	100	SVPL2504S
Black	5,0	10	100	SVPL2505M
Blue	6,0	10	100	SVPL2506S

RETAIL-PACKED CAM BUCKLE STRAPS



Color	Length	Packing size	Packing size	Product code
	m	pcs / bag	bag / box	
Black	0,5	2	50	SVPL25005IPV
Red	1,0	2	50	SVPL2501IPV
Orange	2,0	2	50	SVPL2502IPV
Blue	3,0	2	50	SVPL2503IPV
Black	5,0	2	50	SVPL2505IPV

CAM BUCKLE STRAP ASSORTMENT

Contents:

- 8 pcs / 1,0 m Red
- 8 pcs / 2,0 m Orange
- 8 pcs / 3,0 m Blue
- 8 pcs / 5,0 m Black

Product code: SVPL250LABT



RETAIL SHOWCASE

Handy retail showcase for retail-packed lashing straps and small lashing straps. Great on the shop counter etc. Ask more from our sales.

Product code: SIVTELINE (only the rack)



7-PART LASHING SYSTEM SET

Lashing system set packed in a plastic box with a handle.

- | | |
|-----------------------------------|-------|
| Lashing system 6 m LC 1000 daN | 2 pcs |
| Lashing system 5 m LC 400 daN | 2 pcs |
| Cam buckle strap 3 m | 2 pcs |
| Warning flag for extra long loads | 1 pc |

Product code: SV7SETTI



ANTI-SLIP MATS


- available in rolls or pieces
- for transportations to e.g. under a pallet to reduce the gliding of the transported goods and to reduce the need to lash the cargo, so that fewer and less strong lashing systems can be used
- suitable for almost all materials, does not stick
- material (recyclable) rubber / polyurethane
- coefficient of friction min. 0.81 - wooden pallet and truck floor (VDI 2700 Sheet 14)
- operating temperature -30 °C - (+)100 °C
- sold in full rolls



Type	Mat thickness	Roll width / size	Roll length	Loading strength	Tensile strength	Packing size	Weight	Product code
	mm	mm	m	t/m2	N/mm2	pcs	kg/m ²	
Roll	3	1250	20	125	0,6	-	2,7	KITMA3R
Roll	3	300	20	125	0,6	-	2,7	KITMA3R300
Roll	5	1250	12	170	0,6	-	4,5	KITMA5R
Roll	6	1250	10	170	0,6	-	5,4	KITMA6R
Roll	8	1250	8	200	0,6	-	7,2	KITMA8R
Roll	10	1250	6	200	0,6	-	9,0	KITMA10R
Piece	5	250 x 250	-	170,0	0,6	20 / stack		KITMA5250


Also custom size mats available. Ask for more!

LASHING STRAP END FITTINGS




Double J-hooks

LC code	Webbing width	Product
800 kg	25 mm	KO25016
1500 kg	35 mm	KO3503
2500 kg	50 mm	KO5005
3000 kg	50 mm	KO5006
5000 kg	75 mm	KO7510




Double J-hooks with latch

LC	Webbing width	Product code
1500 kg	35 mm	KOSA353IXI
2500 kg	50 mm	KOSA505IXI




Double J-hooks, large opening

LC	Webbing width	Product code
2500 kg	50 mm	KO5005ISO
Opening 16 mm		
2500 kg	50 mm	KO5005ISO20
Opening 20 mm		




Double J-hooks, Cr6 free

LC	Webbing width	Product code
500 kg	25 mm	KO2510CR
1500 kg	35 mm	KO3530CR
2500 kg	50 mm	KO5050CR




Coated S-hook

LC code	Webbing width	Product
800 kg	25 mm	KOS2508




Double J-hooks with latch, Cr6 free

LC	Webbing width	Product code
2500 kg	50 mm	KO5050CRIXI




AISI 304 Stainless double J-hooks

LC	Webbing width	Product code
400 kg	25 mm	KO25008RT
1000 kg	35 mm	KO3503RT
1500 kg	50 mm	KO5004RT



Triangle hooks


LC	Webbing width	Product code
1250 kg	35 mm	KOK35025
1500 kg	50 mm	KOK503
2500 kg	50 mm	KOK505



Track hooks

LC	Webbing width	Product code
500 kg	50 mm	KOKI5016
1000 kg	50 mm	KOKI5020


LC	Webbing width	Product code
800 kg	50 mm	KIKL5002



Carbine hooks


LC	Webbing width	Product code
2500 kg	50 mm	KOKS505S

LC	Webbing width	Product code
2500 kg	50 mm	KOKS505K



Latch hooks


LC	Webbing width	Product code
2500 kg	50 mm	KOSA5005



Strap hooks


LC	Webbing width	Product code
6500 kg	65 mm	KO6512
7500 kg	65 mm	KO6515

LC	Webbing width	Product code
10000 kg with swivel	65 mm	KO6520



Winch hooks

LC	Product code
1750 kg	VINKOU35
















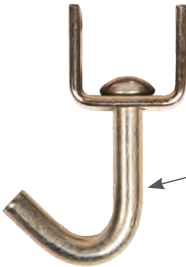



Bar hooks

LC	Webbing width	Product code
2500 kg	50 mm	KOPAL50

LC	Webbing width	Product code
1250 kg	50 mm	KOPAL25

LASHING STRAP END FITTINGS

Triangle and ring ends				Special ends to airplane and vertical track			
	LC 400 kg 750 kg	Webbing width 25 mm 35 mm	Product code KOL2501 KOL3503		LC 900 kg	Product code EP18 + KIP1800	
	LC 2500 kg 3000 kg	Webbing width 50 mm 50 mm	Product code KOL5005 KOL5006		LC 1250 kg	Product code EP25	
	LC 2500 kg	Webbing width 50 mm	Product code KOL5005L		LC 1150 kg	Product code EP25E	
	LC 2000 kg	Webbing width 50 mm	Product code KOL5005R		LC 1150 kg	Product code EP26	
	LC 3000 kg	Webbing width 50 mm	Product code KOL5006LH		LC 2500 kg	Product code EP50	
	LC 10000 kg 6000 kg	Webbing width 60/75 mm 60/75 mm	Product code KOL7515 KOL7512		Combi track end LC 750 kg Webbing width 50 mm Product code COM5002		
	LC 2250 kg	Webbing width 50 mm	Product code RESVAU	Direct attachment hooks with swivel for ratchet tightener and webbing Attached directly to ratchet tightener			
	LC ---	Webbing width 50 mm	Product code RESV1100	LC 1500 kg 1500 kg 1500 kg	Webbing width 35 mm 35 mm (50 mm tightener) 50 mm	Product code KOSL35 KOSL5550 KOSL50	
	Direct attachment hooks for ratchet LC 1500 kg Webbing width 35 mm Product code KOS3503 LC 2500 kg Webbing width 50 mm Product code KOS5005			 <p>Hook product code: KOSLTAPPI</p>			
	LC 1500 kg Webbing width 35 mm Product code KOS35031 LC 2500 kg Webbing width 50 mm Product code KOS50031						

RATCHET TIGHTENERS FOR LASHING SYSTEMS



Product code: SVKI800
LC 400, 25 mm webbing

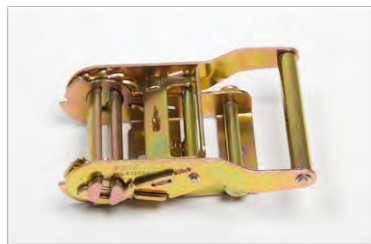


AISI 304

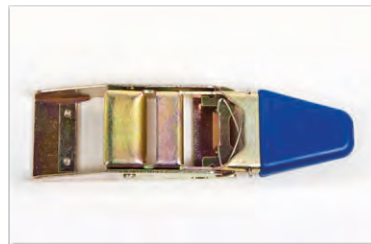
Product code: SVKI800R
LC 400 kg, 25 mm webbing
Stainless AISI 304



Product code: SVKI1600
LC 750 kg, 25 mm webbing



Product code: SVRKI1100
LC 1000 kg, 50 mm webbing
For track lashing systems



Product code: SVKI1100T
LC 1000 kg, 45 mm webbing
For "Tendex" lashing systems



Product code: SVKI1100
LC 1000 kg, 45 mm webbing
Over-centre buckle



Product code: SVKI1500
LC 1250 kg, 35 mm webbing



AISI 304

Product code: SVKI1500R
LC 1000 kg, 35 mm webbing
Stainless AISI 304



AISI 304

Product code: SVKI2000R
LC 1500 kg, 50 mm webbing
Stainless AISI 304



AISI 316

Product code: SVKI2000AIS1
LC 1500 kg, 50 mm webbing
Stainless AISI 316



Product code: SVKI2035
LC 2500 kg, 50 mm webbing



ERGO

Product code: SVKI2035ERGO
LC 2500 kg, 50 mm webbing
Ergo, downward tightening



EXTRA STRONG

Product code: SVKI3000
LC 3000 kg, 50 mm webbing,
Extra strong

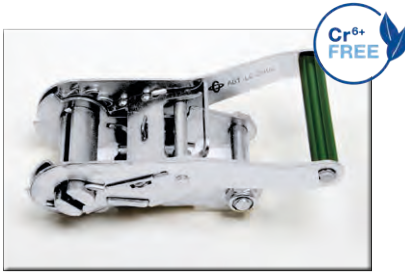


Product code: SVKI7000
LC 5000 kg, 75 mm webbing



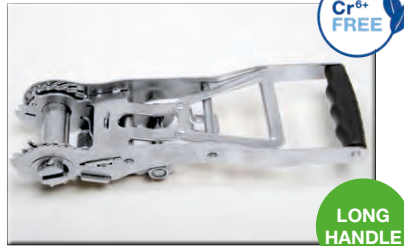
Product code: SVKI9000
LC 5000 kg, 100 mm webbing

Cr⁶⁺ FREE RATCHET TIGHTENERS FOR LASHING SYSTEMS



Cr⁶⁺ FREE

Product code: SVKI2000LCR
LC 2500 kg, 50 mm webbing
Cr⁶⁺ free metal parts



Cr⁶⁺ FREE

LONG HANDLE

Product code: SVKI2235P
LC 2500 kg, 50 mm webbing
Long model, Cr⁶⁺ free metal parts



Cr⁶⁺ FREE

Product code: SVKI1000CR
LC 1000 kg, 25 mm webbing
Premium, Cr⁶⁺ free metal parts



Cr⁶⁺ FREE

Product code: SVKI1500CR
LC 1500 kg, 35 mm webbing
Premium, Cr⁶⁺ free metal parts



Cr⁶⁺ FREE

Product code: SVKI2035CR
LC 2500 kg, 50 mm webbing
Premium, Cr⁶⁺ free metal parts

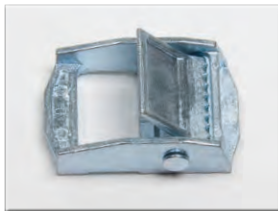


Cr⁶⁺ FREE

ERGO

Product code: SVKI2035CRERGO
LC 2500 kg, 50 mm webbing
Premium, Cr⁶⁺ free metal parts
Ergo, downward tightening

CAM BUCKLES FOR STRAPS



Product code: SVPL250LU
Breaking strength: 250 kg
25 mm webbing



Product code: SVPL250GR
Breaking strength: 250 kg
25 mm webbing



Product code: SVPL250LUM
Breaking strength: 250 kg
25 mm webbing



AISI 304

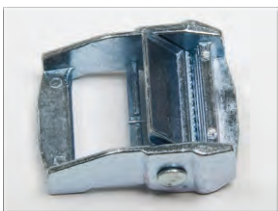
Product code: SVPL250LA
Stainless, break. strength: 250 kg
25 mm webbing



Product code: SVPL400LU
Breaking strength: 450 kg
25 mm webbing



Product code: SVPL600LU
Breaking strength: 600 kg
25 mm webbing



Product code: SVPL1100LU
Breaking strength: 600 kg
35 mm webbing



Product code: SVPL1500LU
Breaking strength: 1000 kg
50 mm webbing

POLYESTER WEBBINGS 25 - 45 mm

- webbings are sold in full 100 m rolls



Red
Product code: PEH2514PUN Breaking strength: 1200 kg
Width: 25 mm



Green
Product code: PEH2514NATO Breaking strength: 1200 kg
Width: 25 mm



Black
Product code: PEH25014MU Breaking strength: 1200 kg
Width: 25 mm



White
Product code: PEH251400V Breaking strength: 1200 kg
Width: 25 mm



Orange
Product code: PEH25130 Breaking strength: 1200 kg
Width: 25 mm



Grey
Product code: PEH25140HA Breaking strength: 1200 kg
Width: 25 mm



Sand brown
Product code: PEH2514NATO Breaking strength: 1200 kg
Width: 25 mm



Blue
Product code: PEH25130SI Breaking strength: 1200 kg
Width: 25 mm



Black
Product code: PEH25200M Breaking strength: 2200 kg
Width: 25 mm



Nato-green
Product code: PEH3530NATO Breaking strength: 3000 kg
Width: 35 mm



Grey
Product code: PEH303 Breaking strength: 3000 kg
Width: 35 mm



Orange
Product code: PEH35300RU Breaking strength: 3000 kg
Width: 35 mm



White
Product code: PEH3530V Breaking strength: 3000 kg
Width: 35 mm



White
Product code: PEH3540V Breaking strength: 4000 kg
Width: 35 mm



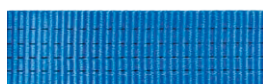
Orange
Product code: PEH45300RU Breaking strength: 3000 kg
Width: 45 mm



Blue
Product code: PEH45KELA Breaking strength: 3000 kg
Width: 45 mm

POLYESTER WEBBINGS 50 - 300 mm

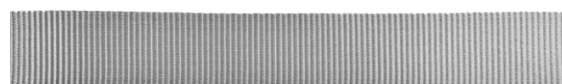
- webbings are sold in full 100 m rolls



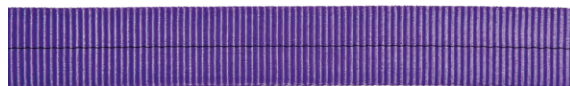
Blue
 PEH50500RU
 Breaking strength: 5000 kg
 Width: 50 mm



Green
 PEH5047NATO
 Breaking strength: 5000 kg
 Width: 50 mm



Grey
 Product code: PEH5060
 Breaking strength: 6000 kg
 Width: 50 mm



Purple
 Product code: PEH50430K
 Breaking strength: 4000 kg
 Width: 50 mm



Yellow
 Product code: PEH5063V
 Breaking strength: 6300 kg
 Width: 50 mm

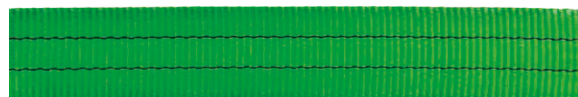


White
 Product code: PEH506370V
 Breaking strength: 7500 kg
 Width: 50 mm



Orange
 Product code: PEH50750R
 Breaking strength: 7500 kg
 Width: 50 mm

Orange
 Product code: PEH5090
 Breaking strength: 9000 kg
 Width: 50 mm



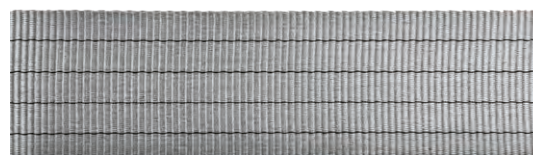
Green
 Prod. code: PEH60860RA
 Breaking strength: 8600 kg
 Width: 60 mm



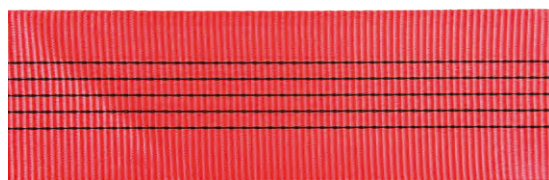
Yellow
 Product code: PEH75131
 Breaking strength: 13000 kg
 Width: 75 mm



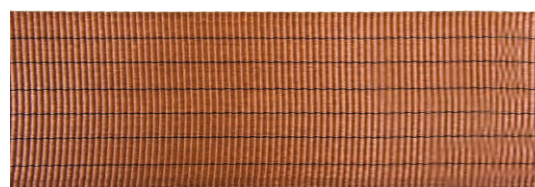
Yellow
 Product code: PEH9010
 Breaking strength: 13000 kg
 Width: 90 mm



Grey
 Prod. code: PEH100180R
 Prod. code: PEH12018R
 Breaking strength: 18000 kg
 Width: 100 mm
 Width: 120 mm



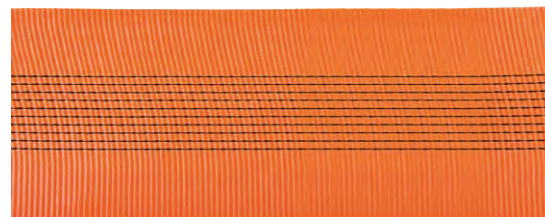
Red
 Prod. code: PEH15022PUN
 Breaking strength: 22000 kg
 Width: 150 mm



Brown
 Prod. code: PEH180RURU
 Breaking strength: 26000 kg
 Width: 180 mm



Blue
 Product code: PEH24036
 Breaking strength: 36000 kg
 Width: 240 mm



Orange
 Prod. code: PEH300540R
 Breaking strength: 54000 kg
 Width: 300 mm

LASHING CHAINS FOR LOAD BINDERS

- for lashing extremely heavy items on ships and carriages etc.
- latch hooks as standard end fittings
- short link chain black or shiny electro galvanized chain
- also available with grade 100 components, ask more from our sales



Chains are packed in retail bags.



Chain size	LC	Breaking strength	Standard length	Weight	Product code	Product code
mm	kg	kg	m	kg	electro galvanized	black
6	2250	4500	5	4,6	SIK0605K	SIK0605
8	4000	8000	5	8,4	SIK0805K	SIK0805
10	6300	12600	5	12,7	SIK1005K	SIK1005
13	10600	21200	5	21,9	SIK1305K	SIK1305
16	16000	32000	5	34,6	-	SIK1605

LONG LINK LASHING CHAINS, GRADE 80

- for lashing extremely heavy cargo on ships and timber trucks' automatic lashing devices
- sold by the meter or specific size with various hook etc. end fittings
- paint coated



Chain size	Chain size (inner width x inner length)	LC	Breaking strength	Weight	Product code
mm		kg	kg	kg / m	
6	10 x 35	2250	4500	0,65	SIK06P
9	16 x 57	5000	10000	1,50	SIK09P
11	18 x 66	7500	15000	2,10	SIK11P
13	25 x 81	10500	21000	2,90	SIK13P

LONG LINK LASHING CHAIN, GRADE 100

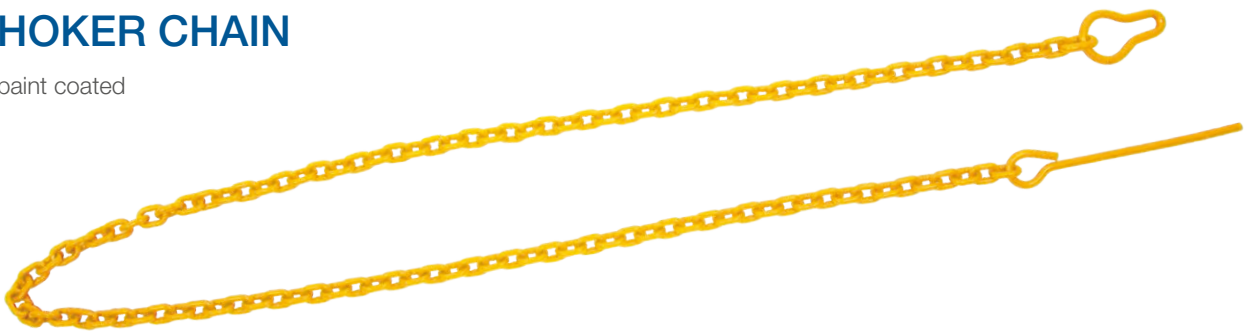
Grade 100 chain. For lashing extremely heavy cargo on ships and timber trucks' automatic lashing devices. Sold by the meter or specific size with various hook etc. end fittings. Paint coated.



Chain size mm	Chain size (inner width x inner length)	LC kg	Breaking strength kg	Weight kg /m	Product code
6	10 x 35	2800	5600	0,65	SIK1006P

CHOKER CHAIN

- paint coated



Chain mm	Breaking strength kg	Chain length m	Spike length mm	Weight kg	Packing size pcs / box	Product code
7	6800	2,3	250	2,85	5	JKE23

LASHING WIRES

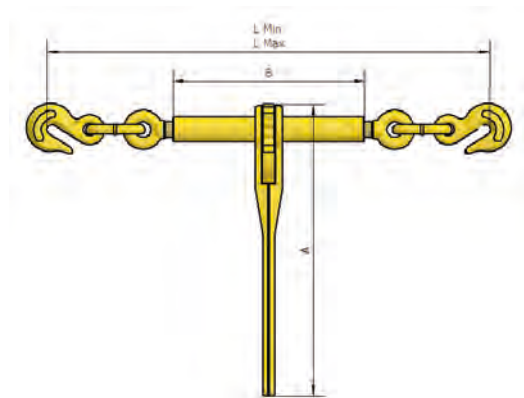
- operates with a similarity to an iron wire
- for lashing e.g. construction scaffolds
- on wooden reels



Size mm	No. of wires	Length on the reel m	Product code
3	1 x 19	3000	SIVAI0319
2,4	1 x 7	1000	SIVAI024

LOAD BINDERS FOR LASHING - RATCHET TYPE

- for short link lashing chains
- binders with direction switch and grab hook ends
- paint coated



EN load binders' hooks are equipped with locking and vanes for holding the chain in place.

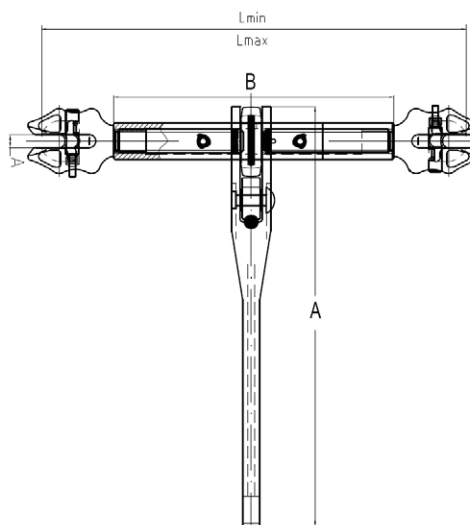
Chain size mm	Breaking strength kg	LC kg	L min. - L max. mm	A mm	B mm	Weight kg	Product code
6	3500	1750	415 - 515	226	170	1,65	VA6
8 - 10	8400	4200	575 - 735	370	255	4,6	VA8
10 - 13	14700	7350	595 - 765	370	255	5,1	VA1013
13 - 16	21000	10500	690 - 840	370	260	7,18	VA16

EN 12195-3 load binders

8	8000	4000	584 - 744	370	255	4,9	VA8EN
10	12600	6300	604 - 769	370	255	5,4	VA10EN
13	20000	10000	702 - 852	370	255	7,3	VA13EN
16	32000	16000	740 - 890	370	260	10,5	VA16EN

LOAD BINDER FOR LIFTING AND LASHING

- can be used for lifting and load lashing
- equipped with chain locking pin
- for short link chains
- paint coated



Chain size mm	WLL t	Breaking strength kg	LC kg	L min. mm	L max. mm	A mm	B mm	Weight kg	Product code
10	3,15	12600	6300	395	555	278	260	3,9	VA10N

QUICK LOAD BINDERS - LEVER TYPE

- for short link lashing chains
- tensioning with eccentric joint by turning the handle
- tensioning reserve approx. 120 mm
- paint coated



Chain size mm	Breaking strength kg	LC kg	Tensioning reserve approx. mm	Weight kg	Product code
8	8600	4300	120	3,8	PK810
10 – 13	15000	7500	120	5,5	PK1013

LASHING LEVERS

- for long link lashing chains
- only for lashing cargo on ships (not approved for road transport)
- paint coated



Chain size mm	Breaking strength kg	Weight kg	Product code
9	10000	3,5	KAR9
11	15000	3,9	KAR11
13	20000	6,0	KAR13

MARINE HAMBURGER TURNBUCKLES

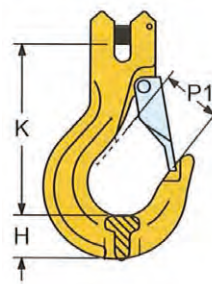
- for tightening a steel rope and a steel chain
- tensioning reserve approx. 240 mm
- non-coated



Steel wire rope size mm	Breaking strength kg	Thread size	Weight kg	Product code
12 – 14	13000	M24	2,9	HAV13
16 – 18	20000	M27	3,0	HAV20

CLEVIS HOOKS WITH LATCH FOR LASHING CHAINS

- hook is attached directly to the chain without a connecting link
- grade 80



For chain mm	LC t	Breaking strength t	K mm	H mm	P1 mm	Weight kg	Product code
6	2,25	4,5	75	20	18	0,35	SALKH6
8	4,0	8,0	83	26	22	0,60	SALKH78
10	6,3	12,6	105	37	30	1,06	SALKH10
13	10,6	21,2	127	48	40	1,80	SALKH13
16	16,0	32,0	150	60	54	3,40	SALKH16

CLEVIS HOOKS FOR LASHING CHAINS

- hook is attached directly to the chain
- for long link chains



For chain mm	Breaking strength t	Weight kg	Product code
9	10	0,5	AKOHS09
11	15	0,9	AKOHS11
13	21	1,1	AKOHS13

PELICAN HOOK

- hook opens / triggers quickly by hitting
- for chain or steel rope



Breaking strength t	Weight kg	Product code
17	1,6	PELISH16

CONTAINER HOOK

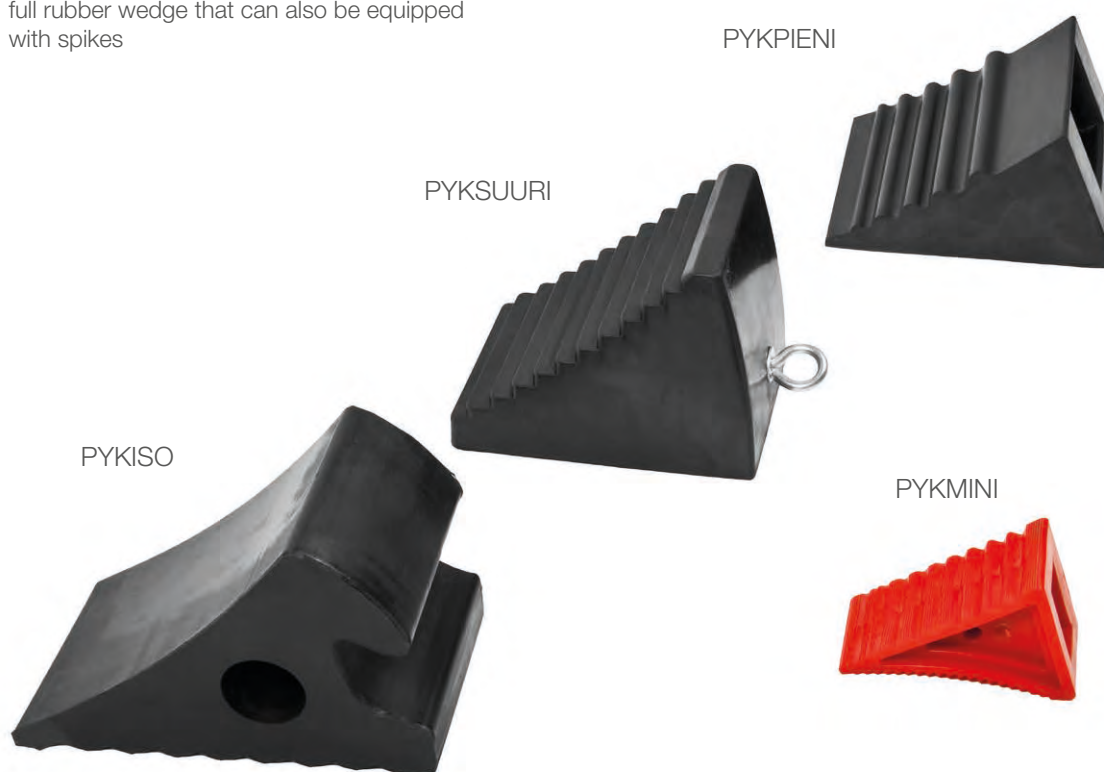


Container wire ropes can be found on page 13-4.

Breaking strength t	Attachment method	Weight kg	Product code
20	Bolting	2,6	SILVKOU

TRAILER WHEEL CHOCKS

- full rubber wedge that can also be equipped with spikes



Dimensions (l x w x h)	Color	Weight kg	Product code
170 x 100 x 95	Red	0,60	PYKMINI
243 x 230 x 127	Black	3,80	PYKPIENI
290 x 190 x 150	Black	5,30	PYKISO
240 x 190 x 165	Black	6,10	PYKSUURI

PVC CARGO TARPAULINS

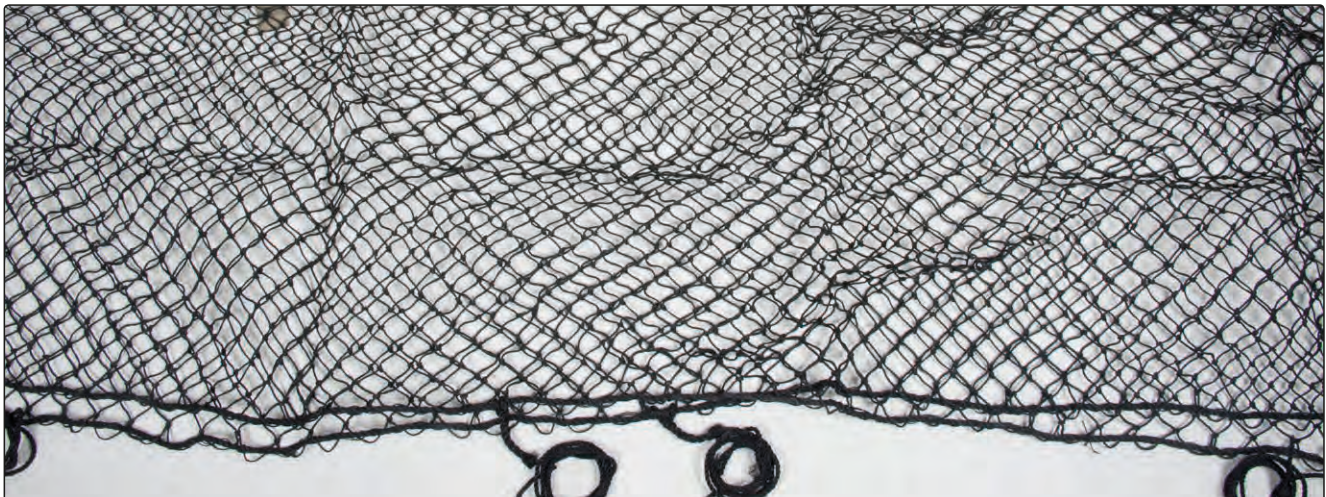
- holes reinforced with metal approx. every 1 metre on the edges
- approx. 1,5 m lashing ropes are included in the delivery (detached)
- lashing rubbers can also be used with the tarpaulin
- other sizes also available



Net size m	Eye size approx. mm	Weight kg	Product code
3,5 x 6	2	7,4	KUV356PVC
3,5 x 7	2	8,6	KUV357PVC

CARGO NETS

- for lashing trash, construction waste loads etc.
- net contains approx. 1,0 m lashing ropes
- other sizes also available



Net size m	Net rope mm	Eye size mm	Weight kg	Product code
3,5 x 5	3,0	40	2,4	KUV35540
3,5 x 6	3,0	40	2,8	KUV35640
3,5 x 7	3,0	40	3,3	KUV35740

PULLING AND TOWING WEBBINGS / SLINGS

- durable for all kinds of pulling and towing
- material 100 % polyester
- 2000 – 28000 kg sizes from strap
- 35000 – 70000 kg sizes from round sling
- with eye / eye ends
- 2000 kg model with eye / hook ends
- available with different hook, shackle, etc. end fittings and different lengths



Warning flag for over-long loads, 30 x 30 cm
Product code: VARLIP



VER350



VEH280



VEH240



VEH070



VEH050

Type	Tensile breaking strength t	Width or diameter mm	Length m	Weight kg	Product code
Polyester strap	5,0	50	6	0,90	VEH050
Polyester strap	7,0	50	6	1,10	VEH070
Polyester strap	14,0	60	6	2,00	VEH140
Polyester strap	21,0	75	6	3,30	VEH240
Polyester strap	28,0	100	6	4,40	VEH280
Fiber bundle sling	35,0	60	6	6,80	VER3506
Fiber bundle sling	56,0	80	6	12,00	VER5606
Fiber bundle sling	70,0	100	6	15,60	VER7006



TRUCKS BODY BUILDING PRODUCTS



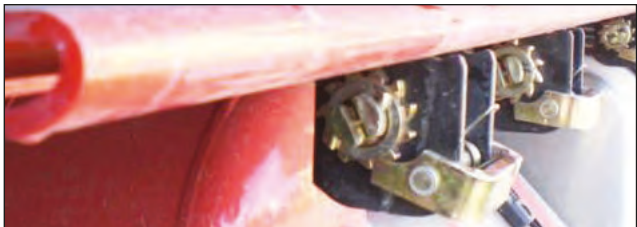
Double decking systems

Page 11-42



Lashing tracks, support bars and accessories

Page 11-47



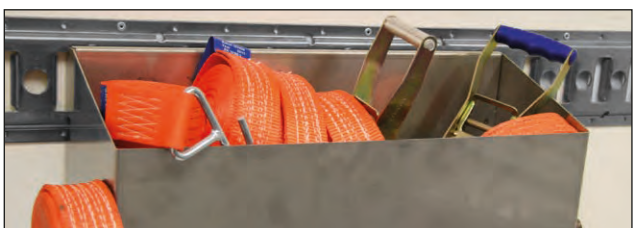
Anchoring points, accessories and cargo securing winches

Page 11-52



Thermo walls

Page 11-63



Accessories

Page 11-65

TD system is based on unique flight cargo securing system parts.

The system has been developed based on the user experience for several decades.

- **Available when needed**
TD double deck floor beam can be stored near the ceiling where it locks on the tracks and is easily accessible.
- **Easy to use**
If the double deck floor beam is out of reach, the beam locking mechanism can be opened using a bar made for it.
- **Optimal loading space**
The track is only 12 mm thick so it leaves the vehicle's load space effectively available.
- **Large height adjustability**
A major advantage is a dense height adjustment, the double deck floor beam anchor intervals are only 25 mm.
- **Rational design**
Mid track slots are very effectively protected from damage due to carefully thought shape.
- **Insulation benefits**
Due to the ultra thin design of tracks they do not need to be embedded to the wall so the wall insulation capacity does not change.
- **Retrofitting**
TD double deck floor system can also be retrofitted.
- **Easy to clean**
Due to its design it is easy to keep clean.
- **Gentle for the goods**
The finished design of the tracks minimizes the risk of damage to the goods during unloading and loading the cargo.



Example:

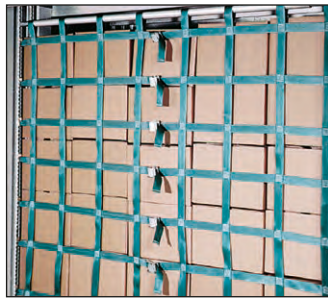
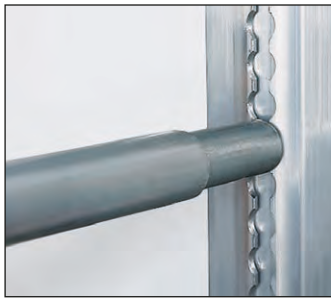
A trailer with the TD double deck floor system

Length.....	13,6 m
Height.....	2,5 m
Pallet slots.....	66 pcs
Double deck floor beam.....	22 pcs
Double row vertical beam	20 pcs
Single row vertical beam.....	4 pcs
Release rod.....	1 pc

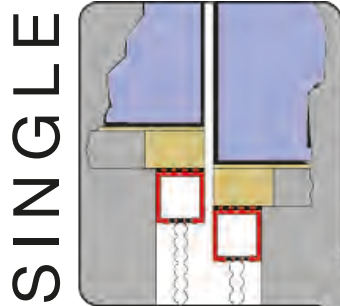


TD vertical beams fit to be used also in diagonal position for loading and load separation.

Vertical beams for the decking system are available as surface-mounted and imbedded models. Attachment depends on the specific type of model, either with screws, rivets or by glueing.

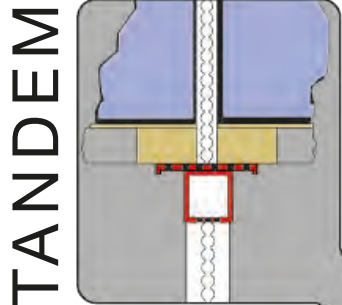
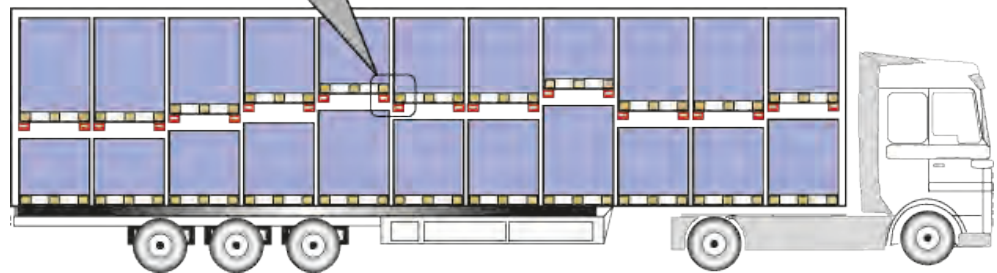


TD vertical beams fit perfectly for horizontal controlling of the load.



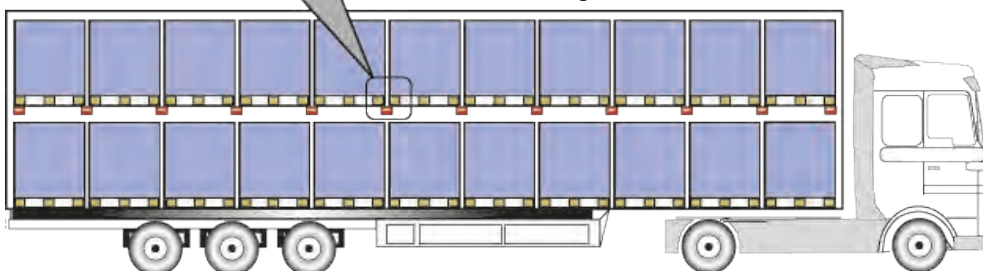
SINGLE

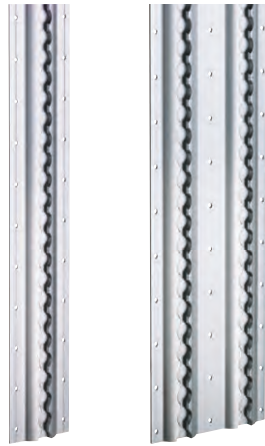
Using single vertical beams



TANDEM

Using tandem vertical beams



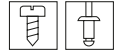
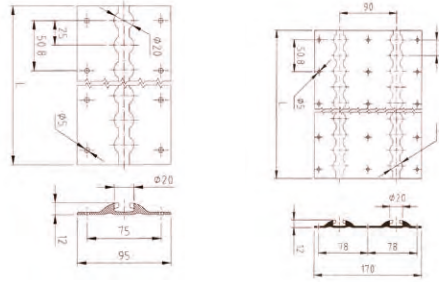


TDKISO1

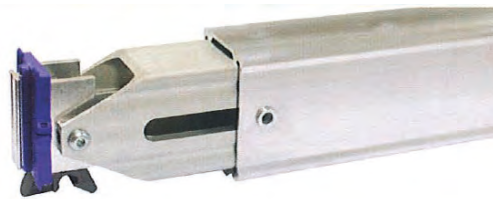
TDKISO2

TD surface-mounted vertical beam

Material	Product code	Length, mm	Weight, kg
Aluminum	TDKISO1	1960	2,2
	TDKISO2	1960	4,1



Attachment with screws
or rivets.



TD double decking beam

Material	Product code	Length, mm	Workload, daN	Weight, kg
Aluminum	TDPALKKIX	2385-2750	1000	6,70

Winner of the innovation prize of the year!

Extremely silent, fast and easy-to-use.

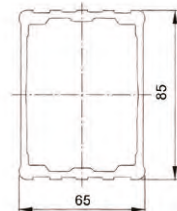


For a surface-mounted vertical beam.

Check the usage on page 11-42.

Adjustment poles can be found on
page 11-46.

Presentation video



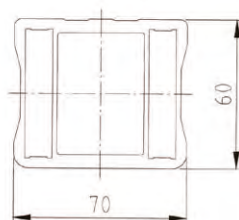
TD decking beam single

Material	Product code	Length, mm	Workload, daN	Weight, kg
Aluminum	TDPALKKIS	2285-2800	1000	7,50

For a surface-mounted vertical beam.

Check the usage on page 11-42.

Adjustment poles can be found on page 11-46.



TD decking beam low profile

Material	Product code	Length, mm	Workload, daN	Weight, kg
Aluminum	TDPALKKIM	2420-2550	1000	9,08

Delivery time 1-2 weeks.

For a surface-mounted vertical beam.

Check the usage on page 11-42.

Adjustment poles can be found on page 11-46.

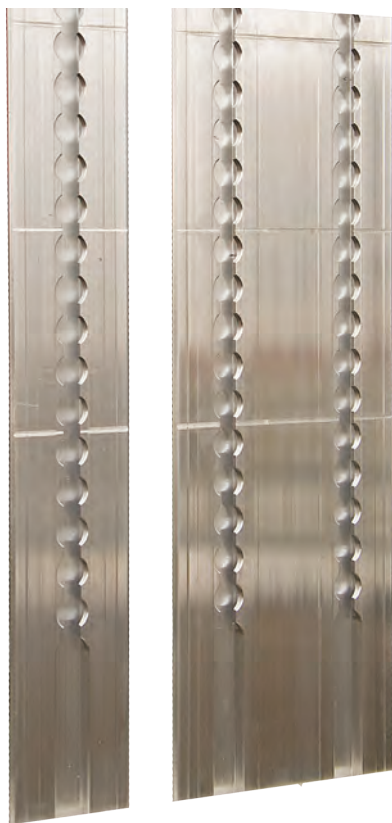
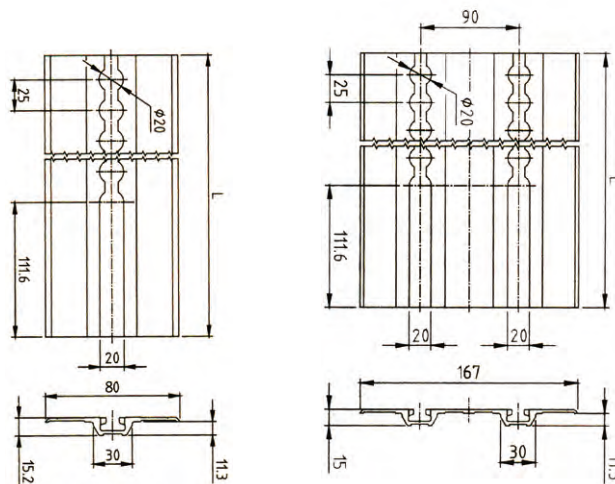
TDF decking beam, embedded

Focusing signs 6 pcs

Material	Product code	Length, mm	Model	Weight, kg
Aluminum	TDF19601	1960	1-row	1,72
	TDF19602	1960	2-row	3,59
	*TDF21501	2150	1-row	1,90
	*TDF21502	2150	2-row	3,90

*items marked with an asterisk delivery time 1-2 weeks

Attachment by glueing.



TDF19601,
TDF21501

TDF19602,
TDF21502

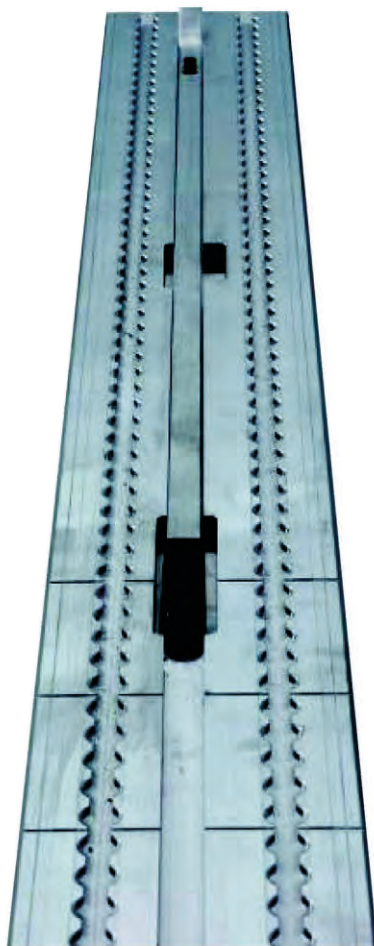
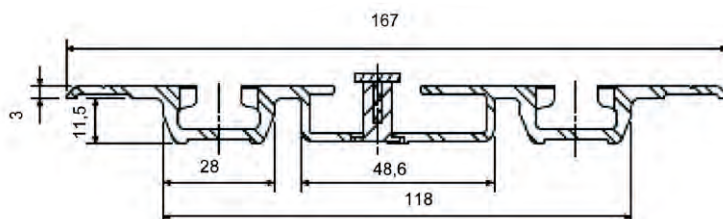
TDF embedded vertical beam with trail

Adjustment pole TANKO1250 preservation possibility.

Material	Product code	Length, mm	Weight, kg
Aluminum	TDF1960S	1960	3,58
	TDF2150S	2150	3,90

Delivery time 1-2 weeks.

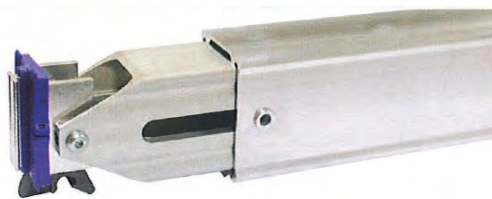
Attachment by glueing.



TDF decking beam

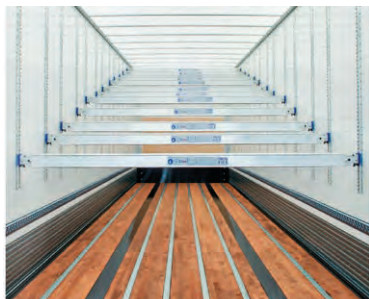
Material	Product code	Length, mm	Workload, daN	Weight, kg
Aluminum	TDFPALKKIX	2385-2750	1000	6,70

Delivery time 1-2 weeks.



Winner of the innovation prize of the year!

Extremely silent, fast and easy to use.



For an embedded vertical beam.

Check the usage on page 11-42.

Adjustment poles can be found on page 11-46.

Presentation video



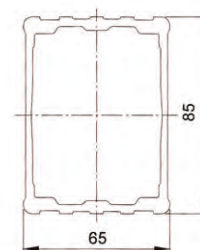
TDF decking beam single

Material	Product code	Length, mm	Workload, daN	Weight, kg
Aluminum	TDFPALKKIS	2285-2800	1000	7,50

For an embedded vertical beam.

Check the usage on page 11-42.

Adjustment poles can be found on page 11-46.



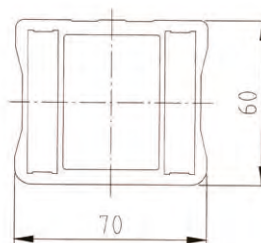
TDF decking beam low profile

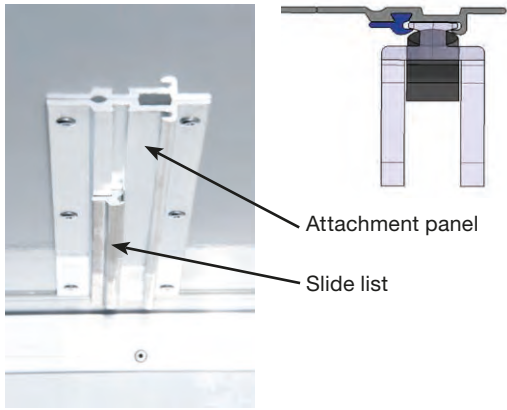
Material	Product code	Length, mm	Workload, daN	Weight, kg
Aluminum	TDFPALKKIM	2420-2550	1000	9,08

Delivery time 1-2 weeks.

For an embedded vertical beam.

Check the usage on page 11-42.





Roof suspension panel

Product code	Part
RLEVYKI	Suspension panel
RLEVYLI	Slide list

Fits for TDF double deck beam.

Roof suspension panel



Product code	Dimensions, mm
RLEVY2	115x89x54/27

Fits for TDF and TD double deck beams.

Decking beam release rod



Product code	Dimensions, mm
TANKO900	L 900
*TANKO1300	L 1300

*items marked with an asterisk delivery time 1-2 weeks

TANKO900 fits for TDPALKKIX and TDFPALKKIX beams, p. 11-43 and 11-45.

Decking beam release rod



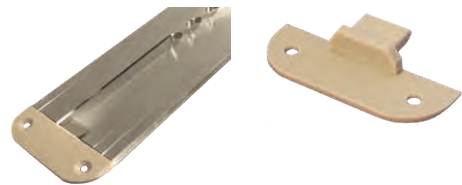
Product code	Dimensions, mm
TANKO1250	L 1250

Fits for embedded TDF vertical bars TDF1960S & TDF2150S, p. 11-44.

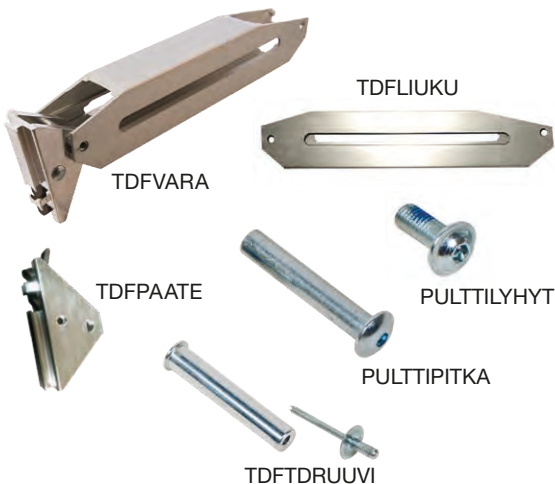
Stopper for TDF track

Fits for TDF bars TDF19601, TDF19602, TDF21501, TDF21502, p. 11-44.

Product code	Dimensions, mm
TDFPAATY	80x25xH13



Spare parts for TDF double deck beams

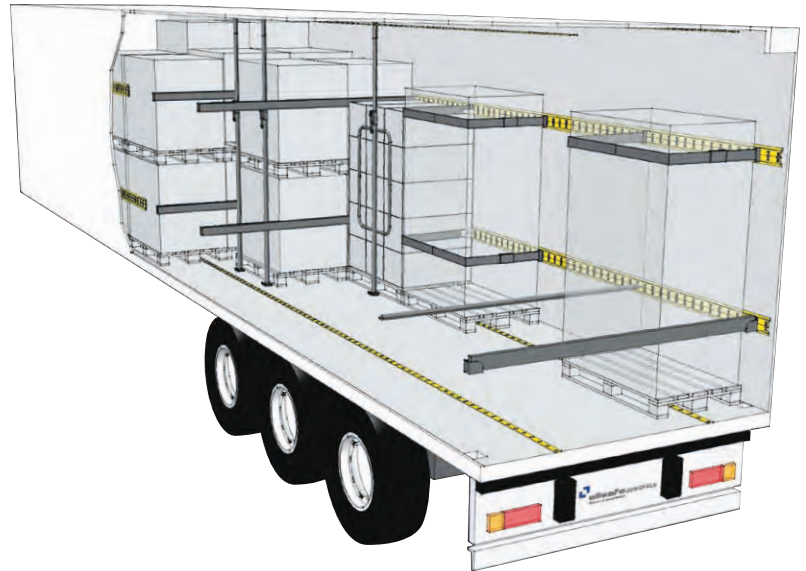
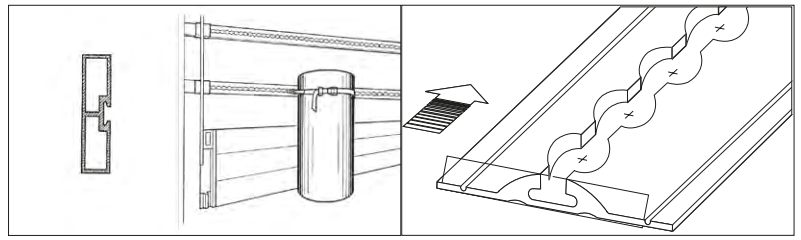


Part name	Product code
Whole stopper	TDFVARA
TDF stopper	TDFPAATE
TDF slide stopper	TDFLIUKU
Bolt, short	PULTTILYHYT
Bolt, long	PULTTIPITKA
TDF/TD screw set	TDFTRUUVI

Spare parts also available for TD double deck beams, ask for more.

Lashing system with many uses

Aircraft tracks ensure greater lashing capacity and they can be fully integrated to the transporting space. For example, a lashing system with a four-fold attachment end (EP50) allows the bonding of up to 2000 daN when attached to the floor track. All tracks and fittings are compatible with all the systems under EN 12640 standard. Since the mounting points in the tracks are with 25 mm intervals the transported cargo can be tied down precisely to the desired location. Due to their design aircraft tracks are easy to keep clean and therefore they are also highly suitable to be recessed to the vehicle floor.



Benefits

The tracks are lightweight but still provide an excellent lashing capacity.

Tracks and accessories are made along the universal standards.

Tracks are easy to mount with pop rivets, screws or by glueing.



Using the system

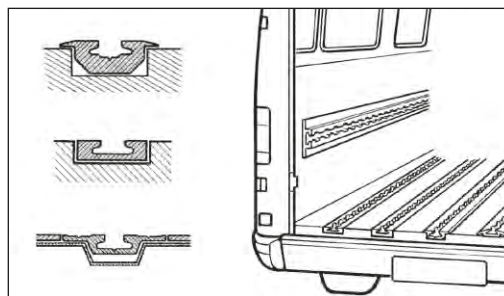
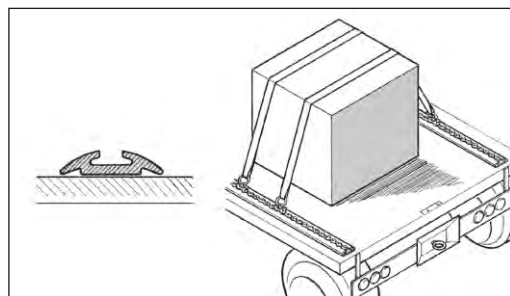
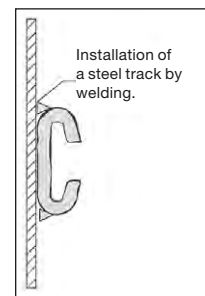
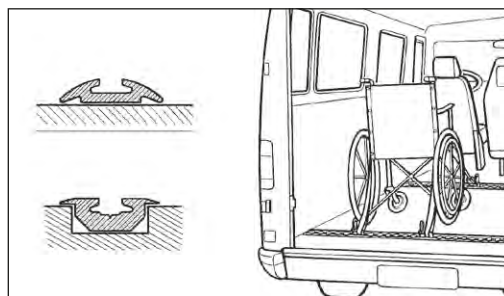
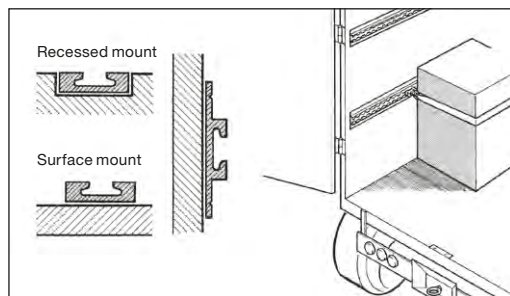
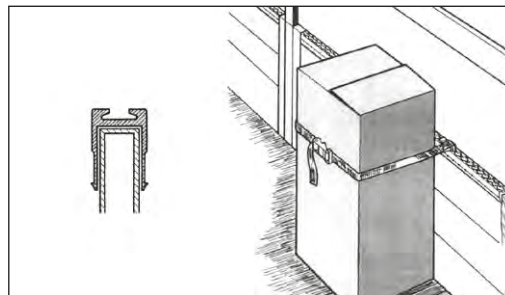
Lashing straps' end fittings, anchors and other accessories can be used, either separately or together, as part of the cargo securing. All fittings and attachment points can be mounted on 25 mm intervals throughout the length of the track.



Mounting of aircraft tracks

Aircraft tracks are designed specifically for vans and trucks and they can be mounted both on the wall and the floor. High grade aluminum alloy has been used as a manufacturing material, which guarantees the light weight and strong structure of the product. Aircraft tracks can be installed onto the floor or wall of the transport space, either surface mounted or recessed. Tracks have an open structure making them easier to keep clean.

The tracks are also available as steel-structured which are less expensive compared to aluminum tracks and steel tracks can be attached to the transport space by welding. Steel tracks have the same 25 mm pitch as the aluminum tracks.



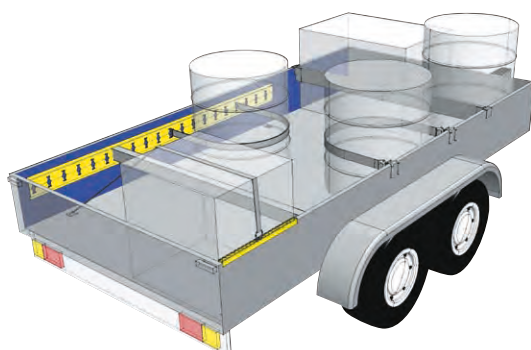
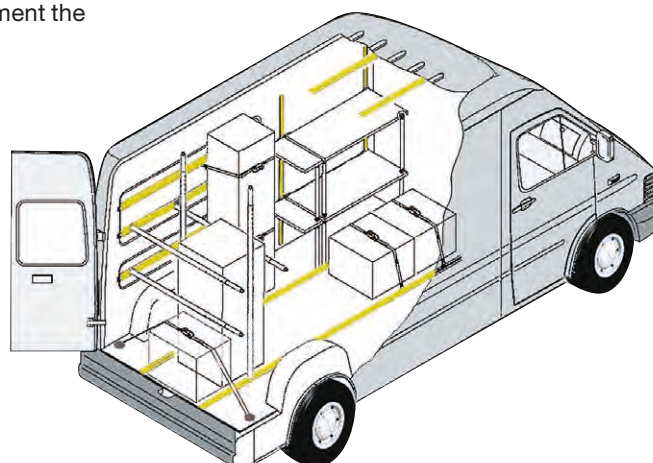
When using aircraft tracks and lashing strap end fittings (p. 11-26) the requirements of ISO 27955/27956 and DIN 75410 are fulfilled. By using a lashing system's end fitting with a fourfold attachment the requirements of EN 12640 are fulfilled.

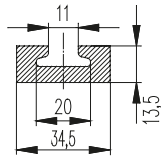
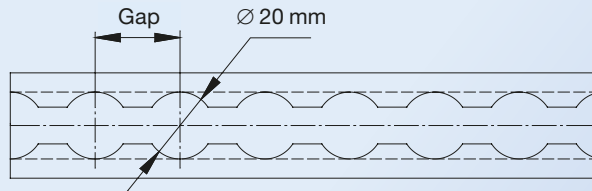
If the track is attached with M5 10.9 screws with 75 mm intervals the following working loads are achieved:

Single attachment	400 daN
Double attachment	500 daN
Fourfold attachment	800 daN

If the track is attached with M6 10.9 screws with 75 mm intervals the following working loads are achieved:

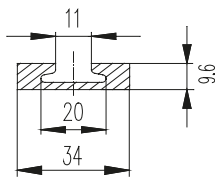
Single attachment	500 daN
Double attachment	1000 daN
Fourfold attachment	2000 daN





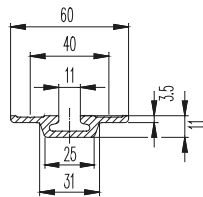
Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum	EPKISKO34,5	2998	25	2,70

Attachment with screws or pop rivets.



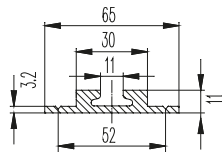
Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum	EPKISKO34	2998	25	1,65

As EPKISKO34,5 but with a thin base.
Attachment with screws or pop rivets.



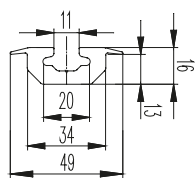
Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum	EPKISKO31	2998	25	2,10

Attachment with screws or pop rivets.



Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum	EPKISKO52	2998	25	2,40

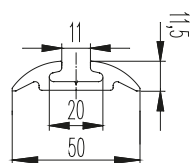
Attachment with screws or pop rivets.



Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum-alloy 6082 T6	EPKISKO49	2998	25	2,94

Tested for wheel chair attachment according to standard DIN 75078-2.

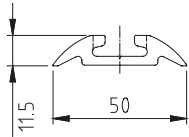
Attachment with screws.



Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum-alloy 6082 T6	EPKISKO5011	2998	25	2,13

Attachment with screws or pop rivets.

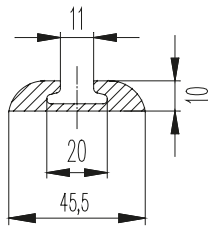
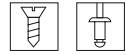




Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum-alloy 6082 T6	EPKISKO50	2998	25	2,28

Tested for wheel chair attachment according to standard DIN 75078-2.

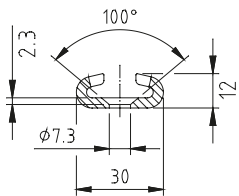
Attachment with screws or pop rivets.



Material	Product code	Length, mm	Gap, mm	Weight, kg
Aluminum-alloy 6082 T6	EPKISKO45,5	3000	25,4	2,40

Developed for aircraft industry.

Attachment with screws.



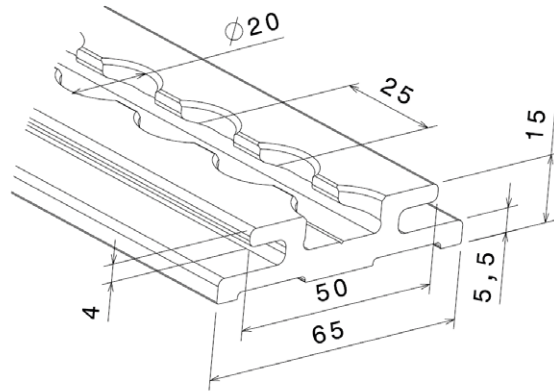
Material	Product code	Length, mm	Gap, mm	Weight, kg
Non-treated steel QSTE 420	*EPK2400	2400	25	2,91
	*EPK3000	3000	25	3,63
Galvanized steel, Blue chromated	*EPS2400	2400	25	2,91
	*EPS3000	3000	25	3,63

*items marked with an asterisk delivery time 1-2 weeks



Material	Product code	Length, mm	Weight, kg
Aluminum	EPR2000	2000	3,40
Aluminum	EPR3000	3000	5,10

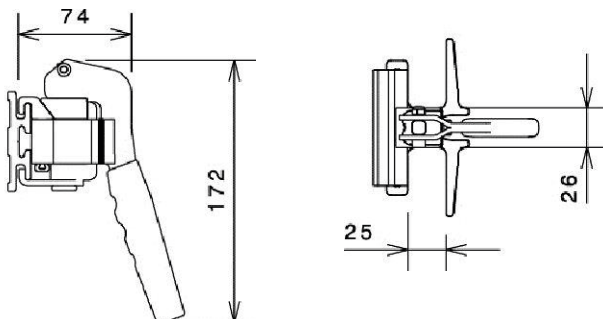
Delivery time 2 weeks.



Trolley locking handle

Material	Product code	Dimensions, mm	Weight, kg
Galvanized steel, Blue chromated	LKAHVA25	X: 25 Y: 24 Z: 22	0,65

Delivery time 2 weeks.



Material	Product code	Dimensions, mm	Weight, kg
Galvanized steel, Blue chromated	LKAHVA35	X: 35 Y: 24 Z: 22	0,68

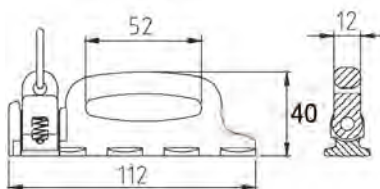
Delivery time 2 weeks.

$$\text{Lashing Capacity - LC daN, EN 12195-2} = \frac{\text{Breaking strength daN}}{2}$$

Fourfold attachment



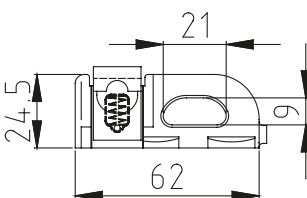
Material	Product code	LC daN	Breaking str., kg	Weight, kg
Galvanized steel	EP50	2500	5000	0,34



Double attachment



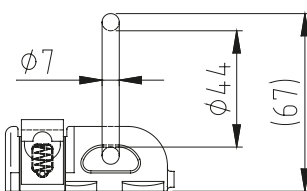
Material	Product code	LC daN	Breaking str., kg	Weight, kg
Galvanized steel	EP25	1100	2200	0,11



Double attachment



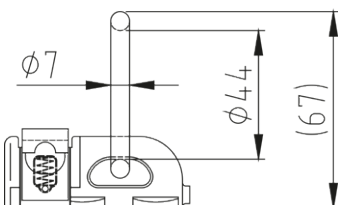
Material	Product code	LC daN	Breaking str., kg	Weight, kg
Galvanized steel	EP26	1100	2200	0,16



Double attachment



Material	Product code	LC daN	Breaking str., kg	Weight, kg
Galvanized steel	EP25E	1100	2200	0,16



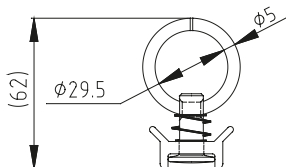
$$\text{Lashing Capacity - LC daN, EN 12195-2} = \frac{\text{Breaking strength daN}}{2}$$



Single attachment

Material	Product code	LC daN	Weight, kg
Galvanized steel, alum. attachment	EP18	875	0,05

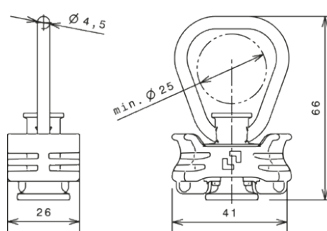
Breaking strength 1750 kg



Single attachment

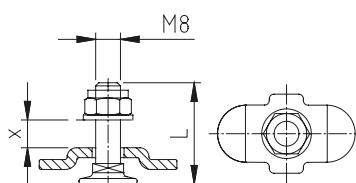
Material	Product code	LC daN	Weight, kg
Galvanized steel, alum. attachment	EP18M	500	0,06

Breaking strength 1000 kg



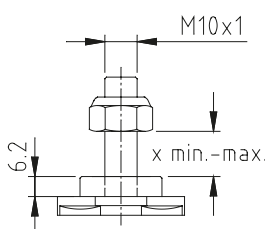
Attachment anchors with M8 nut

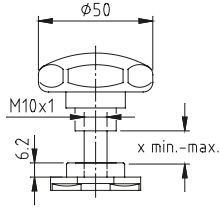
Material	Product code	LC daN	Bolt length, mm	Weight, kg
Galvanized steel	ANKKURI807	500	0-7	0,04
	ANKKURI817	500	0-17	0,04



Attachment anchors with M10 nut

Material	Product code	LC daN	Bolt length, mm	Weight, kg
Galvanized steel	ANKKURI1014	2000	0-14	0,07
	ANKKURI1024	2000	0-24	0,07
	ANKKURI1034	2000	0-34	0,08



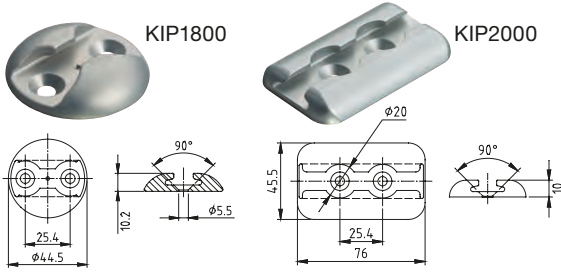


Screw fittings with plastic knob

Material	Product code	LC daN	Bolt length x, mm	Weight, kg
Galvanized steel	ANKKURIM14	2000	7-14	0,12
	*ANKKURIM24	2000	14-24	0,12
	*ANKKURIM34	2000	24-34	0,13

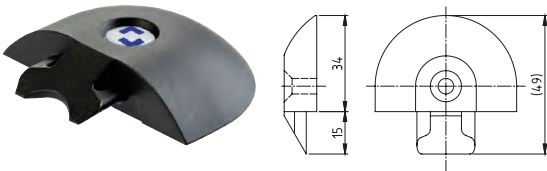
*items marked with an asterisk delivery time 2 weeks

Anchor points



Material	Product code	LC daN	Weight, kg
Anodised aluminum	KIP1800	400	0,02
	KIP2000	1000	0,06

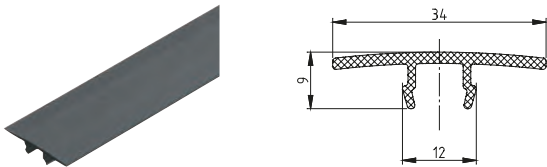
Aircraft track ending



Material	Product code	Weight, kg
Plastic	EPPAATEP	0,02

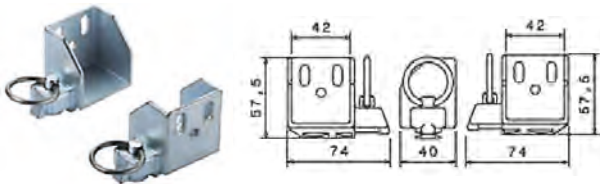
Fits to EPKISKO5011 and EPKISKO50 tracks.

Cover for aircraft track



Material	Product code	Length, mm	Weight, kg
Plastic	EPSUOJA	3000	0,32

Support bar holder set



Material	Product code	Weight, kg
Galvanized steel	KANNATIN	0,54

Holder set includes both parts.

Support bar for aircraft track Ø 44 mm

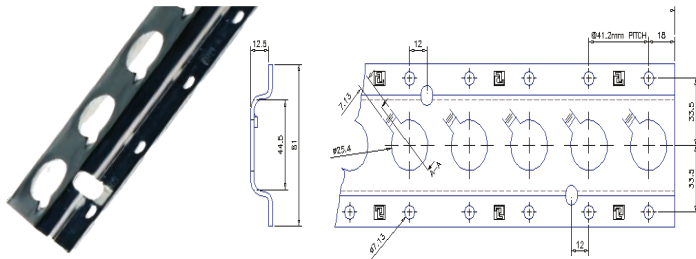
To support the cargo in vans and pick-ups, in both horizontal and vertical positions.

For combi- and hole tracks.

Material	Pin/bolt size	Product code	Length, mm	Weight, kg
Aluminum	19 mm	KTU3219	2000-2500	3,20

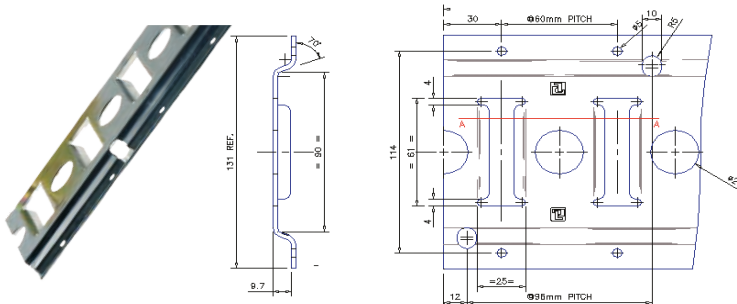
Also available in other dimensions.





Lashing track

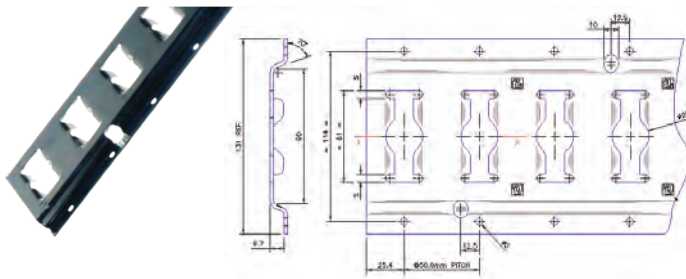
Material	Product code	Material thickn., mm	Length, mm	Weight, kg
Galvanized steel	SIRK1000	2,5	3050	4,86



Combi track

Material	Product code	Material thickn., mm	Length, mm	Weight, kg
Galvanized steel	SICO3000	3,0	3000	8,0
	SICO3T	2,5	3000	6,6

Check the lashing system end fitting that fits the combi track on page 11- 52.

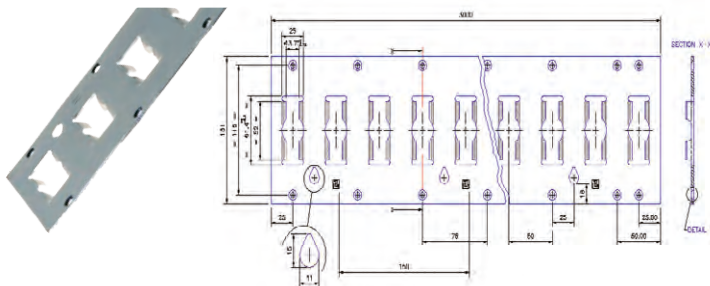


Universal track

Material	Product code	Material thickn., mm	Length, mm	Weight, kg
Galvanized steel	YKISKO3000	2,5	3000	6,9

Delivery time 1-2 weeks.

Check the lashing system end fitting that fits the universal track on page 11-26.



Flat/recessable universal track

Material	Product code	Material thickn., mm	Length, mm	Weight, kg
Galvanized steel	YKISKO3000U	3,0	3000	9,0

Check the lashing system end fitting that fits the universal track on page 11-26.

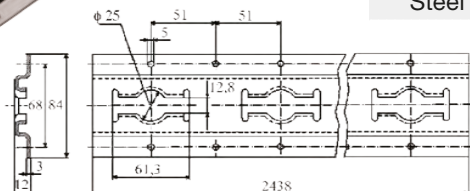
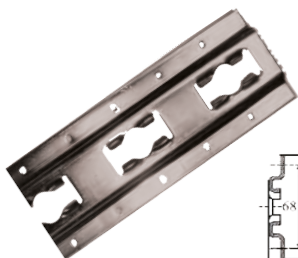
For hole track
SICOPAA84



For universal/combi track
SICOPAA130

Lashing track end fittings

Material	Product code	Length, mm
Plastic	SICOPAA84	84
	SICOPAA130	130



Vertical track

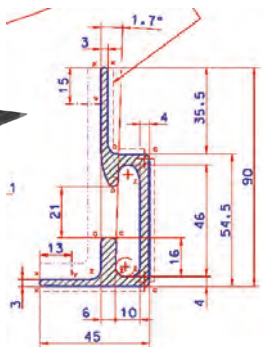
Material	Product code	Material thicken., mm	Length, mm	Weight, kg
Steel	*VERTIKISKO	3,0	2438	3,3

*items marked with an asterisk delivery time 1-2 weeks



Omega track for a winch

Material	Product code	Material thicken., mm	Length, mm	Weight, kg
Steel	OMEGAKISKO	6	6000	39



Space track

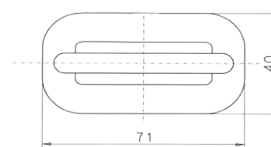
Material	Product code	Mater. thicken., mm	Length, mm	Weight, kg
Aluminum	*SPACEKISKO	3-4	5000	8,81

*items marked with an asterisk delivery time 1-2 weeks



Lashing ring for a space track

Material	Product code	Breaking strength, kg
Steel	SPACELENKKI	3500



Lashing ring (SPACELENKKI) moves in the Space track's groove and does not need any extra space.

Support beam for lashing track

For combi and universal tracks.



Material	Product code	Length, mm	Weight, kg
Aluminum/Steel	TUKIPUOMISK	2340-2630	8,5

Support beam socket

For combi and universal tracks.



Material	Product code	Weight, kg
Steel	VTKA300	0,39

Support bar for lashing track Ø 42 mm

For combi and lashing tracks.



Material	Pin/bolt size, mm	Product code	Length, mm	Weight, kg
Steel	24	KTU400PT	2200-2650	8,0

Adjustable safety beam to pick-ups

Adjustment in the middle.



Material	Product code	Length, mm	Weight, kg
Aluminum	TUKIPUOMISA	2400-2700	11,5

Ergobar support bar with rubber pads and automatic locking

Ergonomic lightweight support bar. For supporting the load in vans. The bar is locked automatically when lower pad is placed on the floor.

Easy operation also with one hand.

PATENTED

See presentation video.



Product code	Type	Material	Adjustment range, m	Shape	Max. load, kg	Weight, kg
KTTU300EE	Mechanical	Aluminum	2,65 - 3,45	Square	150	5,0

Delivery time 1-2 weeks.

Support bars with rubber pads

For supporting a load in a van or a pick-up car both in horizontal or vertical position.

Mechanical or gas spring operated.

Spare parts also available.

KTTU300PGAS / KTTU300LGAS



KTTU300



KTTU300P



Product code	Type	Material	Adjustment range, m	Shape	Max. load, kg	Weight, kg
KTTU300LGAS	Gas spring	Steel/Alum.	1.90 - 2.55	Square	300	7,0
KTTU300PGAS	Gas spring	Steel/Alum.	2.35 - 3.35	Square	300	8,0
KTTU300	Mechanical	Steel	2.35 - 3.10	Square	300	7,0
KTTU300P	Mechanical	Aluminum	2.35 - 3.20	Round	300	6,0

Gas spring-operated models can also be supplied with a 90 kg spring (normal 120 kg), ask for more from our sales!

SPARE PARTS FOR SUPPORT BARS WITH RUBBER PADS

For product	Spare part	Product code
ERGOBAR	Pad	KTTU300EEJAL
KTTU300PGAS / KTTU300LGAS	Handle	KTTU300GVI001
KTTU300PGAS / KTTU300LGAS	Pad	KTTU300GVI002
KTTU300PGAS / KTTU300LGAS	Spring (120 kg)	KTTU300GVI018
KTTU300PGAS / KTTU300LGAS	Arm	KTTU300GVI028
KTTU300	Pad, down	KTTU05F
KTTU300	Pad, up	KTTU06F



Lashing winch

The most commonly used lashing winch. The winch is only intended for webbing tightening and the unused webbing cannot be stored in the winch. Used with ratchet spanner SIVKI28M. Winch is mounted by bolting.

Product code	Webbing width, mm	Breaking strength, daN	LC, daN
SIV2000P	50	5000	2500



Combi-lashing winch

A robust combination winch is used to tighten the webbings and storing an extra webbing. Loose webbing winding with a crank which can be mounted on either side of the winch.

Product code	Webbing width, mm	Breaking strength, kg	LC, daN
SIV30004	50	6000	3000

Delivery time 1-2 weeks.



Lashing winch e.g. timber transports

Used for example in timber trucks to tighten the load and storing the excess webbing. Winch has a crank for fast retraction of the loose webbing. Winch fastening by e.g. welding. Tightening with ratchet spanner SIVKI28M.

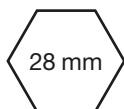
Product	Product code	Webbing width, mm	Breaking strength, daN	LC, daN
Winch	SIV2035K	50	5000	2500
Webbing 10 m	VV350010	50	5000	2500
Webbing 10 m	VV200010	50	3200	1600



Lashing winch for 50-100 mm webbing

Robust and storing winch can use up to 100 mm width webbing. Winch fastening by e.g. welding.

Product code	Webbing width, mm	Breaking strength, kg	LC, daN
SIV4000	50 - 100	8000	4000



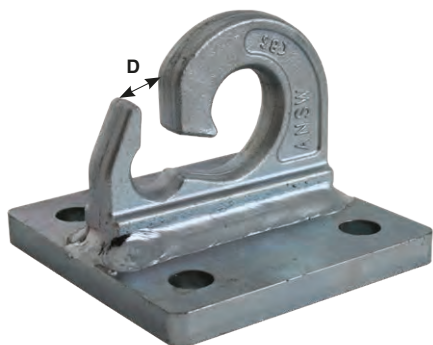
Winch ratchet, 28 mm

To be used with winches SIV2000P, SIV2500O.
Robust structure and 28 mm nut fitting socket.

Product code
SIVKI28M

Load lashing points

$$\text{Lashing Capacity – LC daN, EN 12195-2} = \frac{\text{Breaking strength daN}}{2}$$



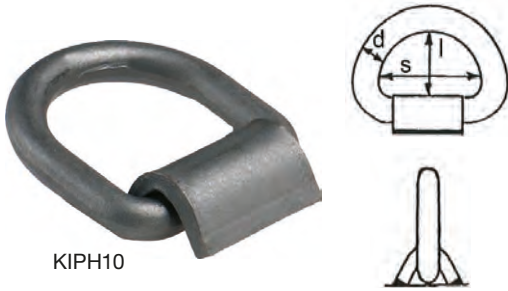
Boltable load lashing point

Product code	Height	Width	Depth	D	LC, daN	Weight, g
KIP6000R	76	100	100	11	3000	1000

Weldable load lashing point



Product code	Height	Width	Depth	D	LC, daN	Weight, g
KIP6000	67	20	87	11	3000	350



KIPH10

Weldable lashing points

Product code	s	l	d	LC, daN	Weight, g
KIPH10	74	63	18	5000	800
KIPH20	85	75	20	10000	1200
KIPH36	132	66	23	18000	2900
KIPH67	130	77	35	33500	5300



KIPH20



KIPH36



KIPH67



The shoulder structure prevents the ring from laying on the floor.

Weldable lashing point

Product code	Height	Width	A	Ring Ø	LC, daN	Weight, g
KIPH15T	136	90	25	22	7500	1900

Flat/recessable load lashing point



Product code	Height	Width	Depth	Ring Ø	LC, daN	Weight, g
KIP350U	12	70	104	6	175	180

Load lashing point



Product code	Height	Width	Depth	LC, daN	Weight, g
KIP50	8,5	45	43	250	42

Flat/recessable load lashing points



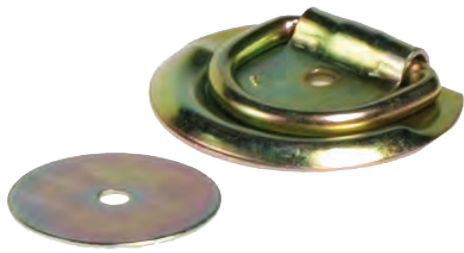
KIP1000



KIP4000U



Product code	Height	Width	Depth	Ring Ø	LC, daN	Weight, g
KIP1000	16,5	104	92	10	1000	370
KIP4000U	23	Ø 90	-	15	2000	445



Load lashing point

Product code	Height	Width	Depth	Ring Ø	LC, daN	Weight, g
KIP1500	15	90	90	8	750	190



Anchor plate

Product code	Height	Width	Depth	LC, daN	Weight, g
KIP1800	10,2	44,5	44,5	400	20



Double anchor plate

Product code	Height	Width	Depth	LC, daN	Weight, g
KIP2000	10	76	45,5	1000	60



Weldable lashing point

Product code	Height	Width	Depth	LC, daN	Weight, g
KIP8000N	114	123	66	4000	990



Weldable lashing points

Product code	Height	Width	Depth	LC, daN	Weight, g
KIP4000N	45	80	40	2000	300
KIP8000P	110	Ø 64	-	2000	960



Weldable lashing point

Product code	Height	Width	Depth	LC, daN	Weight, g
KIP7500	29	95	90	2500	900

SafeCold partition wall



Product code: KAHVASAFE

WALLS CAN BE USED TO SEPARATE COLD AND WARM SPACES



- made out of hard material, the lightweight wall is easy and fast to attach and move
- by using different width walls different size areas can be isolated
- material is easy to clean
- wall thickness 40 mm
- gas spring mechanism enables very fast moving and handling
- removable handle
- prepared according to customer's dimensions as 2- or 3-piece
- delivery time 3-4 weeks

Foldable insulating wall

- durable, easy to clean and hygienic insulating wall
- glossy blue finish
- good insulation properties
- supported and attached with rubber pad support bars from both sides and from the middle
- easy to move
- color white, grey, blue
- material: plastic coated polyester fabric 700 g/m²
- prepared according to customer's dimensions
- delivery time 3-4 weeks





Storage box for e.g. lashing systems

Product code	
SVLAATIKKO	Fits to combi track



Roller for lashing systems

Product code	
RULLARIMT	Handy tool for reeling lashing webbings



Battery operated roller for lashing systems

Product code	
RULLARIA	Handy tool for reeling lashing webbings

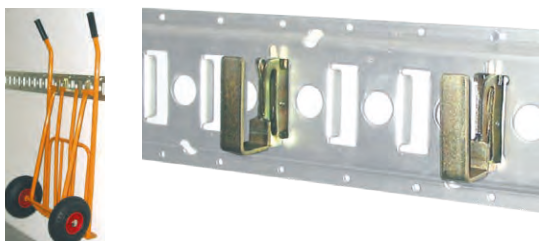
Rack for lashing systems

Product code	
SVTELINE	Attachment with pop rivets



Hanging hook

Product code	
RKOUKKU	Fits to combi track



Beam ferrule

Product code	
PHOLKKIA	Beam ferrule with an aluminum cover
PHOLKKIS	Cover for beam ferrule



CRANE LIFTING BASES

- super strong lifting bases to be used under truck crane and car crane support legs
- special material (PE-HMW) endures all conditions
- in winter conditions skidding can be prevented by installing overlong bolts through the lifting base

Size cm	Carrying capacity t	Weight kg	Product code
40 x 40 x 4	10	6,0	TALLA404
60 x 60 x 4	15	13,6	TALLA604
50 x 50 x 6	25	14,0	TALLA506
60 x 60 x 6	30	20,0	TALLA606



CONTAINER HOOK

Breaking strength t	Attachment method	Weight kg	Product code
20	Bolting	2,6	SILVKOU

Steel wire ropes for interchangeable platforms can be found on page 13-4.

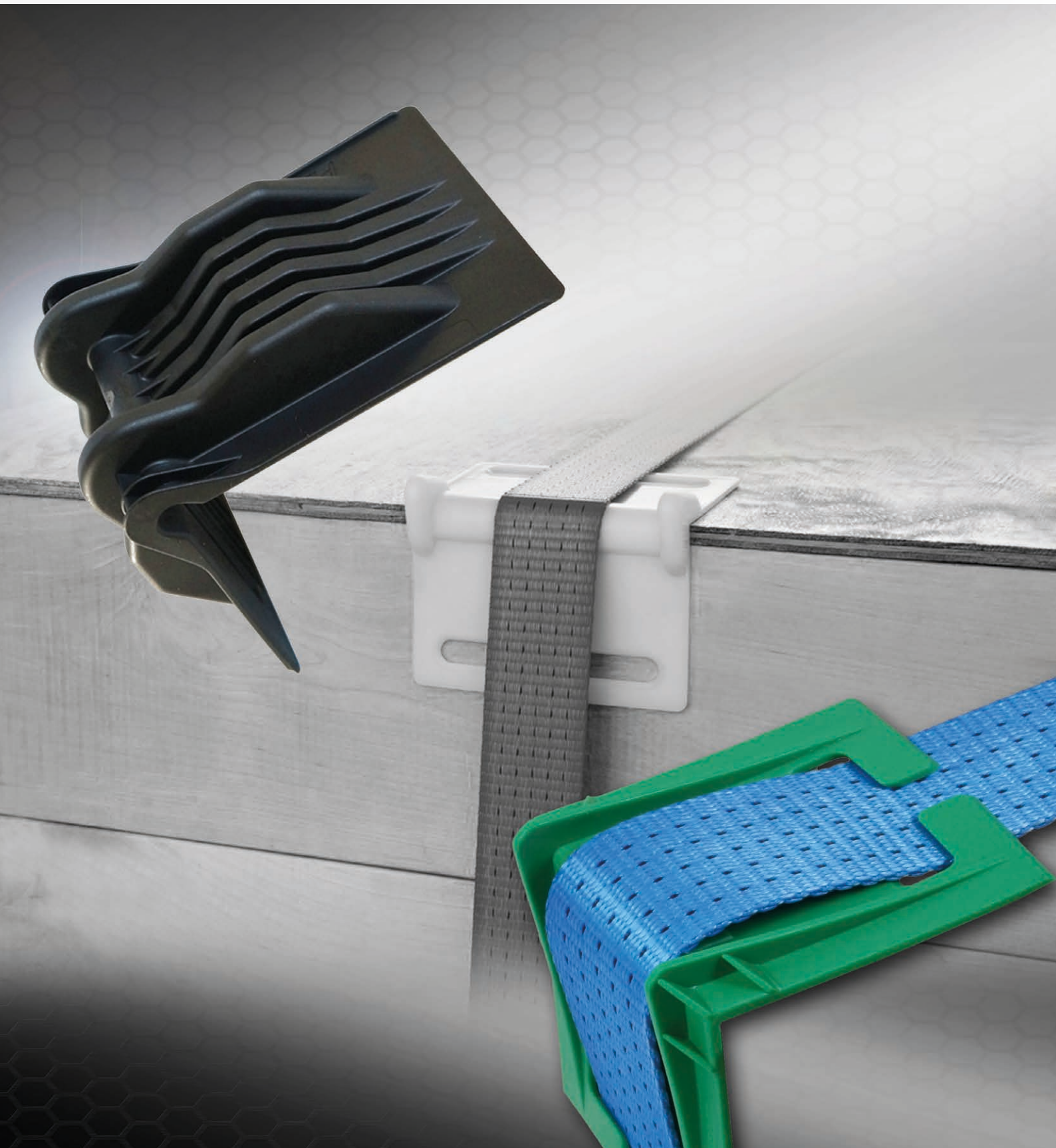


12. CORNER PROTECTORS

For webbing slings and lashing systems

For roundslings

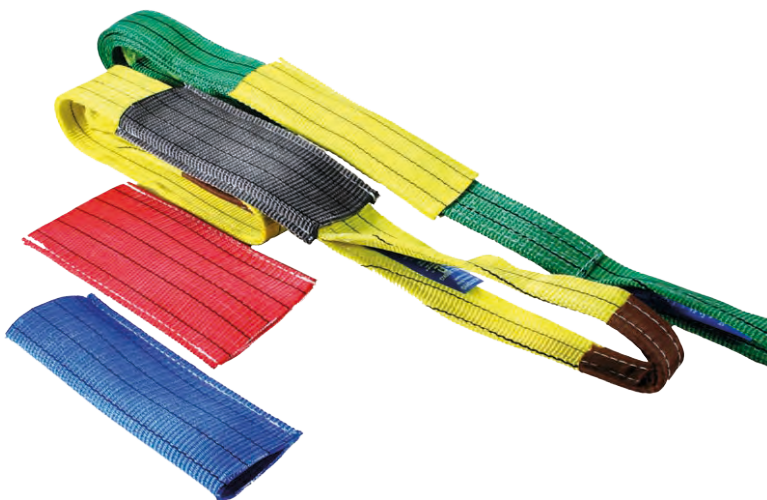
For lifting chains and wire ropes



WEBBING CORNER PROTECTORS FOR EYE AND ENDLESS WEBBING SLINGS

- material strong 100 % polyester webbing
- either sewn onto the sling or sealed by a velcro tape to make it easier to remove the cover when needed

WE MANUFACTURE CORNER PROTECTORS ALSO CUSTOM MADE



For webbing sling	Webbing max. width	Product code length 0,3 m	Product code length 0,5 m
kg	mm		
500	25	NVKS0503	NVKS0505
1000	50	NVKS103	NVKS105
2000	60	NVKS203	NVKS205
3000	90	NVKS303	NVKS305
4000	120	NVKS403	NVKS405
6000	150	NVKS603	NVKS605
8000	240	NVKS803	NVKS805
10000	300	NVKS1003	NVKS1005

CORNER PROTECTORS FOR ROUNDSLINGS

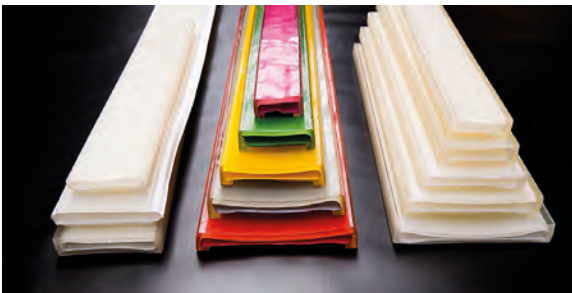
- either sewn onto the sling or sealed by a velcro tape to make it easier to remove the cover when needed



For roundsling	Webbing max. width	Product code length 0,3 m sewn	Product code length 0,3 m with velcro tape
kg	mm		
1000	50	KSP103	KSPA103
2000	60	KSP203	KSPA203
3000	90	KSP303	KSPA303
4000	120	KSP403	KSPA403
6000	150	KSP603	KSPA603
8000	240	KSP803	KSPA803
10000	300	KSP1003	KSPA1003

SECUTEX POLYURETHANE CORNER PROTECTORS

- corner protectors for webbing slings, with good flexibility and high durability against cutting
- high durability against chemicals
- max. length 4 m
- also other sizes and lengths available



For sling kg	Webbing max. width mm	Product code 1-side length 1,0 m	Product code 2-side length 1,0 m
1000	50	KSSE501	KSSE50
2000	60	KSSE651	KSSE65
3000	75	KSSE751	KSSE75
3000	90	KSSE901	KSSE90
4000	120	KSSE1001	KSSE100
5000	150	KSSE1501	KSSE150
6000	180	KSSE1801	KSSE180
8000	240	KSSE2501	KSSE250
10000	300	KSSE3001	KSSE300

Delivery time 2-4 weeks.

MAGNET CORNER PROTECTORS

- ready in 90° angle
- stays well in place due to the magnets
- material extremely durable special plastic
- suitable for lifting and lashing



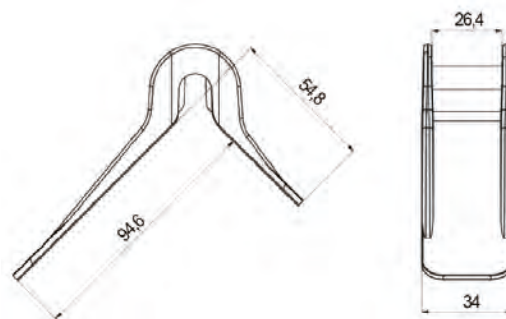
Webbing width mm	Roundsling size t	Weight kg	Product code
0 - 25	1,0 - 2,0	0,7	KSMAG025
0 - 45	1,0 - 4,0	0,8	KSMAG040
0 - 65	1,0 - 5,0	1,0	KSMAG065
0 - 75	1,0 - 8,0	1,2	KSMAG075
0 - 100	1,0 - 10,0	1,5	KSMAG100
0 - 125	1,0 - 15,0	1,6	KSMAG125
0 - 150	1,0 - 25,0	1,9	KSMAG150
0 - 200	1,0 - 35,0	2,6	KSMAG200
0 - 300	1,0 - 40,0	3,5	KSMAG300

Delivery time approx. 2-3 weeks.

PLASTIC CORNER PROTECTOR FOR LASHING SYSTEMS



- narrow but robust corner protector
- ready in 90° angle
- inner structure protects and prevents pressure from being targeted to the corner of the work piece
- made from durable and flexible material which allows bending, it will maintain its shape and does not crack in temperatures -25 - (+)50 °C
- side covers prevent the band from moving sideways

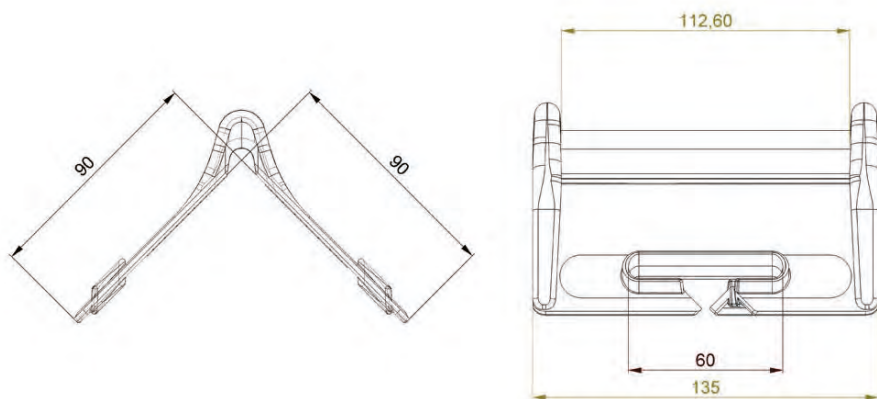


Color	For band mm	Packing size pcs	Product code
Black	max. 25	250 / box	SIKUS25M

PLASTIC CORNER PROTECTOR FOR LASHING SYSTEMS



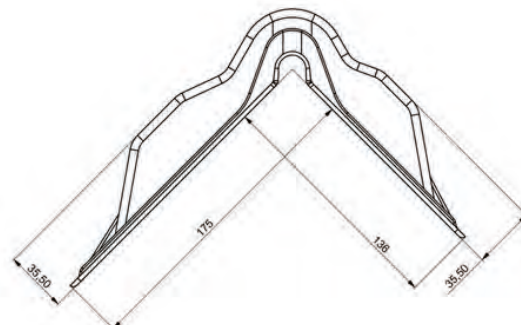
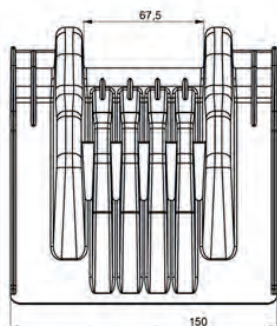
- ready in 90° angle
- made from durable and flexible material which allows bending, does not crack in low or high temperatures
- slot and side covers prevent the band from moving sideways or disengaging



Color	For band mm	Packing size pcs	Product code
Black	max. 50	100/box 4400/pallet	SIKUS50M

EXTRA STRONG PLASTIC CORNER PROTECTOR FOR LASHING SYSTEMS

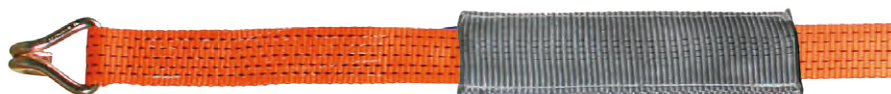
- extra robust corner protector which endures high forces
- ready in 90° angle
- inner structure protects and prevents pressure from being targeted to the corner of the work piece
- made from durable and flexible material which allows bending, it will maintain its shape and does not crack in temperatures -25 - (+)50 °C
- side covers prevent the band from moving sideways

Color	For band mm	Packing size pcs	Product code
Black	max. 60	20/box 960/pallet	SIKUS60MHD

WEBBING CORNER PROTECTORS FOR LASHING SYSTEMS

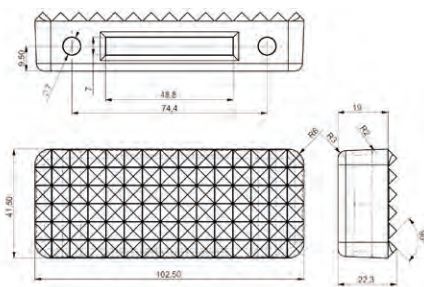
- to be threaded to the operating end of the lashing system
- can be manufactured according to different dimensions
- material 100 % polyester



Band width mm	Material	Standard length mm	Product code
50	Polyester webbing	250	SIKUS50
60	Polyester webbing	250	SIKUS60
75	Polyester webbing	250	SIKUS75
100	Polyester webbing	250	SIKUS100

RUBBER SHIELDS FOR LASHING SYSTEMS

- to be threaded straight to the band
- can be set multiple in a row
- material soft but durable and flexible rubber
- fits for 50 mm band
- packing size 132 pcs / box

Product code: SVAUKUMI



RUBBER CORNER PROTECTOR FOR LASHING SYSTEMS

- flexible and durable material
- can be quickly threaded/unthreaded to/from the band due to the slots
- retains flexibility and durability in temperatures -25 - (+)50 °C



Color	Size mm	For band mm	Packing size pcs	Product code
Black	290 x 100	max. 50	85 / box	SIKUS50K

CARDBOARD CORNER PROTECTOR FOR PLASTIC AND STEEL BANDS

- rigid structure
- can be recycled



Width mm	Thickness mm	Length of sides mm	Packing size pcs	Product code
100	3,0	60 x 60	500 / box	SIKUSP100

CELL PLASTIC CORNER PROTECTORS

- cell structure which endures high forces and abrasion
- corner protectors available also in custom lengths and with name print, ask more from our sales



Length mm	Thickness mm	Length of side mm	Packing size	Color	Product code
5970	20	190 x 190	125 / pallet	Orange	SIKUS5500
6000	20	190 x 190	125 / pallet	Blue	SIKUS5500S

SECU-STICK

Makes work easier and faster, removes the need for climbing and improves work safety!

Aluminium Secu-stick is the tool for removing and installing vertical supporting beams of tarpaulin covered trucks and to make the installing of corner protectors easier in high target areas. The driver has no need to climb - the stick is fully operationable from the ground level with significantly lower risk of causing accidents or injuries. Secu-stick is equipped with a telescopic arm and corner protector mounting device.



Product	Adjustment height	Weight	Product code
	mm	kg	
Secu-stick	860 - 1750	0,50	SECU

13. STEEL WIRE ROPES, COMPONENTS, SHACKLES, SWIVELS, PULLEYS

Steel wire ropes

Commercial shackles

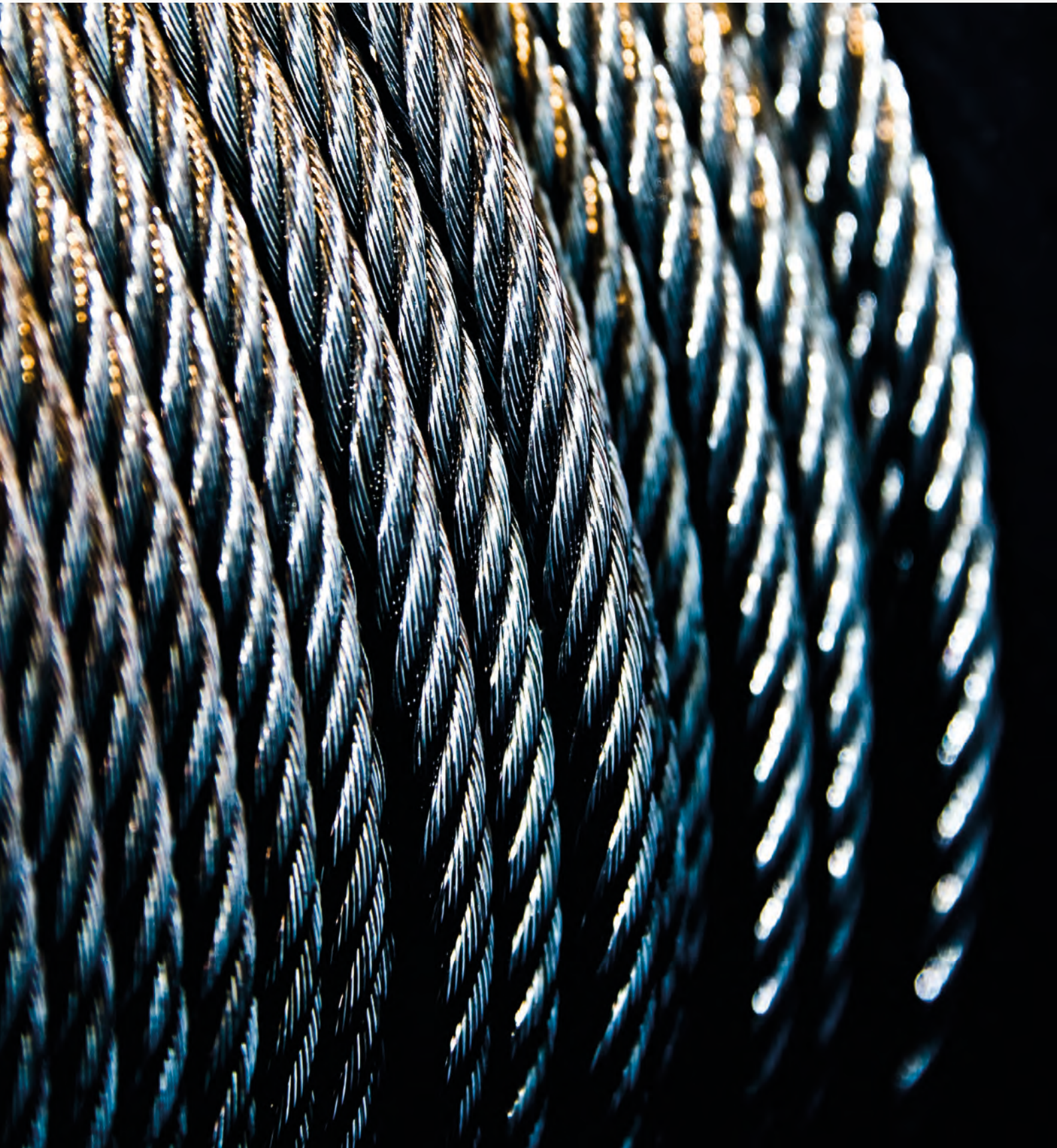
Steel wire rope locks

Pulleys

Wedge sockets

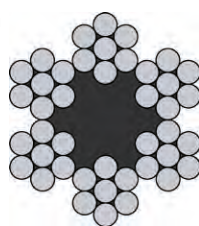
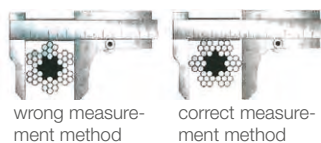
Cutters and pliers

Thimbles

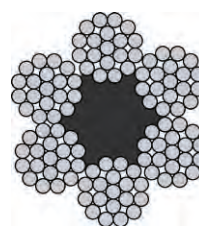


STEEL WIRE ROPES WITH FIBER CORE - GENERAL QUALITY

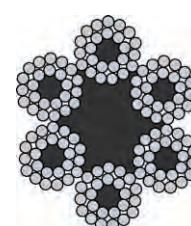
- available on plastic spools, as custom lengths or on wooden spools as factory lengths
- hot dip galvanized



6x7+FC



6x19+FC



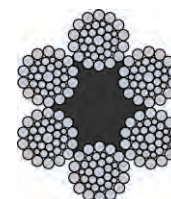
6x24+FC

Wire diam.	Min. tensile breaking strength	Structure	No. of wires	Weight	Product codes
mm	kg			kg / 100 m	Reel size in parenthesis
1,0	95	-	12	0,7	TEK01100 (110m) / TEK01 (250m)
1,5	120	-	42	1,1	TEK015100 (110m) / TEK015 (250m)
2,0	240	-	42	1,4	TEK02100 (110m) / TEK02 (250m)
3,0	540	6x7+FC	42	3,1	TEK03100 (110m) / TEK03 (220m)
4,0	950	6x7+FC	42	5,6	TEK04100 (110m) / TEK04 (250m)
5,0	1380	6x19+FC	114	8,5	TEK05100 (110m) / TEK05 (250m)
6,0	2000	6x19+FC	114	12,2	TEK06100 (110m) / TEK06 (250m)
8,0	3550	6x24+FC	144	23,3	TEK0850 (50m) / TEK08 (110m)
10,0	5060	6x24+FC	144	32,2	TEK1050 (50m) / TEK10 (110m)
12,0	7280	6x24+FC	144	46,4	TEK1250 (50m) / TEK12T (1100m)
14,0	9910	6x24+FC	144	63,1	TEK1450 (50m) / *TEK14T (1100m)
16,0	13000	6x24+FC	144	82,4	*TEK16 (1000m)
18,0	16400	6x24+FC	144	104,0	*TEK18 (1000m)
20,0	22200	6x24+FC	144	145,0	*TEK20 (1000m)
22,0	26800	6x24+FC	144	176,0	*TEK22 (1000m)

*items marked with an asterisk delivery time 5-7 days

STEEL WIRE ROPES WITH FIBER CORE - 216 WIRES

- available as custom lengths or on wooden spools as factory lengths
- hot dip galvanized
- used in e.g. lifting slings, bridge cranes, ship cranes, lifeboats etc.
- also other sizes available

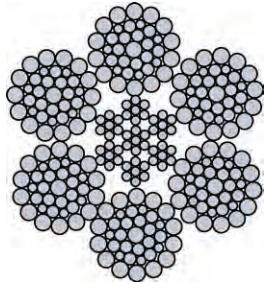


Wire diam.	Min. tensile breaking strength	Structure	No. of wires	Weight	Product code
mm	kg			kg / 100 m	
8	3710	6x36+FC	216	23,7	TEK21608
10	5950	"	"	37,1	TEK21610
12	8570	"	"	53,4	TEK21612
14	11600	"	"	72,7	TEK21614
16	15200	"	"	94,9	TEK21616
18	19200	"	"	120,0	TEK21618
20	23800	"	"	148,0	TEK21620
22	28800	"	"	179,0	TEK21622
24	34300	"	"	214,0	TEK21624
26	40200	"	"	251,0	TEK21626
28	46700	"	"	291,0	TEK21628
30	53600	"	"	334,0	TEK21630
32	61000	"	"	380,0	TEK21632

Delivery time 5-7 days.

STEEL WIRE ROPES WITH STEEL CORE - 265 WIRES

- available as custom lengths or on wooden spools as factory lengths
- hot dip galvanized
- used e.g. in winches, cranes, as container wire ropes etc.

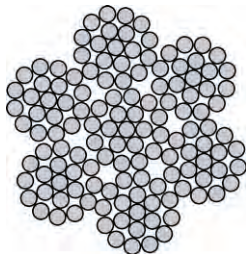


Wire diam. mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100 m	Product code
8	4100	6x36+IWR	265	26,0	TEK26508
10	6400	"	"	41,0	TEK26510
12	9300	"	"	59,0	TEK26512
13	10900	"	"	68,0	TEK26513
14	12600	"	"	81,8	TEK26514
16	16400	"	"	107,0	TEK26516
18	20800	"	"	136,0	TEK26518
20	25700	"	"	167,0	TEK26520
22	31100	"	"	202,0	TEK26522
26	43400	"	"	283,0	TEK26526
28	50300	"	"	328,0	TEK26528
30	57800	"	"	376,0	TEK26530
32	65800	"	"	428,0	TEK26532

Delivery time 5-7 days.

STEEL WIRE ROPES WITH STEEL CORE - 133 WIRES

- available as custom lengths or on wooden spools as factory lengths
- hot dip galvanized
- used e.g. in capstanses, ratchet wire rope hoists, winches etc.

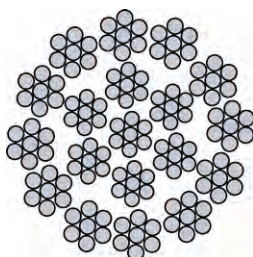


Wire diam. mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100 m	Product code
4	956	6x19+IWS	133	6,0	TEK13304
5	1500	"	"	9,5	TEK13305
6	2160	"	"	13,8	TEK13306
8	3820	"	"	23,4	TEK13308
10	5970	"	"	38,1	TEK13310
12	8610	"	"	54,8	TEK13312

Delivery time 5-7 days.

LOW ROTATION STEEL WIRE ROPES WITH STEEL CORE - 133 WIRES

- available as custom lengths or on wooden spools as factory lengths
- hot dip galvanized
- used e.g. in truck cranes, winches, tower cranes, etc.

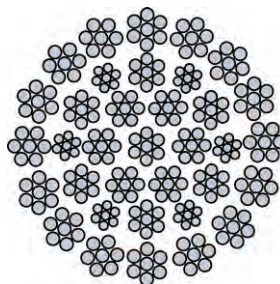


Wire diam. mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100 m	Product code
4	1050	18x7+IWR	133	6,4	TEKK04
5	1640	"	"	9,4	TEKK05
6	2360	"	"	13,6	TEKK06
8	4190	"	"	24,2	TEKK08
10	6560	"	"	37,8	TEKK10
11		"	"		TEKK11
12	9440	"	"	54,4	TEKK12
13		"	"		TEKK13
14	12800	"	"	74,1	TEKK14

Delivery time 5-7 days.

NON-ROTATING STEEL WIRE ROPES WITH STEEL CORE - 245 WIRES

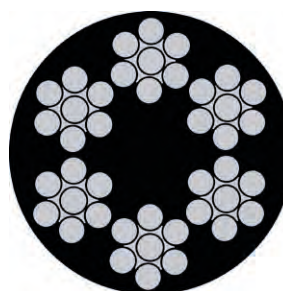
- available as custom lengths
- hot dip galvanized
- used in car cranes, other cranes and winches



Wire diam. mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100 m	Product code
8	5500	35x7	245	31	ANKO08
10	7600	"	"	45	ANKO10
12	10800	"	"	64	ANKO12
14	14900	"	"	89	ANKO14
16	19600	"	"	116	ANKO16
18	24500	"	"	145	ANKO18
19	28000	"	"	165	ANKO19
20	30400	"	"	180	ANKO20
22	37500	"	"	222	ANKO22

PLASTIC COATED STEEL WIRE ROPES

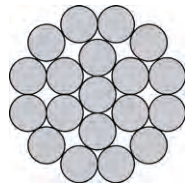
- also as factory lengths
- steel wire rope hot dip galvanized
- standard plastic color is clear see-through
- also available in other colors, e.g. red, white and black



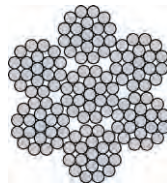
Wire diam. mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100 m	Product code reel size 110 m	Product code reel size 250 m
2 / 3	240	6x7+FC	42	1,5	TKP23100	TKP23
3 / 4	540	"	"	3,1	TKP34100	TKP34
3 / 5	540	"	"	3,5	TKP35100	TKP35
4 / 6	960	"	"	6,2	TKP46100	TKP46
5 / 7	1380	6x19+FC	114	9,5	TKP57	-
6 / 8	2160	"	"	13,8	TKP68100	-

STAINLESS STEEL WIRE ROPES

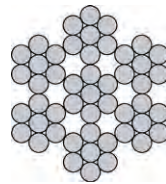
- material AISI 316



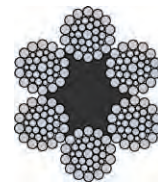
1x19



6x19+IWS



6x7+IWS



6x36+FC

Wire diam. mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100m	Reel sizes m	Product code	
						reel size 100 m	reel size 50 m
1	95	1x19	19	0,7	100/50	TEK01HK	TEK01HK50
2	260	6x7+IWS	49	1,4	100/50	TEK02HK	TEK02HK50
3	580	6x7+IWS	49	3,4	100/50	TEK03HK	TEK03HK50
4	1040	6x19+IWS	133	5,6	100/50	TEK04HK	TEK04HK50
5	1320	6x19+IWS	133	8,5	100/50	TEK05HK	TEK05HK50
6	1910	6x19+IWS	133	12,2	100/50	TEK06HK	TEK06HK50
8	3390	6x19+IWS	133	23,3	100/50	TEK08HK	TEK08HK50
10	5310	6x19+IWS	133	32,2	custom/50	*TEK10HK	TEK10HK50
12	7590	6x19+IWS	133	46,4	custom	*TEK12HK	-
14	10300	6x19+IWS	133	68,0	custom	*TEK14HK	-
16	13600	6x19+IWS	133	86,0	custom	*TEK16HK	-
20	20700	6x36+FC	216	148,0	custom	*TEK20HK	-

*items marked with an asterisk delivery time 1-2 weeks

CONTAINER WIRE ROPES

- high quality wire ropes with color coding
- structure 6 x 36 + IWR (265-wire) with steel core
- also other lengths available

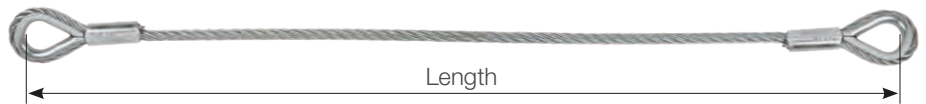


Breaking strength t	Wire diam. mm	Length m	Color code	Weight kg	Product code
12	13	7,6	Green	5,9	SILV1276
12	13	9,0	Yellow	6,9	SILV1290
16	14	9,0	Clear	7,9	SILV1690
16	14	9,8	Blue	8,6	SILV1698
20	16	9,0	Black	10,3	SILV2090
20	16	9,8	Red	11,0	SILV2098
20	16	11,0	Orange	12,2	SILV2011
20	16	12,0	White	13,4	SILV2012

Container hooks can be found on page 11-68.

LIMITER WIRE ROPES

- thimble - thimble ends
- also other sizes and lengths available



Wire rope diam. (mm)	Length (m)	Product code
12	0,35	TKRAJ12035
12	0,47	TKRAJ120470
12	0,76	TKRAJ12076
12	1,00	TKRAJ121000
12	1,05	TKRAJ121050
12	1,10	TKRAJ121100
12	1,15	TKRAJ121150
12	1,25	TKRAJ121250
12	1,30	TKRAJ121300
12	1,35	TKRAJ121350
12	1,40	TKRAJ121400
12	1,50	TKRAJ121500

WIRE ROPE CLIPS DIN 741

- general purpose lock
- electro galvanized



Installation direction of wire rope clips.

Recommendation: at least 3 locks per connection.



Wire diam.	Packing size	Weight	Product code
mm	pcs	kg / 100 pcs	
3	250	1,4	VL03
5	250	1,5	VL05
6	200	2,1	VL06
8	100	4,1	VL08
10	50	6,8	VL10
13	50	13,0	VL13
16	25	21,0	VL16
19	25	28,0	VL19
22	10	40,0	VL22
26	10	44,0	VL26
30	1	66,0	VL30
34	1	85,0	VL34
40	1	97,5	VL40

DUPLEX WIRE ROPE CLIPS

- small general purpose lock
- electro galvanized



Wire diam.	Packing size	Weight	Product code
mm	pcs	kg / 100 pcs	
2	100	0,9	VLDU2
3	100	1,3	VLDU3
4	100	2,2	VLDU4
5	100	3,1	VLDU5
6	50	5,9	VLDU6
7	50	7,0	VLDU7
8	50	10,0	VLDU8
10	25	18,0	VLDU10

EUREKA WIRE LOCKS

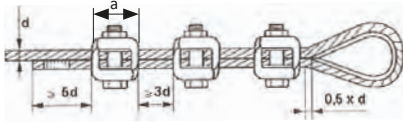
- electro galvanized
- recommendation min. 3 locks in a row per connection



Wire diam.	Packing size	Weight	Product code
mm	pcs	kg	
4 – 5	50	0,06	EUREKA05
5 – 6	25	0,14	EUREKA06
7 – 8	20	0,24	EUREKA08
9 – 10	10	0,52	EUREKA0910
11	10	0,52	EUREKA11
12 – 13	1	1,10	EUREKA12
14	1	1,15	EUREKA14
15 – 16	1	1,70	EUREKA16

DEKA WIRE ROPE CLIPS

- for demanding objects
- body hot dip galvanized, bolts electro galvanized



Wire diam. d mm	Min. amount of locks when installed	a mm	Packing size pcs	Weight kg / 100 pcs	Product code
5 - 6	5	27	25	10	VLDE06
7 - 8	6	32	25	16	VLDE08
9 - 10	6	37	25	24	VLDE10
10 - 12	6	41	25	33	VLDE12
13 - 16	6	48	1	58	VLDE16
18 - 20	6	56	1	95	VLDE20
21 - 25	7	62	1	160	VLDE25
26 - 35	8	106	1	410	VLDE35

“TALURIT” FERRULES / PRESS LOCKS FOR STEEL WIRES

- ferrules (1 - 5 mm) to be pressed with pliers or a presser
- aluminium ferrules for normal steel wire ropes, copper ferrules for stainless steel wire ropes



Aluminium

For wire rope mm	Packing size pcs	Product code
1	5000	TALU01
1,5	5000	TALU015
2	5000	TALU02
3	10000	TALU03
4	5000	TALU04
5	4000	TALU05
6	2000	TALU06
8	1000	TALU08
10	500	TALU10
12	300	TALU12

Copper

For wire rope mm	Packing size pcs	Product code
1	5000	TALUK01
2	2500	TALUK02
3	4000	TALUK03
4	2000	TALUK04
5	500	TALUK05
6	500	TALUK06
8	200	TALUK08
10	100	TALUK10

You can find pressing tools on page 13-10.

Other types also available within delivery time.

IRONGRIP WIRE ROPE CLIPS FOR LIFTING

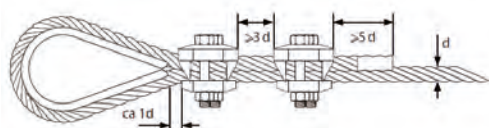
- locks approved for lifting
- strength grade 8
- operating temperature -50 - (+)100 °C
- KTL coating
- min. amount of locks when installed 2 pcs



Wire diam.	Packing size	Weight	Product code
mm	pcs	kg / 100 pcs	
2	100	1,20	VLBG02
3	100	1,60	VLBG03
4	100	2,20	VLBG04
5	50	4,10	VLBG05

IRONGRIP WIRE ROPE CLAMPS FOR LIFTING

- locks approved for lifting
- hot dip galvanized



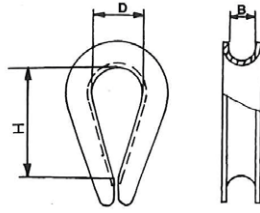
Min. amount of locks when installed 2 pcs.



Wire diam. d mm	Tightening torque Nm	Packing size pcs	Weight kg / 100 pcs	Product code
5-6	9,5	200	9,0	VLBG06
7-8	9,5	50	12,0	VLBG08
9-10	22	70	20,0	VLBG10
11-12,5	44	40	39,0	VLBG12
13-16	75	20	72,0	VLBG16
17-20	120	16	120,0	VLBG20
21-25	260	6	280,0	VLBG25
26-34	350	2	770,0	VLBG34

THIMBLES FOR STEEL WIRE ROPES DIN 6899B

- pressed profile steel
- electro galvanized

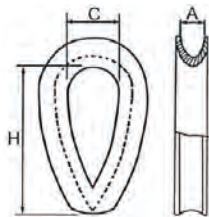


Wire diam.	B	D	H	Weight	Packing size	Product code
mm	mm	mm	mm	kg / 100 pcs	pcs	
2 – 3	4	13	21	0,8	100	KO03
3,5	5	14	23	1,1	100	KO04
4 – 5	6	16	25	1,6	100	KO05
6	7	18	28	1,9	100	KO06
7	8	20	32	3,3	100	KO08
8 – 9	10	24	38	4,7	50	KO09
10 – 11	12	28	45	6,8	50	KO11
12 – 13	14	32	51	10,0	50	KO13
14 – 16	17	38	61	18,0	25	KO16
17 – 18	20	45	72	29,0	25	KO18
19 – 20	22	50	80	32,0	25	KO20
21 – 22	24	56	90	47,0	1	KO22
23 – 24	26	62	99	59,0	1	KO24
26	28	70	112	84,0	1	KO26
28	30	75	120	110,0	1	KO28
29 – 30	32	80	128	123,0	1	KO30
31 – 32	34	95	152	156,0	1	KO32
33 – 34	36	100	160	176,0	1	*KO34
36	38	110	176	180,0	1	*KO36
38	40	115	186	195,0	1	*KO38
40	42	120	192	320,0	1	*KO40

*items marked with an asterisk delivery time 1-2 weeks

THIMBLES FOR STEEL WIRE ROPES DIN 3090

- forged steel
- hot dip galvanized
- also bigger sizes available within delivery time



Wire diam.	a	c	h	Packing size	Weight	Product code
mm	mm	mm	mm	pcs	kg / 100 pcs	
5 – 6	7	15	42	100	2,8	KOD06
7 – 8	9	20	56	50	5,7	KOD08
9 – 10	11	25	70	50	15,2	KOD10
11 – 12	13	30	85	50	24,0	KOD12
13 – 14	15	35	102	50	38,0	KOD14
15 – 16	18	40	113	50	52,0	KOD16
17 – 18	20	45	127	25	66,0	KOD18
19 – 20	22	50	141	25	88,0	KOD20
21 – 22	24	55	153	10	104,0	KOD22
23 – 24	26	60	165	10	129,0	KOD24
25 – 26	29	65	181	1	260,0	KOD26
27 – 28	31	70	193	1	277,0	KOD28

Products' delivery time 1-2 weeks.

CLIP & THIMBLE COMBINATIONS FOR STEEL WIRE ROPES

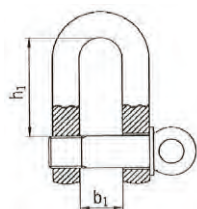


Wire diam. mm	a mm	b mm	l mm	Weight kg	Product code
5 – 6	6	26	67	0,1	LUKO6
7 – 9	12	37	100	0,5	LUKO9
10 – 12	15	48	152	1,0	LUKO12
13 – 16	19	61	186	2,0	LUKO16
17 – 20	25	76	241	3,8	*LUKO20

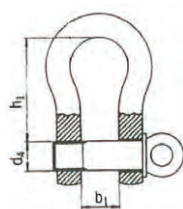
*items marked with an asterisk delivery time 1-2 weeks

COMMERCIAL QUALITY DEE AND BOW SHACKLES

- dee and bow models as electro and hot dip galvanized



dee model



bow model



electro galvanized



hot dip galvanized

Pin size d4 mm	Breaking strength approx. t	b1 mm	h1 mm	Packing size		Weight/ 100 pcs approx. kg	Product code	
				dee model pcs	bow model pcs		dee model	bow model
5	0,4	10	20	100	100	1,6	SAKY05	-
6	0,5	12	24	100	100	3,2	SAKY06	-
8	1,0	16	32	50	50	7,0	SAKY08	SAKY08P
10	1,5	20	40	25	25	13,4	SAKY10	SAKY10P
12	2,5	25	48	25	25	25,0	SAKY12	SAKY12P
14	3,0	28	53	25	25	34,0	SAKY14	SAKY14P
16	4,0	32	60	10	10	53,0	SAKY16	SAKY16P
20	5,5	38	74	1	1	92,0	SAKY20	SAKY20P
22	7,5	44	85	1	1	140,0	SAKY22	SAKY22P
25	10,0	51	97	1	1	215,0	SAKY25	SAKY25P
28	15,0	56	107	1	1	340,0	SAKY28	SAKY28P
32	17,5	64	122	1	1	590,0	SAKY32	SAKY32P
38	25,0	76	146	1	1	760,0	SAKY38	-

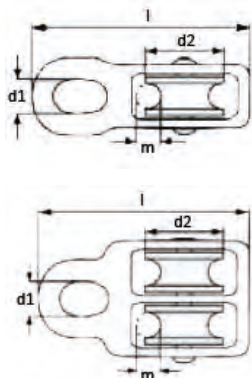
HOT DIP GALVANIZED DEE MODELS

Pin size d4 mm	Breaking strength approx. t	b1 mm	h1 mm	Packing size		Weight/ 100 pcs approx. kg	Product code
				dee model pcs	bow model pcs		
16	4,0	32	60	10	10	53,0	SAKY16KS
20	5,5	38	74	1	1	92,0	SAKY20KS
25	10,0	51	97	1	1	215	SAKY25KS

NEW

1- AND 2-WHEELED PULLEYS

- body electro galvanized steel, wheel nylon
- for synthetic fibre ropes



For rope mm	Breaking strength approx. t	d1 mm	d2 mm	l mm	Weight/ 100 pcs approx. kg	Product code 1-wheel	Product code 2-wheel
5	0,55	10	15	50	2,4	PYL05	PYL205
6	0,60	11	20	60	4,1	PYL06	PYL206
8	0,90	13	30	80	8,3	PYL08	PYL208
9	1,10	14	40	93	12,7	PYL09	PYL209
12	1,20	16	50	113	19,7	PYL12	PYL212
16	1,30	20	65	135	38,5	PYL16	*PYL216

*items marked with an asterisk delivery time 1-2 weeks

WIRE ROPE / CABLE SWIVELS

- prevents twisting when pulling steel wire rope or cable
- very small
- with needle bearing



Tensile breaking strength kg	A diam. mm	B length mm	Weight kg	Product code
1000	29	143	0,53	LEIKHGS1
2000	49	185	1,90	LEIKHGS2

STEEL WIRE ROPE / CABLE PULLING SOCKS

- for pulling steel ropes and cables
- hot dip galvanized
- ask for sizes and models from our sales



PRESS TOOLS FOR "TALURIT" WIRE ROPE FERRULES

- suitable for 1 - 1,5 and 1 - 5 mm ropes
- either hand models or a table-mounted model
- paint coated



TALUPI3



TALUPI6



TALUPI6P

Wire diam. mm	Type	Weight kg	Product code
1 - 1,5	Pliers	0,3	TALUPI3
2 - 5	Pliers	2,7	TALUPI6
1 - 5	Table-mounted model	7,5	TALUPI6P

CUTTERS FOR STEEL WIRE ROPES AND CABLES

- special steel cutters for steel wire ropes and different kinds of cables
- listed values are for fiber core ropes
- paint coated



TEKLEI05



TEKLEI14P

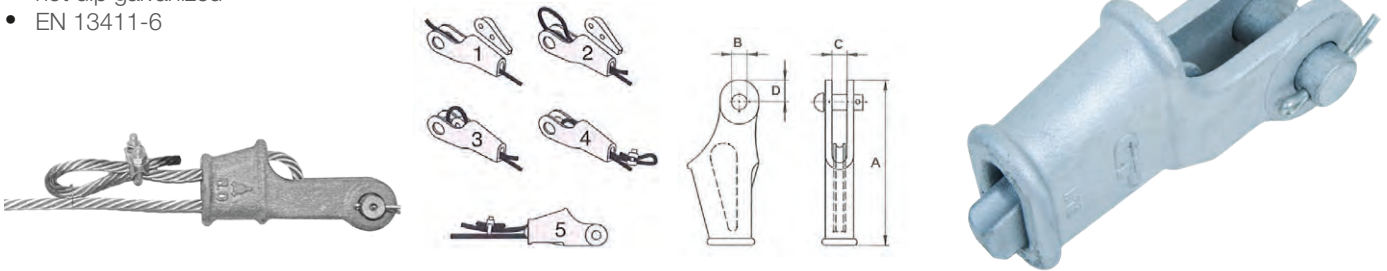


TEKLEI18-22

Wire diam. mm	Type	Weight kg	Product code
1 - 5	Pliers	0,3	TEKLEI05
1 - 14	Pliers	6,0	TEKLEI18
1 - 20	Pliers	9,8	TEKLEI22
1 - 14	Table-mounted model	7,0	TEKLEI14P

GREEN PIN® WEDGE SOCKETS FOR STEEL WIRE ROPES, FOR LIFTING

- fast way to make a clevis end fitting to a steel rope
- approved for lifting
- hot dip galvanized
- EN 13411-6

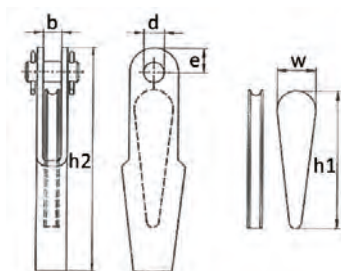


Wire diam. mm	Breaking strength t	A mm	B mm	C mm	D mm	Weight kg	Product code
7 - 8	8	128	16	18	18	0,8	*KII010
9 - 10	12	165	20	20	20	1,5	KII015
11 - 13	20	170	25	24	24	2,4	KII025
14 - 16	25	210	30	31	32	4,0	KII040
18 - 19	40	255	35	38	40	7,4	KII050
20 - 22	55	286	41	44	46	11,0	KII070
24 - 26	75	330	50	52	54	16,0	KII100
27 - 29	90	375	57	60	62	22,0	*KII120
30 - 32	110	423	64	63	73	31,0	*KII160
34 - 36	125	474	64	69	74	39,0	*KII180

*items marked with an asterisk delivery time 1-2 weeks

WEDGE SOCKETS FOR STEEL WIRE ROPES

- fast way to make a clevis end fitting to a steel rope
- electro galvanized
- DIN 15315



Wire diam. mm	b mm	e mm	h2 mm	d mm	h1 mm	w mm	Weight kg	Product code
4 - 5	12	14	110	10	68	19	0,17	KII05
6 - 8	14	20	150	12	92	25	0,50	KII08
9 - 11	17	26	190	16	117	32	1,04	KII11
12 - 14	22	32	230	18	141	38	2,07	KII14
15 - 17	25	36	260	22	162	46	3,66	KII17
18 - 20	27	40	300	25	186	52	5,35	KII20

RETAIL-PACKED STEEL WIRE ROPES

- steel wire ropes are packed in 15 meter rolls
- hot dip galvanized



NEW

Wire rope size mm	Min. tensile breaking strength kg	Structure	No. of wires	Length m	Product code
1	95	1x12	12	15	TEK01IP15
2	240	6x7+FC	42	15	TEK02IP15
3	540	6x7+FC	42	15	TEK03IP15
4	950	6x7+FC	42	15	TEK04IP15
5	1380	6x19+FC	114	15	TEK05IP15
6	2000	6x19+FC	114	15	TEK06IP15

RETAIL-PACKED PVC COATED STEEL WIRE ROPES

- plastic coated steel wire ropes are packed in 15 meter rolls
- hot dip galvanized



NEW

Wire rope size mm	Min. tensile breaking strength kg	Structure	No. of wires	Length m	Product code
2/3	240	6x7+FC	42	15	TKP23IP15
3/5	540	6x7+FC	42	15	TKP35IP15
4/6	960	6x7+FC	42	15	TKP46IP15

RETAIL-PACKED STAINLESS STEEL WIRE ROPES

- stainless steel wire ropes are packed in 15 meter rolls
- AISI 316



NEW

Wire rope size mm	Min. tensile breaking strength kg	Structure	No. of wires	Length m	Product code
1	95	1x19	19	15	TEK01HKIP15
2	260	6x7+IWS	49	15	TEK02HKIP15
3	580	6x7+IWS	49	15	TEK03HKIP15
4	1040	6x19+IWS	133	15	TEK04HKIP15
5	1320	6x19+IWS	133	15	TEK05HKIP15
6	1910	6x19+IWS	133	15	TEK06HKIP15

14. TURNBUCKLES

Lift graded turnbuckles

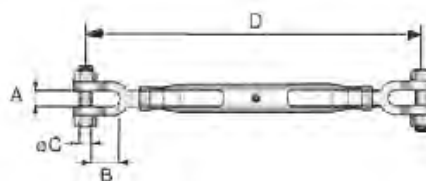
General quality turnbuckles

Turnbuckle frames



LIFT GRADED TURNBUCKLES, CLOSED BODY WITH FORK / FORK ENDS

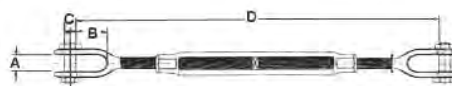
- turnbuckles for demanding use
- size and WLL markings
- equipped with locking nuts
- hot dip galvanized
- safety factor 5:1



WLL t	Breaking strength t	A mm	B mm	C mm	D mm	Body length mm	Thread size	Weight kg	Product code
0,2	1,0	9,0	18,5	4,8	180-250	103,0	M6	0,2	VRH06
0,3	1,5	11,0	19,0	6,0	210-290	128,0	M8	0,3	VRH08
0,5	2,5	12,5	17,0	8,0	240-340	152,0	M10	0,5	VRH10
0,7	3,5	12,0	30,0	9,5	350-510	237,0	M12	1,0	VRH12
1,2	6,0	19,0	45,0	11,2	390-500	230,0	M16	1,4	VRH16
1,5	7,5	22,5	38,0	16,0	400-530	230,0	M20	2,0	VRH19
2,2	11,0	23,5	39,0	18,6	500-670	305,0	M22	4,0	VRH22
5,0	25,0	32,0	51,5	22,0	570-800	360,0	M24	5,0	VRH25
7,0	35,0	37,0	64,0	24,0	640-850	380,0	M33	9,0	VRH32
10,0	50,0	46,0	73,5	32,0	710-900	470,0	M39	12,0	VRH38
13,0	65,0	50,5	89,0	36,5	760-1000	415,0	M45	19,0	VRH45
17,0	85,0	51,4	96,0	43,0	890-1200	413,0	M50	32,0	VRH50

LIFT GRADED TURNBUCKLES WITH OPEN FRAME

- turnbuckles for demanding use
- material SAE 1035 special steel
- hot dip galvanized
- safety factor 5:1



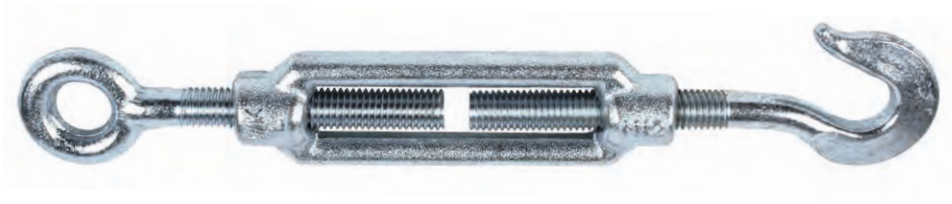
WLL t	Breaking strength t	A mm	B mm	C mm	D mm	Thread size	Weight kg	Product code
0,54	2,70	12	21	8	273-409	3/8"x6"	0,57	VR3/8
1,00	5,00	16	26	10	380-587	1/2"x9"	1,18	VR1/2
1,59	7,95	18	32	13	421-622	5/8"x9"	2,12	VR5/8
2,36	11,80	24	38	16	422-639	3/4"x9"	3,03	VR3/4
3,27	16,35	27	42	19	559-825	7/8"x12"	4,90	VR7/8
4,54	22,70	30	50	22	598-859	1"x12"	6,96	VR1
6,90	34,50	44	71	28	641-916	1 1/4"x12"	11,90	VR11/4
9,71	48,55	52	71	35	675-941	1 1/2"x12"	16,90	VR11/2

We deliver also other sizes and types, e.g. with loop ends.

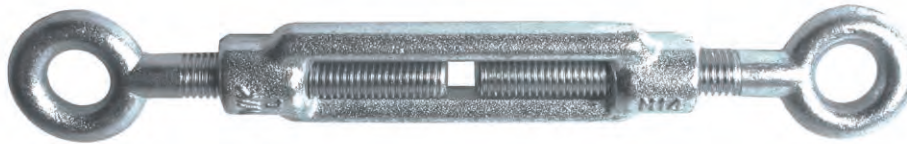
Products' delivery time 1-2 weeks.

TURNBUCKLES TYPE DIN 1480

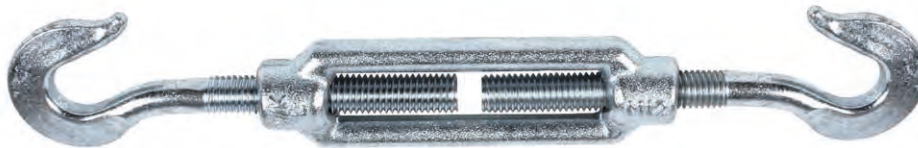
- electro galvanized



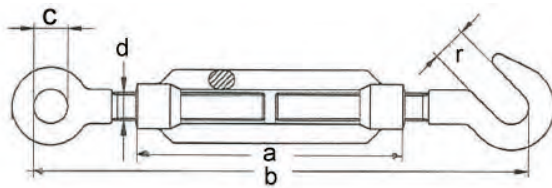
VRSK



VRSS



VRKK

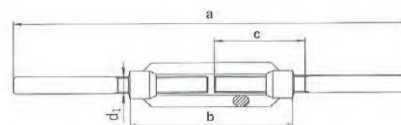


Picture and dimensions are approximate.

Size d x a	b	c	r	Packing size	Weight	Product code	Product code	Product code
mm	mm	mm	mm	pcs	kg / 100 pcs	eye/hook	eye/eye	hook/hook
6x110	156 – 236	8	8	10	9,5	VRSK06	VRSS06	VRKK06
8x110	160 – 240	10	11	10	16,5	VRSK08	VRSS08	VRKK08
10x125	170 – 263	13	14	10	29,0	VRSK10	VRSS10	VRKK10
12x125	201 – 285	17	16	10	43,0	VRSK12	VRSS12	VRKK12
14x140	222 – 322	17	18	10	62,0	VRSK14	VRSS14	VRKK14
16x170	259 – 377	19	19	10	92,0	VRSK16	VRSS16	VRKK16
20x200	307 – 445	24	20	5	163,0	VRSK20	VRSS20	VRKK20
22x220	342 – 496	27	26	2	220,0	VRSK22	VRSS22	VRKK22
24x255	377 – 561	27	26	2	300,0	VRSK24	VRSS24	VRKK24
30x255	391 – 570	31	33	1	460,0	VRSK30	VRSS30	VRKK30

TURNBUCKLE OPEN FRAMES WITH STUBS, TYPE DIN 1480

- electro galvanized

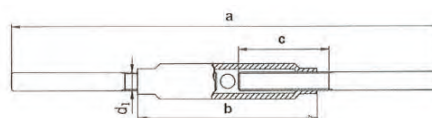


Size d 1 mm	a mm (approx.)	b mm	c mm	Weight kg / 100 pcs	Product code
M6	240 – 320	110	65	9,3	VRRAT06
M8	240 – 315	110	65	14,0	VRRAT08
M10	300 – 385	125	75	28,0	VRRAT10
M12	300 – 380	125	75	40,0	VRRAT12
M16	400 – 510	170	100	89,0	VRRAT16
M20	440 – 570	200	120	160,0	VRRAT20
M24	520 – 690	255	150	282,0	VRRAT24
M30	520 – 680	255	160	423,0	*VRRAT30
M36	600 – 780	295	180	707,0	*VRRAT36
M42	700 – 900	330	200	1160,0	*VRRAT42
M48	760 – 955	355	195	1900,0	*VRRAT48

*items marked with an asterisk delivery time 2-3 weeks

TURNBUCKLE CLOSED FRAMES WITH STUBS, TYPE DIN 1478

- electro galvanized



Size d 1 mm	a mm (approx.)	b mm	c mm	Weight kg / 100 pcs	Product code
M6	240 – 330	110	65	14	VRRUT06
M8	240 – 325	110	65	18	VRRUT08
M10	300 – 395	125	75	32	VRRUT10
M12	300 – 390	125	75	45	VRRUT12
M16	400 – 520	170	100	90	VRRUT16
M20	400 – 540	200	120	150	VRRUT20
M24	520 – 700	255	150	275	VRRUT24
M30	520 – 680	255	160	394	VRRUT30
M36	600 – 780	295	180	650	VRRUT36

15. GENERAL QUALITY CHAINS AND COMPONENTS

Electro and hot dip galvanized chains

Chain repairing links

S-hooks

Carbine hooks

Linch pins

Shackles

Swivels

Retail-packed products



SHORT LINK CHAINS DIN-766

- electro or hot dip galvanized coating
- electro galvanized on plastic spools
- hot dip galvanized in bundles or on plastic spools



Size D mm	A mm	B mm	Reel size electro / hot dip galvanized	Bundle size hot dip galvanized	Weight kg / m approx.	Breaking strength t approx.	Product code electro galvanized on a reel	Product code hot dip galvanized on a reel	Product code hot dip galvanized in a bundle
3	16,0	6,0	50	50	0,17	0,30	KELH03	-	-
4	16,0	6,0	30	50	0,32	0,60	KELH04	KELH04KSK	KELH04KSN
5	18,5	7,0	30	50	0,50	1,00	KELH05	KELH05KSK	KELH05KSN
6	18,5	8,0	25	50	0,75	1,40	KELH06	KELH06KSK	KELH06KSN
8	24,0	10,0	15	50	1,35	2,50	KELH08	KELH08KSK	KELH08KSN
10	28,0	14,0	10	50	2,25	4,00	KELH10	KELH10KSK	KELH10KSN
13	36,0	18,0	-	30	3,80	6,40	-	-	KELH13KSN
16	45,0	22,0	-	30	5,20	10,00	-	-	KELH16KSN

LONG LINK CHAINS DIN-763 (5685-C)

- electro or hot dip galvanized coating
- electro galvanized on plastic spools
- hot dip galvanized in bundles or on plastic spools



Size D mm	A mm	B mm	Reel size electro / hot dip galvanized	Bundle size hot dip galvanized	Weight kg / m approx.	Breaking strength t approx.	Product code electro galvanized on a reel	Product code hot dip galvanized on a reel	Product code hot dip galvanized in a bundle
2	22,0	6,0	130	-	0,06	0,125	KEPH2	-	-
3	26,0	8,0	60	50	0,15	0,30	KEPH3	KEPH03KSK	KEPH3KSN
4	32,0	8,0	30	50	0,27	0,60	KEPH4	KEPH04KSK	KEPH4KSN
5	36,0	10,0	30	50	0,43	1,00	KEPH5	KEPH05KSK	KEPH5KSN
6	42,0	12,0	30	50	0,63	1,40	KEPH6	KEPH06KSK	KEPH6KSN
8	54,0	16,0	15	50	1,10	2,50	KEPH8	KEPH08KSK	KEPH8KSN
10	66,0	20,0	15	50	1,75	4,00	KEPH10	KEPH10KSK	KEPH10KSN
13	82,0	24,0	-	50	3,10	6,30	-	-	KEPH13KSN
16	100,0	28,0	-	30	4,50	10,00	-	-	KEPH16KSN
20	120,0	34,0	-	50	7,00	16,00	-	-	KEPH20KSN
22	127,0	38,0	-	30	8,60	19,00	-	-	KEPH22KSN
25	140,0	35,0	-	30	10,90	24,50	-	-	KEPH25KSN

KNOTTED CHAINS DIN 5686

- electro galvanized
- on plastic spoos



Size D	A	B	Reel size	Weight	Product code
mm	mm	mm	m	kg / m approx.	electro galvanized on a reel
1,6	23,0	3,8	60	0,055	KESK16
2,0	27,0	4,0	60	0,088	KESK20
2,5	31,0	5,0	30	0,120	KESK25
3,1	39,0	7,5	30	0,200	KESK31
3,8	46,0	9,0	30	0,300	KESK38
5,0	58,0	11,5	30	0,500	KESK50

CHAIN AND WIRE ROPE STAND

- paint coated (white)
- stand has space for approx. 20 spoos
- height approx. 1600 mm, width 840 mm, depth 610 mm
- spoos are locked in place with linch pins
- weight approx. 15 kg

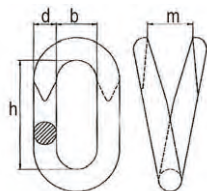
Product code: KETE10

Note! Spoos are not included.



CHAIN REPAIR LINKS

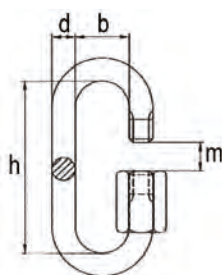
- for extending and repairing general quality chains
- link is closed by hitting
- electro galvanized



For chain d mm	Packing size	b mm	h mm	m mm	Weight kg / 100 pcs	Product code
3	100	6,5	16,5	4,0	0,32	KEKL03
4	100	8,0	20,0	5,5	0,73	KEKL04
5	100	9,5	23,0	6,0	1,44	KEKL05
6	100	10,5	29,0	7,0	2,13	KEKL06
8	100	15,0	37,0	9,0	5,45	KEKL08
10	100	17,0	37,5	9,0	9,80	KEKL10
12	100	19,0	39,0	11,0	18,30	KEKL12

CHAIN QUICK LINKS

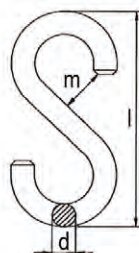
- for extending and repairing general quality chains
- opening screw on the side of the link
- electro galvanized



For chain d mm	Packing size	b mm	h mm	m mm	Weight kg / 100 pcs	Product code
3	100	10	29	5,0	1,2	KEPL03
4	100	11	32	5,5	1,2	KEPL04
5	100	13	39	6,5	2,5	KEPL05
6	100	14	45	7,5	3,6	KEPL06
8	100	18	60	10,0	7,8	KEPL08
10	50	20	69	12,0	13,8	KEPL10
12	25	25	82	15,0	20,0	KEPL12
14	1	26	93	17,0	40,0	KEPL14
16	1	29	108	19,0	60,0	KEPL16

S-HOOKS

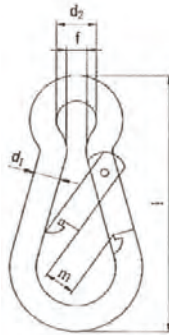
- for chain suspensions etc.
- electro galvanized



d mm	l mm	m mm	Packing size pcs	Weight kg / 100 pcs	Product code
3	25	7	100	0,3	SKOU3
4	35	11	100	0,7	SKOU4
5	45	14	100	1,3	SKOU5
6	55	16	100	2,4	SKOU6
8	75	23	50	5,6	SKOU8

CARBINE HOOKS DIN 5299-C

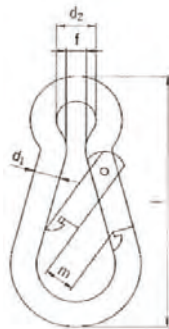
- for different attachments and suspensions
- electro galvanized



Size d1 x l mm	d2 mm	f mm	m mm	Packing size pcs	Weight kg / 100 pcs	Product code
4 x 40	6	4	8	50	1,1	KH40
5 x 50	8	4	8	50	1,9	KH50
6 x 60	9	5	8	50	2,7	KH60
7 x 70	10	8	8	50	4,4	KH70
8 x 80	10	8	9	50	6,5	KH80
9 x 90	12	9	10	10	8,8	KH90
10 x 100	15	10	11	10	12,7	KH100
11 x 120	18	11	16	10	18,0	KH120
12 x 140	20	13	19	10	26,0	KH140
13 x 160	22	15	25	10	35,0	KH160
14 x 180	22	15	35	10	48,0	KH180

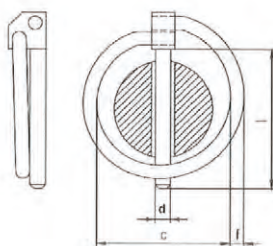
CARBINE HOOKS WITH LOCKING DIN 5299-C

- for different attachments and suspensions
- with locking screw
- electro galvanized



Size d1 x l mm	d2 mm	f mm	m mm	Packing size pcs	Weight kg / 100 pcs	Product code
6 x 60	9	5	8	50	2,9	KH60L
7 x 70	10	8	8	50	4,6	KH70L
8 x 80	10	8	9	50	6,9	KH80L
10 x 100	15	10	12	10	13,4	KH100L
11 x 120	18	11	16	10	19,0	KH120L
12 x 140	20	13	19	10	26,5	KH140L

SAFETY LINCH PINS



- safety lynch pins equipped with a spring
- electro galvanized

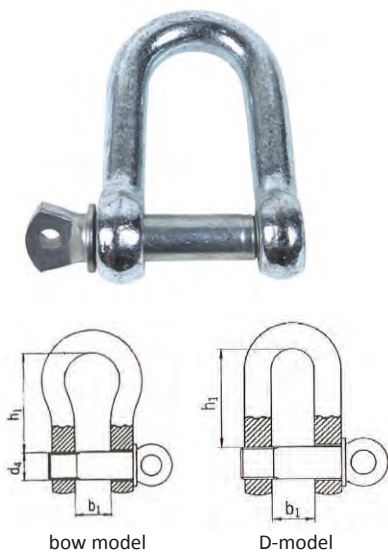
Size d mm	c mm	f mm	l mm	Packing size pcs	Weight kg / 100 pcs	Product code
4,5	34,0	3,4	42,0	50	2,00	RES045
6,0	41,0	3,4	42,0	50	2,80	RES06
8,0	41,0	3,4	42,0	50	3,50	RES08
10,0	41,0	3,4	42,0	50	4,40	RES10
12,0	41,0	3,4	42,0	50	5,72	RES12

COMMERCIAL DEE AND BOW SHACKLES

- two models, dee and bow model

ELECTRO GALVANIZED

Pin size d4 mm	Breaking strength approx. t	b1 mm	h1 mm	Packing size	Weight/ 100 pcs approx. kg	Product code dee model	Product code bow model
5	0,4	10	20	100	1,6	SAKY05	-
6	0,5	12	24	100	3,2	SAKY06	-
8	1,0	16	32	50	7,0	SAKY08	SAKY08P
10	1,5	20	40	25	13,4	SAKY10	SAKY10P
12	2,5	25	48	25	25,0	SAKY12	SAKY12P
14	3,0	28	53	25	34,0	SAKY14	SAKY14P
16	4,0	32	60	10	53,0	SAKY16	SAKY16P
20	5,5	38	74	1	92,0	SAKY20	SAKY20P
22	7,5	44	85	1	140,0	SAKY22	SAKY22P
25	10,0	51	97	1	215,0	SAKY25	SAKY25P
28	15,0	56	107	1	340,0	SAKY28	SAKY28P
32	17,5	64	122	1	590,0	SAKY32	SAKY32P
38	25,0	76	146	1	760,0	SAKY38	-



HOT DIP GALVANIZED DEE MODEL

Pin size d4 mm	Breaking strength approx. t	b1 mm	h1 mm	Packing size pcs	Weight/ 100 pcs approx. kg	Product code
16	4,0	32	60	10	53,0	SAKY16KS
20	5,5	38	74	1	92,0	SAKY20KS
25	10,0	51	97	1	215	SAKY25KS

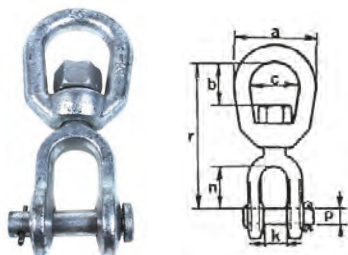


NEW

SWIVELS WITH EYE / FORK ENDS

- rotating swivels with gliding surface
- electro galvanized

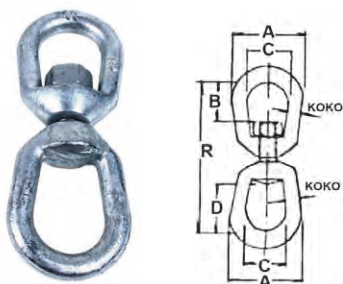
Breaking strength t	Size mm	a mm	b mm	c mm	k mm	n mm	p mm	r mm	Weight kg	Product code
2,0	8	41	21	25	13	22	8	75	0,17	LEISH0500
4,0	10	51	24	32	16	27	10	92	0,32	LEISH1000
6,4	13	64	33	38	19	33	13	114	0,65	LEISH1600
9,6	16	76	40	44	24	38	16	135	1,12	LEISH2400
12,8	19	89	44	51	29	44	19	154	1,88	LEISH3200
18,0	22	102	52	57	30	52	22	178	2,21	LEISH4500
22,4	25	114	59	64	44	71	29	217	4,87	LEISH5600



SWIVELS WITH EYE / EYE ENDS

- rotating swivels with gliding surface
- electro galvanized

Breaking strength t	Size mm	A mm	B mm	C mm	D mm	R mm	Weight kg	Product code
2,0	8	41	21	25	32	90	0,18	LEISS0500
4,0	10	51	24	32	38	110	0,31	LEISS1000
6,4	13	64	33	38	51	138	0,65	LEISS1600
9,6	16	76	40	44	60	167	1,08	LEISS2360
12,8	19	89	44	51	67	183	1,79	LEISS3200
18,0	22	102	52	57	78	213	2,80	LEISS4500
22,4	25	114	59	64	89	245	4,06	LEISS5600



RETAIL-PACKED PRODUCTS (packed as 10 pcs / bag)

COMMERCIAL ELECTRO GALV. DEE SHACKLES



Size mm	Breaking strength approx. t	Qty pcs	Product code
5	0,4	6	SAKY05IP6
6	0,5	6	SAKY06IP6
8	1,0	4	SAKY08IP4
10	1,5	2	SAKY10IP2
12	2,5	2	SAKY12IP2
14	3,0	1	SAKY14IP1
16	4,0	1	SAKY16IP1

STAINLESS STEEL BOW SHACKLES AISI 316



Size mm	Breaking strength approx. t	Qty pcs	Product code
5	0,4	4	SAKH05PIP4
6	0,5	2	SAKH06PIP2
8	1,0	2	SAKH08PIP2
10	1,5	1	SAKH10PIP1
12	2,5	1	SAKH12PIP1

LIFTING EYE NUTS FOR VERTICAL LIFTING DIN 582



Size	Breaking strength approx. t	Qty pcs	Product code
M6	0,08	4	NSM06IP4
M8	0,14	2	NSM08IP2
M10	0,23	2	NSM10IP2
M12	0,34	1	NSM12IP1

LIFTING EYE SCREWS FOR VERTICAL LIFTING DIN 580



Size	Breaking strength approx. t	Qty pcs	Product code
M6	0,08	4	NSR06IP4
M8	0,14	2	NSR08IP2
M10	0,23	2	NSR10IP2
M12	0,34	1	NSR12IP1

ELECTRO GALV. CARBINE HOOKS DIN 5299-C



Size mm	Qty pcs	Product code
50 x 5	6	KH50IP6
60 x 6	4	KH60IP4
70 x 7	4	KH70IP4
90 x 9	2	KH90IP2
100 x 10	2	KH100IP2

ELECTRO GALV. CHAIN QUICK LINKS



Size mm	Qty pcs	Product code
4	6	KEPL04IP6
5	6	KEPL05IP6
6	4	KEPL06IP4
8	2	KEPL08IP2
10	2	KEPL10IP2

ELECTRO GALV. THIMBLES DIN 6899B



Size mm	Qty pcs	Product code
2 - 3	6	KO03IP6
4 - 5	4	KO05IP4
6	2	KO06IP2
7	2	KO08IP2
9 - 10	2	KO09IP2
11 - 12	1	KO11IP1
13 - 14	1	KO13IP1

ELECTRO GALV. WIRE ROPE CLIPS DIN 741



Size mm	Qty pcs	Product code
3	8	VL03IP8
5	6	VL05IP6
6	6	VL06IP6
8	4	VL08IP4
10	4	VL10IP4
13	2	VL13IP2
16	1	VL16IP1

RETAIL-PACKED PRODUCTS (packed as 10 pcs / bag)

ELECTRO GALV. / NYLON PULLEYS



Size	Qty	Product code
mm	pcs	
5	6	PYL05IP6
6	4	PYL06IP4
8	2	PYL08IP2
9	2	PYL09IP2
12	2	PYL12IP2

ELECTRO GALV. S-HOOKS



Size	Qty	Product code
mm	pcs	
3	6	SKOU3IP6
4	5	SKOU4IP5
5	4	SKOU5IP4
6	3	SKOU6IP3
8	2	SKOU8IP2

YELLOW PASSIVATED SAFETY LINCH PINS



Size	Qty	Product code
mm	pcs	
6	4	RES06IP4
8	4	RES08IP4
10	4	RES10IP4
12	4	RES12IP4

DUPLEX WIRE ROPE CLIPS



NEW



Size	Qty	Product code
mm	pcs	
2	8	VLDU2IP8
3	8	VLDU3IP8
5	6	VLDU5IP6
6	6	VLDU6IP6
8	4	VLDU8IP4

“TALURIT” FERRULES FOR STEEL W. ROPES

NEW



Size	Qty	Product code
mm	pcs	
1	10	TALU01IP10
2	10	TALU02IP10
3	10	TALU03IP10
4	10	TALU04IP10
5	10	TALU05IP10

ELECTRO GALV. SWIVELS

NEW



Tap size	Qty	Product code
mm	pcs	
8	1	LEISH0500IP1
10	1	LEISH1000IP1
13	1	LEISH1600IP1
16	1	LEISH2400IP1

ELECTRO GALV. TURNBUCKLES DIN 1480



Size	Qty	Product code
	pcs	
M6	2	VRSK06IP2
M8	2	VRSK08IP2
M10	2	VRSK10IP2

RETAIL-PACKED STEEL WIRE ROPES

- steel wire ropes are packed in 15 meter rolls
- hot dip galvanized


NEW

Wire rope size mm	Min. tensile breaking strength kg	Structure	No. of wires	Length m	Product code
1	95	1x12	12	15	TEK01IP15
2	240	6x7+FC	42	15	TEK02IP15
3	540	6x7+FC	42	15	TEK03IP15
4	950	6x7+FC	42	15	TEK04IP15
5	1380	6x19+FC	114	15	TEK05IP15
6	2000	6x19+FC	114	15	TEK06IP15

RETAIL-PACKED PVC COATED STEEL WIRE ROPES

- plastic coated steel wire ropes are packed in 15 meter rolls
- hot dip galvanized


NEW

Wire rope size mm	Min. tensile breaking strength kg	Structure	No. of wires	Length m	Product code
2/3	240	6x7+FC	42	15	TKP23IP15
3/5	540	6x7+FC	42	15	TKP35IP15
4/6	960	6x7+FC	42	15	TKP46IP15

RETAIL-PACKED STAINLESS STEEL WIRE ROPES

- stainless steel wire ropes are packed in 15 meter rolls
- AISI 316


NEW

Wire rope size mm	Min. tensile breaking strength kg	Structure	No. of wires	Length m	Product code
1	95	1x19	19	15	TEK01HKIP15
2	260	6x7+IWS	49	15	TEK02HKIP15
3	580	6x7+IWS	49	15	TEK03HKIP15
4	1040	6x19+IWS	133	15	TEK04HKIP15
5	1320	6x19+IWS	133	15	TEK05HKIP15
6	1910	6x19+IWS	133	15	TEK06HKIP15

ELECTRO AND HOT DIP GALVANIZED CHAINS PACKED IN BAGS

SHORT LINK ELECTRO GALVANIZED



LONG LINK HOT DIP GALVANIZED



KNOTTED CHAINS ELECTRO GALVANIZED



Size mm	Type	Length m	Product code
3	Short link electro galvanized	5	KELH03IP5
5	Short link electro galvanized	2	KELH05IP2
5	Short link electro galvanized	5	KELH05IP5
8	Short link electro galvanized	2	KELH08IP2
8	Short link electro galvanized	5	KELH08IP5
10	Short link electro galvanized	2	KELH10IP2
3	Long link hot dip galvanized	5	KEPH03KSIP5
4	Long link hot dip galvanized	2	KEPH04KSIP2
4	Long link hot dip galvanized	5	KEPH04KSIP5
6	Long link hot dip galvanized	2	KEPH06KSIP2
6	Long link hot dip galvanized	5	KEPH06KSIP5
8	Long link hot dip galvanized	2	KEPH08KSIP2
8	Long link hot dip galvanized	5	KEPH08KSIP5
10	Long link hot dip galvanized	2	KEPH10KSIP2
NEW 1,6	Knotted chain electro galvanized	5	KESK16IP5
NEW 2,0	Knotted chain electro galvanized	5	KESK20IP5
2,5	Knotted chain electro galvanized	5	KESK25IP5

16. STAINLESS STEEL GENERAL QUALITY PRODUCTS

Chains / Chain quick links

Eyes / Carbine hooks

Shackles

Wire ropes / Locks

Thimbles / Turnbuckles



From this product category you will find general quality stainless steel products.
Lift graded components on product groups 2-, 9 and 10.

LONG LINK CHAINS

- in bundles
- material AISI 316



Size D	A	B	Weight	Breaking strength t	Product code
mm	mm	mm	kg / m approx.	approx.	
2	22,0	4,0	0,06	0,13	KEHA2PH
3	26,0	5,5	0,15	0,28	KEHA3PH
4	32,0	8,0	0,27	0,60	KEHA4PH
5	36,0	10,0	0,43	1,00	KEHA5PH
6	42,0	12,0	0,63	1,40	KEHA6PH
8	54,0	16,0	1,10	2,50	KEHA8PH
10	66,0	20,0	1,75	4,00	KEHA10PH
13	82,0	24,0	2,95	6,40	KEHA13PH
16	100	32	4,45	9,00	KEHA16PH



SHORT LINK CHAINS

- in bundles
- material AISI 316

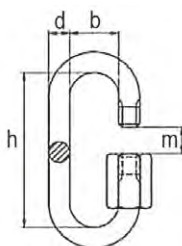


Size D	A	B	Weight	Breaking strength t	Product code
mm	mm	mm	kg / m approx.	approx.	
3	16,0	6,0	0,17	0,28	KEHA3LH
4	16,0	6,0	0,32	0,60	KEHA4LH
5	18,5	7,0	0,50	1,00	KEHA5LH
6	18,5	8,0	0,75	1,40	KEHA6LH
8	24,0	10,0	1,35	2,50	KEHA8LH
10	28,0	14,0	2,25	4,00	KEHA10LH
13	36,0	18,0	3,80	6,40	KEHA13LH



CHAIN QUICK LINKS

- for chain repairing and extending
- screw locking
- material AISI 316

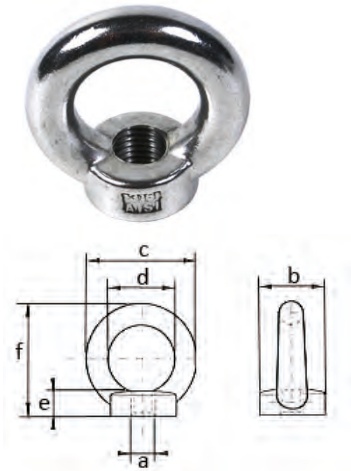


Size d	b	h	m	Weight	Product code
mm	mm	mm	mm	kg / 100 pcs	
4	11	33	5,0	1,2	KEHPL04
5	13	39	6,5	2,2	KEHPL05
6	14	45	7,5	3,6	KEHPL06
8	18	58	10,0	7,8	KEHPL08
10	20	69	12,0	13,8	KEHPL10
12	25	81	15,0	20,0	KEHPL12

From this product category you will find general quality stainless steel products.
Lift graded components on product groups 2-, 9 and 10.

EYE NUTS DIN582

- polished surface
- material AISI 316

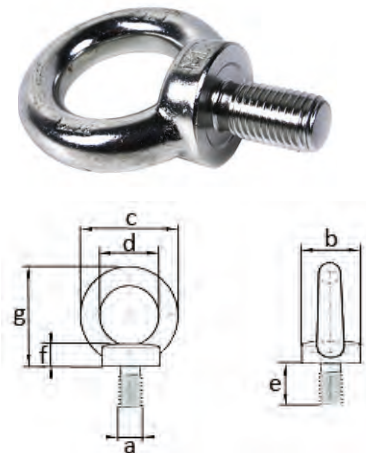


Size	b	c	d	e	f	Weight kg / 100 pcs	Product code
a	mm	mm	mm	mm	mm		
M6	20,0	36,0	20,0	8,5	36,0	4,2	NSMH06
M8	20,0	36,0	20,0	8,5	36,0	5,2	NSMH08
M10	25,0	45,0	25,0	10,0	45,0	9,4	NSMH10
M12	30,0	54,0	30,0	11,0	53,0	16,0	NSMH12
M16	35,0	63,0	35,0	13,0	62,0	24,0	NSMH16
M20	39,0	71,0	39,0	14,0	70,0	39,0	NSMH20

Lift graded stainless steel lifting eyes on page 9-20.

EYE SCREWS DIN580

- polished surface
- material AISI 316

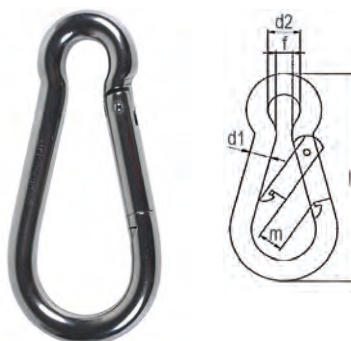


Size	b	c	d	e	f	g	Weight kg / 100 pcs	Product code
a	mm	mm	mm	mm	mm	mm		
M6	20,0	36,0	20,0	13,0	6,0	36,0	3,0	NSRH06
M8	20,0	36,0	20,0	13,0	6,0	36,0	6,0	NSRH08
M10	25,0	45,0	25,0	17,0	8,0	45,0	10,3	NSRH10
M12	30,0	54,0	30,0	20,5	10,0	53,0	17,7	NSRH12
M16	35,0	63,0	35,0	27,0	12,0	62,0	28,0	NSRH16
M20	39,0	71,0	39,0	30,0	14,0	70,0	42,6	NSRH20

Lift graded stainless steel lifting eyes on page 9-20.

CARBINE HOOKS

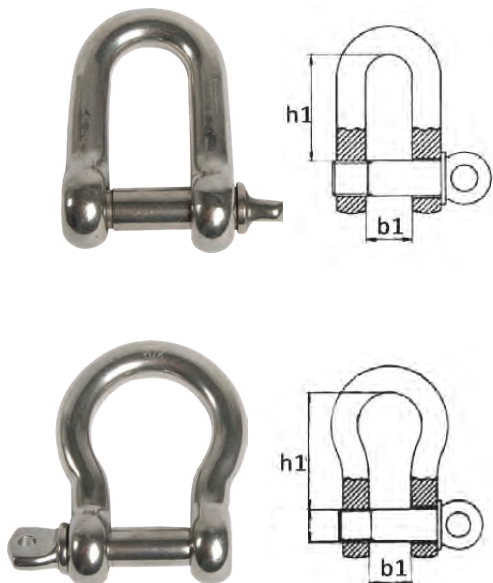
- for different attachments and suspensions
- material AISI 316



Size d1 x l mm	d2 mm	f mm	m mm	Weight kg / 100 pcs	Product code
5 x 50	8	4	8	1,6	KHH50
6 x 60	9	5	8	2,7	KHH60
8 x 80	12	8	9	6,5	KHH80
10 x 100	15	10	11	12,7	KHH100
11 x 120	18	11	16	18,0	KHH120
12 x 140	20	14	19	25,70	KHH140
13 x 160	22	16	23	35,30	KHH160

SHACKLES

- two models, dee and bow model
- material AISI 316



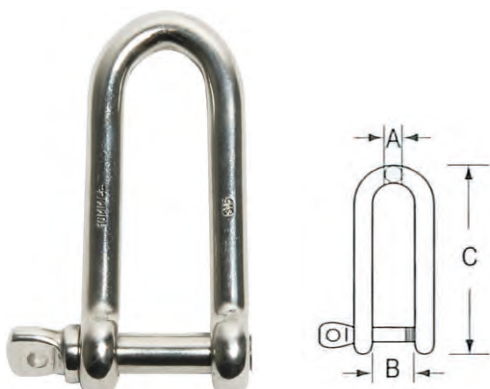
Tap size mm	Breaking strength approx. t	b1 mm	h1 mm	Weight approx. kg / 100 pcs	Product code dee model	Product code bow model
5	0,4	10	20	1,9	SAKH05	SAKH05P
6	0,5	12	24	2,9	SAKH06	SAKH06P
8	1,0	16	32	6,8	SAKH08	SAKH08P
10	1,5	20	40	12,0	SAKH10	SAKH10P
12	2,5	24	48	23,0	SAKH12	SAKH12P
16	4,0	32	64	50,0	SAKH16	SAKH16P
20	5,5	40	76	90,0	SAKH20	SAKH20P
22	7,5	44	88	140,0	*SAKH22	-
25	10,0	50	100	210,0	*SAKH25	-
28	15,0	56	112	330,0	*SAKH28	-
32	17,5	64	128	570,0	*SAKH32	-

*items marked with an asterisk delivery time approx. 3 weeks

Lift graded stainless steel dee shackles on page 10-9.

SHACKLES, LONG MODEL

- material AISI 316



Size A mm	B mm	C mm	Weight kg	Product code
6	12	45	0,2	SAKH06PITKA
8	16	62	0,3	SAKH08PITKA
10	20	75	0,4	SAKH10PITKA

WIRE ROPE CLIPS

- general purpose lock
- recommendation at least 3 clips per connection
- other sizes also available within delivery time
- material AISI 316



Installation direction of wire rope clips.
Recommendation at least 3 clips in a row per connection.

Wire size mm	Weight kg / 100 pcs	Product code
2	1,0	VLH02
3	1,4	VLH03
4	1,5	VLH04
5	1,5	VLH05
6	2,1	VLH06
7 – 8	4,1	VLH08
9 – 10	6,8	VLH10
11 – 13	13,0	VLH12
14 – 16	21,0	VLH16
17 – 20	28,0	VLH19
18 – 22	40,0	VLH22

DUPLEX WIRE ROPE CLIPS

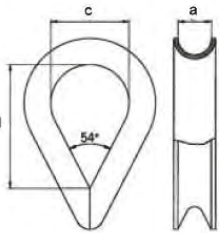
- small general purpose clip
- material AISI 316



Wire size mm	Weight kg / 100 pcs	Product code
2	1,0	VLDUH02
3	1,5	VLDUH03
4	2,5	VLDUH04
5	3,6	VLDUH05
6	5,2	VLDUH06
8	11,0	VLDUH08
10	12,0	VLDUH10

THIMBLES

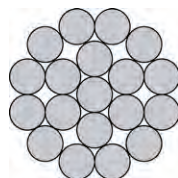
- thimbles for steel wire ropes
- material AISI 316



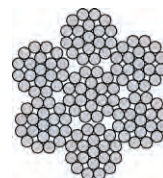
Wire size a mm	c mm	l mm	Weight kg	Product code
3	10	16	0,3 / 100 pcs	KOH03
4	11	17	0,41 / 100 pcs	KOH04
5	13	20	0,52 / 100 pcs	KOH05
6	16	25	0,90 / 100 pcs	KOH06
7 - 8	20	32	1,85 / 100 pcs	KOH08
9 - 10	26	40	3,35 / 100 pcs	KOH10
11 - 12	28	45	4,41 / 100 pcs	KOH12
13 - 14	34	56	0,09 / pc	KOH14
15 - 16	37	62	0,13 / pc	KOH16

STEEL WIRE ROPES

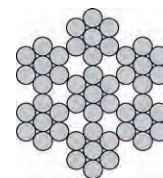
- material AISI 316



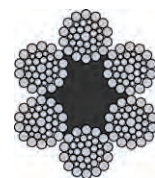
1x19



6x19+IWS



6x7+IWS



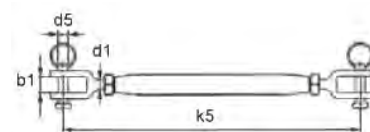
6x36+FC

Wire size mm	Min. tensile breaking strength kg	Structure	No. of wires	Weight kg / 100 m	Reel sizes m	Product code reel size 100 m	Product code reel size 50 m
1	95	1x19	19	0,7	100/50	TEK01HK	TEK01HK50
2	260	6x7+IWS	49	1,4	100/50	TEK02HK	TEK02HK50
3	580	6x7+IWS	49	3,4	100/50	TEK03HK	TEK03HK50
4	1040	6x19+IWS	133	5,6	100/50	TEK04HK	TEK04HK50
5	1320	6x19+IWS	133	8,5	100/50	TEK05HK	TEK05HK50
6	1910	6x19+IWS	133	12,2	100/50	TEK06HK	TEK06HK50
8	3390	6x19+IWS	133	23,3	100/50	TEK08HK	TEK08HK50
10	5310	6x19+IWS	133	32,2	custom length	*TEK10HK	-
12	7590	6x19+IWS	133	46,4	custom length	*TEK12HK	-
14	10300	6x19+IWS	133	68,0	custom length	*TEK14HK	-
16	13600	6x19+IWS	133	86,0	custom length	*TEK16HK	-
20	20700	6x36+FC	216	148,0	custom length	*TEK20HK	-

*items marked with an asterisk delivery time 1-2 weeks

TURNBUCKLES WITH CLOSED FRAME, FORK / FORK ENDS

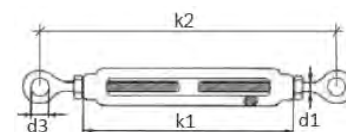
- equipped with locking nuts
- material AISI 316



Size	Breaking load approx. t	k5	b1	d5	Weight	Product code
d1		mm	mm	mm	kg / 100 pcs	
M5	1,0	130 – 190	7,0	5,0	5,1	VRHA05
M6	1,5	140 – 210	7,0	6,5	9,0	VRHA06
M8	2,3	165 – 240	8,0	8,0	14,0	VRHA08
M10	3,4	190 – 270	10,0	9,5	24,0	VRHA10
M12	6,8	260 – 385	14,0	12,7	64,0	VRHA12
M16	9,5	310 – 450	16,0	12,7	100,0	VRHA16
M20	13,0	360 – 450	20,0	15,5	198,0	VRHA20

TURNBUCKLES WITH OPEN FRAME, EYE / EYE ENDS

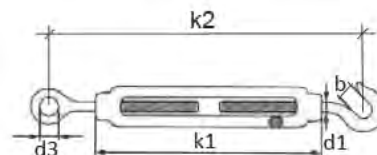
- equipped with locking nuts
- material AISI 316



Size	k1	k2	d3	Weight	Product code
d1	mm	min. - max. mm	mm	kg / 100 pcs	
M6	100	150 - 235	10	8,2	VRHASS06
M8	125	160 - 240	14	17,6	VRHASS08

TURNBUCKLES WITH OPEN FRAME, EYE / HOOK ENDS

- material AISI 316



Size	k1	k2	b	d3	Weight	Product code
d1	mm	min. - max. mm	mm	mm	kg / 100 pcs	
M6	100	150 - 235	10	10	10,0	VRHASK06
M8	125	160 - 240	11	14	16,5	VRHASK08
M10	155	200 - 280	12	16	27,6	VRHASK10

17. HAND PALLET TRUCKS AND STACKERS

Hand pallet trucks

Hand pallet trucks with scale

Special model hand pallet trucks

Stackers

High lift scissor truck



HAND PALLET TRUCK 2000 KG

- high quality hand pallet truck
- bogie wheels in front
- light to move
- turning angle 190°



Bogies in front.



190° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use.



Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight kg	Product code
Nylon	2000	75	190	550	1150	55	HAVA2000

HAND PALLET TRUCK 2500 KG

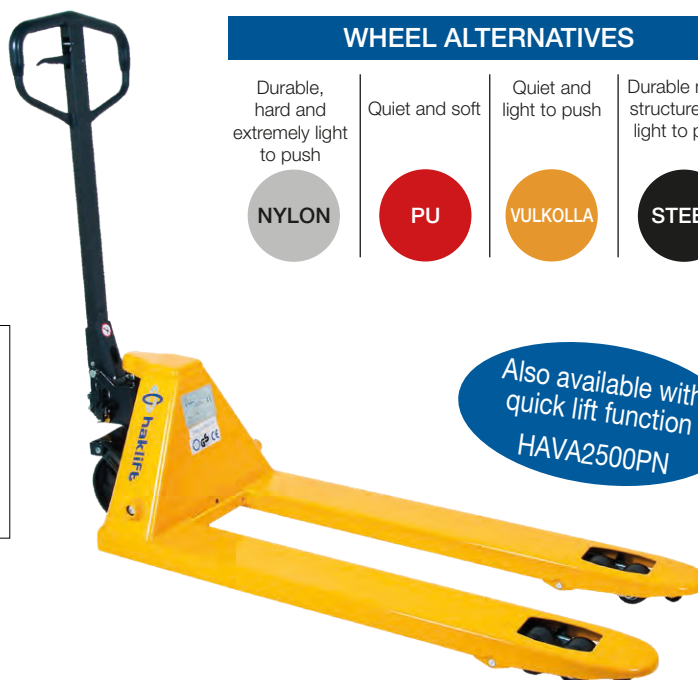
- high quality hand pallet truck
- bogie wheels in front
- turning angle 210°



Auxiliary wheels in front of and behind the bogies help getting under the pallets and speed up the work.



210° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use.



WHEEL ALTERNATIVES

Durable, hard and extremely light to push



Quiet and soft



Quiet and light to push



Durable metal structure and light to push



Also available with quick lift function
HAVA2500PN

Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight kg	Product code
Nylon	2500	85	200	550	1150	60	HAVA2500
PU	2500	85	200	550	1150	60	HAVA2500PU
Vulkolla	2500	85	200	550	1150	60	HAVA2500VUL
Steel	2500	85	200	550	1150	75	HAVA2500STE
Nylon	2500	85	200	550	1150	80	HAVA2500PN

HAND PALLET TRUCK 3500 KG

- high quality hand pallet truck
- bogie wheels in front
- light to move
- turning angle 210°



210° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use.



Auxiliary wheels in front of and behind the bogies help getting under the pallets and speed up the work.



WHEEL ALTERNATIVES

Standard inst.

Quiet and light to push

VULKOLLA

Durable steel structure and light to push

STEEL

Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork length	Weight	Product code
	kg	mm	mm	mm	mm	kg	
Vulkolla	3500	83	200	550	1150	91,5	HAVA3500

HAND PALLET TRUCK 5000 KG

- high quality hand pallet truck
- bogie wheels in front
- light to move
- turning angle 180°



Maintenance-free hydraulic unit ensures carefree use. Turning angle 180°.



Auxiliary wheels in front of the bogies help getting under the pallets and speed up the work.



Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork length	Weight	Product code
	kg	mm	mm	mm	mm	kg	
Nylon	5000	100	207	550	1150	97,0	HAVA5000

HAND PALLET TRUCK WITH SCALE 2000 KG

- two models, with rechargeable / with normal batteries
- battery model with 3 pcs of AA-batteries (without charger)
- rechargeable model: rechargeable battery with separated charger
- accuracy of the display unit 0,5 kg
- scale accuracy 0-1000 kg \pm 2 kg / 1000-2000 kg \pm 4 kg
- with four sensors, allowing weighing of individual packages as well
- large liquid crystal display with i.a. tare
- automatic power off function saves battery power
- 210° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use
- manufactured according to RoHS directive



210° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use.



Bogie wheels in front.



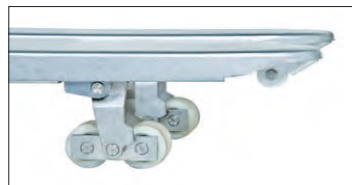
Model	Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork width	Fork length	Weight	Product code
		kg	mm	mm	mm	mm	mm	kg	
Recharg. batt.	PU	2000	90	205	540	172	1130	122	HAVA2000V
AA-batt.	PU	2000	90	205	540	172	1130	121	HAVA2000VE

STAINLESS HAND PALLET TRUCK WITH SCALE 2000 KG

- accuracy of the display unit 1 kg
- large liquid crystal display with i.a. tare function
- automatic power off function saves battery power
- functions also directly with A/C current
- 210° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use
- manufactured according to RoHS directive
- display IP5X



210° turning angle enables easy moving and maintenance-free hydraulic unit ensures carefree use.



Auxiliary wheels in front of and behind the bogies help getting under the pallets and speed up the work.



Model	Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork width	Fork length	Weight	Product code
		kg	mm	mm	mm	mm	mm	kg	
Recharg. batt.	Nylon	2000	85	195	545	160	1150	120	HAVA2000RV

SHORT HAND PALLET TRUCKS

- short models are handy for half pallets and tight spaces
- high quality hand pallet truck
- bogie wheels in front
- 210° turning angle



WHEEL ALTERNATIVES

Standard inst.

Durable, hard and extremely light to push

Quiet and soft

Quiet and light to push

Durable metal structure and light to push

NYLON

PU

VULKOLLA

STEEL

Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
Nylon	2500	85	200	550	600	65	HAVA2500LY600
Nylon	2500	85	200	550	800	75	HAVA2500LY

LONG HAND PALLET TRUCKS

- long models for lifting and moving two pallets simultaneously or for special products
- bogie wheels in front
- 210° turning angle



WHEEL ALTERNATIVES

Durable, hard and extremely light to push

Quiet and soft

Quiet and light to push

Durable metal structure and light to push

NYLON

PU

VULKOLLA

STEEL

Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
Nylon	2000	85	200	550	1500	112	HAVA2015PI
Nylon	1000	85	200	550	2000	98	HAVA1500PI
PU	2000	85	200	550	2000	105	HAVA2020PI
PU	2000	85	200	540	2500	230	HAVA2025PI

STAINLESS STEEL AND GALVANIZED MODELS 2500 KG

- e.g. for food industry
- stainless steel AISI 304
- stainless steel bearings
- bogie wheels in front
- 210° turning angle



Model	Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
AISI 304	Nylon	2500	85	200	550	1150	86	HAVA2500R
Hot dip galv.	Nylon	2500	85	200	550	1150	82	HAVA2500G

LOW MODEL 1500 KG

- suitable for low pallets
- bogie wheels in front
- turning angle 210°



Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
PU-Steel	1500	52	140	550	1150	76	HAVA1500MA

HAND PALLET TRUCK 2500 KG WITH LOAD SUPPORT

- high quality hand pallet truck
- equipped with grating load support
- bogie wheels in front
- turning angle 210°



WHEEL ALTERNATIVES

Standard inst.

Durable, hard and extremely light to push

Quiet and soft

Quiet and light to push

Durable metal structure and light to push

NYLON

PU

VULKOLLA

STEEL

Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork length	Weight	Product code
	kg	mm	mm	mm	mm	approx. kg	
Nylon	2500	85	200	550	1150	95	HAVA2500KT

HAND PALLET TRUCK 2500 KG WITH MECHANICAL ASSISTANCE

- high quality hand pallet truck
- equipped with a mechanical support – pallet truck with a full load can be easily moved by pumping the handle
- support is also equipped with a brake which keeps the pallet truck in place on a slanted surface, thus making it possible to move a heavy load uphill with small force
- support can be disabled via a switch (on the handle), after which the pallet truck operates normally
- bogie wheels in front
- turning angle 210°



Mechanical support is installed to the handle and the rear wheels.

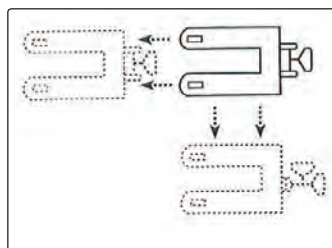
Read the QR-code and watch a video about the usage of the support. You will find the video also from Haklift's Youtube channel.



Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork length	Weight	Product code
	kg	mm	mm	mm	mm	approx. kg	
Nylon	2500	85	200	550	1150	65	HAVA2500MEK

HAND PALLET TRUCK WITH SIDE-SHIFT 2000 / 1200 KG

- wheels that are sideways can be taken into use by elevating the truck to 170 mm height
- load with side-shift 1200 kg



Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
Nylon	1200 / 2000	85	220	540	1150	75	HAVA2012SS

QUARTER PALLET TRUCK 200 KG

- extremely small and handy pallet truck for moving quarter pallets
- lifting and lowering via leg pump
- one press is enough to lift the pallet up
- equipped with rubber wheels and brake



Wheels	Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight kg	Product code
Rubber	200	92	127	220	580	23,4	SIALU200

HIGH LIFT SCISSOR TRUCK 1000 KG

- lifts the pallet up to 800 mm
- for assembly industry, dispatch centres etc.
- with PU wheels
- turning angle 210°



Max. load kg	Fork min. height mm	Lifting height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
1000	85	800	550	1150	110	HAVA1SAKSI

SPARE WHEELS FOR HAND PALLET TRUCKS



Hand pallet truck	Wheel	Wheel diam. x width x axle	Product code
HAVA2000	Nylon big wheel	160 x 50 x 20	HAVA20ISO
HAVA2000	Nylon bogie wheel front	70 x 60 x 20	HAVA20TELI
HAVA2500	Nylon big wheel	200 x 50 x 20	HAVA25ISO
HAVA2500	Nylon bogie wheel front	80 x 70 x 20	HAVA25TELI
HAVA2500	PU big wheel	200 x 50 x 20	HAVA25PUIISO
HAVA2500	PU bogie wheel front	80 x 70 x 20	HAVA25PUTELI
HAVA2500	Vulkolla big wheel	200 x 50 x 20	HAVA2535VUIISO
HAVA2500	Vulkolla bogie wheel front	80 x 70 x 20	HAVA2535VUTELI
HAVA2500	Steel big wheel	200 x 50 x 20	HAVA25TEISO
HAVA2500	Steel bogie wheel front	80 x 70 x 20	HAVA25TETELI
HAVA3500	Vulkolla big wheel	200 x 50 x 20	HAVA2535VUIISO
HAVA3500	Vulkolla bogie wheel front	80 x 70 x 20	HAVA2535VUTELI
HAVA5000	PU big wheel	200 x 50 x 20	HAVA50ISO
HAVA5000	Nylon bogie wheel front	85 x 80 x 20	HAVA50TELI
HAVA2500R / HAVA2500G	Big wheel	200 x 50 x 20	HAVA25GRISO
HAVA2500R / HAVA2500G	Bogie wheel	80 x 70 x 20	HAVA25GRTELI

MANUAL STACKERS

- for warehouses, van loading etc.
- lifts the pallet up to 1600 mm or 3000 mm
- fixed or adjustable fork width
- equipped with manual brake
- all models equipped with leg operated pump
- with nylon wheels



All models equipped with a leg pump.



HAVA1000PIS model with adjustable forks.

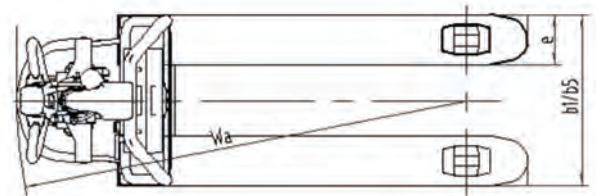
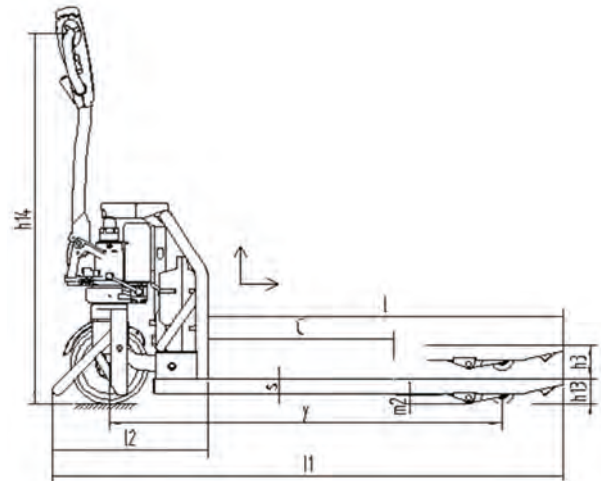
Max. load kg	Lifting height mm	Max. width mm	Max. length mm	Max. height mm	Fork width mm	Fork length mm	Weight approx. kg	Product code
1000	1600	755	1655	2080	550	1150	210	HAVA1000PI
1000	1600	955	1680	2090	295 - 930	1070	240	HAVA1000PIS
1000	3000	860	1705	2080/3420	580	1150	307	HAVA1000PIK

ELECTRIC PALLET TRUCK 1200 KG

Easy-to-use, lightweight, durable and compact size electric pallet truck. Equipped with electric lifting and manual lowering functions. Due to the stepless driving motor and small turning radius the pallet truck is easy to use in narrow spaces and corridors. 20 Ah lithium battery ensures 3-6 hours of continuous operating time depending on the load. Separate charger enables charging of an additional battery during the use of the electric pallet truck, which makes it possible to use the device continuously the necessary time. Charging time of the battery is only 3 hours and the interchange can be executed in 10 seconds. Carbon brushless motor ensures carefree use and fast maintenance.



Rated load	kg	1200
Load center distance	C (mm)	600
Fork height	h_{13} (mm)	80
Axle distance	Y (mm)	1269
Wheels		PU
Wheel diameter front	\varnothing (mm)	250
Wheel diameter rear	\varnothing (mm)	80
Lifting height	h_3 (mm)	110
Pushing handle min. and max. heights	h_{14} (mm)	635/1200
Overall length	l_1 (mm)	1651
Frame length before the forks	l_2 (mm)	501
Overall width	b_1 (mm)	550
Fork dimensions	s/e/l (mm)	45/160/1150
Fork width	b_3 (mm)	550
Fork distance from the floor	h_3 (mm)	35
Turning radius	mm	1452
Speed, laden / unladen	Km/h	4/4.5
Max. slope angle laden / unladen	%	3/8
Driving motor power	kW	0.6
Lifting motor power	kW	0.8
Battery capacity	V/Ah	Lithium 48/20
Parking brake		Electronic
Noise level	dB	70
Operating temperature	°C	-10 - (+)40
Weight	kg	134
PRODUCT CODE		HAVA1200ELE
PRODUCT CODE OF ADDITIONAL BATTERY		HAVA1200ELEAKKU



CONTENT OF THE DELIVERY:

- electric pallet truck 1200 kg
- 1 pc battery 48 V / 20 Ah
- 1 pc charger

PUSHABLE ELECTRIC STACKING TRUCKS

- for warehouses and production facilities
- light to push and direct on a smooth surface
- fits to operate even in narrow corridors
- turning circle radius only 1245 mm (1000 kg) and 1505 mm (1500 kg)
- functions also as a moveable and ergonomic working / assembly platform
- equipped with mechanical brake
- battery capacity 12 V / 100 Ah
- automatic charger is included in the delivery
- indicator for battery charge
- nylon wheels



Max. load kg (load center dist. 500 mm)	Lifting height mm	Max. width mm	Max. length mm	Max. height mast lowered mm	Fork width mm	Fork length mm	Weight approx. kg battery incl.	Product code
1000	3000	800	1678	2090	570	1150	445	PINK100030
1500	3500	800	1740	2340	570	1150	550	PINK150035

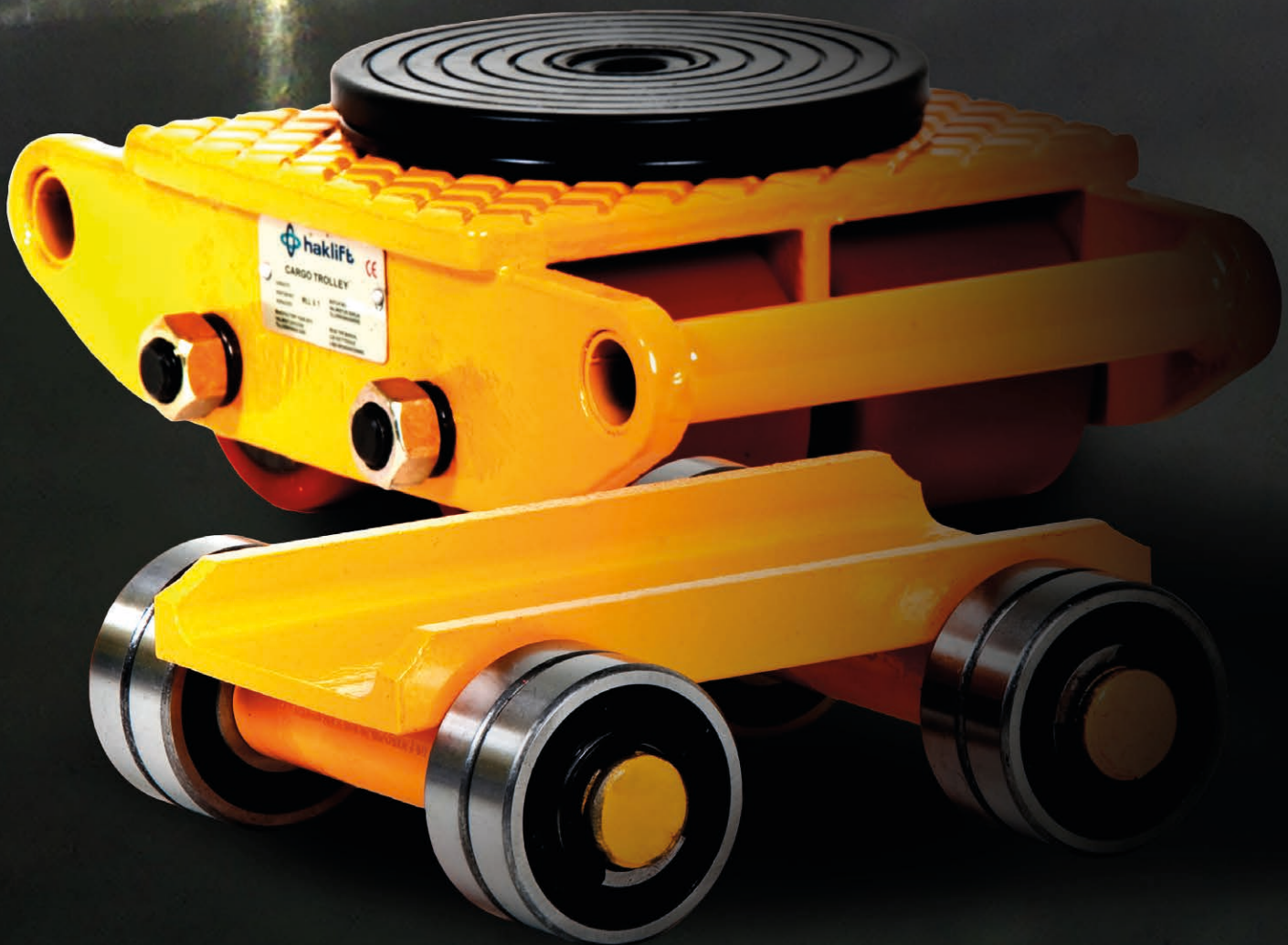
18. CARGO TROLLEYS, LIFTING TABLES AND HAND TRUCKS & TROLLEYS

Cargo trolleys

Lifting tables

Platform hand trucks

Hand trolleys



CARGO TROLLEY WITH STEEL WHEELS

- for moving machines and equipment
- permanently lubricated metal wheels
- 84 mm wide groove in the centre of the trolley for e.g. a wooden or metal beam, which allows to join several trolleys
- note, only for indoor use on flat and clean surface



Groove inner length 84 mm.
Trolley height to groove bottom 51 mm.

Max. load	Height	Max. width	Max. length	Base size	Wheel diam. x width x axle	Wheel material	Weight	Product code
kg	mm	mm	mm	mm	mm		approx. kg	
1500	67	185	200	100x200	62 x 34 x 25	Metal	5	SIALU15

CARGO TROLLEYS WITH RUBBER SURFACE

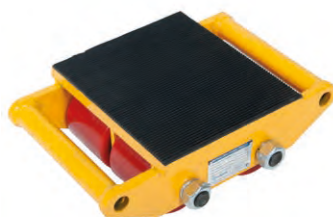
- for moving machines and equipment
- nylon wheels
- moves extremely easily
- SIALU2.5 trolleys can be attached in a row or side by side with integrated attachment points
- note, only for indoor use on flat and clean surface



Max. load	Height	Width	Length	Base size	Wheel diam. x width x axle	No. of wheels	Wheel material	Weight	Product code
kg	mm	mm	mm	mm	mm	pcs		kg	
2500	115	115	210	105x260	85 x 90 x 20	2	Nylon	4,2	SIALU2.5
3000	116	270	345	238x275	100 x 35 x 15	12	Nylon	9,4	SIALU3
6000	105	210	414	265x167	85 x 90 x 20	6	Nylon	11,9	SIALU6

CARGO TROLLEYS WITH FIXED TABLE

- for moving machines and equipment
- PU-coated metal wheels
- moves extremely easy
- note, only for indoor use on flat and clean surface



NEW

Max. load	Height	Width	Length	Wheel diam. x width x axle	No. of wheels	Wheel material	Weight	Product code
kg	mm	mm	mm	mm	pcs		kg	
6000	95	210	310	80 x 70 x 20	4	PU	13	SIALU60T
8000	95	210	410	80 x 70 x 20	6	PU	20	SIALU80T
12000	95	210	510	80 x 70 x 20	8	PU	26	SIALU120T
15000	100	308	400	80 x 70 x 20	9	PU	28	SIALU150T
18000	100	312	498	80 x 70 x 20	12	PU	40	SIALU180T

CARGO TROLLEYS WITH TURNTABLE

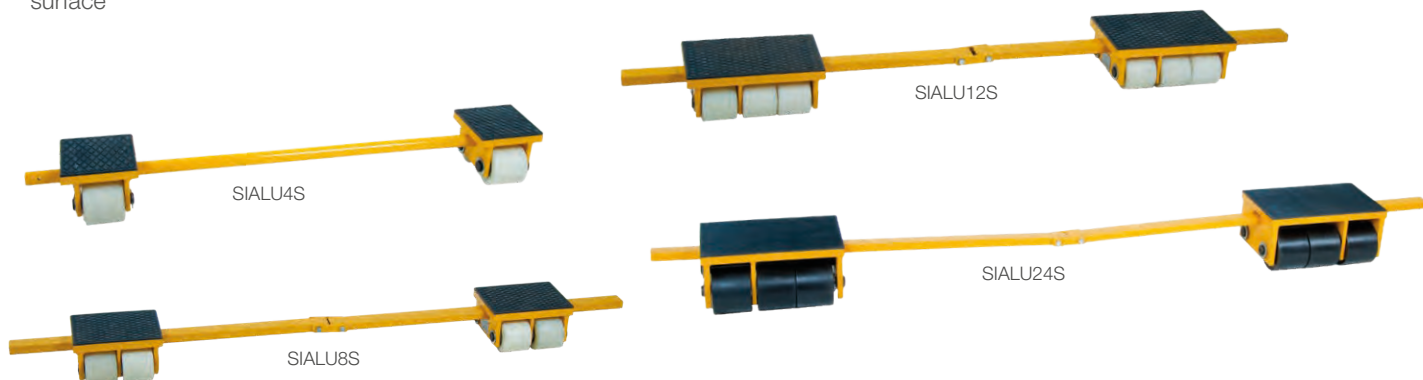
- for moving machines and equipment
- PU-coated metal wheels
- moves extremely easy
- turntable in the middle of the trolley
- note, only for indoor use on flat and clean surface



Max. load	Height	Width	Length	Turntable Ø	Wheel diam. x width x axle	No. of wheels	Wheel material	Weight	Product code
kg	mm	mm	mm	mm	mm	pcs		kg	
6000	110	212	300	150	80 x 70 x 20	4	PU	17	SIALU60
8000	111	217	400	150	80 x 70 x 20	6	PU	25	SIALU80
12000	111	195	480	150	80 x 70 x 20	8	PU	28	SIALU120
NEW 15000	110	308	400	150	80 x 70 x 20	9	PU	30	SIALU150
NEW 18000	110	312	498	150	80 x 70 x 20	12	PU	43,5	SIALU180

CARGO TROLLEYS WITH ADJUSTMENT

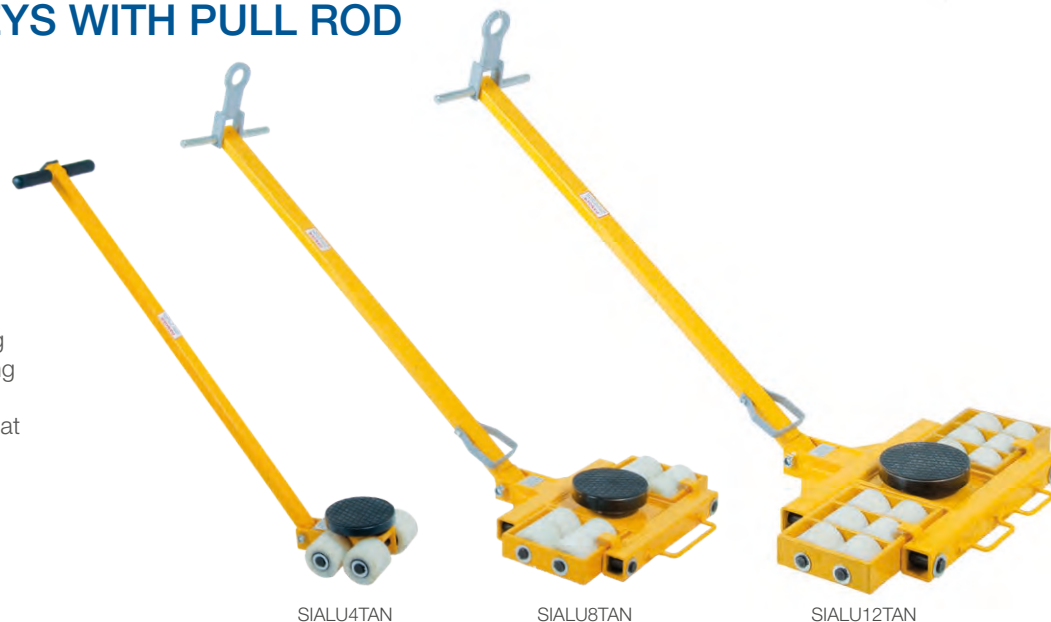
- for moving machines and equipment
- rubber surface on the trolley ensures a good friction between the object and the cargo trolley
- note, only for indoor use on flat and clean surface



Max. load	Base height	Base width	Base length	Wheel diam. x width x axle	No. of wheels	Wheel material	Adjustment max.	Weight	Product code
kg	mm	mm	mm	mm	pcs		mm	approx. kg	
4000	110	150	150	80 x 70 x 20	4	Nylon	1000	15	SIALU4S
8000	110	220	200	80 x 70 x 20	8	Nylon	1500	30	SIALU8S
12000	110	320	200	80 x 70 x 20	12	Nylon	1500	43	SIALU12S
24000	180	370	370	110 x 85 x 25	12	Steel	2000	100	SIALU24S

CARGO TROLLEYS WITH PULL ROD

- for moving machines and equipment
- fixed pull rod which enables easy moving of the items
- rubber surface on the trolley ensures a good friction between the object and the cargo trolley
- 8/12/24 t models contain a pulling eye for hook mounting
- base is articulated for ensuring easy turning
- note, only for indoor use on flat and clean surface



Max. load	Base height	Base width	Base length	Turntable Ø	Wheel diam. x width x axle	No. of wheels	Wheel material	Weight	Product code
kg	mm	mm	mm	mm	mm	pcs		kg	
4000	110	270	230	150	80 x 70 x 20	4	Nylon	12	SIALU4TAN
8000	110	610	520	160	80 x 70 x 20	8	Nylon	41	SIALU8TAN
12000	110	840	583	180	80 x 70 x 20	12	Nylon	59	SIALU12TAN
24000	180	1240	855	220	110 x 85 x 25	12	Steel	246	SIALU24TAN

CARGO TROLLEYS WITH PULL ROD AND ROTATING WHEELS

- for moving machines and equipment
- fixed pull rod which enables easy moving of the items
- all wheels turn 360°
- rotating table
- note, only for indoor use on flat and clean surface



Max. load	Height	Width	Length	Turntable Ø	Wheel diam. x width x axle	No. of wheels	Wheel material	Weight	Product code
kg	mm	mm	mm	mm	mm	pcs		kg	
2000	110	450	621	150	80 x 70 x 20	3	PU	21	SIALU2PYO
4000	110	522	698	200	80 x 70 x 20	5	PU	35	SIALU4PYO

CARGO TROLLEYS WITH STEEL ROLLS

- for moving machines and equipment
- with steel rolls
- fixed base with rubber coating
- note, only for indoor use on flat and clean surface



Max. load	Height	Width	Length	Roll material	No. of rolls	Weight	Product code
kg	mm	mm	mm		pcs	kg	
750	79	178	165	Steel	16	5	SIALU075TK
2500	92	178	165	Steel	12	10	SIALU25TK
5000	79	203	203	Steel	13	10	SIALU50TK
8000	79	203	203	Steel	13	11	SIALU80TK
15000	98	254	270	Steel	14	21	SIALU150TK
20000	98	254	270	Steel	14	22	SIALU200TK
50000	140	305	417	Steel	20	67	SIALU500TK

CARGO TROLLEY SETS WITH STEEL ROLLS 30T / 60T

- extra strong cargo trolley set for moving machines and equipment
- 4 pcs of cargo trolleys with steel rolls
- 2 pcs of rotating round pads
- 2 pcs of solid square pads
- 2 pcs of pull rods
- rod for attaching the pads
- pads are removable from the rolls
- transportation box with pull rod
- note, only for indoor use on flat and clean surface



Max. load	Cargo trolley height	Turntable Ø	Weight / set	Product code
kg	mm	mm	kg	
30000	115	125	58	SIALU300SET
60000	135	150	92	SIALU600SET

LOAD LEVER WITH ROLLER 5000 KG

- for moving machines and equipment
- permanently lubricated metal wheels
- can be used for lifting and moving



Max. load	Lever length	Lever diameter	Tip width	Wheel diameter	Weight	Product code
kg	mm	mm	mm	mm	approx. kg	
5000	1530	38	65	70	5	SIIRTAN50

QUARTER PALLET TRUCK 200 KG

- extremely small and handy pallet truck for moving quarter pallets
- lifting and lowering via leg pump
- one press is enough to lift the pallet up
- equipped with rubber wheels and brake



Wheels	Max. load	Fork min. height	Lifting height	Fork width	Fork length	Weight	Product code
	kg	mm	mm	mm	mm	kg	
Rubber	200	92	127	220	580	23,4	SIALU200

PLATFORM HAND TRUCKS

- all models with solid rubber wheels



LAV150 / LAV300
Foldable metal-structured platform hand truck.



LAV100
Foldable aluminum-structured platform hand truck.



LAV500
Big and sturdy steel platform hand truck.



LAV2272
Light and sturdy cart made from strong plastic.

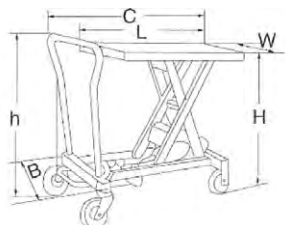


KERVAU250
Strong and sturdy steel collecting cart. Equipped with a plane for writing, rubber wheels and wheel brakes.

Max. load	Platform width	Platform length	Platform height	Weight	Product code
kg	mm	mm	mm	kg	
100	485	725	167	8,5	LAV100
150	470	730	140	8,3	LAV150
300	570	870	195	13,5	LAV300
500	600	1200	240	30	LAV500
250	435	790	150/850	16,0	LAV2272
250	700	1000	195/765	40	KERVAU250

LIFTING TABLES / WORKING PLATFORMS

- hydraulically liftable (via leg pump), movable lifting tables / working platforms
- rear wheels with locking
- for assembly industry, installing and repairing tasks
- 130 kg model has a removable rubber coating on the platform



NOSP130

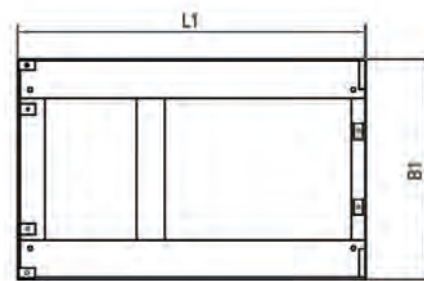
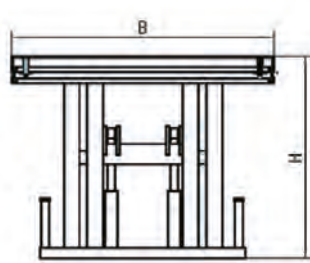
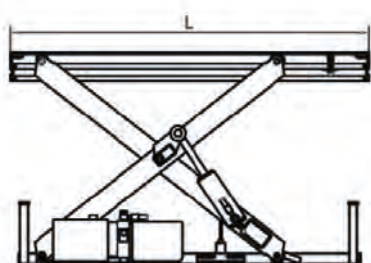


NOSP250 / 500

Max. load	Platform min. height	Platform max. height	Platform dimensions	B	C	h	Weight	Product code
kg	H mm	H mm	L x W mm	mm	mm	mm	approx. kg	
130	220	700	710 x 450	360	770	905	42	NOSP130
300	320	910	825 x 502	500	1010	1100	78	NOSP250
500	375	920	825 x 502	520	1185	1130	118	NOSP500

ELECTRO-HYDRAULIC LIFTING TABLES

- for installation, repairs, packaging etc.
- operating voltage 3-phase / 380-400 V / 50 Hz
- control device (end of a cable) with lifting and lowering functions as well as emergency stop
- equipped with protection frame which prevents the table from lowering if something gets in between the platform and the frame
- in case of hydraulic hose leakage a safety valve will stop the table from lowering
- delivered completely assembled without electric plug
- EN 1570



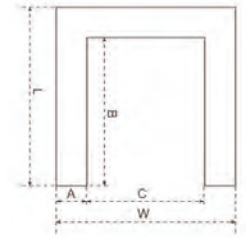
Max. load	L	B	L1	B1	H	Lifting time	Weight	Product code
kg	mm	mm	mm	mm	mm	s	kg	
1000	1300	820	1266	680	205 - 990	20	160	NOSP1000H
2000	1600	1000	1255	785	230 - 1000	20	268	NOSP2000H
4000	2000	1200	1600	930	240 - 1050	40	405	NOSP4000H

U-SHAPED ELECTRO-HYDRAULIC LIFTING TABLE

- for installation, repairs, packaging etc.
- pallet can be set on top of the lifting table by means of a hand pallet truck
- operating voltage 3-phase / 380-400 V / 50 Hz
- 24 V control device (end of a cable) with lifting and lowering functions as well as emergency stop
- equipped with overload protection
- in case of hydraulic hose leakage a safety valve will stop the table from lowering
- delivered completely assembled without electric plug
- IP54
- EN 1570



NEW



Max. load	A	B	C	L	W	Min. height	Max. height	Lifting time	Weight	Product code
kg	mm	mm	mm	mm	mm	mm	mm	s	kg	
1000	280	1080	580	1450	1140	85	860	25-35	280	NOSP1000HU

HAND TROLLEYS

- two types
- for normal and staircase use
- normal model is equipped with a foldable extension nose and steel rims
- staircase model is equipped with an upward folding nose

Wheel diam. 260 mm



Max. load	Nose width	Nose length	Trolley height	Wheel type	Use	Weight	Product code
kg	mm	mm	mm			kg	
250	410/330	305/600	1250	Pneum./rubber	Normal	16,5	NOK250
75	350	450	1135	Solid/rubber	Normal/staircase	12,5	NOK75POR

ALUMINUM HAND TROLLEY

- strong and lightweight hand trolley for professional use
- pneumatic rubber wheels
- wheel diameter 260 mm



Max. load	Nose width	Nose length	Weight	Product code
kg	mm	mm	kg	
150	305	195	10,0	NOK150AL

HAND TROLLEY 150 KG



- sturdy hand trolley
- pneumatic rubber wheels
- wheel diameter 210 mm

Max. load	Nose width	Nose length	Weight	Product code
kg	mm	mm	kg	
150	355	185	12,2	NOK150

ALUMINUM HAND TROLLEY 100 KG



- sturdy and extremely light aluminum hand trolley
- solid rubber wheels
- wheel diameter 210 mm

Max. load	Nose width	Nose length	Weight	Product code
kg	mm	mm	kg	
100	355	225	5,1	NOK100AL

COLLAPSIBLE HAND TROLLEY 100 KG



- pneumatic rubber wheels
- wheel diameter 260 mm



Fits easily e.g. to a car back space when folded up.

Max. load	Nose width	Nose length	Weight	Product code
kg	mm	mm	kg	
100	385	540	10	NOK100KT

19. WAREHOUSE AND STORAGE EQUIPMENT

Pallet racks

Medium duty shelvings

Light duty / Tire shelvings

Cantilever racks

Tipping containers

Lockers

Storage fitments

Tool lockers



PALLET RACKS

Haklift pallet racks are versatile in functionality and guarantee the functionality of your storage. The racks are comprised of horizontal beams and end elements which are easy to assemble and mount. We also deliver racks according to customer's dimensions.

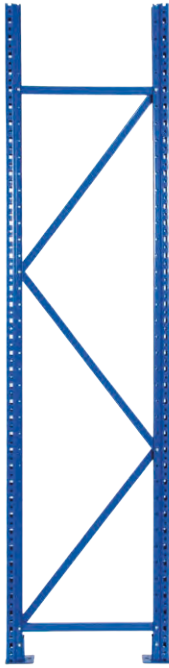


Color codes used in Haklift pallet racks

Upright frames: blue RAL5005

Beams: orange RAL2004

PALLET RACK UPRIGHT FRAMES

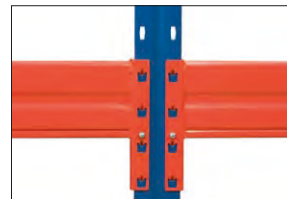


- straight from our stock 2475 - 5475 mm high upright frames
- upright frame depth 1100 mm
- loading capacities calculated with the lowest rack level at 1200 mm from the floor
- upright frames can be delivered pre-assembled
- racks are also available according to customer's dimensions

Height mm	Capacity kg	Pole width mm	Weight kg	Product code
2475	7500	80	23,0	VHPE2475/1100
3000	7500	80	29,0	VHPE3000/1100
3525	8500	80	34,0	VHPE3525/1100
3975	10200	100	43,0	VHPE3975/1100
4500	10200	100	48,0	VHPE4500/1100
5025	14500	100	53,0	VHPE5025/1100
5475	14500	100	72,0	VHPE5475/1100

PALLET RACK BEAMS

- straight from our stock 1800 - 3600 mm long horizontal beams
- racks are also available according to customer's dimensions



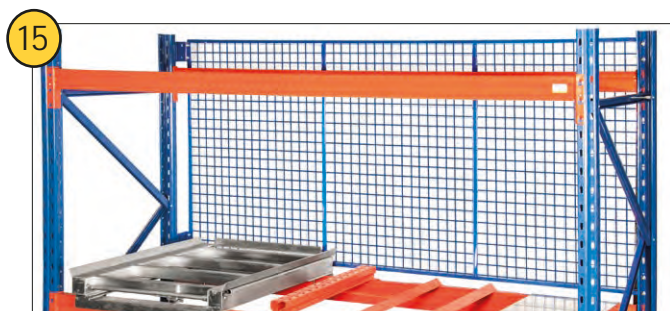
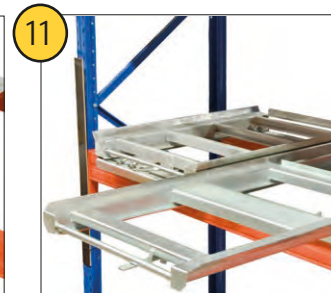
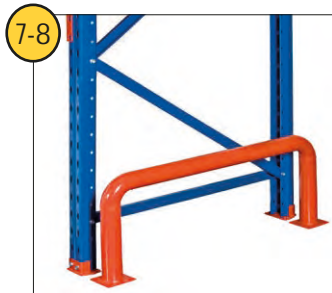
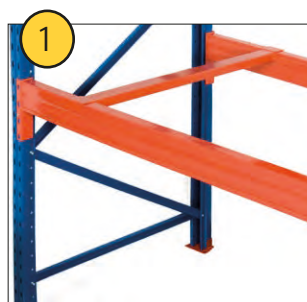
Our pallet racks are designed according to the FEM 10.2.02. standard, which guarantees the safety and functionality of our products.

Length mm	Capacity kg/level	Beam height x depth x mater. thickn.	Pallet space	Weight kg	Product code
1800	2000	80x40x1,5	2 x EUR	8,0	VHVP1800/2000
2300	2000	100x40x,15	2 x FIN	11,0	VHVP2300/2000
2700	1500	100x40x1,5	3 x EUR	12,0	VHVP2700/1500
2700	3080	130x50x1,5	3 x EUR	15,0	VHVP2700/3080
3300	3000	160x50x1,5	3 x FIN	24,0	VHVP3300/3000
3600	2680	150x50x1,8	4 x EUR	27,0	VHVP3600/2680
3600	4000	160x50x2,0	4 x EUR	35,0	VHVP3600/4000

PALLET RACK ACCESSORIES

The accessory range enables varied use of the racks and increases the efficiency and safety of the storage.

	Name	Capacity (kg)	Weight (kg)	Product code
1	Pallet support	500	2,5	VHVALITUKI
2	Coil/drum cradle	500	6,0	VHTYNNYRIALUST
3	Grate decking 894x1100	700	5,0	VHVERKT894
4	Grate decking 1100x1100	700	6,0	VHVERKT1100
5	Fork space support 1100 mm	500	3,0	VHHTP
6	Upright protector, height 400 mm		4,7	VHPYLVASSUO400
7	Frame post protector 1100 mm		13,0	VHTORMSUO1100
8	Frame post protector 2500 mm		35,0	VHTORMSUO2500
9	Steel cladding, width 446 mm	100	5,4	VHTKT446
10	Steel cladding, width 456 mm	100	5,4	VHTKT456
11	Mobile drawer, EUR-pallet	600	56,0	VHVT1
12	Mobile drawer for floor, EUR-pallet	1000	36,0	VHVT2
13	Base plate, used when rack is on an uneven surface		-	VHALUSLEVY
14	Mid anchor, for anchoring face to face mounted pallet racks to each other		-	VHKESKISIDE300
16	Upright frame cover grating 1100 x 1250 mm			VHVERPAATY



15. Rear protection grates (mm)	Product code
1800x1250	VHVER1800/1250
2300x1250	VHVER2300/1250
2700x1250	VHVER2700/1250
3300x1250	VHVER3300/1250
3600x1250	VHVER3600/1250

MEDIUM DUTY SHELVING



Starting unit



Add-on unit

- extremely sturdy rack for storing heavy small items
- metal shelves
- each shelf on beams
- can be loaded and unloaded from both sides
- standard heights 2500 and 3000 mm
- shelf width 1400 mm + upright frame 60 mm (entire rack width 1520 mm)
- depth 500 or 800 mm
- comprises of five shelves
- loading capacity 500 kg / shelf level

	Height mm	Depth mm	Product code
Starting unit	2500	500	VHKESKIR1ALOIT
Add-on unit	2500	500	VHKESKIR1JATKO
Starting unit	2500	800	VHKESKIR2ALOIT
Add-on unit	2500	800	VHKESKIR2JATKO
Starting unit	3000	500	VHKESKIR3ALOIT
Add-on unit	3000	500	VHKESKIR3JATKO
Starting unit	3000	800	VHKESKIR4ALOIT
Add-on unit	3000	800	VHKESKIR4JATKO
Extra shelf (attachments included)			
	500		VHKESKIRHYLLY5
	800		VHKESKIRHYLLY8

LIGHT DUTY SHELVING



Starting unit



Add-on unit

- sturdy basic shelf for small goods
- endures heavy use
- metal shelves
- highest and lowest shelf on beams and other shelves on brackets
- can be loaded and unloaded from both sides
- standard heights 2000, 2500 and 3000 mm
- shelf width 1200 mm + upright frame 50 mm (entire rack width 1300 mm)
- comprises of five shelves
- depth 300 mm, loading capacity 100 kg / shelf level
- depth 500 mm, loading capacity 200 kg / shelf level

	Height mm	Depth mm	Product code
Starting unit	2000	300	VHPIENT1ALOIT
Add-on unit	2000	300	VHPIENT1JATKO
Starting unit	2000	500	VHPIENT2ALOIT
Add-on unit	2000	500	VHPIENT2JATKO
Starting unit	2500	300	VHPIENT3ALOIT
Add-on unit	2500	300	VHPIENT3JATKO
Starting unit	2500	500	VHPIENT4ALOIT
Add-on unit	2500	500	VHPIENT4JATKO
Starting unit	3000	300	VHPIENT5ALOIT
Add-on unit	3000	300	VHPIENT5JATKO
Starting unit	3000	500	VHPIENT6ALOIT
Add-on unit	3000	500	VHPIENT6JATKO
Extra shelf (attachments included)			
	300		VHPIENTHYLLY3
	500		VHPIENTHYLLY5

LIGHT DUTY SHELVINGS WITH MDF-SHELVES, FOR LIGHT ITEMS



Packed in a retail carton.
VHPH3: L425 x K1020 x S70 mm
VHPH4: L560 x K1200 x S70 mm

- two sizes
- both with five MDF-shelves
- freely adjustable shelf height
- easy to assemble, no bolts or nuts
- black powder coated surface
- stable structure

Capacity	Width	Depth	Height	Product code
kg/shelf	mm	mm	mm	
100	1000	400	1830	VHPH3
180	1200	540	1800	VHPH4



Shelf can also be assembled to serve as a worktop.

LIGHT DUTY SHELVING WITH METAL SHELVES



- five metal shelves
- freely adjustable shelf height
- very sturdy structure
- easy to assemble, no bolts or nuts
- shelves can be attached to each other with binding plates

Capacity	Width	Depth	Height	Product code
kg/shelf	mm	mm	mm	
150	1000	400	1830	VHPH2

Binding plate product code: VHPHSL

TYRE SHELVING

- sensible solution for storing tyres
- can be loaded and unloaded from both sides
- easy to install
- loading capacity 500 kg / shelf level



Upright frame, height x depth mm	Product code
2000 x 500	VHPIENT2PAATY
2500 x 500	VHPIENT4PAATY
3000 x 500	VHPIENT6PAATY
2000 x 400	VHPIENT5.1
2500 x 400	VHPIENT5.2
3000 x 400	VHPIENT5.3
Lateral beam, length / capacity	
1200 mm / 500 kg	VHPIENTPALKKI
1400 mm / 500 kg	VHKESKIRPALKKI

HEAVY DUTY CANTILEVER RACK

Cantilever racks help for storing long goods efficiently by saving space. Custom racks are also available. One- and two-side racks as options.


1-SIDED

Starting unit



Add-on unit


2-SIDED

Starting unit



Add-on unit

Model	Part	No. of cantilevers pcs	Height mm	Binding interval mm	Cantilever length mm	Cantilever capacity kg	Product code
1-sided	Starting unit	6	3000	1000 - 1500	1000	400	VHUR1A
1-sided	Add-on unit	3	3000	1000 - 1500	1000	400	VHUR1J
2-sided	Starting unit	12	3000	1000 - 1500	1000	400	VHUR2A
2-sided	Add-on unit	6	3000	1000 - 1500	1000	400	VHUR2J
Extra cantilever, length 1000 mm							VHUHULOKE

LIGHT DUTY CANTILEVER RACK

- heights 3000 or 3525 mm also available


1-SIDED

Starting unit



Add-on unit


2-SIDED

Starting unit



Add-on unit

Model	Part	No. of cantilevers pcs	Height mm	Binding interval mm	Cantilever length mm	Cantilever capacity kg	Product code
1-sided	Starting unit	6	2475	1000	600	100	VHUK1A
1-sided	Add-on unit	3	2475	1000	600	100	VHUK1J
2-sided	Starting unit	12	2475	1000	600	100	VHUK2A
2-sided	Add-on unit	6	2475	1000	600	100	VHUK2J
Extra cantilever, length 600 mm							VHUKULOKE

TIPPING CONTAINERS

- practical tool for handling industrial and real estate waste
- automatic tipping by driving towards as standard (also manual operation)
- can be operated with forklifts and pallet trucks
- standard stock color blue RAL5019
- also other colors available, delivery time 3-4 weeks



Red: RAL 3020



Yellow: RAL 1021



Green: RAL 6032



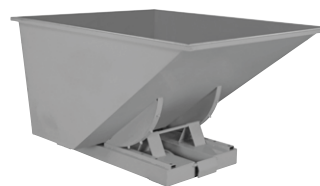
Orange: RAL 2008



Brown: RAL 8017



Black: RAL 9005



Grey: RAL 7042



White: RAL 9010

Volume l	Capacity kg	Length mm	Width mm	Height mm	Material thickness mm	Weight kg	Product code
130	1200	815	760	580	2	55	KK150
320	1500	1235	840	750	2	80	KK300
520	2000	1525	865	870	2	101	KK600
765	2000	1525	1215	870	2 / 2,5	122	KK900
1030	2000	1700	1215	1045	2 / 2,5	157	KK1100
1340	2000	2073	1066	1248	2,5	205	KK1600
1700	2000	2073	1316	1248	2,5	253	KK2000
2500	2000	2073	1866	1248	2,5	321	KK3000

See accessories on next page.

TIPPING CONTAINER ACCESSORIES

COVER

- standard colour grey
- available also in the same colors as the tipping container



Container volume l	Product code
150	KK150K
300	KK300K
600	KK600K
900	KK900K
1100	KK1100K
1600	KK1600K
2000	KK2000K
3000	KK3000K

Delivery time 2-3 weeks.

WHEEL SET

- wheel diameter 150 mm
- lifts the container approx. 230 mm
- 2 solid and 2 rotating wheels
- material nylon

Product code: KKPS



STANDING PADS

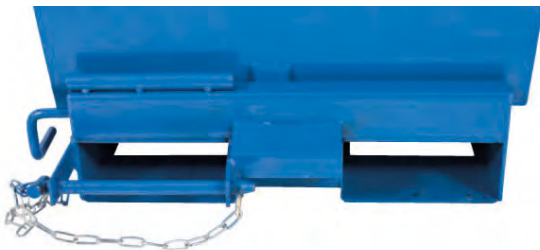
- makes it possible to handle the container also with a stacking truck
- delivery time 2-3 weeks

Product code: KKSI



FORK LOCKING CHAIN

- tipping container can also be ordered with a fork lock
- cannot be installed afterwards
- letters HL are added to the end of the tipping container's product code (e.g. KK1100HL)



SAFETY CHAIN

- prevents unwanted tipping of the container

Product code: KKTK



Liftable self dumping bins can be found on product group 5.



BOTTOM EMPTYING CONTAINERS

- container, easy to empty from the bottom
- bottom opens up when driven against the edge of the platform and closes automatically when touches the ground
- standard color blue RAL5019, available also in colors mentioned on page 19-7



Bottom opens up when driven against the edge of the platform.



Outer dim. (W x D x H) mm	Volume l	Capacity kg	Weight kg	Product code
800 x 1200 x 900	700	800	115	KK700PT
900 x 1200 x 1100	1000	800	149	KK1000PT
1000 x 1600 x 1300	1800	800	224	KK1800PT

Delivery time 2-3 weeks.

TIPPING CONTAINERS STAINLESS AISI 304

- automatic tipping by driving towards as standard (also manual operation)
- operationable with forklifts and pallet trucks



Outer dim. (W x D x H) mm	Volume l	Capacity kg	Weight kg	Product code
855 x 1525 x 870	600	1500	136	KK600RST
1215 x 1525 x 870	900	1500	153	KK900RST

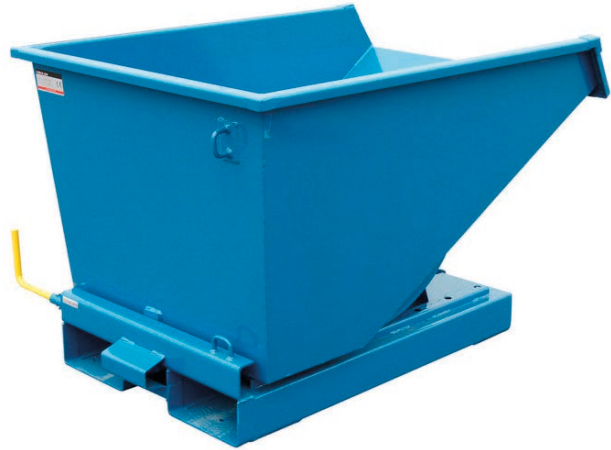
Delivery time 2-3 weeks.

TIPPING CONTAINERS WITH STRENGTHENED BODY

- strengthened body manufactured from 3 mm steel
- automatic tipping by driving towards as standard (also manual operation)
- operationable with forklifts and pallet trucks
- additional equipment: wheel set (4 pcs), standing pads and safety chain, see p. 19-8
- standard color blue RAL5019, available also in colors mentioned on page 19-7



Tipping container can also be ordered with a fork lock, ask for more from our sales! (Cannot be installed afterwards.)



Outer dim. (W x D x H) mm	Volume l	Capacity kg	Weight kg	Product code
840 x 1230 x 760	320	2500	110	KK320HD
870 x 1540 x 875	520	2500	135	KK520HD
1215 x 1540 x 875	765	2500	159	KK765HD
1215 x 1860 x 1045	1030	2500	188	KK1030HD
1065 x 2150 x 1245	1340	2500	235	KK1340HD

Delivery time 2-3 weeks.

TIPPING CONTAINERS WITH HIGH LID

- basic tipping container with a high lid and two openable outlets
- automatic tipping by driving towards as standard (also manual operation)
- operationable with forklifts and pallet trucks
- additional equipment: wheel set (4 pcs), standing pads and safety chain, see p. 19-8
- standard color blue RAL5019, available also in colors mentioned on page 19-7



Tipping container can also be ordered with a fork lock, ask for more from our sales! (Cannot be installed afterwards.)



Outer dim. (W x D x H) mm	Volume l	Capacity kg	No. of outlets	Weight kg	Product code
780 x 815 x 900	130	1200	1	90	KK130KK
860 x 1235 x 1110	320	1500	1	140	KK320KK
880 x 1525 x 1295	520	2000	1	175	KK520KK
1230 x 1525 x 1295	770	2000	2	240	KK770KK
1230 x 1700 x 1545	1030	2000	2	260	KK1030KK
1080 x 2073 x 1845	1350	2000	1	330	KK1350KK
1330 x 2073 x 1845	1700	2000	2	350	KK1700KK
1580 x 2073 x 1845	2050	2000	2	430	KK2050KK

Delivery time 2-3 weeks.

STORAGE FITMENTS

- raw material environmental-friendly 100 % recycled polypropylene
- heat resistance -20 - (+)75 °C, resistant to oils, most acids, alkalis and solvents
- color grey (RAL 7023)
- big labels as standard equipment, spacer plates as accessory



STORAGE BINS

Outer dim. D x W x H (mm)	Number/package	Spacer plates as accessory	Product code
300 x 94 x 80	40	610	ML6310
400 x 94 x 80	40	610	ML6410
500 x 94 x 80	40	610	ML6510

Outer dim. D x W x H (mm)	Number/package	Spacer plates as accessory	Product code
300 x 186 x 80	20	620	ML6320
400 x 186 x 80	20	620	ML6420
500 x 186 x 80	20	620	ML6520



STACKING BINS

Outer dim. D x W x H (mm)	Number/package	Spacer plates as accessory	Product code
300 x 230 x 120	12	630	ML6323
400 x 230 x 150	12	640	ML6423
500 x 230 x 150	12	650	ML6523



Outer dim. D x W x H (mm)	Number/package	Spacer plates as accessory	Product code
160 x 103 x 73	20	-	ML6547
250 x 146 x 128	20	-	ML6546
340 x 205 x 153	12	-	ML6545
500 x 310 x 180	8	-	ML6544



Outer dim. D x W x H (mm)	Number/package	Spacer plates as accessory	Product code
490 x 310 x 250	12	-	ML3149



SPACER PLATES

Suitable for bin	Number/package	Product code
6310, 6410, 6510	10/200	MLV610
6320, 6420, 6520	10/100	MLV620

SOLID CRATE



- inside and top stackable plastic solid crate
- color dark grey, for individual order also as red or brown
- also available with logo print

Outer dim. mm	Inner dim. mm	Volume l	Packing size / pallet	Weight kg	Product code
600 x 400 x 300	540 x 340 x 285	52	80	2,05	ML400H

LOCKERS

Extremely sturdy and high quality collection of lockers.

- hat rack
- clothes rail
- suspension hooks
- ventilation in base and ceiling
- adjustable legs
- abloy lock
- cabinet doors reinforced with housing structure
- cabinet parts are joined together with spot welding, which ensures strong structure and long life
- delivered assembled

Color options for cabinet frame and doors:



SEPARATE BENCHES

Sturdy and strong basic benches for cabinet area as an accessory. Made from steel pipe and lacquered pine (seat part).

Dimensions (W x D x H) mm	Product code
800 x 285 x 420	VKP800
1200 x 285 x 420	VKP1200

Delivery time 5-6 weeks.

LOCKERS

Dimensions (W x D x H) mm	Door width mm	No. of lockers	Product code
400 x 545 x 1900	400	1	VK400/1
800 x 545 x 1900	400	2	VK800/2
1200 x 545 x 1900	400	3	VK1200/3

Delivery time approx. 5-6 weeks.

TOOL LOCKER

- sturdy and affordable tool locker
- locking system
- material stove enamelled steel
- delivered in parts
- easy to assemble



Dimensions (H x W x D) mm	No. of shelves	Product code
1900 x 900 x 400	3	VK2
Additional shelf		VK2HYLLY

WELDED TOOL LOCKER

- tool locker is made of high quality, cold rolled 0,7 mm steel plate
- locker parts have been assembled with spot welding and the doors are reinforced with a housing structure thus making the locker very durable and ensuring a long service life
- four adjustable shelves and a door lock as standard
- color dark grey (RAL7024)



Height	Depth	Width	Capacity / shelf level	Product code
mm	mm	mm	kg	
1900	430	1000	100	VK1000
Additional shelf				VK1000HYLLY

20. PACKING EQUIPMENT

Ecostrap / Ecolash

WG straps

Plastic / Steel straps

Plastic strap tools

Steel strap tools

Strapping trolleys

Strap locks

Packing films, tapes etc.

Scales



ECOLASH

ECOLASH ONE WAY LASHING WEBBING (SYN)

- webbing material polyester



Tensile breaking strength is marked to all webbings.



Product	Strap width (mm)	Tensile breaking strength (kg)	Packing size m / bag	Product code
Ecolash 50 mm	50	2000	400	SYN2000
Ecolash 50 mm	50	2700	250	SYN2700
Ecolash 50 mm	50	5000	150	SYN4000

ECOLASH BUCKLES

- for 50 mm webbing



SYL50S



SYL50



SYL100



SYKO100



SYL40AL

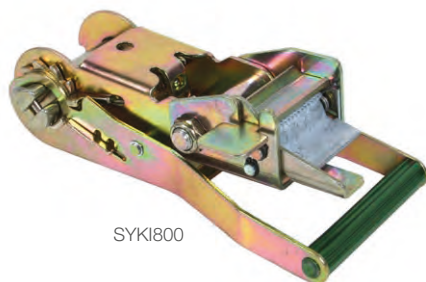
Product	Breaking strength (kg)	Packing size (box)	Product code
Ecolash buckle	1600	150	SYL50S
Ecolash buckle, black	1600	150	SYL50
Ecolash buckle	5000	80	SYL100
Ecolash lock, fosfated	-	200	SYL40AL
Hook (to be threaded)	5000	-	SYKO100

See SYL50S/50/100 instruction video.



ECOLASH TOOLS

- for 50 mm webbing



SYKI800



SYKI1000

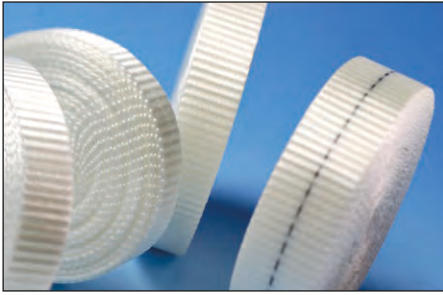
See SYKI800 instruction video.

See SYKI1000 instruction video.

Product	Product code
Ecolash ratchet tightener for 50 mm webbing	SYKI800
Ecolash tightener with cutter for 13 - 50 mm webbing	SYKI1000



ECOSTRAP AND ECOLASH ONE WAY LASHING SYSTEM



Ecostrap and Ecolash one way lashing and strapping systems are easy to use in demanding cargo securing operations.

- one way lashing systems are suitable for cargo securing, bundling or coupling
- systems are used in different industrial fields and in ports for tying down goods inside containers
- systems are safe as well as easy to use
- woven structure of the Ecostrap and Ecolash webbings guarantees durability and a tight load
- one way straps are easy to dispose after use
- one way lashing systems are available in several different strengths (370 - 7500 kg)
- tested metal buckles maximise the system strength

ECOSTRAP

ECOSTRAP WEBBINGS

- webbing material polyester

Product	Strap width mm	Tensile breaking strength (kg)	Packing size box	Product code
Ecostrap 13 mm	13	370	2 x 1000 m/roll	ES13
Ecostrap 16 mm	16	460	2 x 760 m/roll	ES16
Ecostrap 19 mm	19	725	2 x 480 m/roll	ES19
Ecostrap 25 mm	25	1000	2 x 350 m/roll	ES25



ECOSTRAP BUCKLES

Product	Packing size (box)	Product code
Ecostrap buckle 13 mm, fosfated	1000	ESL13
Ecostrap buckle 16 mm, fosfated	1000	ESL16
Ecostrap buckle 19 mm, fosfated	1000	ESL19
Ecostrap buckle 25 mm, fosfated	500	ESL25



Instructions for lock buckle on page 20-10.

ECOSTRAP TOOLS

Product	Product code
Ecostrap tightener for 13 - 25 mm webbing, with cutter	MVKIR25
Ecostrap strap rack for 13 - 25 mm webbing	ESTELINE
Ecostrap string tool for 13 - 25 mm webbing	ESPT



ESPT



MVKIR25



ESTELINE

MVKIR25
Instructions on
page 20-11.

WG STRAPS AND ACCESSORIES

WG STRAP

WG plastic strap is a soft and flexible strap made from PET plastic. WG plastic strap is significantly more durable and stronger than PP plastic strap. WG plastic strap is closed and locked with steel wire locks. WG plastic strap is tightened either by hand or with a plastic strap tightener.



Strap width / Inner diam. (mm)	Tensile strength kg	Meters/roll	Packing size		Product code
			rolls/box	rolls/pallet	
13 / 76	375	1100	2	64	WG13
13 / 76	375	250	8	320	WG13PAALI
16 / 76	450	900	2	64	WG16
19 / 76	550	700	2	64	WG19

Strap width / Inner diam. (mm)	Tensile strength kg	Meters/roll	Packing size		Product code
			rolls/box	rolls/pallet	
16 / 76	600	600	2	80	* WG55
19 / 76	725	500	2	80	* WG65
25 / 76	950	500	2	60	* WG85
30 / 76	1170	150	5	150	* WG95
35 / 76	1350	150	4	120	* WG105

Strap width / Inner diam. (mm)	Tensile strength kg	Meters/roll	Packing size		Product code
			rolls/box	rolls/pallet	
19 / 76	925	400	2	80	* WGHD65
25 / 76	1250	400	2	60	* WGHD85
38 / 76	2000	100	4	120	WGHD105

*items marked with an asterisk delivery time 1-2 weeks

Strap width / no. of locks	Tensile strength kg	Meters/roll	Packing size		Product code
			roll/box	rolls/pallet	
13 / 100 locks	375	250 m	1	128	WG13COMBI
16 / 80 locks	450	200 m	1	128	WG16COMBI



LOCKS FOR WG STRAP

Material	Packing size (pcs/box)	Product code
Steel	1000	WGL13
Steel	1000	WGL16
Steel	1000	WGL19
Steel	500	WGL25
Steel	250	WGL35



Instructions for locks on page 20-10.

TOOLS FOR WG STRAP

Product	Product code
Tightener with cutter for 13 - 50 mm webbing	SYKI1000
Tightener with cutter for 13 - 25 mm webbing	MVKIR25



SYKI1000



MVKIR25

Instructions on page 20-11.

TROLLEYS FOR WG STRAP

For inner diameter (mm)	For strap widths (mm)	Product code
76/150/200/280	13 - 38	WGKEVA
76	13 - 38	WGTELINE



WGKEVA



WGTELINE

STEEL STRAPS AND ACCESSORIES

STEEL STRAPS

Roll size approx. kg	Strap thickness mm	Spools on pallet	Pallet weight approx. (kg)	Product code
50	0,5	12	600	TV13
50	0,5	12	600	TV16
50	0,5	12	600	TV19
50	0,8	18	900	TV32



STEEL STRAP LOCKS

Description	For strap widths (mm)	Packing size (pcs/box)	Product code
Suitable for locking pliers and pneumatic tools	13	2000	TVLU13
Suitable for locking pliers and pneumatic tools	16	2000	TVLU16
Suitable for locking pliers and pneumatic tools	19	2000	TVLU19
Suitable for locking pliers and pneumatic tools	32	1000	TVLU32



STEEL STRAP TOOLS

Description	For strap widths (mm)	Product code
Tightens, locks by piercing and cuts the strap	13 - 19	PIKE1319
Tightens the strap, suitable for round objects, requires locking pliers	19 - 32	TVTK32
Steel strap cutter with short handle	13 - 32	TVLEIK2



TVTK32



TVLEIK2



PIKE1319

STEEL STRAP LOCKING PLIERS

Description	For strap widths (mm)	Product code
Presses the buckle around the steel strap	13	TVPIH13
Presses the buckle around the steel strap	16	TVPIH16
Presses the buckle around the steel strap	19	TVPIH19
Presses the buckle around the steel strap	32	TVPIH32

Delivery time 1-2 weeks.



TROLLEYS FOR STEEL STRAPS

For inner diam. (mm)	For strap widths (mm)	Product code
406	12 - 19	TVKEVA
406	25 - 32	TVKEVA32



TVKEVA32

TVKEVA

PET PLASTIC STRAPS AND ACCESSORIES

PET PLASTIC STRAP, POLYESTER

Strap size / roll inner diam. (mm))	Tensile strength (kg)	Meters/roll	Color	Packing size roll/box	Rolls/pallet	Product code
12,0 x 0,55 - 406	270	2500	Green	1	48	PET1260406
15,5 x 0,60 - 406	400	2000	Green	1	48	PET15560406
16,0 x 0,80 - 406	500	1200	Green	1	48	PET16080406
19,0 x 0,80 - 406	650	1200	Green	1	48	PET1980406



Operating temperature
-30 - (+)80 °C.

LOCKS FOR PET STRAPS

Strap width mm	Packing size pcs/box	Product code
12/13	2000	MV13LUY
15/16	1000	MV16LUY



TOOLS FOR PET STRAPS

Description	For strap widths (mm)	Product code
Tightens and cuts the strap	13 - 25	MVKIR25
Tightens, fastens the lock and cuts the strap	13	MVK13
Tightens, fastens the lock and cuts the strap	16	MVK16
Locks the strap with friction welding and cuts	9 - 19	PAKSTB60
Locks the strap with friction welding and cuts	13 - 16	PAKITA20

*PAKITA20
Runner length 88 mm



MVKIR25
Instructions on page 20-11



MVK13-16
Runner length 120 mm



*PAKSTB60

*PAKITA 20 Tightens, locks and cuts the plastic strap. Uses friction welding as the locking method. Tightening strength is 220 kg.

*PAKSTB60 with manual tightening, also locks and cuts the plastic strap. Uses friction welding as the locking method. Tightening strength is 220 kg.

TROLLEY FOR PET STRAP

For inner diam. (mm)	For strap widths (mm)	Product code
406	12 - 19	TVKEVA



PP PLASTIC STRAPS AND ACCESSORIES

PP PLASTIC STRAP

Strap size / roll inner diam. (mm)	Tensile strength (kg)	Meters/roll	Color	Packing size		Product code
				roll(s)/box	rolls/pallet	
12 x 0,55 - 200	133	3000	Black	2	48	PP1255200M
12 x 0,55 - 406	135	3000	Black	1	40	PP1255406M
12 x 0,63 - 200	155	3000	Black	2	48	PP1263200M
12 x 0,70 - 406	200	2500	Black	1	40	PP1270406M
13 mm + 500 locks	120	1000	Black	1	40	MV13COMBI
16 mm + 400 locks	150	800	Black	1	40	MV16COMBI



LOCKS FOR PP STRAPS

Strap width (mm)	Packing size (pcs/box)	Product code
12/13	2000	MV13LUY
15/16	1000	MV16LUY
12/13	1000	MV13LUM
15/16	1000	MV16LUM



MV13LUY / MV16LUY



MV13LUM / MV16LUM

Instructions for locks on page 20-11.

TOOLS FOR PP STRAPS

Description	For strap widths (mm)	Product code
Tightens and cuts the strap	13 - 25	MVKIR25
Tightens, fastens the lock and cuts the strap	13	MVK13
Tightens, fastens the lock and cuts the strap	16	MVK16
Locks the strap with friction welding and cuts	9 - 19	PAKSTB60
Locks the strap with friction welding and cuts	13 - 16	PAKITA20


 MVKIR25
Instructions on page 20-11


MVK13-16



*PAKSTB60


 *PAKITA20
Runner length 88 mm

*PAKITA 20 Tightens, locks and cuts the plastic strap. Uses friction welding as the locking method. Tightening strength is 220 kg.

*PAKSTB60 with manual tightening, also locks and cuts the plastic strap. Uses friction welding as the locking method. Tightening strength is 220 kg.

TROLLEYS FOR PP STRAPS

For inner diam. mm	For strap widths mm	Product code
406	12 - 19	TVKEVA
76/150/200/280	13 - 38	WGKEVA



TVKEVA



WGKEVA

STEVEDORE BAGS

Stevedore bags are used for loading containers, trucks and ships as well as in the luggage compartments of trains and busses, when goods have to be loaded tightly and immobile. Stevedore bag material is strong 100 % recycled material. Stevedore bag is easy to empty after use and therefore each bag can be used multiple times. Stevedore bag is simple and quick to fill with an inflator gun fitting to a compressor.



Size (cm)	Max. pressure PSI	Layers	Product code
90 x 120	2,5	2	53305
90 x 180	2,5	2	53306

Also other sizes available, ask for more!

INFLATOR GUNS FOR STEVEDORE BAGS

Inflator guns have a special made nozzle which inserts open air to the compressed air thus making it significantly faster to fill up the stevedore bags. Due to this the compressor will be less strained.



MATRG-P6



MATRG-P6ALU

Type	Product code
Plastic nozzle	MATRG-P6
Aluminum nozzle	MATRG-P6ALU
Spare part, aluminum nozzle	MATRG-P603ALU
Spare part, plastic nozzle	MATRG-P603



MATRG-P603ALU



MATRG-P603

DESICCANT FOR CONTAINERS

Absorpole is designed for sea containers to remove moisture. The power of the dryer is based on the ability of calcium chloride to effectively remove moisture from the air. Absorpole is easy to use and is designed to work with any type of cargo on long journeys. There must be only 5 cm of empty space between the dryer and the product so that the dryer works as planned, so it is well suited also for tightly packed containers. Absorpole's protective shell is strong impact-resistant plastic.

Free from DMF and complies with RoHS and REACH directives.



Installation method into the container.

Dimensions (activated) mm	Dimensions (packed) mm	Operating temperature C°	Capacity l	Weight kg	Product code
1180 x 116 x 35	640 x 116 x 35	-20 - (+)80	2	1,5	ABSORPOLE

MISCELLANEOUS EQUIPMENT

CORNER PROTECTORS FOR PLASTIC AND STEEL STRAPS

Size mm	Material	Packing size pcs/box	Product code
60 x 60 x 3 x 100	Cardboard	600	SIKUSP100

More corner protectors in product group 12.



HAND WRAPPING FILMS

Film width mm	Film on reel m	Film thickness mm	Packing size	Product code
450	300	0,017	6 rolls/box	KK45017
100	150	0,017	40 rolls/box	KK100

Also other film thicknesses available!



WRAPPING TOOL FOR HAND WRAPPING FILMS

Description	Product code
For 450 mm wrapping film	KKKL450
For 100 mm wrapping film	KKKL100



PALLET COVER PLASTIC

Product code	Sheet size mm	Plastic thickness mm	Sheets/roll	Product code
PAKMUOVI2	1300 x 1700	0,035	200	PAKMUOVI2



PACKING TAPES

Tape amount / reel (m)	Tape width mm	Packing size rolls/box	Tape color	Product code
66	50	36	Brown	PAKT50R



TAPE TOOL

Product code
PAKTEKO



PACKING LIST POCKETS

Size	Packing size pcs/box	Product code
C6	1000	PAKTAS1
C5	1000	PAKTAS2



SCALES

SCALE TABLE MODEL



Display accuracy	Weight categories g	Accuracy categories g	Weighing plane size mm	Product code
1/15000	7500/15000	0,5/1,0	290 x 220	PAKVAAKA1

BENCH SCALE



- stainless steel

Display accuracy	Weight category kg	Accuracy category g	Weighing plane size mm	Product code
1/3000	0 - 150	10	400 x 500	PAKVAAKA3

DIGITAL FLOOR WEIGHING SCALE (RAMP AS AN ACCESSORY)

- versatile functions in a separate display unit, such as reset, tare, RS232 port for printer
- four measuring sensors
- overload protection for max. 50 % overload
- ramp as an accessory

Max. load kg	Horizontal plane dimensions mm	Max. height mm	Display accuracy kg	Weight kg	Product code
2000	1500 x 1500	70	0,5	180	VAAKA2LAVA
5000	1500 x 1500	70	1,0	200	VAAKA5LAVA

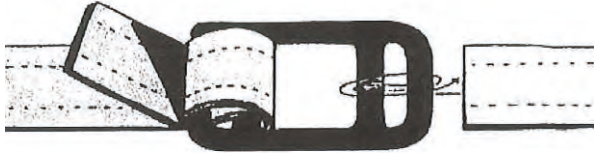


Ramp fits to both models.
Product code: VAAKA25RAMPP1

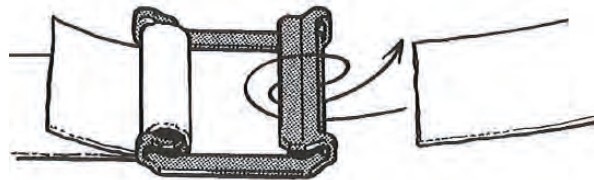
ONE WAY LASHING SYSTEM INSTRUCTIONS



Instruction videos for locks, ratchets/tighteners and tools can be found also on Haklift's Youtube channel.

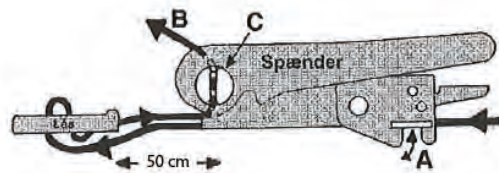


Threading of buckle SYL100

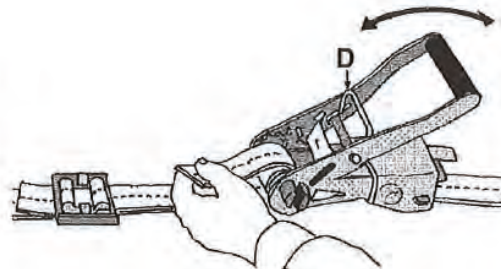


Threading of buckle SYL50

See instruction video.



Ratchet tightener SYKI800

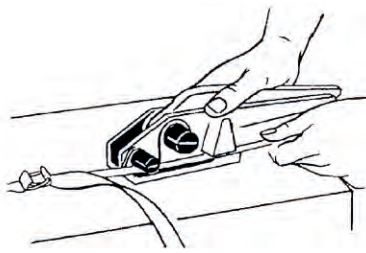


1. Slide the strap to the lock by hand.
2. Set the tightener as in the image, approx. 50 cm from the lock by opening latch "A" and move the tightener sideways onto the strap so that the strap is between latch "A" and tightener's body. Close latch "A" by pressing it upwards.
3. Place the strap to the tightener by sliding it through slot "C" and tighten it by pulling towards arrow "B".
4. Tighten the bond by moving the tightener handle back and forth.
5. When the bond is tightened release the tightener by pulling from handle "D" and move the actual handle upwards simultaneously so that it locks in the upper position. Now you can pull the strap from the tightener drum and slot and by opening latch "A" you can remove the tightener from the strap.

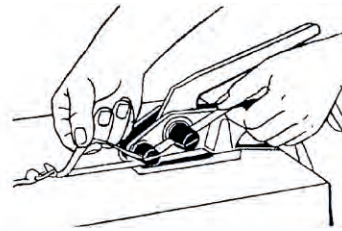
See instruction video.



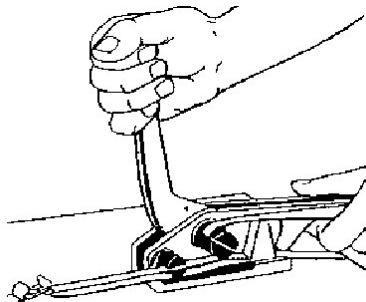
PLASTIC STRAP TIGHTENER INSTRUCTIONS



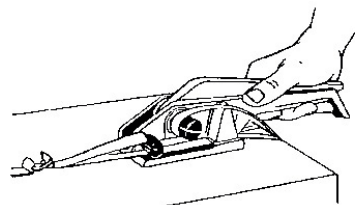
1. Press the handle and set the stretched strap into the tightener.



2. Pull the strap through the cutter and the spool.



3. Tighten the strap by pulling the handle back and forth.

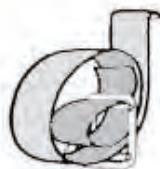


4. Press the handle down so that the strap is cut and the tightener can be removed from the strap.

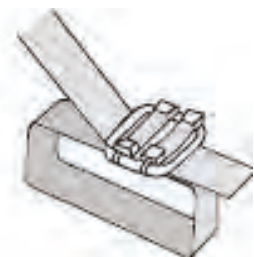
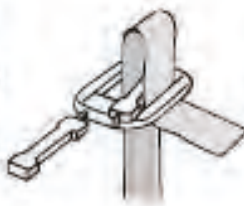
See instruction video.



ECOSTRAP BUCKLE AND WG STRAP LOCK INSTRUCTIONS



PP STRAP LOCK INSTRUCTIONS



21. SAFETY PRODUCTS

Fall prevention kits

Safety cage kits

Accessories



ROOF KIT 1

Suitable for e.g. working on roofs.

CONTENT

- safety harness P-30, sizes M-XL / XXL
- safety rope 12 mm / 15 m + connectors + energy absorber with rope grab (LINOSTOP15 + AZ002 + AZ002A)
- safety connector (AZ014T)
- steel wire rope 1 m + connector (AZ410+AZ011)
- polyester strap 2 m (AZ900200)
- carry-on-sack (AX011)

Size:
M-XL
XXL

Product code:
KATTOSETTI1
KATTOSETTI1X

SAFETY HARNESS P-30



ACCESSORIES



ROOF KIT 2

Suitable for e.g. working on roofs.

CONTENT

- safety harness P-03, sizes M-XL / XXL
- safety rope 12 mm / 15 m + connectors + energy absorber with rope grab (LINOSTOP15 + AZ002 + AZ002A)
- safety connector (AZ011)
- polyester strap 2 m (AZ900200)
- carry-on-sack (AX011)

Size:
M-XL
XXL

Product code:
KATTOSETTI2
KATTOSETTI2X

SAFETY HARNESS P-03



ACCESSORIES



SAFETY CAGE KIT 1

Suitable for e.g. working on safety cage.

CONTENT

- safety harness P-03, sizes M-XL / XXL
- energy absorber + stretching safety rope + safety connectors, max. length 2,0 m
- safety connectors

Size:
M-XL
XXL

Product code:
KORISSETTI1
KORISSETTI1X

SAFETY HARNESS P-03



ACCESSORIES ABM-LE111-AZ002-AZ022



AZ002
connector opening 18 mm
weight 220 g

AZ022
connector opening 50 mm
weight 500 g

SAFETY CAGE KIT 2

Suitable for e.g. working on safety cage.

CONTENT

- safety harness P-03, sizes M-XL / XXL
- fall arrester with strap 2,26 m

Size:
M-XL
XXL

Product code:
KORISSETTI2
KORISSETTI2X

SAFETY HARNESS P-03



ACCESSORIES AH210



- overall length 2,26 m
- strap width 45 mm
- safety connector upper part, opening 22 mm
- safety connector with swivel, opening 24 mm
- includes energy absorber
- weight limit 140 kg
- EN 360

measurements:
96 x 98 x 320 mm
weight: 1,18 kg

HARNESS KIT 1

CONTENT

- safety harness P-03, size M-XL
- safety rope 12 mm / 15 m + safety connector + energy absorber with rope grab

Product code:
VALJASSETTI1

SAFETY HARNESS P-03



ACCESSORIES LINOSTOP15



AZ002
connector opening 18 mm
weight 220 g

15m

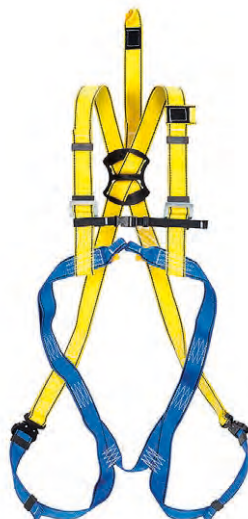
HARNESS KIT 3

CONTENT

- safety harness P-30C, size M-XL
- energy absorber + stretching safety rope + safety connectors, max. length 2,0 m
- EN 354
- packed in a preservation/carrying bag

Product code:
VALJASSETTI3

SAFETY HARNESS P-30C



ACCESSORIES ABM-LE111-AZ002A-AZ023



AX09



AZ002A
connector opening 24 mm
weight 180 g

AZ023
connector opening 60 mm
weight 480 g

HARNESS KIT 5

CONTENT

- safety harness P-30C, size M-XL
- safety rope 12 mm / 15 m + connectors + energy absorber with rope grab (LINOSTOP15 + AZ002 + AZ002A)
- safety connector (AZ011)
- polyester strap 2 m (AZ900200)
- steel wire rope Ø 8 mm / 1 m + connector (AZ410+AZ011)
- EN 354
- packed in a preservation/carrying bag

Product code:
VALJASSETTI5

SAFETY HARNESS P-30C



ACCESSORIES



AZ002A

AZ002



AZ002



AZ011



AX011

15m



AZ900200

LINOSTOP15

AZ410+AZ011

SAFETY HARNESS P-03

- 2 pcs of anchoring points in front and one D-ring in back
- EN 361

Size/Weight:

M-XL 690 g
XXL 700 g

Product code:

P-03MXL
P-03XXL



attachment loops in front



D-ring in back

SAFETY HARNESS P-30

- 2 pcs of anchoring points in front and one D-ring + attachment loop in back
- also available with pre-threaded vest
- P-30C foot strap loops equipped with quick-release buckles
- EN 361


Model:

P-30

Size:

M-XL

Product code:

P-30MXL

P-30

XXL

P-30XXL

P-30C

M-XL

P-30CMXL

P-30C

XXL

P-30CXXL

With vest

M-XL

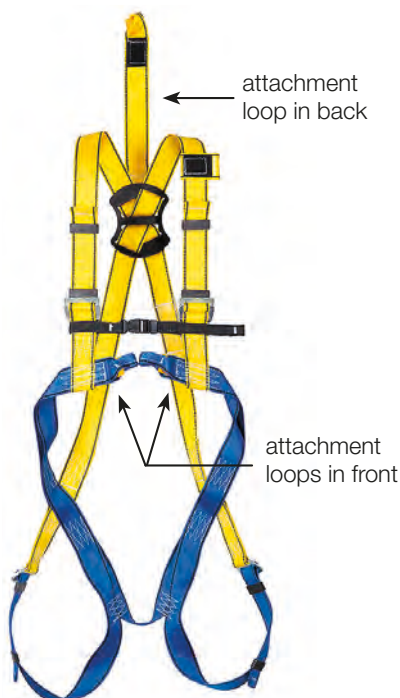
P-30+VS041MXL

With vest

XXL

P-30+VS041XXL

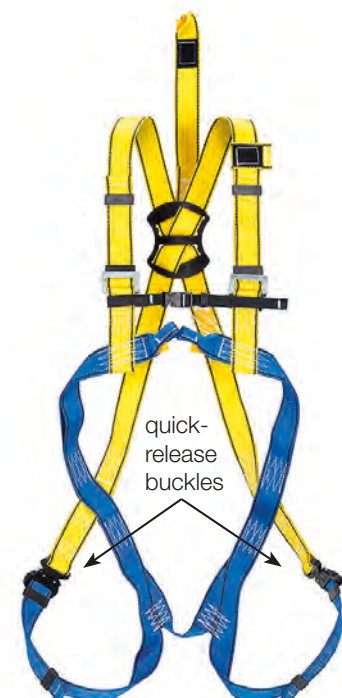
P-30



P-30 WITH VEST



P-30C



SAFETY HARNESS P-32 PRO

- high quality safety harness for e.g. roof and safety cage working
- wide and padded shoulder and foot straps
- D-ring in back and strap loops in front
- chest and thigh straps with double-secured aluminium quick-release buckles
- equipped with an indicator which indicates if the harness has been strained
- EN 361

Size/Weight:

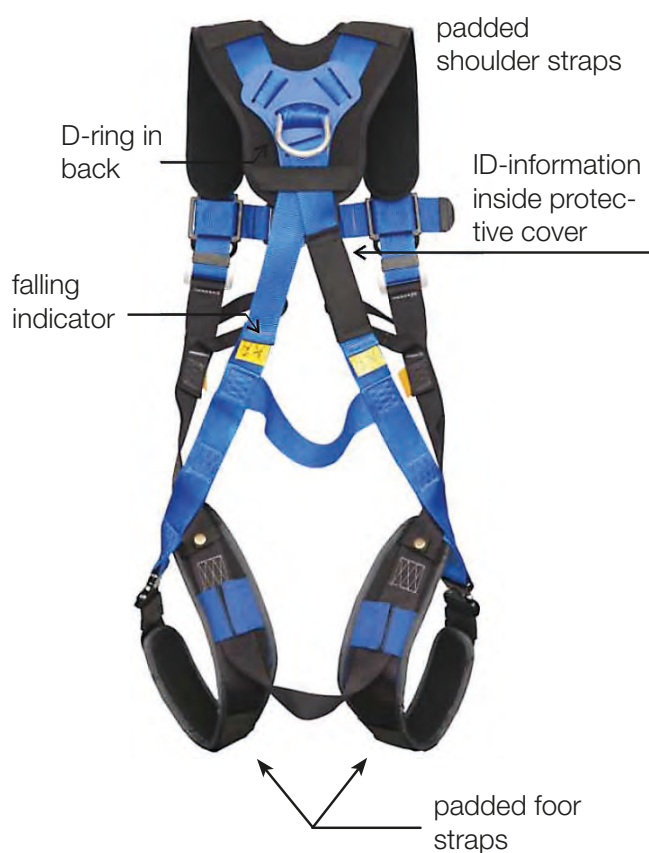
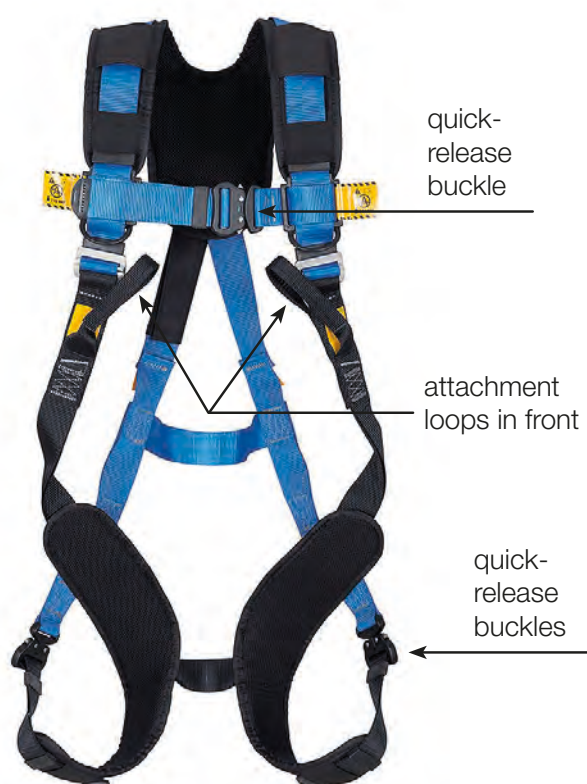
M-XL 1315 g

XXL 1365 g

Product code:

P-32PROMXL

P-32PROXXL



SAFETY HARNESS P-52 PRO

- high quality safety harness for e.g. roof and safety cage working
- wide and padded shoulder and foot straps
- D-ring in back and on sides and strap loops in front
- chest and thigh straps with double-secured aluminium quick-release buckles
- equipped with an indicator which indicates if the harness has been strained
- EN 361, EN 358

Size/Weight:

M-XL 1650 g
XXL 1750 g

Product code:

P-52PROMXL
P-52PROXXL



SAFETY HARNESS P-52 PRO WITH VEST

- includes P-52 PRO safety harness + vest
- vest is pre-threaded to the harness

Size:

M-XL
XXL

Product code:

P-52PRO-VS032MXL
P-52PRO-VS032XXL



SAFETY HARNESS P-71C

- high quality safety harness which can also be used in sitting position
- wide and padded shoulder and foot straps
- support belt for horizontal working
- double-secured aluminium quick-release buckles
- EN 361, EN 358, EN 813



Size/Weight:

M-XL 1690 g

XXL 1790 g

Product code:

P-71CMXL

P-71CXXL



MODEL 1 WITH STRETCHING SAFETY ROPE

SAFETY ROPE

- energy absorber + stretching safety rope + safety connectors, max. length 2,0 m
- equipped with two safety connectors
- EN 354

ABM ENERGY ABSORBER

- dimensions 160 x 35 x 45 mm
- weight 160 g
- material polyamide
- EN 355

Product code:

ABM-LE111-AZ002-AZ022

MODEL 2 WITH STRETCHING SAFETY ROPE

SAFETY ROPE

- energy absorber + stretching safety rope + safety connectors, max. length 2,0 m
- equipped with two safety connectors
- EN 354

ABM ENERGY ABSORBER

- dimensions 160 x 35 x 45 mm
- weight 160 g
- material polyamide
- EN 355

Product code:

ABM-LE111-AZ002A-AZ023

MODEL 3 WITH STRETCHING SAFETY ROPE

SAFETY ROPE

- energy absorber + stretching safety rope + safety connector, max. length 1,85 m
- equipped with safety connector
- EN 354

ABM ENERGY ABSORBER

- dimensions 160 x 35 x 45 mm
- weight 160 g
- material polyamide
- EN 355

Product code:

ABM-LE111

AZ002
connector open-
ing 18 mm
weight 220 g



AZ022
connector open-
ing 55 mm
weight 500 g

AZ002A
connector open-
ing 24 mm
weight 180 g



AZ023
connector open-
ing 57 mm
weight 480 g

AZ002
connector open-
ing 18 mm
weight 220 g



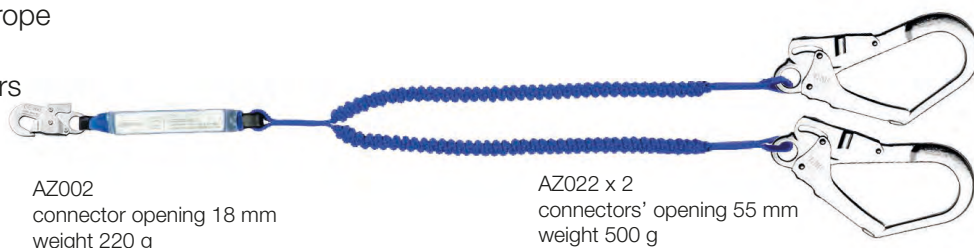
2-LEG WITH STRETCHING SAFETY ROPE AND ENERGY ABSORBER

SAFETY ROPES

- energy absorber + stretching safety rope + hooks, max. length 2,0 m
- equipped with three safety connectors
- EN 354

ABM ENERGY ABSORBER

- dimensions 160 x 35 x 45 mm
- weight 160 g
- material polyamide
- EN 355



AZ002
connector opening 18 mm
weight 220 g

AZ022 x 2
connectors' opening 55 mm
weight 500 g

Product code:

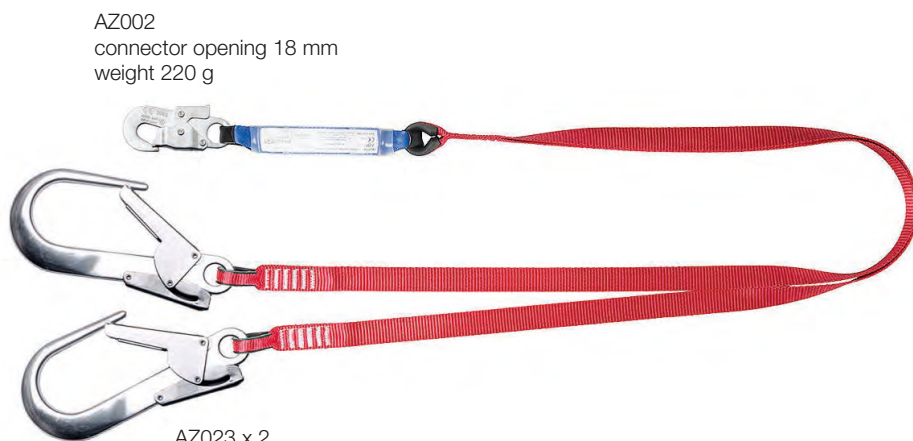
ABM-2LE111-AZ002-AZ022

2-LEG SAFETY ROPE WITH STRAP AND ENERGY ABSORBER

- energy absorber + safety rope + hooks, length 1,0 m
- strap width 30 mm
- material polyamide
- EN 354

ABM ENERGY ABSORBER

- dimensions 160 x 35 x 45 mm
- weight 160 g
- material polyamide
- EN 355



AZ002
connector opening 18 mm
weight 220 g

AZ023 x 2
connectors' opening 57 mm
weight 480 g

Product code:

ABM-2T-AZ002-AZ023

SAFETY ROPE WITH ENERGY ABSORBER

- energy absorber + safety rope, lengths 1,3 and 1,8 m
- diameter 10,5 mm
- material polyester
- EN 354

ABM ENERGY ABSORBER

- dimensions 160 x 35 x 45 mm
- weight 160 g
- material polyamide
- EN 355



Length:

1,3 m

1,8 m

Product code:

ABM+LB10113

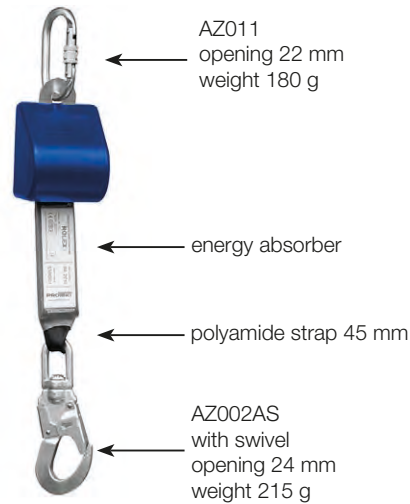
ABM+LB10120

AH 210 FALL ARRESTER WITH STRAP

140kg

- retractable arrester with locking mechanism and automatic strap rewind
- strap width 45 mm
- overall length 2,26 m
- includes energy absorber
- size: 96 x 98 x 320 mm
- EN 360

Length: 2,26 m **Weight:** 1,18 kg **Product code:** AH210



WR 025 / WR 040 FALL ARRESTER WITH STRAP

140kg

- retractable arrester with locking mechanism and automatic strap rewind
- shockproof and light plastic cover
- WR 025 arrester can also be used horizontally (in such case add-on AZ800 is required)
- includes energy absorber
- weight limit 140 kg
- EN 360
- horizontal use 11.054 (WR 025)

Length: 2,55 m **Weight:** 0,85 kg **Product code:** WR025
1,80 m 0,85 kg WR040

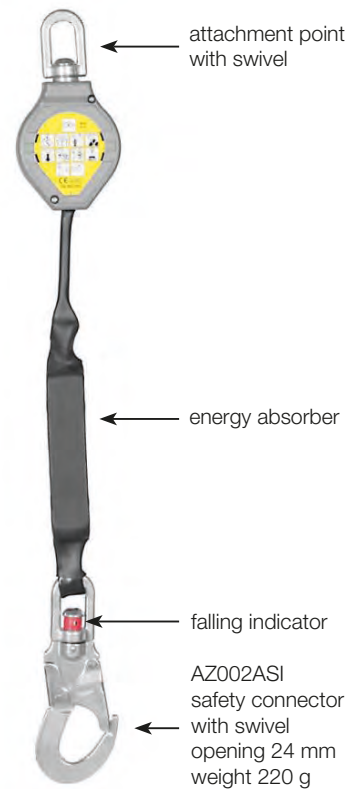
WR 025

overall length 2,55 m
Works in vertical and horizontal position.



WR 040

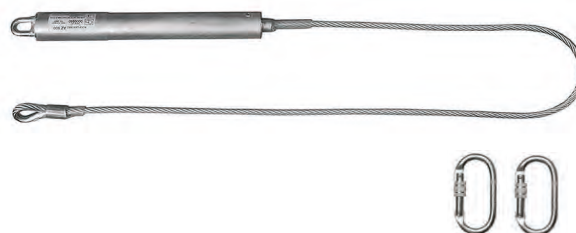
overall length 1,8 m
Works ONLY in vertical position.



AZ800 safety wire rope



WR 025 arrester can also be used horizontally e.g. in roof working. In such case add-on AZ800 is required - 1,8 m safety wire rope with integrated energy absorber. AZ800 prevents the strap of the arrester from wearing in case of falling over the edge and it will also soften the impact.



AZ800

- length 1,8 m
- energy absorber inside aluminium cover
- 2 x connector AZ011
- EN 354

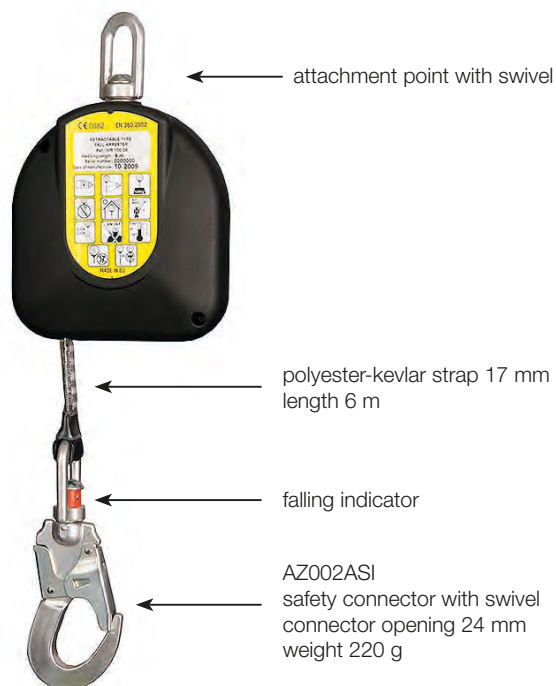
Product code:
AZ800

WR 100 FALL ARRESTER WITH STRAP

120kg

- retractable arrester with locking mechanism and automatic strap rewind
- shockproof and light plastic cover
- strap 6 m / 17 mm
- brake system with energy absorber
- separate energy absorber is not required
- weight limit 120 kg
- operating temperature -30 - (+)50 °C
- works also in damp conditions
- 160 x 70 x 230 mm
- EN 360

Length: 6 m **Weight:** 1,5 kg **Product code:** WR100



CR 030 FALL ARRESTER WITH STEEL WIRE ROPE

140kg

- retractable arrester with locking mechanism and automatic fastening wire rope rewind
- shockproof and light plastic cover
- overall length 3,0 m
- energy absorber NOT included
- weight limit 140 kg
- EN 360

Length: 3,0 m **Weight:** 1,75 kg **Product code:** CR030

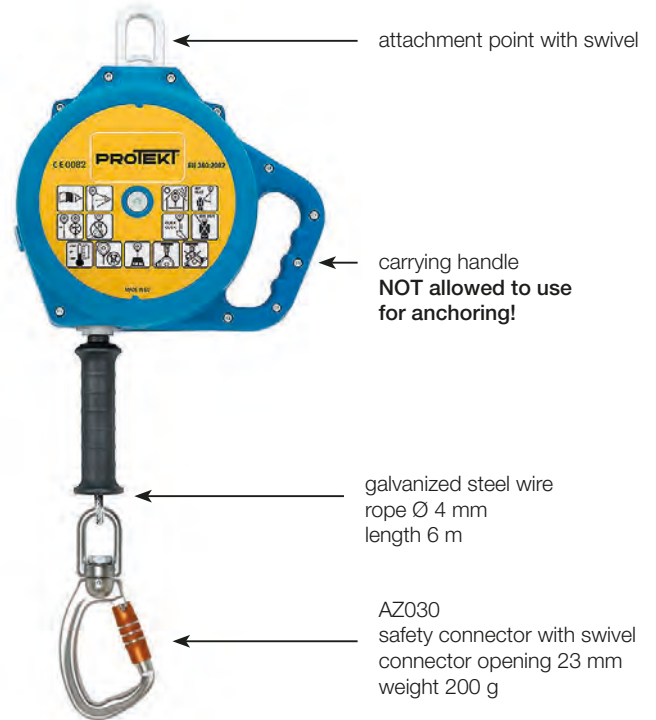


CR 240 FALL ARRESTER WITH STEEL WIRE ROPE

- extremely light
- retractable arrester with locking mechanism and automatic fastening wire rope rewind
- shockproof and light plastic cover
- steel wire rope \varnothing 4 mm
- brake system with energy absorber
- separate energy absorber is not required
- swivel on top
- safety connector with swivel
- weight limit 140 kg
- EN 360

Length: 6 m **Weight:** 4,1 kg **Product code:** CR24006-AZ030

140kg



CR 300 FALL ARRESTERS WITH STEEL WIRE ROPE

- retractable arrester with locking mechanism and automatic fastening wire rope rewind
- shockproof and light plastic cover
- steel wire rope \varnothing 4 mm
- safety connector with swivel
- brake system with energy absorber
- separate energy absorber is not required
- can also be used horizontally (in such case add-on AZ800 is required)
- weight limit 140 kg
- body dimensions: 340 x 260 x 120 mm
- EN 360

Length: 20 m **Weight:** 11,3 kg **Product code:** CR30020-AZ060
28 m 11,7 kg CR30028-AZ060

140kg



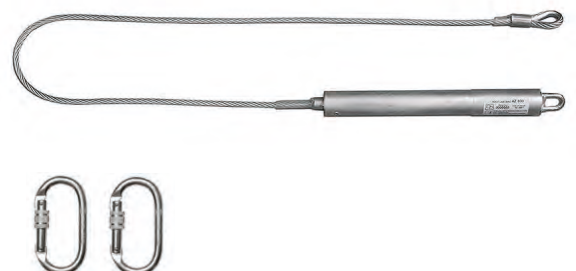
AZ800 SAFETY WIRE ROPE

Fall arresters can also be used horizontally e.g. in roof working. In such case add-on AZ800 is required - 1,8 m safety wire rope with integrated energy absorber. AZ800 prevents the strap of the arrester from wearing in case of falling over the edge and it will also soften the impact.



- length 1,8 m
- energy absorber inside aluminium cover
- 2 x safety connector AZ011
- EN 354

Product code:
AZ800



NEW

CR 250HV FALL ARRESTERS WITH STEEL WIRE ROPE

120kg

- works in vertical and horizontal position
- retractable arrester with locking mechanism and automatic fastening wire rope rewind
- shockproof and light plastic cover
- safety connector with swivel and falling indicator
- brake system with energy absorber
- separate energy absorber is not required
- no need to use AZ800 safety wire rope
- weight limit 120 kg
- body dimensions: 270 x 260 x 90 mm
- EN 360

Length:	Steel rope:	Weight:	Product code:
6 m	5 mm	4,80 kg	CR2506HV
11 m	5 mm	5,50 kg	CR25011HV



CR 250V FALL ARRESTERS WITH STEEL WIRE ROPE

120kg

- only for horizontal working
- retractable arrester with locking mechanism and automatic fastening wire rope rewind
- shockproof and light plastic cover
- safety connector with swivel and falling indicator
- brake system with energy absorber
- separate energy absorber is not required
- weight limit 120 kg
- steel wire rope 4 mm
- body dimensions: 270 x 260 x 90 mm
- EN 360

Length:	Weight:	Product code:
15 m	4,90 kg	CR25015V



SAFETY CONNECTORS

AZ011



- galvanized steel
- opening 22 mm
- weight 180 g
- EN 362

Product code: AZ011

AZ014T



- aluminium
- opening 23 mm
- weight 100 g
- EN 362

Product code: AZ014T

AZ022



- galvanized steel
- opening 55 mm
- weight 500 g
- EN 362

Product code:
AZ022

AZ023



- aluminium
- opening 57 mm
- weight 480 g
- EN 362

Product code:
AZ023

AZ022S



- galvanized steel
- equipped with swivel
- opening 60 mm
- weight 680 g
- EN 362

Product code:
AZ022S

SAFETY ROPES WITH ENERGY ABSORBER

- kernmantle safety rope \varnothing 12 mm
- material polyamide
- integrated rope grab + ABM energy absorber
- safety connectors
- EN 353-2

Length:

10 m
15 m
20 m

Product code:

LINOSTOP10
LINOSTOP15
LINOSTOP20

AZ002
connector opening 18 mm
weight 220 g



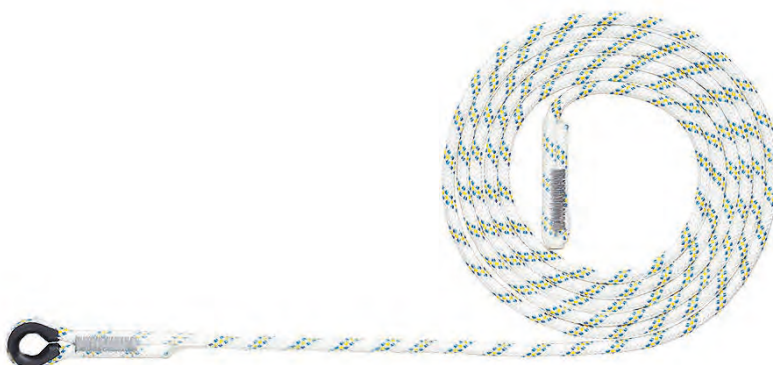
AZ002A
connector opening 24 mm
weight 180 g



SAFETY ROPES

- kernmantle safety rope Ø 12 mm
- material polyamide

Length:	Product code:
10 m	AC200-10
15 m	AC200-15
20 m	AC200-20



PRESERVATION/CARRYING BAG

- two sizes
- color: blue

Size:	Product code:
300x400 mm	AX09
300x600 mm	AX011



AX011



AX09

ANCHORING

STEEL WIRE ROPE

- Ø 8 mm / length 1,0 m
- AZ011 safety connector
- EN 354, EN 795

Product code:
AZ410+AZ011



POLYESTER STRAP

- length 2,0 m
- width 20 mm
- polyester
- EN 354, EN 566,
- EN 795 class B

Product code:
AZ900200

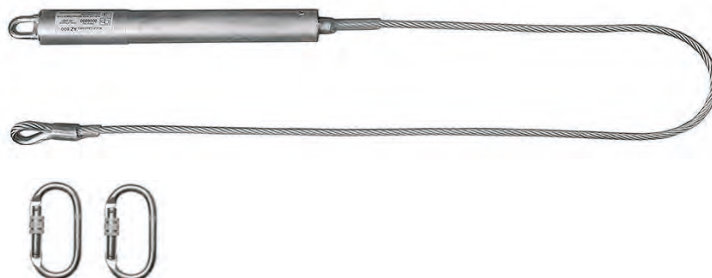


SAFETY WIRE ROPE

- Ø 8 mm / length 1,8 m
- 2 x safety connector AZ011
- energy absorber inside aluminium cover
- EN 354

Shall be used with fall arresters CR 250V, CR 300 and WR 025 e.g. in roof working when fall arrester is used horizontally. Prevents the steel wire rope/strap of the arrester from wearing in case of falling over the edge and it will also soften the impact.

Product code: AZ800



TRIPOD 200 KG

- collapsible
- material aluminium
- adjustable height 179 - 289 cm
- leg gap 147 - 232 cm
- weight 37 kg
- 2 pcs of wire guides
- 3 pcs of steps
- can be used to lift and lower max. 2 persons at a time
- does NOT include winch, must be ordered separately
- EN 795/B:2012
- TS 16415/B:2013

Product code: TM-13



Strong aluminium legs to which the wire winch can be attached.

Quick-locking latches on each leg.

Steps that are mounted to the legs to help installing the wire to the top of the tripod (3 pcs).

2 pcs of wire guides on top of the tripod.



Wire winch 140 kg + fastening rack must be ordered separately (CRW300 and AT172), see the next page.

179 - 289 cm

173 - 271 cm

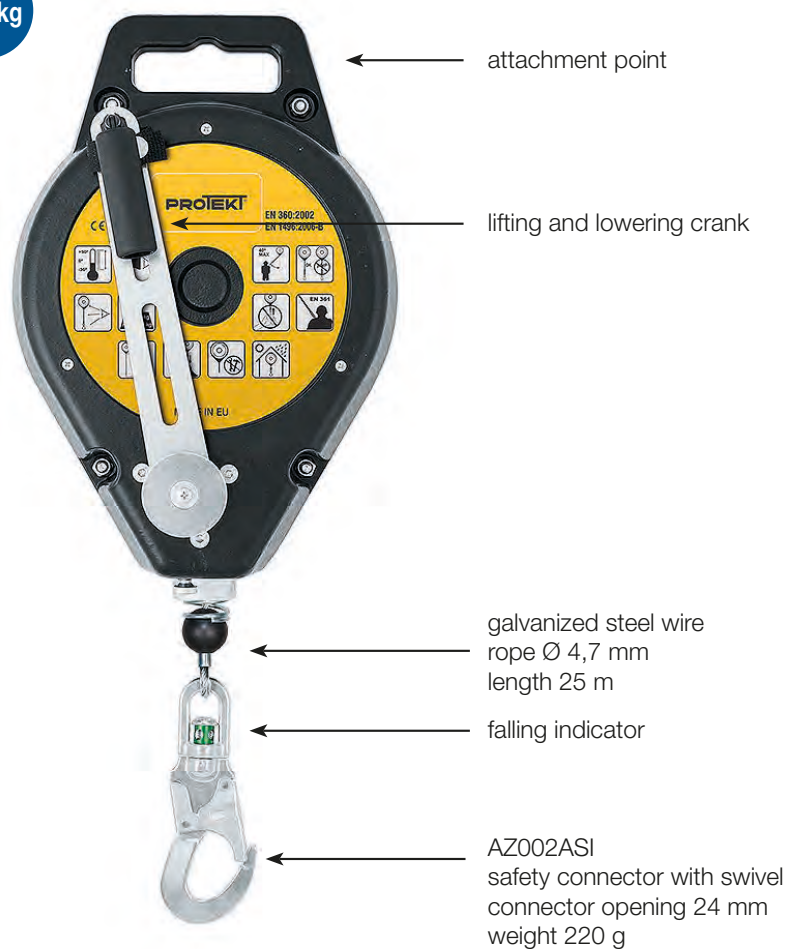
147 - 232 cm

CRW300 WIRE WINCH / FALL ARRESTER

140kg

- fits to TM-13 tripod
(requires AT172 fastening rack, see bottom page)
- can be used to lift and lower
- equipped with energy absorber and automatic brake
- can be fastened to the tripod
- max. load 140 kg
- body material aluminium
- steel wire rope 4,7 mm / 25 m
- weight approx. 15 kg
- dimensions: 385 x 267 x 132 mm
- EN 360, EN 1496/B

Product code: CRW300



FASTENING RACK

Fastening rack for CRW300 winch to TM-13 tripod.

Product code: AT172

