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Lifting and pulling equipment Tensioning lugs Stockings and swivels Ropes Dynamometers

Shackles
Rope slings
Webbing slings
Chain slings
Hose slings
Chain hoists
Rope hoists
Multi-bolts
Grips for ACSR , AL.
Grips for OPGW
Self grip for ASXSN PAS GREENPAS
Wire and Cu-rope clamps
Wire and nylon rope
Dynamometers

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Reinforced round shackle

Manufactured in Class 6 in accordance with EN 13889.

Safety factor: 6:1.

The shackle and pin are made of high-tensile, tempered steel. Operating temperature range: $-20^{\circ}\text{C} \div 200^{\circ}\text{C}$. Zinc-plated shackle, pin protected against corrosion by blue powder coating. Marking: type, DOR, class, batch number, manufacturer's mark, CE mark.



Symbol	Load [kg]	A	S	B	D	H	W	Kg
L01/0,5	500	12,0	19,0	7,0	8,0	29,0	17,5	0,05
L01/0,7	750	13,0	20,0	9,0	10,0	32,0	20,0	0,10
L01/1,0	1000	17,5	25,5	10,5	11,5	36,0	25,0	0,15
L01/1,5	1500	19,0	29,0	11,5	12,5	42,0	27,0	0,20
L01/2,0	2000	20,5	32,5	13,0	16,0	48,5	31,5	0,30
L01/3,2	3250	27,0	43,0	17,0	19,0	59,5	41,0	0,65
L01/4,7	4750	31,5	49,5	20,0	22,5	70,5	48,0	1,05
L01/6,5	6500	37,0	56,0	24,0	27,0	83,5	53,5	1,60
L01/8,5	8500	45,0	67,0	27,0	30,0	95,5	60,5	2,35
L01/9,5	9500	47,5	73,5	30,0	33,0	106,0	68,0	3,15
L01/12,0	12000	49,5	82,0	34,5	36,0	119,0	76,0	4,75
L01/13,5	13500	58,0	90,0	36,0	39,0	132,0	84,5	6,05
L01/17,0	17000	63,0	96,5	40,0	42,0	147,0	92,0	8,15
L01/25,0	25000	71,0	125,0	45,0	50,0	176,0	110,0	12,75
L01/35,0	35000	80,0	143,0	52,0	54,0	196,0	119,0	19,40
L01/55,0	55000	105,0	180,0	65,0	71,0	260,0	150,0	36,00

Longitudinal shackle type D

Manufactured in class 6 to EN13889. Safety factor: 6:1.

The shackle and pin are made of high-tensile, tempered steel. Operating temperature range: $-20^{\circ}\text{C} \div 200^{\circ}\text{C}$. Zinc-plated shackle, pin protected against corrosion by blue powder coating. Marking: type, DOR, class, batch number, manufacturer's mark, CE mark.



Symbol	Load [kg]	A	B	D	H	W	Kg
L02/0,5	500	11,0	6,0	8,0	24,0	16,0	0,05
L02/0,7	750	15,0	8,0	11,0	26,0	19,0	0,08
L02/1,0	1000	17,0	10,0	11,0	32,0	23,0	0,13
L02/1,5	1500	19,0	11,0	13,5	36,0	27,0	0,20
L02/2,0	2000	20,5	13,0	16,5	41,0	30,0	0,28
L02/3,2	3250	27,0	16,0	19,0	51,0	38,0	0,57
L02/4,7	4750	31,0	19,0	22,0	60,0	46,0	1,20
L02/6,5	6500	36,0	22,0	25,5	71,0	53,0	1,40
L02/8,5	8500	42,0	25,0	30,0	82,0	61,0	2,20
L02/9,5	9500	46,0	28,0	33,5	90,0	68,0	3,10
L02/12,0	12000	52,0	32,0	36,0	100,0	76,0	4,10
L02/13,5	13500	56,0	35,0	39,0	111,0	84,0	5,30
L02/17,0	17000	61,0	38,0	42,0	122,0	92,0	7,30
L02/25,0	25000	72,0	45,0	52,0	150,0	108,0	12,60
L02/35,0	35000	85,0	52,0	60,0	175,0	123,0	18,30

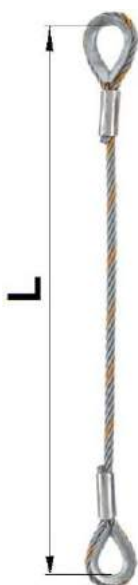


Cable slings with caoutchouc

Fulfills the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 13414-1
Slings made of steel wire ropes with a wire strength of 1770 or 1960 N/mm² clamped by aluminium cylindrical sleeves according to EN 13411-3

Slings permanently marked with manufacturer's stamped mark, factory number, length, CE mark and permissible working load.

The length of the sling is made to individual order - it is measured between the upper and lower attachment points.



Symbol	Load [kg]	Rope [mm]	Possible lengths up to			product i (mb) on		
			1.0	1,5	2,0	3.0	4.0	5,0
L100/08	700	8,0	●	●	●	●	●	●
L100/10	1050	10,0	●	●	●	●	●	●
L100/11	1300	11,0	●	●	●	●	●	●
L100/12	1550	12,0	●	●	●	●	●	●
L100/13	1800	13,0	●	●	●	●	●	●
L100/14	2120	14,0	●	●	●	●	●	●
L100/16	2700	16,0			●	●	●	●
L100/18	3400	18,0				●	●	●
L100/20	4350	20,0					●	●
L100/22	5200	22,0					●	●
L100/24	6300	24,0					●	●

Other lengths on request

Ordering diagram: example **L100/12/5.0**

L100 - model of sling with a caoutchouc 12 - diameter of rope

5,0 - sling length

Wire rope slings without eyelets

Fulfills the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 13414-1
Slings made of steel wire ropes with a wire strength of 1770 or 1960 N/mm² clamped by aluminium cylindrical sleeves according to EN 13411-3

Slings permanently marked with manufacturer's stamped mark, factory number, length, CE mark and permissible working load.

The length of the sling is made to individual order - it is measured between the upper and lower attachment points.



Symbol	Load [kg]	Rope [mm]	Possible lengths up to			product i (mb) on		
			1.0	1,5	2,0	3.0	4.0	5,0
L101/08	700	8,0	●	●	●	●	●	●
L101/10	1050	10,0	●	●	●	●	●	●
L101/11	1300	11,0	●	●	●	●	●	●
L101/12	1550	12,0	●	●	●	●	●	●
L101/13	1800	13,0	●	●	●	●	●	●
L101/14	2120	14,0	●	●	●	●	●	●
L101/16	2700	16,0			●	●	●	●
L101/18	3400	18,0				●	●	●
L101/20	4350	20,0					●	●
L101/22	5200	22,0					●	●
L101/24	6300	24,0					●	●

Other lengths on request

Ordering diagram: example **L101/12/5.0**

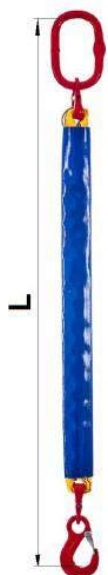
L101 - sling model without thimbles 12 - rope diameter

5,0 - sling length



Hose slings 1-cord

It complies with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-2 and has a safety factor of 7:1, (fittings 4:1).
It has a sewn-in identification label with the manufacturer's name, load capacity, type, factory number, year of manufacture, length, CE mark.
The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load [kg]	Possible lengths for production (mb					
		1,0	1,5	2,0	3,0	4,0	5,0
L102/1/1	1000	●	●	●	●	●	●
L102/1/2	2000	●	●	●	●	●	●
L102/1/3	3000	●	●	●	●	●	●
L102/1/4	4000	●	●	●	●	●	●
L102/1/5	5000	●	●	●	●	●	●
L102/1/6	6000	●	●	●	●	●	●
L102/1/8	8000	●	●	●	●	●	●
L102/1/1010000		●	●	●	●	●	●

Other lengths on request

Hose slings with link and hook . Other configurations on request Ordering diagram :

example **L102/1/2/5.0**

L102 - hose sling model

1 - number of ties

2 - load in tonnes 5,0 - length of sling

Hose slings 2-prong

It complies with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-2 and has a safety factor of 7:1, (fittings 4:1).
It has a sewn-in identification label with the manufacturer's name, load capacity, type, factory number, year of manufacture, length, CE mark.
The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load capacity 45°-60°[kg].	Load capacityMay be up to 45°[kg]	product i (mb) on 3.0			4,0	5,0
			1,0	1,5	2,0		
L102/2/1	1000	1400	●	●	●	●	●
L102/2/2	2000	2800	●	●	●	●	●
L102/2/3	3000	4200	●	●	●	●	●
L102/2/4	4000	5600	●	●	●	●	●
L102/2/5	5000	7000	●	●	●	●	●
L102/2/6	6000	8400	●	●	●	●	●
L102/2/8	8000	11200	●	●	●	●	●
L102/2/10	10000	14000	●	●	●	●	●

Other lengths on request

Hose slings with link and hook . Other configurations on request Ordering diagram :

example **L102/2/2/5.0**

L102 - hose sling model 2 - number of links 2 - load in tonnes 5,0 - length of sling



3-prong hose slings

It complies with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-2 and has a safety factor of 7:1, (fittings 4:1).
It has a sewn-in identification label with the manufacturer's name, load capacity, type, factory number, year of manufacture, length, CE mark.
The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load Capacity		Possible lengths for production (mb)					
	45°-60°[kg]	45°[kg]	1,0	1,5	2,0	3,0	4,0	5,0
L102/3/1,5 1500		2100	●	●	●	●	●	●
L102/3/3,0 3000		4200	●	●	●	●	●	●
L102/3/4,5 4500		6300	●	●	●	●	●	●
L102/3/6,0 6000		8400	●	●	●	●	●	●
L102/3/7,5 7500		10500	●	●	●	●	●	●
L102/3/9,0 9000		12600	●	●	●	●	●	●
L102/3/12 12000		16800	●	●	●	●	●	●
L102/3/15 15000		21000	●	●	●	●	●	●

Other lengths on request

Hose slings with link and hook . Other configurations on request Ordering diagram :
example **L102/3/4,5/5,0**

L102 - hose sling model 3 - number of links 4,5 - load in tonnes 5,0 - sling length

4-hose slings

It complies with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-2 and has a safety factor of 7:1, (fittings 4:1).
It has a sewn-in identification label with the manufacturer's name, load capacity, type, factory number, year of manufacture, length, CE mark.
The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load Capacity		Possible lengths for production (mb)					
	45°-60°[kg]	45°[kg]	1,0	1,5	2,0	3,0	4,0	5,0
L102/4/1,5 1500		2100	●	●	●	●	●	●
L102/4/3,0 3000		4200	●	●	●	●	●	●
L102/4/4,5 4500		6300	●	●	●	●	●	●
L102/4/6,0 6000		8400	●	●	●	●	●	●
L102/4/7,5 7500		10500	●	●	●	●	●	●
L102/4/9,0 9000		12600	●	●	●	●	●	●
L102/4/12 12000		16800	●	●	●	●	●	●
L102/4/15 15000		21000	●	●	●	●	●	●

Other lengths on request

Hose slings with link and hook . Other configurations on request Ordering diagram :
example **L102/4/4,5/5,0**

L102 - hose sling model 3 - number of links 4,5 - load in tonnes 5,0 - sling length

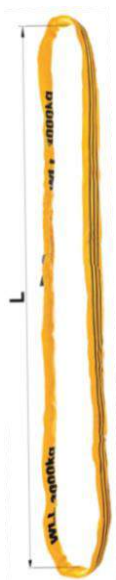


Hose sling with closed circuit

Complies with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-2 Has a safety factor of 7:1

It has a sewn-in identification label with the manufacturer's name, load capacity, type, factory number, year of manufacture, length, CE mark.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load [kg]	Possible lengths for production					i (mb)
		1.0	1.5	2.0	3.0	4.0	
L103/1	1000	●	●	●	●	●	●
L103/2	2000	●	●	●	●	●	●
L103/3	3000	●	●	●	●	●	●
L103/4	4000	●	●	●	●	●	●
L103/5	5000	●	●	●	●	●	●
L103/6	6000	●	●	●	●	●	●
L103/8	8000	●	●	●	●	●	●
L103/10	10000	●	●	●	●	●	●
L103/12	12000	●	●	●	●	●	●
L103/15	15000	●	●	●	●	●	●
L103/20	20000	●	●	●	●	●	●
L103/25	25000	●	●	●	●	●	●
L103/30	30000	●	●	●	●	●	●
L103/40	40000	●	●	●	●	●	●
L103/50	50000	●	●	●	●	●	●
L103/60	60000	●	●	●	●	●	●
L103/80	80000	●	●	●	●	●	●
L103/100	100000	●	●	●	●	●	●
L103/120	120000	●	●	●	●	●	●
L103/150	150000	●	●	●	●	●	●

Other lengths on request

Hose slings with link and hook . Other configurations on request Ordering diagram : example **L103/2/5.0**

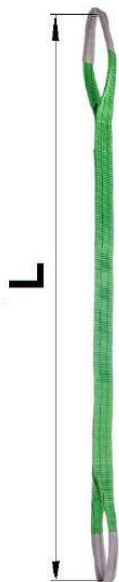
L103 - hose sling model 2 - load in tonnes 5,0 - sling length



Double layer belt slings

- Complies with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-1
- They have a safety factor of 7:1
- They have a sewn-in identification label with the manufacturer's name, type, factory number, year of manufacture, length, CE mark and permissible working load.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load [kg]	Possible lengths for production (mb)					
		1,0	1,5	2,0	3,0	4,0	5,0
● L104/1	1000	●	●	●	●	●	●
● L104/2	2000	●	●	●	●	●	●
● L104/3	3000	●	●	●	●	●	●
● L104/4	4000			●	●	●	●
● L104/5	5000			●	●	●	●
● L104/6	6000				●	●	●
● L104/8	8000				●	●	●
● L104/10	10000					●	●

Other lengths on request

The webbing slings can be finished with full loops or with shorter loops Ordering example: **L104/2/5.0**

L104 - hose sling model 2 - load in tonnes 5,0 - sling length

Four-layer strap slings

They comply with the provisions of the Machinery Directive 2006/42/EC and the harmonised standard EN 1492-1 and have a safety factor of 7:1.

They have a sewn-in identification label with the manufacturer's name, type, factory number, year of manufacture, length, CE mark and permissible working load.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.



Symbol	Load [kg]	Possible lengths for production i (mb)					
		1,0 3,0	1,5	2,0	4,0	5,0	
● L105/1	1000	●	●	●	●	●	●
● L105/2	2000	●	●	●	●	●	●
● L105/3	3000	●	●	●	●	●	●
● L105/4	4000			●	●	●	●
● L105/5	5000			●	●	●	●
● L105/6	6000			●	●	●	●
● L105/8	8000			●	●	●	●
● L105/10	10000				●	●	●

Other lengths on request

The webbing slings can be finished with full loops or with shorter loops Ordering example: **L105/2/5.0**

L105- hose sling model 2 - load in tonnes 5,0 - sling length



1 - link chain slings class 8

They comply with the provisions of the Machinery Directive 2006/42/EC.

They have a durable rating plate with the manufacturer's mark, class, factory number, length, CE mark and permissible working load stamped on it.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.

Safety factor 4:1



Symbol	Load Chain [kg]		Possible lengths for production (mb					
			1,0	1,5	2,0	3,0	4,0	5,0
L108/1/1,1	1120	6	●	●	●	●	●	●
L108/1/2,0	2000	8	●	●	●	●	●	●
L108/1/3,1	3150	10	●	●	●	●	●	●
L108/1/5,3	5300	13	●	●	●	●	●	●
L108/1/8,0	8000	16	●	●	●	●	●	●
L108/1/11	11200	19	●	●	●	●	●	●
L108/1/15	15000	22	●	●	●	●	●	●
L108/1/21	21200	26	●	●	●	●	●	●

Other lengths on request

Chain slings with link and hook . Other configurations on request

Ordering diagram: example **L108/1/3.1/5.0**

L108 - chain sling model class 8 1 - number of links 3,1 - load in tonnes 5,0 - sling length **Class 10 - symbol L110**

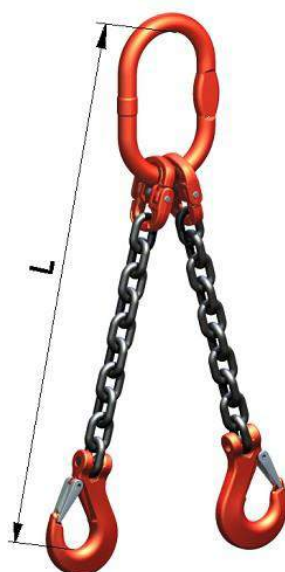
Two-legged chain slings

They comply with the provisions of the Machinery Directive 2006/42/EC.

They have a durable rating plate with the manufacturer's mark, class, factory number, length, CE mark and permissible working load stamped on it.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.

Safety factor 4:1



Symbol	Load Capacity		Possible lengths for production (mb					
	45°-60°[kg]	45°[kg]	1,0	1,5	2,0	3,0	4,0	5,0
L108/2/1,1	1120	1600	●	●	●	●	●	●
L108/2/2,0	2000	2800	●	●	●	●	●	●
L108/2/3,1	3150	4250	●	●	●	●	●	●
L108/2/5,3	5300	7500	●	●	●	●	●	●
L108/2/8,0	8000	11200	●	●	●	●	●	●
L108/2/11	11200	16000	●	●	●	●	●	●
L108/2/15	15000	21200	●	●	●	●	●	●
L108/2/21	21200	30000	●	●	●	●	●	●

Other lengths on request

Chain slings with link and hook . Other configurations on request Ordering diagram: example **L108/2/3.1/5.0**

L108 - chain sling model class 8 2 - number of links

3,1 - load in tonnes 5,0 - sling length **Class 10 - symbol L110**



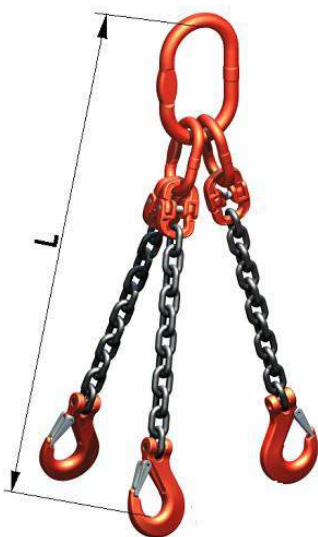
Three-legged chain slings

They comply with the provisions of the Machinery Directive 2006/42/EC.

They have a durable rating plate with the manufacturer's mark, class, factory number, length, CE mark and permissible working load stamped on it.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.

Safety factor 4:1



Symbol	Load Capacity		Possible lengths for production (mb					
	45°-60°[kg]	45°[kg]	1,0	1,5	2,0	3,0	4,0	5,0
L108/3/1,7	1700	2360	●	●	●	●	●	●
L108/3/3,0	3000	4250	●	●	●	●	●	●
L108/3/4,7	4700	6700	●	●	●	●	●	●
L108/3/5,3	8000	11200	●	●	●	●	●	●
L108/3/11	11800	17000	●	●	●	●	●	●
L108/3/17	17000	23600	●	●	●	●	●	●
L108/3/22	22400	31500	●	●	●	●	●	●
L108/3/31	31500	45000	●	●	●	●	●	●

Other lengths on request

Chain slings with link and hook . Other configurations on request

Ordering diagram: example **L108/3/4.7/5.0**

L108 - chain sling model class 8 3 - number of links 4,7 - load in tonnes 5,0 - sling length **Class 10 - symbol L110**

Four-legged chain slings

They comply with the provisions of the Machinery Directive 2006/42/EC.

They have a durable rating plate with the manufacturer's mark, class, factory number, length, CE mark and permissible working load stamped on it.

The length of the sling is made to individual order and is measured between the upper and lower attachment points.

Safety factor 4:1



Symbol	Load Capacity		Possible lengths for production (mb					
	45°-60°[kg]	45°[kg]	1,0	1,5	2,0	3,0	4,0	5,0
L108/4/1,7	1700	2360	●	●	●	●	●	●
L108/4/3,0	3000	4250	●	●	●	●	●	●
L108/4/4,7	4700	6700	●	●	●	●	●	●
L108/4/5,3	8000	11200	●	●	●	●	●	●
L108/4/11	11800	17000	●	●	●	●	●	●
L108/4/17	17000	23600	●	●	●	●	●	●
L108/4/22	22400	31500	●	●	●	●	●	●
L108/4/31	31500	45000	●	●	●	●	●	●

Other lengths on request

Chain slings with link and hook . Other configurations on request

Ordering diagram: example **L108/4/4.7/5.0**

L108- chain sling model class 8 4- number of links 4,7 - load in tonnes 5,0 - sling length **Class 10 - symbol L110**



Universal chain hoist



Bravo™ AC lever hoist

Lightweight and compact construction made of aluminium Built-in gearbox to reduce the force needed to operate the unit

Supplied with a carrying case as standard

	Weight	Capacity	Number/strike force	Chain length	Chain pitch
L2/250/1,5	2.3 kg	250 kg	1	1.5mb	4x12 mm
L2/500/1,5	3.3 kg	500 kg	1	1.5mb	5x15 mm

Universal chain hoist



Bravo 500 kg

Bravo 750 kg
Bravo 1500 kg
Bravo 3000 kg

Bravo 6000 kg

Bravo™ series chain hoists with Double Click system Highly extensible steel alloy used in the construction of the hoist. Ideal for construction, industry and shipyards.

It can be used in any position, whether on site or on the factory floor.

Perfect for pulling, lifting, positioning and adjusting. 360° rotating hook.

No possibility to set the hoist in neutral position,

when the load is suspended from the hook, with automatic brake engagement.

Automatic double ratchet brake.

Tested at 150% DOR.

Self-lubricating rust-protected chain with COROLIM® coating - complies with EN818-7.

Fully compliant with EN13157, TÜV Rheinland certified

	Weight	Capacity	Number/strike force	Chain length	Chain pitch
L2/500/1,5	3.3 kg	500 kg	1	1.5mb	5x15 mm
L2/750/1,5	7.0 kg	750 kg	1/18 mm	1.5mb	6x18 mm
L2/750/3,0				3.0mb	
L2/750/4,0				4.0mb	
L2/750/5,0				5.0mb	
L2/1500/1,5	11.0 kg	1500 kg	1/15 mm	1.5mb	8x24 mm
L2/1500/3,0				3.0mb	
L2/1500/4,0				4.0mb	
L2/1500/5,0				5.0mb	
L2/3000/1,5	20.0 kg	3000 kg	1/17 mm	1.5mb	10x30 mm
L2/3000/3,0				3.0mb	
L2/3000/4,0				4.0mb	
L2/3000/5,0				5.0mb	
L2/6000/1,5	30.0 kg	6000 kg	2/8.5 mm	1.5mb	10x30 mm
L2/6000/3,0				3.0mb	
L2/6000/4,0				4.0mb	
L2/6000/5,0				5.0mb	



L2/CLD 4-5
L2/CLD 6
L2/CLD 7-8
L2/CLD 10

Guard for 250-500kg hoists
Guard for 750-1000kg hoists
Guard for 1500kg hoists
Guard for 3000-6000kg hoists



Universal chain hoist

Yale®
Handy



Versatile lifting, sliding and cargo securing characterised by compact design and sturdy sheet steel construction. Its low dead weight and smooth chain travel make this unit is easy to use and versatile.

Yale®
Handy

	Weight	Capacity	Number/strike force	Chain length	Chain pitch
L4/250/1,5	2.2 kg	250	kg1/80 mm		4x12 mm
L4/500/1,5	1.5mb				4x12 mm

Yale®
UNO Plus Series



Yale®
UNO series

	Weight	Capacity	Number/strike force	Chain length	Chain pitch
L4/750/1.5	7.2 kg	750 kg	1/20 mm	1.5mb	6x18 mm
L4/750/3.0				3.0mb	
L4/750/4.0				4.0mb	
L4/750/5.0				5.0mb	
L4/1500/1,5	12.5 kg	1500 kg	1/22 mm	1.5mb	8x24 mm
L4/1500/3,0				3.0mb	
L4/1500/4,0				4.0mb	
L4/1500/5,0				5.0mb	
L4/3000/1.5	21.5 kg	3000 kg	1/17 mm	1.5mb	10x30 mm
L4/3000/3.0				3.0mb	
L4/3000/4.0				4.0mb	
L4/3000/5.0				5.0mb	
L4/6000/1.5	32.0 kg	6000 kg	2/9 mm	1.5mb	10x30 mm
L4/6000/3.0				3.0mb	
L4/6000/4.0				4.0mb	
L4/6000/5.0				5.0mb	

Yale®

	Weight	Capacity	Number/jump ties	Length chain	Pitch chain
PT series					
L5/800/1,5	5.5 kg	800 kg	1/24 mm	1.5mb	5.6x17.1 mm
L5/800/3,0				3.0mb	
L5/800/4,0				4.0mb	
L5/800/5,0				5.0mb	
L5/1600/1,5	9.6 kg	1600 kg	1/23 mm	1.5mb	7.1x21.2 mm
L5/1600/3,0				3.0mb	
L5/1600/4,0				4.0mb	
L5/1600/5,0				5.0mb	
L5/3200/1,5	16.0 kg	3200 kg	1/16 mm	1.5mb	9x27.2 m.
L5/3200/3,0				3.0mb	
L5/3200/4,0				4.0mb	
L5/3200/5,0				5.0mb	
L5/6300/1,5	31.0 kg	6300 kg	2/8 mm	1.5mb	9x27.2 m.
L5/6300/3,0				3.0mb	
L5/6300/4,0				4.0mb	
L5/6300/5,0				5.0mb	

* PT model optionally available with overload protection



Universal chain hoist

KITO



KITO's L8 type hoists are characterised by, among other things:

Unique free-wheel chain adjustment mechanism with safeguards against accidental freewheeling under load Reinforced lever handle Smooth-running gear mechanism for trouble-free operation Chain manufactured by KITO, nickel-plated. Ensures the highest quality and safety in accordance with EN818-7

Explanation of markings:

L8-OF - models without freewheel chain adjustment mechanism

L8-OLL - with optional slipping clutch to prevent the unit from being overloaded by a higher than nominal weight.

The L8 KITO lever hoist is an original and reliable piece of equipment, which will prove its worth in all conditions. The unique freewheel chain adjustment mechanism effectively prevents accidental freewheeling. Thanks to the reinforced lever handle and the smooth The operating gear mechanism makes the KITO hoist easy to operate.

A load capacity of 6.3 to 9 tonnes with a low dead weight and compact design is a guarantee of efficient work. Four-fold riveting for the highest level of safety, class 100 (V) nickel-plated load chain and a safety hook pawl are additional advantages that make KITO equipment a great choice.



	Weight	Capacity	Number of thorns	Length chain	Pitch chain
L8/250/1,5	1.7 kg	250 kg	1	1.5mb	3.2x9 mm
L8/250/3,0	2.0 kg	250 kg	1	3.0 mb	3.2x9 mm
L8/500/1,5	2.7 kg	500 kg	1	1.5mb	4.3x12 mm
L8/500/3,0	3.3 kg	500 kg	1	3.0 mb	4.3x12 mm

	Weight	Capacity	Number of thorns	Chain length	Chain pitch
L8/800/1,5	5.7 kg	800 kg	1	1.5mb	5.6x15.7 mm
L8/800/3,0	6.8 kg			3.0mb	
L8/800/6,0	8.9 kg			6.0mb	
L8/1000/1,5	5.9 kg	1000 kg	1	1.5mb	5.6x15.7 mm
L8/1000/3,0	7.0 kg			3.0mb	
L8/1000/6,0	9.1 kg			6.0mb	
L8/1600/1,5	8.0 kg	1600 kg	1	1.5mb	7.1x19.9 mm
L8/1600/3,0	9.7 kg			3.0mb	
L8/1600/6,0	13.0 kg			6.0mb	
L8/2500/1,5	11.2 kg	2500 kg	1	1.5mb	8.8x24.6 mm
L8/2500/3,0	13.8 kg			3.0mb	
L8/2500/6,0	18.9 kg			6.0mb	
L8/3200/1,5	15.0 kg	3200 kg	1	1.5mb	10.0x28.0 mm
L8/3200/3,0	18.5 kg			3.0mb	
L8/3200/6,0	25.4 kg			6.0mb	
L8/6300/1,5	26.0 kg	6300 kg	2	1.5mb	10.0x28.0 mm
L8/6300/3,0	33.1 kg			3.0 mb	
L8/6300/6,0	47.2 kg			6.0 mb	
L8/9000/1,5	40.0 kg	9000 kg	3	1.5mb	10.0x28.0 mm
L8/9000/3,0	50.5 kg			3.0 mb	
L8/9000/6,0	71.5 kg			6.0 mb	



Universal chain hoist



Yale ERGO 360	Weight	Capacity	Number/strike force	Chain length	Chain pitch
L6/750/1,5	6.6 kg	750 kg	1/27.2 mm	1.5mb	5.6x17.1 mm
L6/750/3,0				3.0mb	
L6/750/4,0				4.0mb	
L6/750/5,0				5.0mb	
L6/1500/1,5	9.5 kg	1500 kg	1/21.7 mm	1.5mb	7.1x21mm
L6/1500/3,0				3.0mb	
L6/1500/4,0				4.0mb	
L6/1500/5,0				5.0mb	
L6/3000/1,5	16.8 kg	3000 kg	1/20.1 mm	1.5mb	10x28 mm
L6/3000/3,0				3.0mb	
L6/3000/4,0				4.0mb	
L6/3000/5,0				5.0mb	
L6/6000/1,5	28.6 kg	6000 kg	2/10.1 mm	1.5mb	10x28 mm
L6/6000/3,0				3.0mb	
L6/6000/4,0				4.0mb	
L6/6000/5,0				5.0mb	

Universal chain hoist



Robust sheet steel construction in a compact design.

- Free gear switch fitted as standard
- Integral sprocket eliminates jamming and noise

no chain śny

	Weight	Capacity	Number/strike force	Chain length	Chain pitch
L3/750/1,5	7.5 kg	750 kg	1/18 mm	1.5mb	6x18 mm
L3/750/3,0				3.0mb	
L3/750/4,0				4.0mb	
L3/750/5,0				5.0mb	
L3/1500/1,5	11.5 kg	1500 kg	1/15 mm	1.5mb	8x24 mm
L3/1500/3,0				3.0mb	
L3/1500/4,0				4.0mb	
L3/1500/5,0				5.0mb	
L3/3000/1,5	21.0 kg	3000 kg	1/17 mm	1.5mb	10x30 mm
L3/3000/3,0				3.0mb	
L3/3000/4,0				4.0mb	
L3/3000/5,0				5.0mb	
L3/6000/1,5	31.5 kg	6000 kg	2/8.5 mm	1.5mb	10x30 mm
L3/6000/3,0				3.0mb	
L3/6000/4,0				4.0mb	
L3/6000/5,0				5.0mb	



Rope winch



Rope winch, cast aluminium body giving a low dead weight of the winch when a heavy load is applied
Can be used as a single- or double-tie. Corrosion-resistant
For tensioning cables on overhead lines

	Capacity 1/2 ties	Rope length 1/2 ties	
L76/1	250 / 500 kg	7,6 / 3,8	4.4 kg
L76/2	500 / 1000 kg	3,0 / 1,5	4.6 kg
L76/3	500 / 1000 kg	8,8 / 4,4	6.5 kg
L79	700 / 1400 kg	6,0 / 3,0	8.3 kg
L80	900 / 1800 kg	4,4 / 2,2	15.0 kg

Rope winch



Winch made of tool steel with low weight. Can be used as a single- or double-pull.
Manual winch for tensioning conductors in overhead LV lines equipped with a ratchet mechanism with a switch.

	Ø rope/m	Load capacity	Weight
L116/1500	6.5 mm / 1.2 m.	1500 kg	4.2 kg
L116/2000	7.0 mm / 1.5 m.	2000 kg	4.9 kg

Belt winch



Belt winch made of tool steel with low weight.
Heavy-duty belt Double-stranded winch.
For tensioning cables on overhead lines

	belt dimension	working range	Capacity	Weight
L97/1500	2.2 x 40 mm	450-2000 mm	1500 kg	4.5 kg



Manual cable winch

Yale®



The Yaletrac ST portable rope winch is a versatile tool for pulling, lifting, lowering, tensioning and securing loads over long distances.

It was specifically designed for industrial applications, for the construction of power lines.

Yaletrac ST has a housing of dimensionally stable deep-drawn steel plates for compactness and robust construction. The working force of the handle has been noticeably optimised for the user by the application of the axial ball bearings

Y05 ST
Y10 ST
Y16 ST
Y32 ST

Ø rope/m

Load capacity

Weight
without

6.0 mm / 20 m	500 kg	6.0 kg
8.4 mm / 20 m	1000 kg	8.4 kg
11.5 mm / 20 m	1600 kg	15.8 kg
16.0 mm / 20 m	3200 kg	27.2 kg



Portable device for pulling, lifting, lowering, tensioning safely working over long distances.

- resistant steel housing
- low weight
- indestructible, large-surface double handles
- maintenance-free
- Easy-to-change overload pin

L95/1
L95/2
L95/3

Ø rope/m

Load capacity

Weight

8 mm/20 m	800 kg	6.0 kg
11 mm/20 m	1600 kg	12.0 kg
16 mm/20 m	3200 kg	22.0 kg

Tractel



TIRFOR® 500 series hoist Compact, lightweight and easy to move

A combination of portability and safety.

Recommended for applications where transferability is an important criterion

T508
T516
T532

Ø rope/m

Load capacity

Weight

8.3 mm/20 m	800 kg	6.6 kg
11.5 mm/20 m	1600 kg	13.5 kg
16.3 mm/20 m	3200 kg	24.0 kg

Tractel



TIRFOR® TU series hoist

For lifting, pulling and positioning heavy loads

Unsurpassed in terms of durability and strength

TU8
TU16
TU32

Ø rope/

Capacit

Weig

8.3 mm/20 m	800 kg	8.4 kg
11.5 mm/20 m	1600 kg	20.0 kg
16.3 mm/20 m	3200 kg	27.0 kg

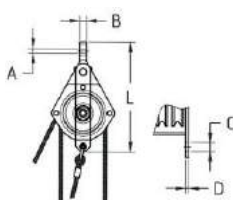


Multi-circle



For rapid lifting, pulling, tensioning
Design : Galvanised compact sheet steel construction
Three rolls in each block .
Guide and eyelet for nylon rope attachment
Rope as required 20m/30m/40m
Tested multicorner load 4x multiples

	Weight	Length	Ø Nylon rope /m	Capacity
L74/300/20	3100 g	590 mm	10 mm/20 m	300 kg
L74/300/30	3100 g	590	mm10 mm/30 m	300 kg
L74/300/40	3100 g	590	mm10 mm/40 m	300 kg
L74/500/30	8100 g	790	mm16 mm/30 m	500 kg
L74/500/40	8100 g	790	mm16 mm/40 m	500 kg



For lifting, pulling, tensioning overhead lines during construction
Design : Galvanised compact sheet steel construction
on ball bearings
Hitching ; shackle
Wire rope as required 9-12 mm



	Number of	Diameter of discs	Ø Rop	L	A	B	C	D	Weight
028/2/25	2	160	9 mm	380	22	22	11	10	25 kg
028/2/30	2	180	9 mm	370	22	22	11	10	30 kg
028/3/35	3	160	9 mm	450	25	22	11	10	35 kg
028/3/45	3	180	9 mm	410	25	22	11	10	45 kg
028/4/70	4	180	9 mm	440	26	22	22	12	70 kg
028/5/100	5	208	12 mm	500	35	26	22	12	100 kg

Tirvit™

Wire and cable tensioning device



Wire and wire rope tensioning device
Lightweight, compact and easy to carry For tensioning:
Electrical and telephone lines, fencing, lashings and loose ropes
To be drawn in:
Caravans, vehicles that get stuck, light machinery, trailer loads, boats on dry land or trailers
For pulling out
Stakes, brushwood, trees and shrubs

	Ø rope/m	Breaking load	Load capacity	Weight
L7/400	2.0 -8.0 mm	4000 kg	400 kg	4.0 kg
L7/600	7.0 -15.0 mm	8000 kg	600 kg	5.2 kg
L7/800	14.0 -18.0 mm	16000 kg	800 kg	6.2 kg



400 series cable tensioning clamps model 04



Tensioning clamps **400/04** series
Aluminium cable clamps (frog)
A.C.S.R , copper and steel
Made of high-quality alloy steel
Tensile resistant , heat treated, and galvanised

Full range of interchangeable inserts.
Working range 30.0 mm to 45.0 mm.
Working force 55.0 kN
Maximum safe load 117 kN



Minimum breakingload 285.0 kN
Weight 17.0 kg
Exchangeable jaws for AFL , Al. , Cu , wire rope

(on the next page)

Jaw working length 282 mm

400 series cable tensioning clamps model 05



Tensioning clamps **400/05** series
Handles (frog) for aluminium A.C.S.R , copper and steel wires
Made of high-quality alloy steel
Tensile resistant , heat treated, and galvanised Full range of interchangeable inserts.
Working range 18 mm to 32 mm
Working force 47.0 kN.
Maximum safe load 88.0 kN

Minimum breaking load 235.0 kN
Weight 13.5 kg
Exchangeable jaws for AFL , Al. , Cu , wire rope

(on the next page)

Jaw working length 278 mm

400 series cable tensioning clamps model 07



Tensioning clamps series **400/07**
Handles (frog) for aluminium A.C.S.R , copper and steel wires
Made of high-quality alloy steel
Tensile strength, heat-treated and galvanised Full range of interchangeable inserts.
Working range 8 mm to 24.5 mm.
Working force 30.0 kN.
Maximum safe load 49.0 kN

Minimum breaking load 150.0 kN
Weight 7.0 kg
Exchangeable jaws for AFL , Al. , Cu , wire rope

(on the next page)

Jaw working length 172 mm



Replaceable
inserts for
aluminium cables



Working range (mm) min - max		AFL (ACSR)	400/04	400/05	400/07
6,0	6,5				
6,5	8,0	6-25			
8,0	9,5	6-35			410-07-03
9,5	11,0	6-50			410-07-04
11,0	12,5	6-70			410-07-05
12,0	13,5				
12,5	14,0	6-95			410-07-06
13,5	15,0	6-95			
14,0	15,5				410-07-07
15,0	16,5	6-120			
15,5	17,0	6-120			410-07-08
16,5	18,0	6-150			
17,0	18,5	6-150			410-07-09
18,0	19,5	6-185		410-05-05	
18,5	20,0	6-185			410-07-10
19,5	21,0			410-05-06	
20,0	21,5				410-07-11
21,0	22,5	6-240		410-05-07	
21,5	23,0	6-240			410-07-12
22,5	24,0			410-05-08	
24,0	25,5	6-300		410-05-09	
25,5	27,0	8-350		410-05-10	
27,0	28,5	8-400		410-05-11	
28,5	30,0			410-05-12	
30,0	31,5	8-525	410-04-13	410-05-13	
31,5	33,0	8-525	410-04-14	410-05-14	
33,0	34,5		410-04-15		
34,5	36,0		410-04-16		
36,0	37,5		410-04-17		
37,5	39,0		410-04-18		
39,0	40,5		410-04-19		
41,0	45,0		special execution		

* inserts for handle 400/04 for
copper ropes from 25.5-39.0
mm on request

* inserts for handle 400/05 for
copper ropes from 13.5-32.0
mm on request

* inserts for handle 400/07 for
copper ropes from 8.0-15.5
mm on request

Cable tensioning clamps for non-insulated cables



Cable tensioning clamps for non-insulated overhead lines
The chuck has jaws with a clamping system specially designed for pulling
Al..AFL cables and wires, The chuck range is characterised by its very low
weight

Symbol	Working load	Cable		maxAFL	Max working range	Weight
		AAL max				
L30	10 kN	95	mm ²	6-95	14 mm	1.05 kg
L31	15 kN	150	mm ²	6-150	18 mm	1.40 kg
L32	25 kN	240	mm ²	6-240	24 mm	2.90 kg
L33	40 kN	525	mm ²	8-525	32 mm	4.00 kg
L34	50 kN	675	mm ²	8-675	37 mm	6.70 kg
L35	70 kN	675	mm ²	8-675	40 mm	10.0 kg



Cleaning and maintenance kit KA403-S00 consisting of:
N°1 Spray graphite
N°1 solvent spray cleaner N°1 abrasive cloth
Cleaning cloth No. 1

Model 403

A.C.S.R aluminium cable clamps ,
Made of high-quality alloy steel
tensile strength, heat-treated and galvanised

Model 403/01

Complete with 14 mm x 900 mm diameter steel sling, rear U-protection
as standard saddle, suitable for
Insertion range 9.0-24.5 mm Operating
force (WL) 26 kN (ratio 5:1) Breaking force (BL) 130 kN
Weight 4.5 kg
Weight of interchangeable jaws 2.0 kg

Range operation (mm) min (mm) max		jaw model	
9,0	10,7	AFL (ACSR)	413-01-10
10,8	12,5	AFL (ACSR)	413-01-12
12,6	14,3	AFL (ACSR)	413-01-14
14,4	16,1	AFL (ACSR)	413-01-16
16,2	18,2	AFL (ACSR)	413-01-18
18,3	20,4	AFL (ACSR)	413-01-20
20,5	22,5	AFL (ACSR)	413-01-22
22,6	24,5	AFL (ACSR)	413-01-24

Model 403/02

Complete with 16mm x 1100mm diameter steel sling with rear U-
protection as standard
saddle, suitable for
Insertion range 18.3-32 mm Operating force
(WL) 45 kN (ratio 5:1) Breaking force (BL) 225 kN
Weight 7.0 kg
Weight of interchangeable jaws 2.5kg

Range operation (mm) min (mm) max		jaw model	
18,3	20,4	AFL (ACSR)	413-02-20
20,5	22,5	AFL (ACSR)	413-02-22
22,6	24,5	AFL (ACSR)	413-02-24
24,5	26,9	AFL (ACSR)	413-02-27
27,0	29,4	AFL (ACSR)	413-02-29
29,5	32,0	AFL (ACSR)	413-02-32

Model 403 model 03

Complete with 20mm x 1400mm diameter steel sling with rear U-
protection as standard
Interchangeable insertion range 24.5-38.5
mm Operating force (WL) 55 kN (ratio 5:1)
Breaking force (BL) 275 kN
Weight 11.5 kg
Weight of interchangeable jaws 3.0 kg

Range operation (mm) min (mm) max		jaw model	
24,5	26,9	AFL (ACSR)	413-03-27
27,0	29,4	AFL (ACSR)	413-03-30
29,5	32,0	AFL (ACSR)	413-03-31
30,1	32,0	AFL (ACSR)	413-03-32
32,1	34,0	AFL (ACSR)	413-03-34
34,1	36,2	AFL (ACSR)	413-03-36
36,3	38,5	AFL (ACSR)	413-03-38



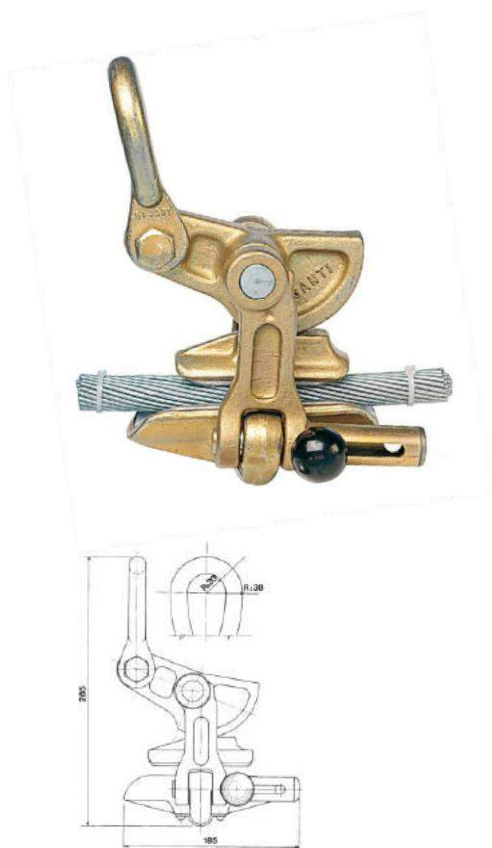
Cable tensioning clamps 400/11 series



Tensioning clamps 400/11 series
Handles (frog) for aluminium conductors A.C.S.R ,
copper wires Made of high-quality alloy steel
Tensile resistant, heat treated, and galvanised
Full range of interchangeable inserts.
Working range 7 mm to 16
mm. Working force 12.8 kN
Safe maximum load 21.2 kN
Minimum breaking load 64 kN
Weight 2.5 kg
Exchangeable jaws for AFL wire , Al , Cu , copper wires

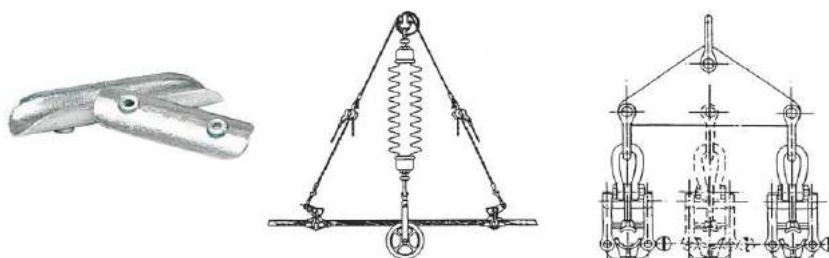
Working range (mm)	Working range (mm) min max	(ACSR)	AFL cables aluminium	Wires copper	Wire copper
7,0	8,5	6-35	410-11-01	410-11-R01	
8,5	10,0	6-50	410-11-02	410-11-R02	
10,0	11,5	6-70	410-11-03	410-11-R03	
11,5	13,0		410-11-04	410-11-R04	
13,0	14,5	6-95	410-11-05	410-11-R05	
14,5	16,0	6-120	410-11-06	410-11-R06	
8,0					410-11-A07
9,0					410-11-A08
10,0					410-11-A09
13,0					410-11-A10

Cable tensioning clamps series 400/08



Tensioning bracket L08 series
Lifting clamps (frog) for overhead lines Made of high-grade alloy steel
Tensile resistant , heat treated, and galvanised
Full range of interchangeable inserts.
Working range 7.0 mm to 38.0 mm.
Working force 19.6 kN
Maximum safe load 39.2 kN
Minimum breaking load 110 kN
Weight 5.5 kg

Working range (mm)	Working range (mm) min max	Jaw symbol wire Al.
7,0	11,0	L08/7
9,0	12,0	L08/9
12,0	16,0	L08/12
15,0	23,0	L08/15
22,0	36,0	L08/22
30,0	38,0	L08/30





Clamps for tensioning non-insulated wires and steel cables



Grips used for gripping non-insulated conductors during the tensioning of the main overhead line . The handle has jaws with a clamping system specially designed for pulling non-insulated lines. The handle is characterised by a very low weight and has a safety latch which prevents the cable from slipping out during the pulling process.

Symbol	Mesh size	Working load	AFL 6	AL..	AAL	Cu rope	Working range		Weight
			min	max			min	max	
L90	37x23 mm	1000 kg (9.8 kN)	16-120	16-120	16-95	95-120	2,6	15,0	0.7 kg
L91	42x24 mm	2000 kg (19.6 kN)	16-240	16-240	16-240	95-150	4,0	22,0	1.3 kg
L93	50x30 mm	3000 kg (29.4 kN)	120-525		120-525		16,0	32,0	2.3 kg

Insulated cable tensioning clamps



Grips used to grip insulated cables and wires during tensioning
The chuck has jaws with a clamping system specially designed for pulling through cables and wires in insulation Dedicated chucks for PAS , GREENPAS ADSS , EXCEL , AXCES The range of chucks is characterised by its very low weight

Symbol	Working load	Working range		Weight
		min	max	
L20/1	10 kN	10,0	14,0	1.4 kg
L20/2	15 kN	14,0	20,0	3.0 kg
L20/3	20 kN	20,0	25,0	4.0 kg
L20/4	25 kN	25,0	32,0	4.0 kg

Insulated cable tensioning clamps



Handles used for gripping insulated cables during the pulling of the main overhead line . The clamp has jaws with a clamping system specially designed for pulling insulated lines (corrugated) . The range of handles is characterised by very low weight

Symbol	AsXS 0,6/1 kV insulated conductor	Mesh size	Working load	Working range mm		Weight
				min	max	
L50	4x16-35	27x40 mm	500 kg	8,0	25,0	0.9 kg
L51	4x16-70	30x45 mm	1200 kg	16,0	34,0	2.1 kg
L52	4x50-120	30x45 mm	1800 kg	28,0	45,0	3.1 kg



Anti-twist wire rope tensoning handle



Handle for tensoning anti-twist pilot wire in the construction of high-voltage overhead lines Features high load rating of the gripping jaws

Symbol	Load working	Max working range	Weight
L36	30 kN	9-11 mm	4.6 kg
L37	50 kN	11-15 mm	6.5 kg
L38	70 kN	16-18 mm	8.5 kg
L39	120 kN	19-24 mm	13.6 kg

OPGW cable tensoning chuck with fixed jaws



Handle for tensoning OPGW wires during construction of overhead lines
Handle with fixed jaws in the specified working ranges

Symbol	Load working	Max working range	Weight
L46	16 SC	11-15 mm	5,0
L47	30 kN	16-18 mm	5,5
L48	60 kN	20-24 mm	10,0

OPGW cable tensoning clamps with replaceable inserts



Handle for tensoning OPGW cables during the construction of overhead lines Handle with interchangeable inserts to match cable diameters Full range of interchangeable inserts.

Symbol	Burden working/safe/breakdown	Max. working range (inserts)	Weight
400/12	30 kN / 49 kN / 150 kN	6-23 mm	7,0

Working range (mm)	min	max	Cable	Symbol
6,0	7,0		OPGW	410-12-06
7,0	8,0		OPGW	410-12-07
8,0	9,0		OPGW	410-12-08
9,0	10,0		OPGW	410-12-09
10,0	11,0		OPGW	410-12-10
11,0	12,0		OPGW	410-12-11
12,0	13,0		OPGW	410-12-12
13,0	14,0		OPGW	410-12-13
14,0	15,0		OPGW	410-12-14
15,0	16,0		OPGW	410-12-15
16,0	17,0		OPGW	410-12-16
17,0	18,0		OPGW	410-12-17
18,0	19,0		OPGW	410-12-18
19,0	20,0		OPGW	410-12-19
20,0	21,0		OPGW	410-12-20
21,0	22,0		OPGW	410-12-21
22,0	23,0		OPGW	410-12-22

* Upper jaw made of Adiprene lower jaw made of aluminium.

** All jaws made for a specific rope diameter in the above mentioned range Jaw working length 172 mm



Cable tensioning clamps series 400/06



Tensioning bracket series 400/06
Handles (frog) for copper and steel wires
Made of high-grade alloy steel
Tensile resistant, heat treated, and galvanised
Full range of interchangeable inserts.
Working range 7.5 mm to 18.0 mm.
Working load 25.0 kN
Maximum safe load 50 kN
Minimum breaking load 125 kN
Weight 7 kg

Clamps for tensioning non-insulated Cu-wires and steel cables



Grips used for gripping non-insulated Cu-wires during the pulling of Cu-wires or wire ropes Grips have jaws with a clamping system specially designed for pulling Cu-wires
The range of handles is characterised by very low weight

Symbol	Mesh size	Working load	L (Cu rope)	Range working min max	Weight
L54/1	20x20 mm	500 kg (4.9 kN)		1,0 5,0	0.3 kg
L54	27x27 mm	1700 kg (16.7 kN)	25-70	4,0 12,0	1.2 kg
L55	25x38 mm	3000 kg (29.4 kN)	25-150	6,0 18,0	1.8 kg
L56	30x40 mm	3500 kg (34.3 kN)	70-150	10,0 28,0	3.8 kg
L56/1	30x40 mm	4000 kg (39.2 kN)		20,0 40,0	6.2 kg

Handles for tensioning non-insulated Al/St wires

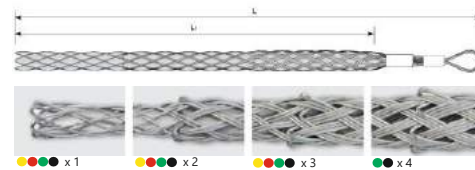


Grips used for gripping non-insulated conductors during the tensioning of Al/AFL main overhead line and steel cables
The chuck has jaws with a clamping system specially designed for pulling Al...AFL cables and wires , The chuck range is characterised by its very low weight

Symbol	Mesh size	Working load	AFL 6	AL...	AAL	Working range mm min max	Weight
L57/1	22x22 mm	1000 kg (9.8 kN)	16-35	25-35	16-35	5,4 8,5	0.8 kg
L57	27x27 mm	1700 kg (16.7 kN)	16-70	16-70	16-70	5,0 12,0	1.2 kg
L58	25x38 mm	3000 kg (29.4 kN)	35-150	50-185	35-150	8,0 18,0	1.8 kg
L59	30x40 mm	3500 kg (34.3 kN)	120-300	150-300	120-400	15,0 28,0	3.6 kg
L59/1	30x40 mm	4000 kg (39.2 kN)	*350-675		240-675	20,0 40,0	6.2 kg



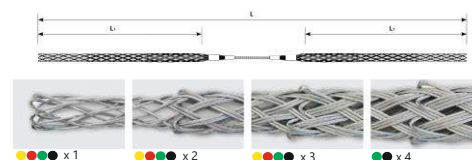
Stockings for pulling wires in overhead lines



Stocking for overhead line work Characterised by high tensile strength with ideal wire rope weave parameters
 Colour coding of the stockings facilitates precise selection of the stocking on site
 Special version R - reinforced for breaking load

End stocking in overhead lines

Symbol	Ø rop	number	L1		Working range mm	Breaking force		
CTT 00	1,2-1, 2-1, 5	5	1100	1400	8-17	35	0,70	
CTT 00 R	1,5-1,5-2, 0	5	1100	1400	8-17	50	0,90	
CTT 01	2, 0-2, 0-2, 0	5	1360	1700	17-29	85	1,30	
CTT 01 R	2, 0-2, 5-2, 5	5	1360	1700	17-29	100	1,50	
CTT 02	2, 0-2, 0-2, 0-2, 0	6	1470	1900	29-38	130	2,10	
CTT 02 R	2, 0-2, 5-3, 2	6	1470	1900	29-38	150	2,50	
CTT 03	2, 0-2, 5-2, 5-2, 5	6	1820	2270	38-50	180	2,70	
CTT 03 R	3, 0-3, 0-3, 2	6	1820	2270	38-50	210	3,00	



Stocking for overhead line work Characterised by high tensile strength with ideal wire rope weave parameters
 Colour coding of the stockings facilitates precise selection of the stocking on site
 Special version R - reinforced for breaking load

Overhead line stocking

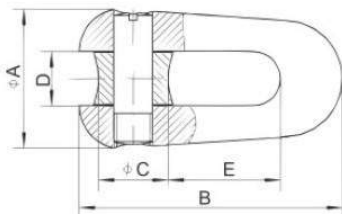
Symbol	Ø rope number	of ropes	L1	L	Working range mm	Breaking force	Weight kg
CTG 00	1,2-1, 2-1, 5	5	1100	2680	8-17	35	1,15
CTG 00 R	1,5-1,5-2, 0	5	1100	2680	8-17	50	1,25
CTG 01	2, 0-2, 0-2, 0	5	1360	3240	17-29	85	2,30
CTG 01 R	2, 0-2, 5-2, 5	5	1360	3240	17-29	100	2,50
CTG 02	2, 0-2, 0-2, 0-2, 0	6	1470	3540	29-38	130	3,60
CTG 02 R	2, 0-2, 5-3, 2	6	1470	3540	29-38	150	3,80
CTG 03	2, 0-2, 5-2, 5-2, 5	6	1820	4240	38-50	180	4,80
CTG 03 R	3, 0-3, 0-3, 2	6	1820	4240	38-50	210	5,00



U-joints

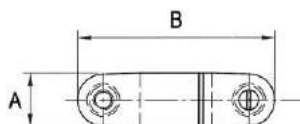


U-joint
Made from high-strength steel and suitable for pilot wire.



Symbol	A	B	C	D	E	Operating force kN	Breaking force	Kg
L03/1	36	68	18	14	29	10,0	30,0	0,2
L03/3	37	76	20	17	31	30,0	120,0	0,2
L03/5	50	96	23	19	42	50,0	150,0	0,6
L03/8	56	110	28	22	50	80,0	240,0	0,8

Fixed swivel



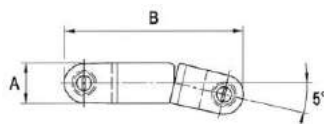
Fixed swivel
Made from high tensile strength, galvanised steel, suitable for use as a connection element between rope and wire or cable, in order to avoid the build-up of torsional stresses, rotation on the balls.



Symbol	A	B	C	D	E	Workforce kN	Breaking load kN	Kg
	1,5	60	35	9	7	5,0	15,0	0,1
	30	100	70	12	13	10,0	30,0	0,4
	37	129	95	16	16	30,0	90,0	0,6
	42	154	116	18	17	50,0	150,0	1,5
	57	220	165	24	22	80,0	240,0	2,4

Symbol	A	B	D	Working force kN	Breaking force kN	
250 AR	32	120	15	17	26,7	80,0
250 BCR	45	170	19	22	60,0	180,0
250 DR	60	220	24	24	120,0	360,0
250 ER	77	330	28	28	250,0	750,0

Movable swivel



Movable swivel
Made from high tensile strength, galvanised steel, suitable for use as a connection element between rope and wire or cable, to avoid accumulation of torsional stresses, rotation on balls. The movable version is suitable for passing through winches

Symbol	A	B	Rope	Breaking force daN	Kg
250	20	62,0	6,0	2500	0,1
250 A	32	125,0	10,0	6000	0,5
250 B	45	195,0	15,0	12000	1,4



Anti-twist steel cable



Galvanised steel wire rope,
untwisted, 12 strand model 1000 Dedicated
lengths wrapped on steel spools

It is used as a pilot or hauling rope in overhead
or cable lines

Symbol	Ø mm	Weaves	Diameter (mm)	Rope weight kg/m	Operating force kN	Standard length (m.)
21.12.08	8,0	12	2,0	0,22	13,1	1000
21.12.09	9,0	12	2,5	0,25	16,3	1000
21.12.10	10,0	12	3,0	0,40	24,0	1000
21.12.11	11,0	12	3,5	0,42	28,0	1000
21.12.13	13,0	12	4,0	0,48	35,0	1000
21.12.16	16,0	12	4,5	0,76	53,3	1000
21.12.18	18,0	12	4,8	1,01	70,6	1000
21.12.20	20,0	12	5,0	1,24	88,3	1000
21.12.22	22,0	12	5,5	1,51	106,6	900
21.12.24	24,0	12	6,0	1,77	125,0	800
21.12.28	28,0	12	6,5	2,41	159,6	600

Dielectric polypropylene rope



Dielectric polypropylene rope

12 strands of monofilament with high tensile strength.
It is a great rope for applications that require maximum
insulation properties

It is produced from 10 mm to 28 mm.

Features: waterproof, flammable, good flexibility

Good UV resistance,

Poor abrasion resistance, Colour: yellow or red

Certifications: Manufactured in accordance with IEC62192
Approved form EDF (France) ref ST-HTB-71B-2 Note: It is
recommended that the rope is clean and dry to ensure the
highest dielectric properties. If the material is not used in
good condition, the manufacturer will not provide the
highest dielectric protection

Symbol	Ø mm	Rope weight g/m	Breaking force kN	Standard length (m.)
23.10	10,0	45,0	14,34	1000
23.12	12,0	65,0	20,76	1000
23.14	14,0	88,0	28,38	1000
23.16	16,0	115,0	37,21	1000
23.18	18,0	145,0	47,26	1000
23.20	20,0	180,0	58,53	800
23.22	22,0	217,0	71,02	800
23.24	24,0	259,0	84,74	800



DYNEEMA synthetic pilot line



DYNEEMA braided synthetic ropes

Dyneema is the trade name for ultra high molecular weight polyethylene (UHMWPE).

Ropes made of Dyneema (comparing by weight) are 15 times stronger than steel rope It is used as pilot or hauling rope in overhead or cable lines



Other dimensions available 2.0-3.0-3.5-4.0-4.5-5.0 Available on reels 850-1100-1250-1400-1600

Symbol	Diameter Ø mm	Breaking force kN	rope density g/m	rope elongation at 30% load	length (m.) standard
4306	6,0	31,9	20,0	1,5%	1000 m.
4308	8,0	58,8	35,0	1,5%	1000 m.
4310	10,0	92,5	56,0	1,5%	1000 m.
4311	11,0	115,0	70,0	1,5%	1000 m.
4312	12,0	137,0	84,0	1,5%	1000 m.
4313	13,0	159,0	98,0	1,5%	1000 m.
4314	14,0	180,0	106,0	1,5%	1000 m.
4316	16,0	211,0	132,0	1,5%	1000 m.
4318	18,0	296,0	186,0	1,5%	1000 m.

DuPont pilot line



Dupont silk fibre material .

PE rope is specially spliced from double-layered polyester fibre with high strength, anti-twist and light weight . It is used as a pilot or hauling rope in overhead or cable lines



Other dimensions available 3.5-4.0-5.0-6.0-8.0 Available on reels 850-1100-1250-1400-1600

Symbol	Diameter Ø mm	Breaking force kN	rope density g/m	rope elongation at 30% load	length (m.) standard
4410	10,0	30,0	80,0	2,0 %	1000 m.
4410 B	10,0	30,0	80,0	2,0 %	1000 m.
4412	12,0	50,0	114,0	2,0 %	1000 m.
4412 B	12,0	50,0	114,0	2,0 %	1000 m.
4414	14,0	60,0	148,0	2,0 %	1000 m.
4414 B	14,0	60,0	148,0	2,0 %	1000 m.
4416	16,0	80,0	180,0	2,0 %	
4418	18,0	100,0	230,0	2,0 %	
4420	20,0	120,0	290,0	2,0 %	



Polypropylene rope



Polypropylene rope

Ropes specially spliced according to EN ISO 1346 Dyed in the raw material . UV stabilised . Resistant to chemical and organic substances and does not absorb water.

Delivery on work reels or bales depending on diameter

Symbol	Diameter (mm) Ø mm	Breaking force kN	Rope weight kg/m
1108	8,0	10,0	0,02
1110	10,0	15,0	0,04
1112	12,0	22,1	0,06
1114	14,0	28,0	0,08
1116	16,0	37,5	0,11
1118	18,0	45,0	0,14
1120	20,0	56,0	0,18

Hemp rope



Hemp rope

Characteristics:
made of high quality natural yarn weather resistant
abrasion resistant
uncoloured
fully ecological

Symbol	Diameter (mm) Ø mm	Breaking force kN	Rope weight g/m
1208	8,0	2,5	45
1210	10,0	3,8	67
1212	12,0	4,5	91
1214	14,0	5,6	124
1216	16,0	7,8	163
1218	18,0	8,9	206
1220	20,0	9,9	255

Polypropylene rope stand



Stand for polypropylene and hemp rope

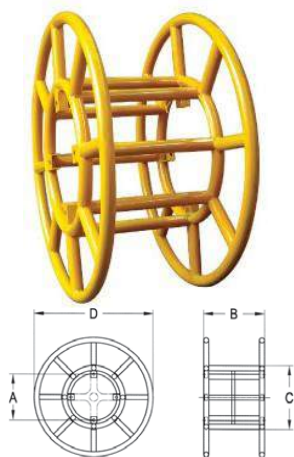
Suitable for winding and unwinding rope during operation
Ideal for use with winch winches .

Rack capacity

Model	12 mm	10 mm	weight
K129	500 m	700 m	745x793x350 21 kg



Steel cable reels

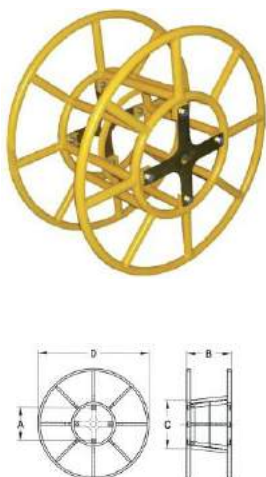


Model 062

Fixed steel spools for steel and nylon ropes suitable for mobile stands. The spools are made of welded steel covered with protective paint.

Symbol	A*	B*	C*	D*	Weight (kg)
062/1 SV	160	410	220	220	30
062/2	560	570	570	1100	60
062/3	560	570	570	1400	90
062/4	560	570	570	1900	135

Demountable steel cable reels



Model 063

Tapered steel spools - demountable for ropes suitable for mobile racks.

The spools are made of welded steel covered with protective paint.

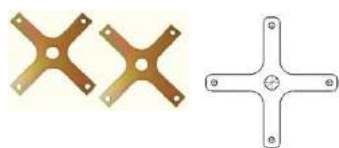
Optional - supplied complete with side fixing crosses 062/CP)

Symbol	A*	B*	C*	D*	Weight (kg)
063/1 SV1	270	524	209	630	27,0
063/2	720	560	610	1100	73,0
063/3	720	560	610	1400	88,0
063/4	720	560	610	1900	127,0

Selection of spools for rope diameters

Spool capacity in metres for standard pilot wire lengths

Symbol	6mm	7mm	8mm	9/10mm	11/12mm	13mm	14mm	16mm	18mm	20mm	22mm	24mm	26mm	28mm	30mm
062/1 SV1	1800	1500	1100	800	-	-	-	-	-	-	-	-	-	-	-
062/2 063/2	7200	6000	3200	2400	1600	1600	1100	900	-	-	-	-	-	-	-
062/3 063/3	14400	12000	6400	3600	2400	2400	2200	1800	1200	1000	900	800	-	-	-
062/4	21600	18000	9600	7200	7200	4800	4400	3600	2400	2000	1800	1600	1400	1200	1060



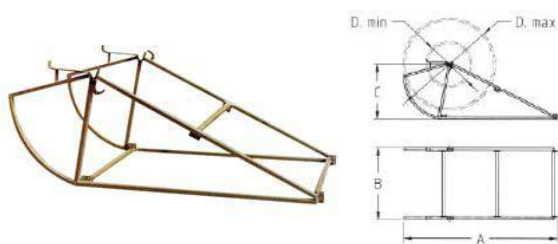
Side fixing crosses 062/CP



Square side adapters 062/CPA Can be used with spool stacking racks Ct40....



Steel spool rack



Model 061

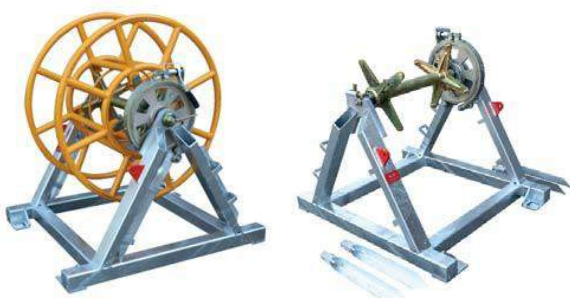
Cradle-type bobbin stand
Stand frame made of galvanised steel ,
removable type for standard reels.



Model 061/...FR
Stands equipped with a disc brake.

Symbol	A*	B*	C*	D min*	D max	Payload	Weight (kg)
061/1	2320	900	835	700	1400	2000 daN	65
061/4	3120	960	1150	-	1900	2600 daN	145
061/1 FR	2320	900	835	700	1400	2000 daN	103
061/1 FR	3120	960	1150	-	1900	2600 daN	183

Steel spool rack



Model 041 FR

Pilot line spool stand equipped with mechanical disc brake
for steering and anchor stakes.
Frame made of galvanised steel .
Designed for standard steel bobbins 062 063

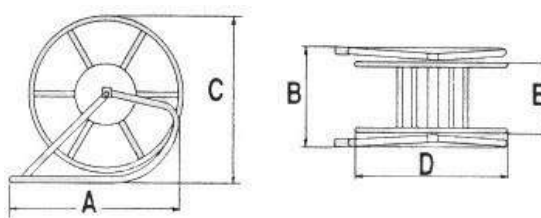
Maximum spool diameter :1400mm Maximum
load capacity: 2000 Kg
Weight : 190 Kg

Steel spool rack



Model 060

Cradle-type pilot line reel stand
Stand frame made of welded steel with protective paint.



Symbol	A*	B*	C*	D*	E	Rope length (m.)		Weight (kg)
						8 mm	12 mm	
060/1	700	500	530	450	420	700		20
060/2	790	465	800	700	350	1200	560	27
060/3	970	570	1000	900	450	2500	1100	50



Thermometer



Model TE/900

Thermometer for measuring the temperature of cables. Measurement is carried out through an aluminium tube which surrounds the surface and shape of the cable.

Measurement in degrees °C from -30 °C to +60 °C

Weight 0.5 to 1 kg

* to match the thermometer to the appropriate cable, please specify the cable diameter when ordering
e.g. TE900/21.3 (for AFL 6-240)

Thermometer



Model TE/901

As above only with an indicator thermometer

* to match the thermometer to the appropriate cable, please specify the cable diameter when ordering
e.g. TE901/21.3 (for AFL 6-240)

Cable length counter



Model CO 04

Cable length counter

For measuring the length of the cable during retraction (tensioning)

Weight 3.5 kg

Grounding device



Model MT 400

Mobile earthing device

Suitable for discharging electrical energy on the wire during tensioning

3 aluminium blocks mounted on ball bearings with conductive segment to prevent electrical discharge, with pressure spring, for easier clamping on the cable. Supplied in flexible hose (6 m, 50 mm² per section)

Complete earthing clamps in bronze

Weight: 8.5 Kg



Apparatus for measuring cable cut



SAG 400 model

Apparatus for measuring deflection (vision) on 400 kV poles
4x40 single telescope, designed to adjust conductors in overhead lines using the slope observation method.
In a plastic case

Apparatus for measuring cable cut



SAG 900 model

Apparatus for measuring deflection (vision) on 400 kV poles
designed to adjust conductors in overhead lines using the slope observation method.
In a plastic case

Steel strap tensioner



Model L87

Used for tensioning and shearing of steel straps main application on spandrel poles or poles that do not have holes for standard hook bolts

Tape working range: 9-20 mm
Tensioning force 1050 daN
Max. thickness of steel strip 1.2 mm Application:
Steel and stainless steel strips Length: approx. 280 mm
Cutting distance "on fastener" 24 mm
Weight of the tensioner: 2.9 kg
Pull handles: Swivel and removable

Model L88

Steel strip 20x0.7 mm Length 50 mb
Plastic box
Type 304 Type 304 material Nu4CrNi18-8 Austenitic
Tensile strength 750 n/mm

Model L89

Steel strap clamp Pack of 100 pcs.
For 20 mm tape
Type 304 - Material Nu4CrNi18-8 Austenitic



Digital dynamometers



The L81 series are electronic dynamometers with digital displays ideal for measuring small pulling and lifting forces. Using strain sensors The L81 is ideal for use between hook and sling. These devices operate correctly in any position giving an accurate measurement reading.

Model	measuring range	min indication	weight
L81/20	20.0 kg	0.05 kg	0.75 kg
L81/50	50.0 kg	0.1 kg	0.93 kg
L81/100	100.0 kg	0.2 kg	1.44 kg
L81/200	200.0 kg	0.4 kg	3.22 kg

Digital dynamometers



The L82 series are electronic dynamometers with digital displays ideal for measuring pulling and lifting forces. Using strain sensors, the L82 is ideal for use between hook and sling. These devices operate correctly in any position giving an accurate measurement reading.

Model	measuring range	min indication	scale	
L82/1000	1000 kg	3.0 kg	1.0 kg	0.75 kg
L82/3200	3200 kg	9.6 kg	5.0 kg	0.93 kg
L82/6300	6300 kg	18.9 kg	10.0 kg	1.44 kg
L82/12500	12500 kg	37.5 kg	20.0 kg	3.22 kg
L82/20000	20000 kg	60.0 kg	50.0 kg	4.95 kg

Digital dynamometers with possibility of additional display connection



The L83 series are electronic dynamometers with digital displays ideal for measuring pulling and lifting forces. Instrument with optional wireless portable display
Optional device for remote, wireless reading of LLX1 dynamometer readings from a distance up to 40 metres .
Display of various units: kg, T, daN kN, lbs Integrated LCD display 18 mm
It has basic functions such as tare, peak load and advanced functions:

Model	measuring range	min indication	scale
L83/500	500 kg	1.0 kg	0.5 kg
L83/1000	1000 kg	2.0 kg	1.0 kg
L83/2000	2000 kg	4.0 kg	2.0 kg
L83/3200	3200 kg	6.0 kg	2.0 kg
L83/5000	5000 kg	10.0 kg	5.0 kg
L83/6300	6300 kg	13.0 kg	5.0 kg
L83/12500	12 500 kg	25.0 kg	10.0 kg
L83	wireless display		

- Adjustable dynamic effects filter.
- Adjustable automatic switch-off function.
- Adjustable limit value



ELSEC protective gloves



ELSEC electro-insulating protective gloves are designed for use for electrical purposes only, as basic personal protective equipment for work at voltages up to 1 kV or as additional protective equipment at voltages above 1 kV.

CHARACTERISTICS

ELSEC electro-insulation protective gloves are five-finger gloves of anatomical shape, manufactured from high-quality natural rubber latex on an automated production line. Each glove has its own individual number and is electrically tested on a computer-controlled measuring station. The ergonomic shape and flexibility of the glove allows it to work freely with sweat pads and protective leather gloves.



Symbol	Test voltage kV Rms	Max rms rms value	Voltage mA leakage kV	Dimensi
ELSEC 2.5	2.5 kV	12 mA	5 kV	8-9-10-11-12
ELSEC 5	5 kV	12 mA	10 kV	8-9-10-11-12
ELSEC 10	10 kV	14 mA	20 kV	8-9-10-11-12
ELSEC 20	20 kV	16 mA	30 kV	8-9-10-11-12
ELSEC 30	30 kV	18 mA	40 kV	9-10-11-12

Options for ELSEC gloves

Cotton anti-sweat insole model **T594W208**

ELSEC S100 waterproof leather gloves model **S594S300**

Glove bag model **T596T100**

Electro-insulating pavement



Electrical insulating floor pavements in class 2 are designed for lining floors - to protect workers from electrical hazards - around electrical equipment with a maximum rated voltage of 17000 V - for AC voltage 25500 V - for DC voltage.

Electrical insulating mat 20 KV (dimension 0.75 x 0.75 m.) model **T5920000** Electrical insulating walkway 20 KV (2 m to 8 m length, 1.1 m width) model **T5921000**

ANTAMPER Class 20kV insulating rubber half boots



Footwear designed for work on electrical equipment

with a voltage of up to 20 kV, as additional protective equipment to protect the wearer from the flow of dangerous electric shock current through the human body, via the feet. This footwear reduces the risk of electric shock. It should be used as an overlay over footwear used at work. The electro-insulating rubber half-boots are a Category III PPE meeting the essential requirements according to Directive 89/686/EEC. The footwear also meets the requirements of criteria KOW/S-01/2015

Electrically insulating semi-boots 20 kV - ANTAMPER (size 4) model T5912100
Maximum operating voltage 17,000 V model T5912100

Electrically insulating 30 kV semi-boots - ANTIAMPER (size 4) model T5912200
Maximum operating voltage 26,500 V