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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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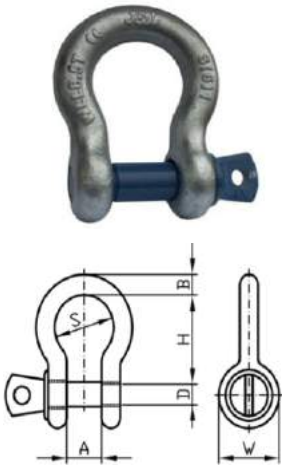
Reinforced round shackle

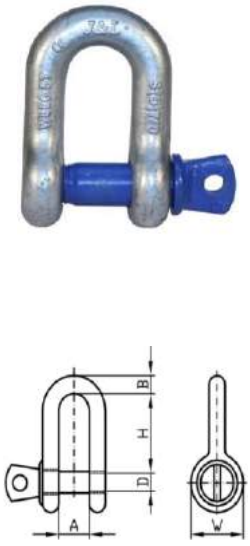
Manufactured in Class 6 in accordance with EN 13889.
Safety factor: 6:1.
The shackle and pin are made of high-tensile, tempered steel. Operating temperature range: -20°C÷200°C.
Zinc-plated shackle, pin protected against corrosion by blue powder coating. Marking: type, DOR, class, batch number, manufacturer's 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°C÷200°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

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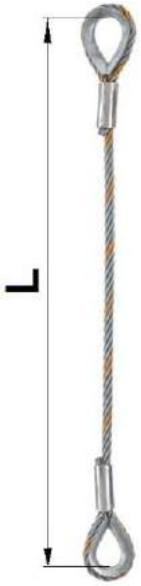
Cable slings with caoutchouc

Fulfils 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.

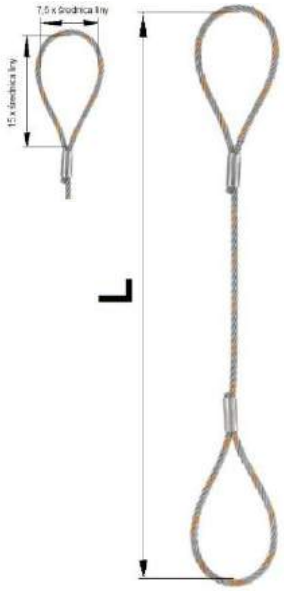


Symbol	Load [kg]	Rope [mm]	Possible lengths up to 1.0	1,5	2,0	producti i (mb) on 3.0	4.0	5,0
L100/08	**700**	8,0	●	●	●	●	●	●
L100/10	**1050**	10,0	●	●	●	●	●	●
L100/11	**1300**	11,0	●	●	●	●	●	●
L100/12	**1550**	12,0	●	●	●	●	●	●
L100/13	**1800**	13,0	●	●	●	●	●	●
L100/14	**2120**	14,0	●	●	●	●	●	●
L100/16	**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

Fulfils 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.

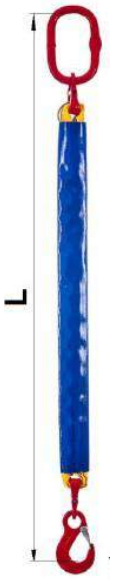


Symbol	Load [kg]	Rope [mm]	Possible lengths up to 1.0	1,5	2,0	producti i (mb) on 3.0	4.0	5,0
L101/08	**700**	8,0	●	●	●	●	●	●
L101/10	**1050**	10,0	●	●	●	●	●	●
L101/11	**1300**	11,0	●	●	●	●	●	●
L101/12	**1550**	12,0	●	●	●	●	●	●
L101/13	**1800**	13,0	●	●	●	●	●	●
L101/14	**2120**	14,0	●	●	●	●	●	●
L101/16	**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**
L100 - 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**	●	●	●	●	●	●
L102/1/10	**10000**	●	●	●	●	●	●

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] 1.0	1,5	2,0	product i (mb) on 3.(	4,0	5,0
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

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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 45°-60°[kg]	45°[kg]	Possible lengths for production (mb 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**	●	●	●	●	●	●
L102/3/1212	**000**	**16800**	●	●	●	●	●	●
L102/3/1515	**000**	**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 45°-60°[kg]	45°[kg]	Possible lengths for production (mb) 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**	●	●	●	●	●	●
L102/4/1212	**000**	**16800**	●	●	●	●	●	●
L102/4/1515	**000**	**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 1.0		1,5	2,0	i (mb) 4.0	5,0
		3,0					
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

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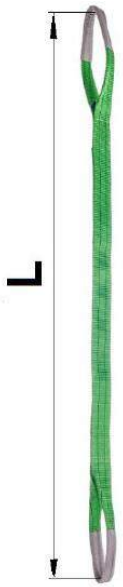
Double layer belt slings

• 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 1.0	1,5	3,0	2,0	i (mb) 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

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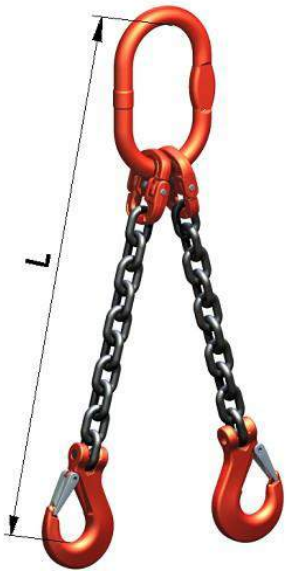
Symbol	Load Chain [kg]		Possible lengths for production (mb 1,0	1,5	2,0	3,0	4,0	5,0
L108/1/1,1	**1120**	6	●	●	●	●	●	●
L108/1/2,0	**2000**	8	●	●	●	●	●	●
L108/1/3,1	**3150**	10	●	●	●	●	●	●
L108/1/5,3	**5300**	13	●	●	●	●	●	●
L108/1/8,0	**8000**	16	●	●	●	●	●	●
L108/1/11	**11200**	19	●	●	●	●	●	●
L108/1/15	**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 45°-60°[kg]	45°[kg]	Possible lengths for production (mb 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**

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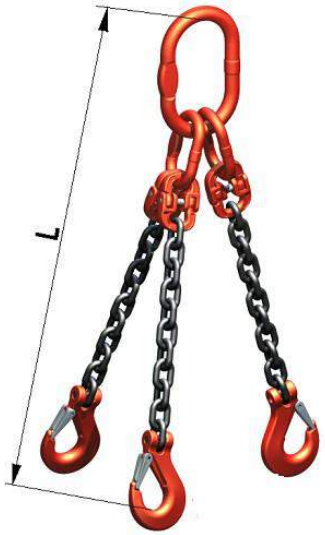
Three-legged chain slings

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 45°-60°[kg]	45°[kg]	Possible lengths for production (mb 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 45°-60°[kg]	45°[kg]	Possible lengths for production (mb 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

Tractel

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

Tractel

double click

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	Guard for 250-500kg hoists
L2/CLD 6	Guard for 750-1000kg hoists
L2/CLD 7-8	Guard for 1500kg hoists
L2/CLD 10	Guard for 3000-6000kg hoists

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Universal chain hoist

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

Yale® Handy	Weig	Capacit	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® PT series

Yale® PT series	Weight	Capacity	Number/jump ties	Length chain	Pitch chain
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	

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Universal chain hoist

YaleERGO 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

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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

	Ø rope/m	Load capacity	Weight without
Y05 ST	6.0 mm / 20 m	500 kg	6.0 kg
Y10 ST	8.4 mm / 20 m	1000 kg	8.4 kg
Y16 ST	11.5 mm / 20 m	1600 kg	15.8 kg
Y32 ST	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

	Ø rope/m	Load capacity	Weight
L95/1	8 mm/20 m	800 kg	6.0 kg
L95/2	11 mm/20 m	1600 kg	12.0 kg
L95/3	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

	Ø rope/m	Load capacity	Weight
T508	8.3 mm/20 m	800 kg	6.6 kg
T516	11.5 mm/20 m	1600 kg	13.5 kg
T532	16.3 mm/20 m	3200 kg	24.0 kg

Tractel®

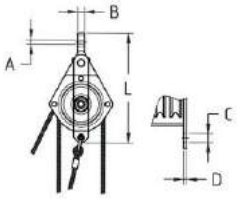
TIRFOR® TU series hoist
For lifting, pulling and positioning heavy loads
Unsurpassed in terms of durability and strength

	Ø rope/	Capacit	Weig
TU8	8.3 mm/20 m	800 kg	8.4 kg
TU16	11.5 mm/20 m	1600 kg	20.0 kg
TU32	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 c o n s t r u c t i o n on ball bearings
Hitching ; shackle
Wire rope as required 9-12 mm

	Number of	Diameter of discs	Ø Rop	L	A	B	C	D	Weigh
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, 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

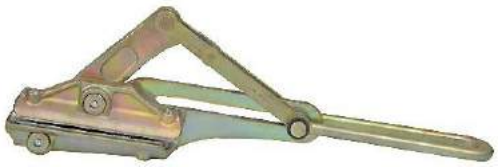
Full range of interchangeable inserts.
Working range 30.0 mm to 45.0 mm.
Working force 55.0 kN
Maximum safe load 117 kN

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	(mm)	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 AAL max	maxAFL	Max working range	Weight
L30	10 kN	95 mm2	6-95	14 mm	1.05 kg
L31	15 kN	150 mm2	6-150	18 mm	1.40 kg
L32	25 kN	240 mm2	6-240	24 mm	2.90 kg
L33	40 kN	525 mm2	8-525	32 mm	4,00 kg
L34	50 kN	675 mm2	8-675	37 mm	6.70 kg
L35	70 kN	675 mm2	8-675	40 mm	10.0 kg

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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

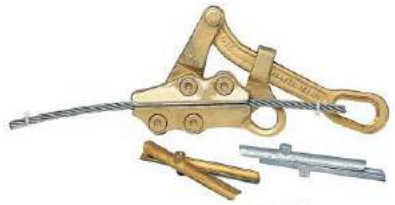
Model 403/02
Complete with 16mm x 1100mm diameter steel sling with rear U-protection as standard
saddle, suitable for
Insertion range 18.3-32 mm Operating force
(WL) 45 kN (ratio 5:1) Breaking force (BL) 225 kN
Weight 7.0 kg
Weight of interchangeable jaws 2.5kg

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

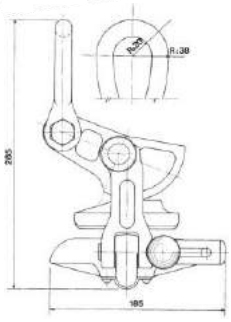
Cable tensioning clamps 400/11 series



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

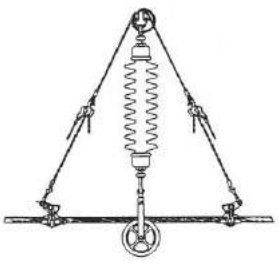
Working range (mm) min	max	(ACSR)	AFL cables aluminium	Wires copper	Wire copper
7,0	8,5	6-35	410-11-01	410-11-R01	
8,5	10,0	6-50	410-11-02	410-11-R02	
10,0	11,5	6-70	410-11-03	410-11-R03	
11,5	13,0		410-11-04	410-11-R04	
13,0	14,5	6-95	410-11-05	410-11-R05	
14,5	16,0	6-120	410-11-06	410-11-R06	
8,0	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

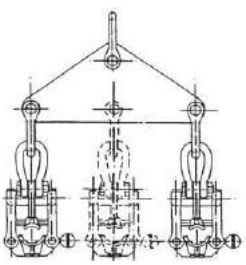
Cable tensioning clamps series 400/08



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) 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





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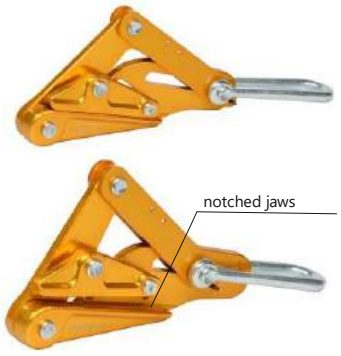
Clamps for tensioning non-insulated wires and steel cables

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 min	Working range max	Weight
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 min	Working range max	Weight
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 min	Working range mm max	Weight
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 tensioning handle

Handle for tensioning 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 tensioning chuck with fixed jaws

Handle for tensioning 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 tensioning clamps with replaceable inserts

Handle for tensioning 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

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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

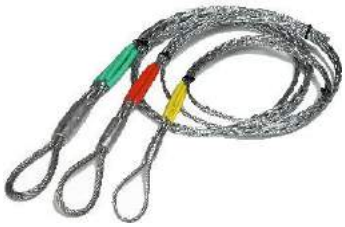
Symbol	Mesh size	Working load	L (Cu rope)	Range working min	max	Weight
L54/1	20x20 mm	500 kg (4.9 kN)		1,0	5,0	0.3 kg
L54	27x27 mm	1700 kg (16.7 kN)	25-70	4,0	12,0	1.2 kg
L55	25x38 mm	3000 kg (29.4 kN)	25-150	6,0	18,0	1.8 kg
L56	30x40 mm	3500 kg (34.3 kN)	70-150	10,0	28,0	3.8 kg
L56/1	30x40 mm	4000 kg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

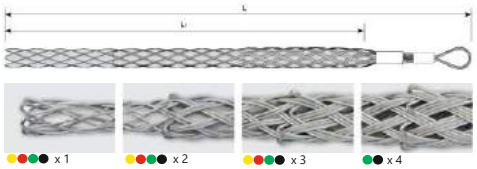
Handles for tensioning non-insulated Al/St wires

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

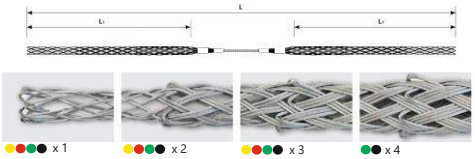




Stocking for overhead line work Characterised by high tensile strength with ideal wire rope weave parameters
Colour coding of the stockings facilitates precise selection of the stocking on site
Special version R - reinforced for breaking load

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

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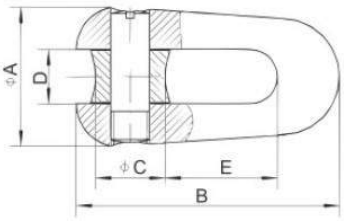
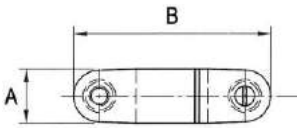
U-joints

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

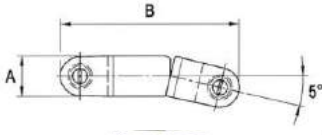


Fixed swivel
Made from high tensile strength, galvanised steel, suitable for use as a connection element between
rope and wire or cable , in order to avoid the build-up of torsional stresses, rotation on the balls.

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	0,5
250 BCR	45	170	**19**	22	**60,0**	180,0	1,2
250 DR	60	220	**24**	24	**120,0**	360,0	3,0
250 ER	77	330	**28**	28	**250,0**	750,0	8,2

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

12 18

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

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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

Dyneema®

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

DUPONT

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 .

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

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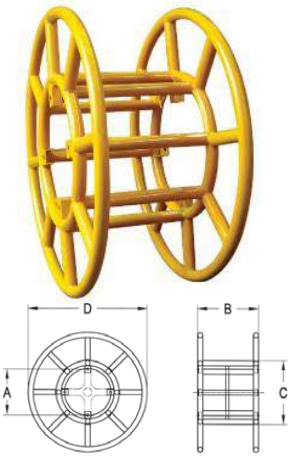
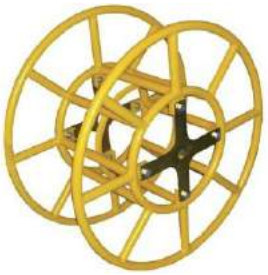
Steel cable reels

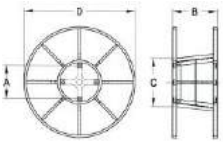


Model 062
Fixed steel spools for steel and nylon ropes suitable for mobile stands . The spools are made of welded steel covered with protective paint.

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.

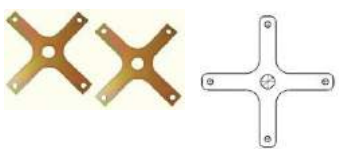
Optional - supplied complete with side fixing crosses 062/CP)

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....

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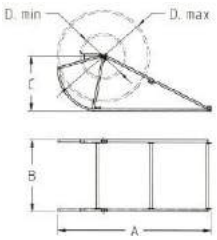
Steel spool rack



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.

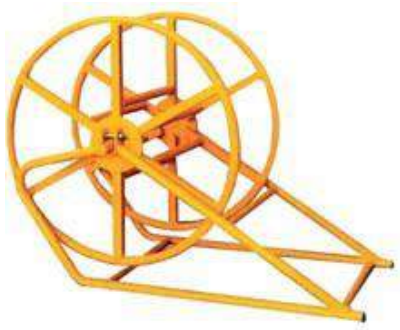
Symbol	A*	B*	C*	D min*	D max	Payload	Weight (kg)
061/1	2320	900	835	700	1400	2000 daN	65
061/4	3120	960	1150	-	1900	2600 daN	145
061/1 FR	2320	900	835	700	1400	2000 daN	103
061/1 FR	3120	960	1150	-	1900	2600 daN	183

Steel spool rack

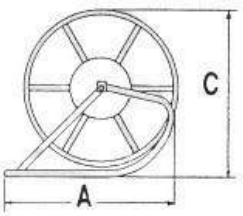
Model 041 FR
Pilot line spool stand equipped with mechanical disc brake for steering and anchor stakes.
Frame made of galvanised steel .
Designed for standard steel bobbins 062 063

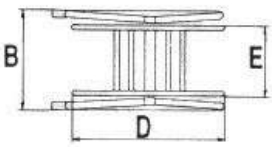
Maximum spool diameter :1400mm Maximum load capacity: 2000 Kg
Weight : 190 Kg

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.) 8 mm	Rope length (m.) 12 mm	Weight (kg)
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 ^{Co} from -30 ^{Co} +60 ^{Co}
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

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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
4x40 single telescope , 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.A

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	1.1 kg
L83/1000	1000 kg	2.0 kg	1.0 kg	1.1 kg
L83/2000	2000 kg	4.0 kg	2.0 kg	1.3 kg
L83/3200	3200 kg	6.0 kg	2.0 kg	1.5 kg
L83/5000	5000 kg	10.0 kg	5.0 kg	2.3 kg
L83/6300	6300 kg	13.0 kg	5.0 kg	2.3 kg
L83/12500	12 500 kg	25.0 kg	10.0 kg	4.3 kg
L83		wireless display		

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

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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

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25 LAT

Pulley blocks
Snatch Blocks

Pulley blocks
Mounting rollers for OPGW
Mounting rollers for AFL ducting
Helicopter rollers

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Single steel auxiliary roller

Steel auxiliary roller with hook Roller
material: steel

Frame made of galvanised steel with top fixing clip. Roller on ball bearings.

Symbol	Diameter max cable/rope [mm]	Material rolls	Load working kN	Weight (kg)
17036 H	12.5 mm	steel	**30**	6,5
17037 H	15.5 mm	steel	**50**	9,0
17038 H	18.5 mm	steel	**80**	14,4

Steel auxiliary roller with eyelet Roller material:
steel

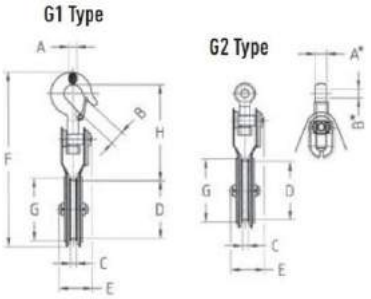
Frame made of galvanised steel with top fixing clip. Roller on ball bearings.

Symbol	Diameter max cable/rope [mm]	Material rolls	Load working kN	Weight (kg)
17036 O	12.5 mm	steel	**30**	6,5
17037 O	15.5 mm	steel	**50**	9,0
17038 O	18.5 mm	steel	**80**	14,4

Auxiliary roller aluminium

Model 020 AL
Aluminium roller

With hinged side-opening system , ball-bearing mounted aluminium roller, aluminium alloy frame, swivel hook model G1 (standard delivery) with safety lock.



Symbol	A	B	C	D	E	F	Working load kN	Breaking load kN	Weight (kg)
17106	108	40	15	20	17	28	**6,0**	**18,0**	1,6
17112	138	40	15	27	21	32	**12,0**	**36,0**	2,8

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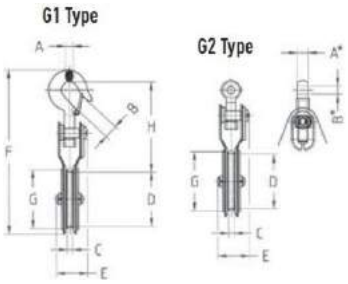
Auxiliary roller steel or nylon version

Model 020 Auxiliary roller

Swivelling , opening roller side with nylon / steel disc on ball bearings. Galvanised steel frame with latch and swivel fixing hook (performance standard)



Version with nylon wheels

Symbol	A	B	C	D	E	F	G	H	Working load kN	Weight (kg)
020/005N	16	20	18	102	72	305	120	160	**5**	1,6
020/010N	18	23	18	102	73	315	120	170	**10**	1,7
020/015N	18	25	20	102	75	330	120	180	**15**	2,0

* Standard design with swivel catch type "G1".

Version with steel wheels

Symbol	A	B	C	D	E	F	G	H	Working load kN	Weight (kg)
020/015A	18	25	20	105	75	340	120	180	**15**	3,4
020/020A	23	28	25	135	85	410	150	220	**20**	6,6
020/030A	30	34	25	135	90	440	150	240	**30**	7,2
020/050A	39	43	30	185	95	510	200	290	**50**	13,0
020/070A*	32	32	30	205	100	470	235	210	**70**	33,0
020/100A*	41	35	32	240	110	545	277	240	**100**	36,0

* Standard design with swivel catch type "G1".

Steel auxiliary roller

Model 020/P.
Steel roller

With hinged side-opening system , galvanised steel, ball bearing roller, galvanised steel frame, swivel hook model G1 (standard delivery) with safety lock.

Symbol	A	B	C	D	E	F	Working load kN	Breaking load kN	Weight (kg)
020/P/090/AA	108	40	15	20	17	28	**18,0**	**90,0**	5,0
020/P/180/AA	138	40	15	27	21	32	**36,0**	**180,0**	9,5
020/P/250/AA	185	55	30	30	26	42	**50,0**	**250,0**	12,0

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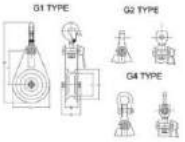
Aluminium auxiliary roller

Model 020/L
Aluminium roller

With side frame opening system, ball-bearing mounted aluminium pulley
Aluminium frame with swivel G1 fixing hook (standard design).

*Pivot clamp type "G2" "G4" on request. Technical drawing as above



Symbol	A	B	C	D	E	F	Working load kN	Breaking load kN	Weight (kg)
020/L/015/LL	80	46	130	300	130	84	**3,0**	**15,0**	1,7
020/L/045/LL	90	50	130	310	130	84	**9,0**	**45,0**	2,4
020/L/090/LL	100	54	130	340	130	84	**18,0**	**90,0**	3,5
020/L/150/LL	110	70	160	460	165	110	**30,0**	**150,0**	5,5

Mounting roller for insulated overhead conductors

Model 11001 - nylon version

The reel is used to hang insulated cables and EXCEL universal cable The reels are used for fitting to through- or corner posts for angles of 150° to 180°.
Heat- and impact-resistant nylon polymer roller with steel frame
Pole attachment: steel bracket Pole attachment: lockable hook Possible mounting at an angle of 30°

Symbol	external [mm]	Width Rollers [mm]	Material rolls	WL/BL	Weight (kg)
11001	120	75	Nylon	**20 kN**	1,6

Mounting roller for insulated cables and overhead wires

Mounting roller for low and medium voltage overhead insulated cables and wires
Roller made from high-strength nylon, mounted on ball bearings and a galvanised steel frame.

Symbol	Outer diameter [mm]	Roll width [mm]	Roll materi	WL/BL	Weight
026A	150	122	Nylon	**10 kN**	6,0

Mounting roller for conductor in overhead lines

Overhead line mounting roller Version : tandem
Roll material: nylon

Frame made of galvanised steel with top fixing clip.
Hitch-hook

Symbol	Diameter external [mm]	Width Rollers [mm]	Material rolls	WL/BL	Weight (kg)
14030 N	150	100	Nylon	**10 kN/20 kN**	7,2

Mounting roller for conductor in overhead lines

Overhead line mounting roller Version : tandem
Roll material: aluminium

Frame made of galvanised steel with top fixing clip.
Hitch-hook

Symbol	Outer diameter [mm]	Roll width [mm]	Roll	WL/BL	Weight (kg)
14030 A	150	100	Aluminium	**10 kN/20 kN**	11,2

Mounting roller in overhead lines

Overhead line mounting roller Version : tandem
Roll material: nylon
Frame made of galvanised steel with top fixing clip.
Hitch-hook

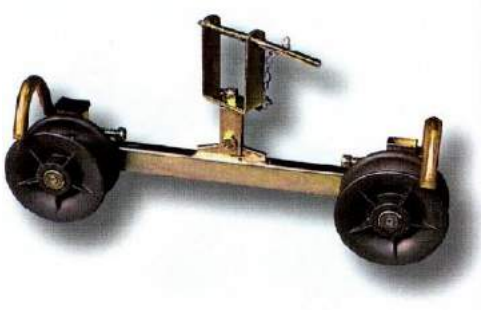
Symbol	Diameter external [mm]	Width Rollers [mm]	Material rolls	WL/BL	Weight (kg)
14010 N	180	75	Nylon	**15kN / 25kN**	9,5

Overhead line mounting roller Version :
quadruple roller
Roll material: nylon

Frame made of galvanised steel with top fixing clip.
Hitch-hook

Symbol	Diameter external [mm]	Width Rollers [mm]	Material rolls	WL/BL	Weight (kg)
14020 N	100	75	Nylon	**10kN / 20kN**	12,0

Mounting roller for insulated cables and overhead wires



Model 029
Mounting roller for low-voltage overhead insulated cables and wires
Equipped with a system to prevent the cable from falling out on both rollers.
Roller diameter 150mm.
Operating force : 200 daN Breaking force : 1,000 daN Weight : 6 kg

Symbol	Diameter external [mm]	Width Rollers [mm]	Material rolls	WL/BL	Weight (kg)
029	150	45	Nylon	**2kN / 10kN**	6,0

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Mounting roller for OPGW cable

Model 026 RBT2
Work roller for replacing existing lightning conductor with OPGW conductor
Suitable for pulling the ducting through the flue robot model101 RBT
Can be used for underground cables and wires. Rollers made of nylon, mounted on ball bearings and galvanised steel frame protected on the inside by nylon plates.
Operating force : 200 daN Breaking force : 1,000 daN Weight : 1.8 kg

Mounting roller for OPGW cable

Model 026 RBT V6
Auxiliary work roll for replacing existing lightning conductor with OPGW conductor
Can be mounted on wires with diameters of 10-20 mm thanks to a clip at the top
Rollers (main and smaller) made of nylon, mounted on ball bearings and galvanised steel frame protected on the inside by nylon plates.
Operating force : 200 daN Breaking force : 1,000 daN Weight : 1.2 kg

Mounting roller for OPGW cable

Model 026 RBT V2
Supporting auxiliary roller Suitable for pulling pilot cables.
The rope through (robot model 101RBT ...) passes back through the reversible roller system.
Self-lubricating nylon rollers on an aluminium frame.
Operating force : 100 daN
Breaking force : 500 daN
Weight : 0.950 kg

Mounting roller for OPGW cable

026 RBT
Supporting auxiliary roller Suitable for pulling pilot cables.
The rope through (robot model101RBT ...) passes back through the reversible roller system.
Can be mounted on ropes with a diameter of 10-20 mm thanks to the clamping clip.
Self-lubricating nylon rollers on an aluminium frame.
Operating force : 200 daN
Breaking force : 1,000 daN Weight : 2.3 kg

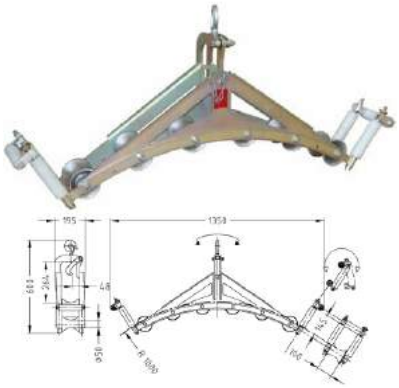
Mounting roller for insulated cables and overhead wires

Model 5000
Medium-voltage auxiliary roller
Nylon discs, mounted on ball bearings, Galvanised steel frame with height-adjustable fixing point. Guide rail
Working load 1000 daN. Weight: 25 kg.

Mounting roller for working in kinks

Model 5001
Set of 6 rollers for use on bends
Rollers on ball bearings Bending radius 1100 mm .
Galvanised steel frame with height-adjustable fixing point.
Working load 2000 daN
Weight 47 kg.

Mounting roller for OPGW cable



Model 5001/FO
Cable reel O.P.G.W
6 aluminium rollers on ball bearings, simulating a very large bending radius of 2,000mm.
Openable, equipped with a system
Anti-loss and nylon rollers at both ends. Galvanised steel frame with swivel hook.
Working load 1000 daN
Weight 28kg.

Mounting roller for insulated cables and overhead wires

Model 5007
Mounting roller for medium-voltage overhead insulated cables and wires
Roller made of nylon, mounted on ball bearings and a galvanised steel frame ending in a swivel hook.
Equipped with an anti-loss system around the perimeter of the roller profile.
Operating force : 1,000 daN
Breaking force : 5,000 daN
Weight : 8 kg

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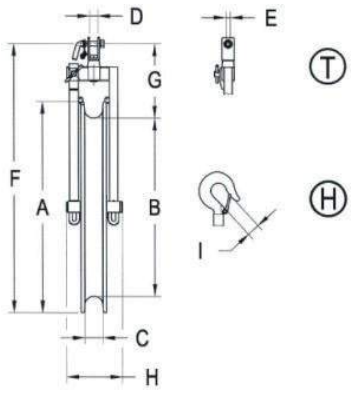
Mounting roller

Single aluminium assembly rollers
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with top fixing hook or in the version up to 350 mm with hook

Standard roller designs with nylon facings
Optional roller design with aluminium facings 025. ALR

Symbol	A	B	C	D	E	F	G	H	I	Load working kN	Weight kg
025/1T	300	230	38	21	12	420	155	140		**20**	4,0
025/1H	300	230	38	21		420	155	140	25	**20**	4,0
025/2T	440	350	48	21	12	559	164	176		**20**	9,0
025/2H	440	350	48	21		559	164	176	25	**20**	9,0
025/5T	620	500	68	30	16	834	274	200		**33**	21,5
025/3T	755	650	68	30	16	969	274	200		**40**	26,0
025/3LT	775	650	95	41	18	1005	300	231		**40**	33,0
025/4T	890	800	68	30	16	1104	274	198		**40**	33,0
025/4LT	910	800	95	41	18	1173	333	228		**40**	42,5
025/6LT	1110	1000	95	41	20	1400	356	250		**60**	50,0
025/7L	1350	1200	130	36	24	1639	379	288		**100**	112,0

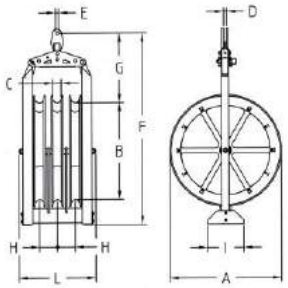


Types of top fixings:
Version T - swivel mount (model 025/.../T - (standard) Version H - swivel mount (model 025/.../H) (for 230-35 mm)

Optional equipment:
- Replaceable nylon liners to protect the bottom of the groove Article NYR/...
-replacement aluminium protective linings for the bottom of the groove (instead of nylon) article ALR/... available on reels
- earthing set supplied with 6 m of 50mm2 insulated copper cable with earthing clamp article 025/.../...MT.

possible earthing kits

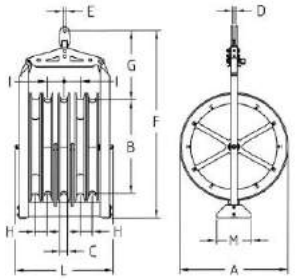
Mounting roller 2-3 wires



Aluminium mounting rollers for two or three cables
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with upper mounting bracket rotatable through 90 degrees

Symbol	A	B	C	D	E	F	G	H	I	Load working kN	Weight (kg)
025/5/5	620	500	68	26	25	1277	583	145	300	**40**	90,0
025/3/1	755	650	68	26	25	1412	583	145	300	**60**	105,0
025/3/1L	775	650	95	26	25	1487	627	175	300	**60**	130,0
025/4/3	890	800	68	26	25	1597	630	145	500	**60**	138,0
025/4/3L	910	800	95	26	25	1653	658	175	500	**60**	163,0
025/6/3L	1150	1000	95	26	25	1893	668	175	500	**66**	187,0
025/7/3L	1350	1200	130	26	25	2133	671	222	500	**100**	365,0

Mounting roller 4 wires



Aluminium mounting rollers for four cables
Reinforced centre roller with aluminium insert
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with upper mounting bracket rotatable through 90 degrees

Symbol	A	B	C	D	E	F	G	H	I	L	M.	Working load kN	Weight (kg)
025/5/6	620	500	68	26	25	1378	632	100	145	721	300	**40**	140
025/3/2	755	650	68	26	25	1513	632	100	145	721	300	**60**	160
025/3/2L	775	650	95	26	25	1553	673	145	175	901	300	**60**	190
025/4/4	890	800	68	26	25	1648	633	100	145	725	500	**60**	175
025/4/4L	910	800	95	26	25	1688	673	145	175	905	500	**60**	247
025/6/4L	1110	1000	95	26	25	1893	668	145	175	917	500	**66**	280
025/7/4L	1350	1200	130	26	25	2133	671	185	222	1131	500	**100**	545

Optional equipment:
- Replaceable nylon liners to protect the bottom of the groove Article NYR/...
- replaceable aluminium protective linings for the bottom of the groove (instead of nylon) Article ALR/...
- earthing set supplied with 6 m of 50mm2 insulated copper cable with earthing clamp article 025/.../...MT
- other distances between rollers available

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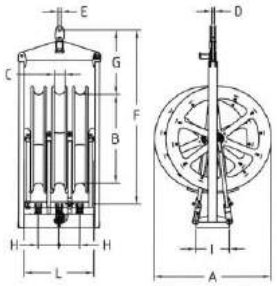
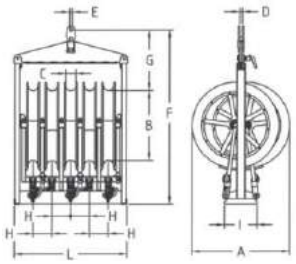
Mounting roller 2-3 wires , removable from the frame



Aluminium mounting rollers for two or three cables removable from the frame
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with 90-degree top swivelling mounting bracket available with individual mounting rollers.

Symbol	A	B	C	D	E	F	G	H	I	L	Load working kN	Weight (kg)
025/5/5 SC	730	500	68	26	25	1522	671	145	300	626	**40**	120,0
025/3/1 SC	867	650	68	26	25	1657	671	145	300	626	**60**	143,0
025/3/1L SC	885	650	95	26	25	1657	645	175	300	716	**60**	160,0
025/4/3 SC	1000	800	68	26	25	1764	643	145	500	636	**60**	150,0
025/4/3LSC	1020	800	95	26	25	1822	643	175	500	720	**60**	202,0
025/6/3L SC	1219	1000	95	26	25	2020	640	175	500	720	**66**	227,0

Mounting roller 4 wires , removable from the frame

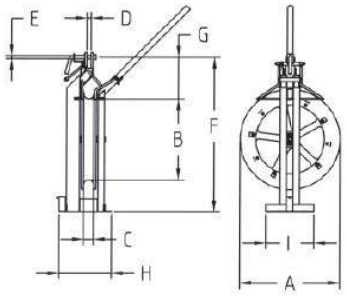


Aluminium mounting rollers for four wires removable from frame Central reinforced roller with aluminium insert
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with 90° top swivel hitch
available with individual mounting rollers.

Symbol	A	B	C	D	E	F	G	H	I	L	Load working kN	Weight (kg)
025/5/6 SC	715	500	68	26	25	1340	505	145	300	1000	**40**	175,0
025/3/2 SC	869	635	68	26	25	1565	585	145	300	1000	**60**	200,0
025/3/2L SC	885	635	95	26	25	1620	585	175	300	1130	**60**	235,0
025/4/4 SC	1000	770	68	26	25	1690	550	145	500	1000	**60**	220,0
025/4/4LSC	1020	770	95	26	25	1820	585	175	500	1230	**60**	300,0
025/6/4L SC	1285	1000	95	26	25	2020	585	175	500	1230	**66**	325,0

Optional equipment:
- Replaceable nylon liners to protect the bottom of the groove Article NYR/...
-replaceable aluminium protective linings for the bottom of the groove (instead of nylon) Article ALR/...
- earthing set supplied with 6 m of 50mm2 insulated copper cable with earthing clamp article 025/.../...MT
- other distances between rollers available

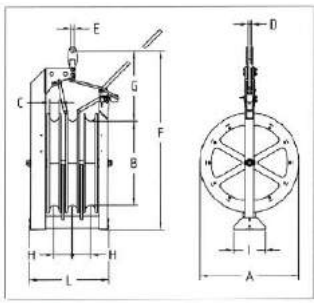
Mounting roller , single - helicopter



Single mounting roller designed for insertion and retraction of the helicopter guide wire
A suitable clip allows the rope to be placed in the groove of the sheave and prevents it from falling out .
Roller made of aluminium alloy and mounted on bearings .
Grooves lined with replaceable nylon liners.
Galvanised steel frame.

Symbol	A	B	C	D	E	F	G	H	I	Load working kN	Weight (kg)
025/1E	300	230	41	20	16	560	215	200	200	**26**	12,0
025/2E	440	350	48	20	16	700	235	245	300	**26**	20,0
025/5E	620	500	68	25	20	1130	404	325	300	**33**	45,0
025/3E	755	650	68	25	20	1265	404	277	300	**40**	50,0
025/3LE	775	650	95	25	20	1278	418	306	300	**40**	60,0
025/4E	890	800	68	25	20	1401	406	277	300	**40**	57,0
025/4LE	910	800	95	25	20	1414	419	310	300	**40**	65,0
025/6LE	1110	1000	95	25	20	1614	416	330	500	**60**	99,0

Mounting roller , for 2-3 wires - helicopter



Mounting roller designed for two or three wires for insertion and retraction of the pilot wire guided by a helicopter A suitable clip allows the rope to be placed in the groove of the sheave and prevents it from falling out .
Roller made of aluminium alloy and mounted on bearings .
Grooves lined with replaceable nylon liners. Galvanised steel frame.

	C	D	E	F	G	H	I	L	Load working kN	Weight (kg)
025/5/5E	620	500	68	25	26	1400	674	145	300	654	**40**	115,0
025/3/1E	755	650	68	25	26	1533	674	145	300	654	**60**	154,0
025/3/1LE	775	650	95	25	26	1570	704	175	300	744	**60**	175,0
025/4/3E	890	800	68	25	26	1678	674	145	300	654	**60**	177,0
025/4/3LE	910	800	95	25	26	1708	704	175	300	744	**60**	205,0
025/6/3LE	1110	1000	95	25	26	1908	704	175	500	744	**66**	248,0

Optional equipment:
- Replaceable nylon liners to protect the bottom of the groove Article NYR/...
-replaceable aluminium protective linings for the bottom of the groove (instead of nylon) Article ALR/...
- earthing set supplied with 6 m of 50mm2 insulated copper cable with earthing clamp article 025/.../...MT
- other distances between rollers available

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Mounting roller, single tandem

Single mounting roller in tandem version
Aluminum mounting roller single positioned in tandem with respect to the cable Rollers mounted on ball bearings
with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with top fixing hook

Symbol	A	B	C	D	E	F	G	H	I	Working load kN
025/1T Tandem	300	230	38	21	12	420	155	140		**20**
025/1H Tandem	300	230	38	21		420	155	140	25	**20**
025/2T Tandem	440	350	48	21	12	559	164	176		**20**
025/2H Tandem	440	350	48	21		559	164	176	25	**20**
025/5T Tandem	620	500	68	30	16	834	274	200		**33**
025/3T Tandem	755	650	68	30	16	969	274	200		**40**
025/3LT Tandem	775	650	95	41	18	1005	300	231		**40**
025/4T Tandem	890	800	68	30	16	1104	274	198		**40**
025/4LT Tandem	910	800	95	41	18	1173	333	228		**40**
025/6LT Tandem	1110	1000	95	41	20	1400	356	250		**60**
025/7L Tandem	1350	1200	130	36	24	1639	379	288		**100**

Mounting roller , for 2-3 wires - tandem

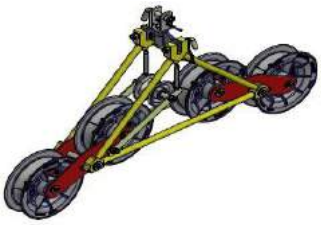
Triple tandem mounting roller
Aluminium triple-mounted rollers arranged in tandem with the cable Rollers mounted on ball bearings
with replaceable nylon protective groove bottom liners.
Frame made of galvanised steel with top fixing hook

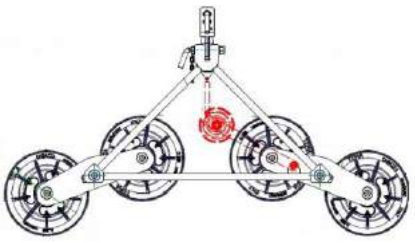
Standard and helicopter version possible (photo)

Symbol	A	B	C	D	E	F	G	H	I	Load working kN
025/5/5 Tandem	620	500	68	26	25	1277	583	145	300	**40**
025/3/1 Tandem	755	650	68	26	25	1412	583	145	300	**60**
025/3/1L Tandem	775	650	95	26	25	1487	627	175	300	**60**
025/4/3 Tandem	890	800	68	26	25	1597	630	145	500	**60**
025/4/3L Tandem	910	800	95	26	25	1653	658	175	500	**60**
025/6/3L Tandem	1150	1000	95	26	25	1893	668			
025/7/3L Tandem	1350	1200	130	26	25	2133	671			

Mounting roller , set of four single rollers

Quadruple unit for single rollers
Aluminum mounting rollers single aligned with cable
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners. Frame made of galvanised steel with top fixing clip.
Options , possibility to order handle offset by 90 degrees . Centre earthing roller

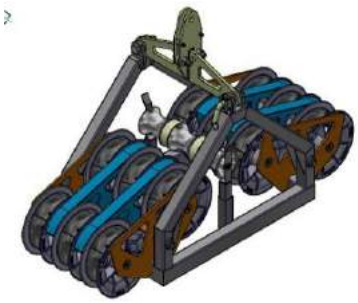


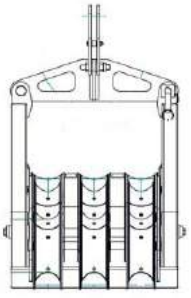


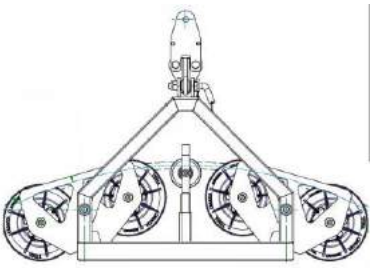
Symbol	roller dimension mm	construction dimension mm	working load kN	weight
023/1	300x68	1438x192x808	**60**	51 kg
023/1L	328x95	1565x218x862	**60**	58 kg

Mounting roller , set of four triple rollers

Quadruple triple roller assembly
Aluminium mounting rollers triple in tandem with the cable
Rollers mounted on ball bearings with replaceable nylon protective groove bottom liners. Frame made of galvanised steel with top fixing clip.
Options , possibility to order handle shifted by 90 degrees . Centre earthing roller

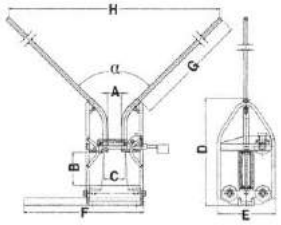






Symbol	roller dimension mm	construction dimension mm	roller pitch	working load kN	weight
023/3/2	300x68	1446x595x1075	145	**60**	186 kg
023/3/2L	328x95	1573x681x1075	175	**60**	212 kg

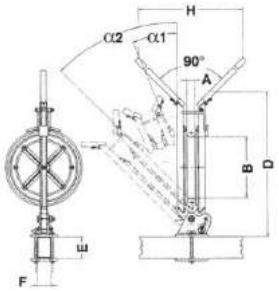
Pilot line roller - helicopter



Pilot line roller for use by helicopter. Nylon roller on ball bearings.
Galvanised steel frame with special brackets at the top , two arms to facilitate rope installation and a shaft to prevent the rope from falling out.

Symbol	A	B	C	D	E	F	G	H	α	Weight (kg)
026/10	10	130	85	415	230	460	1000	1600	82	12,0

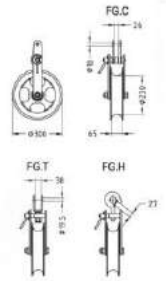
Pilot line reel - helicopter



Pilot line roller for use by helicopter. Nylon roller on ball bearings.
Galvanised steel frame with special brackets at the top , two arms to facilitate rope installation and a shaft to prevent the rope from falling out.
Adjustable opening angle 22.5-45 degrees.
Complete with pilot rod fixing bracket and guide rod Breaking load 6000 daN

Symbol	A	B	C	D	E	F	G	H	α	Weight (kg)
026/10 EL	30	230	300	590	*	*	800	1200	22,5 - 45,0	10,0
026/11 EL	48	350	440	830	*	*	800	1250	22,5 - 45,0	14,0

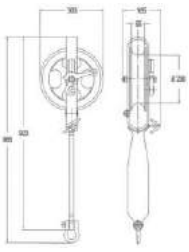
Steel roller



Model 025/1 FG
Single roller entirely made of galvanised steel on ball bearings.
Operating load 23 kN
Weight: 14 kg

Types of abutment:
Fixed hitch model 025/1 FG.C (standard) Swivel hitch model 025/1 FG.T
Swivel hook model 025/1 FG.H

Alignment roller



Model 0251AS
Designed to hold the pilot wire as well as the cable in the correct position when tensioning between poles with a significant difference in height.
Automatic quick-release device;
Galvanised steel frame and ball bearing roller

Operating load 26 kN
Weight: 20 kg

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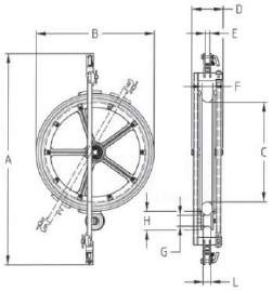
Mounting roller with compensating pressure

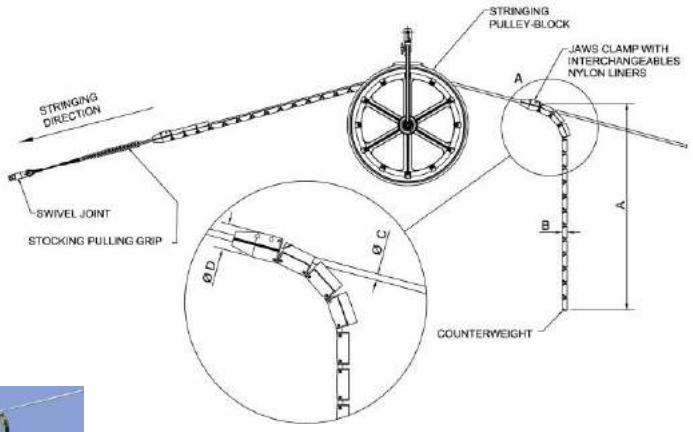


Single pressure roller Designed for tensioning operations
cables on poles with significant height differences. Ball-bearing aluminium roller with nylon replacement groove protection lining and smaller ball-bearing aluminium roller. Openable , galvanised steel frame finished with swivel hooks at both ends.

Symbol	A	B	C	D	E	F	G	H	L	Breaking load kN	Weight (kg)
0255AS	1290	620	500	220	30	68	80	150	46	100	31
0253AS	1380	770	650	205	30	68	70	125	60	100	38
0254LAS	1680	950	800	245	41	95	83	133	120	120	62

Anti-rotation kit for OPGW cable

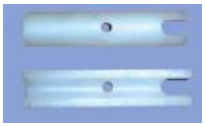
Anti-rotation kit for controlled pulling of OPGW cable When ordering, please specify the exact diameter of the cable.
NOTE: One set consists of two parts



Symbol	D	A	B	C	Weight	Quantity included
EVERY	60	990	30	10-17	8,0	2
60/9	60	1320	30	17-23	10,5	2
EVERY	80	1800	39	23-30	24,0	2

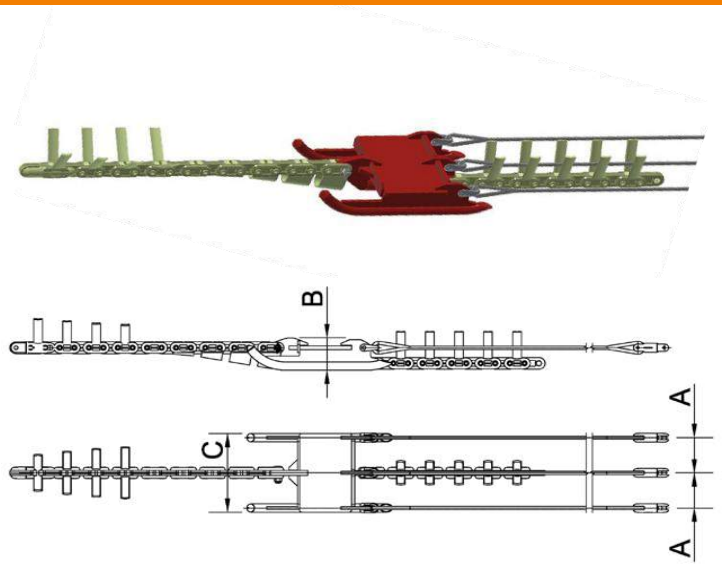
When ordering, please specify:
- Internal diameter of the assembly rollers used
- Used mounting roll width
- Exact outer diameter of the O.P.G.W. pipe

CO609
CO6012
CO6018



Replaceable set of nylon inserts

Crocodile 2-3 wire



Fixed crocodile for cable pulling. Used to connect 2-3 wires to a pilot wire.

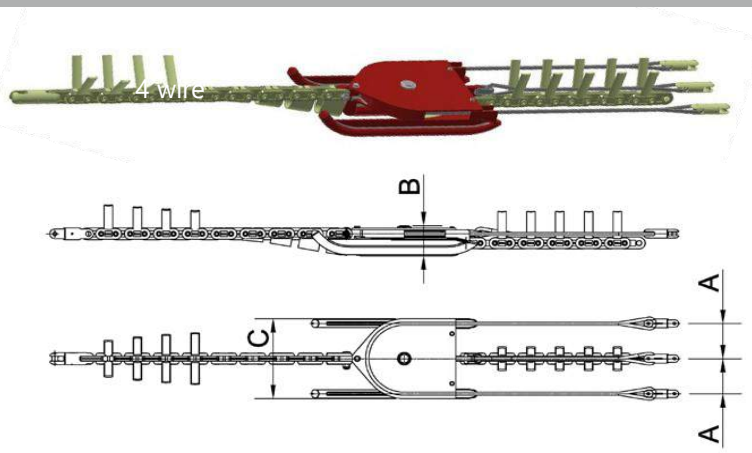
Complete with swivels and steel cable

CO B1 F , CO T1F
025/5/5 - 025/5/5SC - 025/5/5E
025/3/1 - 025/3/1SC - 025/3/1E
025/4/3 - 025/4/3SC - 025/4/3E

0C2O5/B32/1FL C02O5/T32/F1LSC -025/1E
- 025/4/3LE
025/64/3L - 025/64/3LSC

CO B3 F , CO T3F
025/7/1L - 025/7/3L

Symbol	wires	A	B	C	Swivel 250 B/C/R	Swivel 250 D/R	L ropes 16-18 mm	Working load kN	Weight (kg)
CO B1 F	2	146	146	326	2	1	2x3.5m	93	90
CO T1 F	3	146	146	326	3	1	3x3.5m	93	100
CO B2 F	2	174	166	403	2	1	2x3.5m	93	105
CO T2 F	3	174	166	403	3	1	3x3.5m	93	110
CO B3 F	2	222	170	487	2	1	2x3.5m	93	120
CO T3 F	3	222	170	487	3	1	3x3.5m	93	135



Crocodile with pulley for cable pulling. Used to connect 2-3 wires to a pilot wire.

Complete with swivels and steel cable

CO B1 , CO T1
025/5/5 - 025/5/5SC - 025/5/5E
025/3/1 - 025/3/1SC - 025/3/1E
025/4/3 - 025/4/3SC - 025/4/3E

0C2O5/B32/1L C-O02T52/3/1LSC -025/1E
- 025/4/3LE
025/64/3L - 025/64/3LSC

CO B3 , CO T3
025/7/1L - 025/7/3L

Symbol	wires	A	B	C	Swivel 250 B/C/R	Swivel 250 D/R	L ropes 16-18 mm	Working load kN	Weight (kg)
CO B1	2	145	139	340	2	1	1x30m	100	120
CO T1	3	145	139	340	3	1	1x30m+1x15m	100	140
CO B2	2	180	154	410	2	1	1x30m	100	145
CO T2	3	180	154	410	3	1	1x30m+1x15m.	100	160
CO B3	2	222	160	494	2	1	1x30m	100	175
CO T3	3	222	160	494	3	1	1x30m+1x15m	100	195

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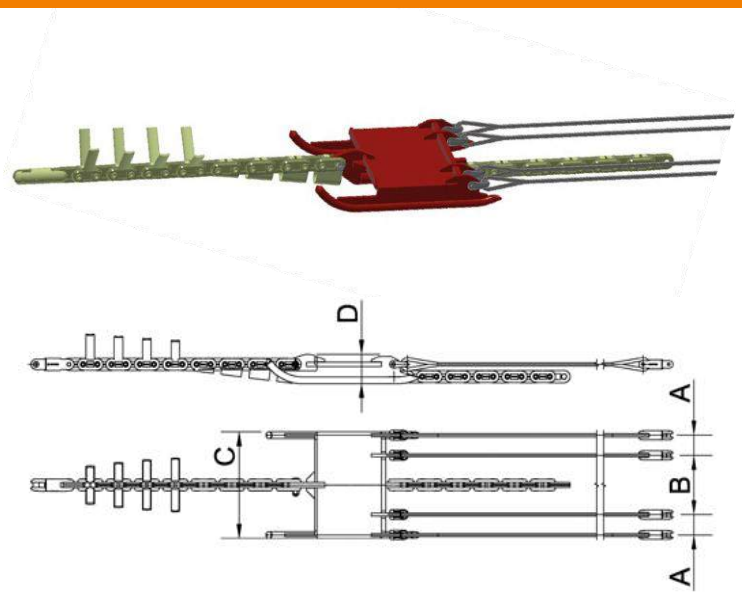
Crocodile 4 wire

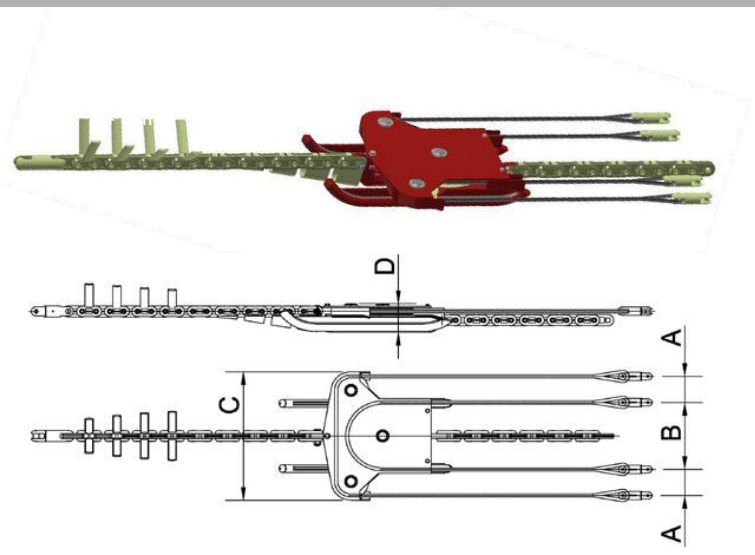


Fixed crocodile for wire pulling. Used to connect 4 wires with a pilot wire

Complete with swivels and steel cable

CO Q1 F
025/5/6 - 025/3/2 - 025/4/4
CO Q2F
025/3/2L - 025/4/4L - 025/6/4L
CO Q3 F
025/5/6SC - 025/3/2SC - 025/4/4SC
CO Q4 F
025/3/2LSC - 025/4/4LSC - 025/6/4LSC
CO Q5 F
025/7/4L

Symbol	wires	A	B	C	Swivel 250 B/C/R	Swivel 250 D/R	L ropes 16-18 mm	Working load kN	Weight (kg)
CO Q1 F	4	100	292	526	4	1	4x3.5m	93	120
CO Q2 F	4	145	350	643	4	1	4x3.5m	93	140
CO Q3 F	4	145	290	635	4	1	4x3.5m	93	125
CO Q3 F	4	175	350	755	4	1	4x3.5m	93	145
CO Q4 F	4	185	444	869	4	1	4x3.5m	93	165



Crocodile with pulley for wire pulling. Used to connect 4 wires with pilot w i r e

Complete with swivels and steel cable

CO Q1
025/5/6 - 025/3/2 - 025/4/4

CO Q2
025/3/2L - 025/4/4L - 025/6/4L

CO Q3
025/5/6SC - 025/3/2SC - 025/4/4SC

CO Q4
025/3/2LSC - 025/4/4LSC - 025/6/4LSC

CO Q5
025/7/4L

Symbol	wires	A	B	C	Swivel 250 B/C/R	Swivel 250 D/R	L ropes 16-18 mm	Working load kN	Weight (kg)
CO Q1	4	100	290	540	4	1	2x30m	100	170
CO Q2	4	140	360	690	4	1	2x30m	100	190
CO Q3	4	145	290	630	4	1	2x30m	100	175
CO Q4	4	175	350	750	4	1	2x30m.	100	195
CO Q5	4	185	444	864	4	1	2x30m	100	215

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ALUMINUM ALLOY EQUIPMENT

Aluminium ladders
Aluminium platforms
Inspection trolleys 1-2-3-4 wire
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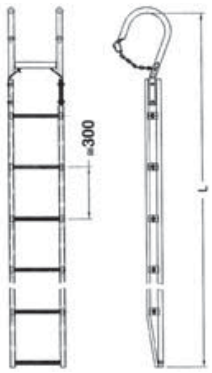
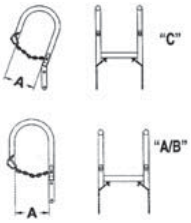
Vertical ladder model 011



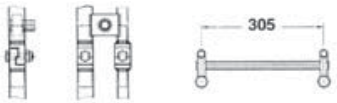
Model 011

Suitable for working on overhead overhead lines Made of lightweight aluminium alloy, welded (TIG system) with non-slip rungs .
Manufactured in accordance with UNI CEN / TS 16415: 2013, UNI EN 795: 2012
and compliant with EU 2016/425.Fitted with replaceable galvanised steel hook with double safety chain

Symbol	elements	L (m.)	Weight	A (mm)
011/2,5	1	2,5	9,2	220
011/3	1	3,0	10,3	220
011/3,5	1	3,5	11,2	220
011/4	1	4,0	12,3	220
011/5	1	5,0	14,8	220
011/6	1	6,0	17,2	220
011/6,2	2	6,0 (4+2)	17,8	220
011/8,2	2	8,0 (4+4)	22,6	220
011/10,2	2	10,0 (5+5)	27,5	220

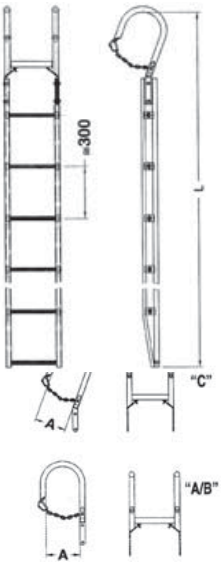


Optional equipment:
- Hooks type C and A/B available in 400 mm width
- Various ladder lengths available - customised on request



Vertical ladder model 011A with safety rail

MA29/3



Model 011A

Suitable for working on overhead overhead lines Made of lightweight aluminium alloy, welded (TIG system) with non-slip rungs .
Manufactured in accordance with UNI CEN / TS 16415: 2013, UNI EN 795: 2012
and compliant with EU 2016/425.Fitted with replaceable galvanised steel hook with double safety chain and fall arrest profile(for use with fall arrest device,

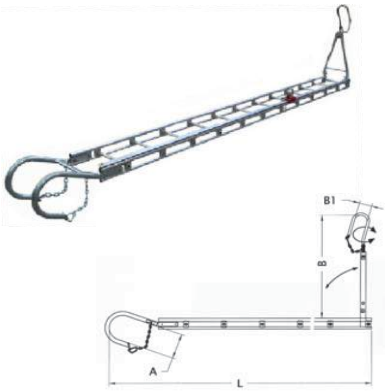
Securing deviceMA 29/3 Vertical working load 300 daN

Symbol	elements	L (m.)	Weight (kg)	A (mm)
011A/2,5	1	2,5	10,0	220
011A/3	1	3,0	11,5	220
011A/3,5	1	3,5	12,4	220
011A/4	1	4,0	13,8	220
011A/5	1	5,0	17,0	220
011A/6	1	6,0	20,0	220
011A/6,2	2	6,0 (4+2)	20,4	220
011A/8,2	2	8,0 (4+4)	26,4	220
011A/10,2	2	10,0 (5+5)	32,3	220

Optional equipment:

- Hooks type C and A/B available in 400 mm width
- Various ladder lengths available
- Available in a version for two fitters (with two safety hooks - Article 011/B)

Vertical/horizontal ladder 011G



Model 011G

Vertical/horizontal ladder
It is suitable for working on overhead transmission lines, for use both horizontally and vertically.
Made of lightweight aluminium alloy, welded (TIG-certified system) with anti-slip rungs.
Fitted with replaceable galvanised steel hook with double safety chain (pole) and adjustable/folding Mod AG/SS hook
- Vertical working load 300 daN
- Horizontal working load 100 daN

On request :
- Adjustable folding hook with nylon wheel model AG/SS-R
- Reinforced construction with a horizontal working load of 200 daN

option : AG-SSR

standard : AG-SS

Symbol	elements	L (m.)	Weight	A (mm)	B (mm)	B1 (mm)
011/G2,5	1	2,5	12,2	220	900	100
011/G3	1	3,0	13,5	220	900	100
011/G3,5	1	3,5	14,8	220	900	100
011/G4	1	4,0	16,2	220	900	100
011/G5	1	5,0	18,8	220	900	100
011/G6	1	6,0	21,5	220	900	100
011/G6,2	2	6,0 (4+2)	22,5	220	900	100

Vertical/horizontal ladder 011AG with safety rail

Safety device MA29/3

Model 011AG
Vertical/horizontal ladder
It is suitable for working on overhead transmission lines, for use both horizontally and vertically.
Made of lightweight aluminium alloy, welded (TIG-certified system) with anti-slip rungs.
Equipped with replaceable galvanised steel hook with double safety chain (pole) and adjustable/folding Mod AG/SS hook .
fall protection profile (for use with fall protection device mod. MA29/3)

- Vertical working load 300 daN
- Horizontal working load 100 daN

On request :
- Adjustable folding hook with nylon wheel model AG/SS-R
- Reinforced construction with a horizontal working load of 200 daN

option : AG-SSR

standard : AG-SS

Symbol	elements	L (m.)	Weight	A (mm)	B (mm)	B1 (mm)
011/AG2.5	1	2,5	13,2	220	900	100
011/AG3	1	3,0	14,8	220	900	100
011/AG3.5	1	3,5	16,3	220	900	100
011/AG4	1	4,0	17,9	220	900	100
011/AG5	1	5,0	21,1	220	900	100
011/AG6	1	6,0	24,2	220	900	100
011/AG6.2	2	6,0 (4+2)	25,2	220	900	100

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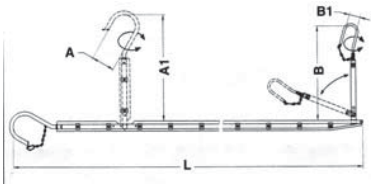
Suspension ladder / platform 011AGG



Model 011AGG
Vertical/horizontal ladder
It is suitable for working on overhead transmission lines, for use both horizontally and vertically.
Made of lightweight aluminium alloy, welded (TIG-certified system) with anti-slip rungs, equipped with a fall prevention profile (for use with MA 29/3 fall protection).

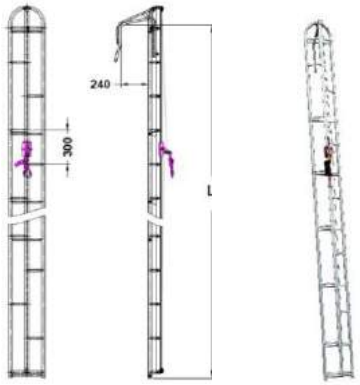
Fitted with adjustable/folding galvanised steel hook with double safety chain (post) and adjustable/folding AG/SS hook

- Vertical working load 300daN
- Horizontal working load 100daN

On request :
- Adjustable/folding hook with nylon wheel AG/SS-R
- Reinforced construction with a horizontal working load of 200 daN

Symbol	elements	L (m.)	Weight (kg)	A (mm)	A1 (mm)	B (mm)	B1 (mm)
011/AGG3	1	3,13	19,0	220	1000	900	100
011/AGG3.5	1	3,60	21,0	220	1000	900	100
011/AGG4	1	4,16	22,5	220	1000	900	100
011/AGG5	1	5,03	26,5	220	1000	900	100
011/AGG6	1	6,25	32,5	220	1000	900	100
011/AGG6.2	2	6,25 (4,25+2)	33,5	220	1000	900	100

Staircase for climbing poles



Model 010
Staircase for climbing poles
Suitable for pole climbing under safety conditions. Made of lightweight aluminium alloy, welded (TIG-certified system), with non-slip rungs
Manufactured in accordance with UNI CEN / TS 16415: 2013, UNI EN 795: 2012 and compliant with EU Regulation 2016/425.
Fitted with a fall protection profile
(for use with fall protection device MA 29/3.R)

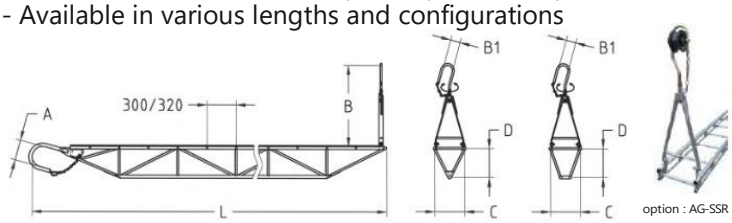
- Vertical working load 150 daN.

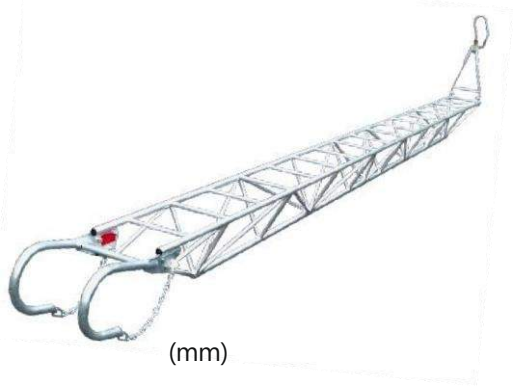
Symbol	Section length	Weight (kg)
010/1	3,7 m	9,0
010/2	4,7 m	11,0

Horizontal platform with triangular structure 013G

Model 013G...
Horizontal platform with triangular design. Used for horizontal suspension in the workspace.
Can also be used as an upright suspension ladder. Aluminum welded steps
with a rough anti-slip surface. Equipped with a special AG/SS steel swivel hook Horizontal load: 200 daN . Vertical load : 300 daN

Optional equipment:
- Guide swivel steel hook with nylon roller Model AG/SS/R).
- Maximum hook size on the power pole side up to 400mm
- Available in various lengths and configurations



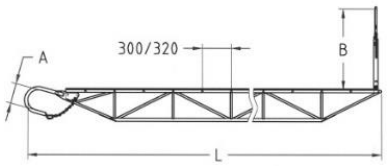


(mm)

Symbol	elements	L (m.)	Weight (kg)	A	B	B1	C	D
013/G3,5	1	3,5	17,0	220	900	100	320	320
013/G4	1	4,0	18,5	220	900	100	320	320
013/G4,5	1	4,5	20,0	220	900	100	320	320
013/G5	1	5,0	21,5	220	900	100	320	320
013/G6	1	6,0	24,5	220	900	100	320	350
013/G6,2	2	6,0 (4+2)	26,0	220	900	100	320	350
013/G7,2	2	7,0 (4+3)	30,5	220	900	100	320	350
013/G8,2	2	8,0 (4+4)	34,0	220	900	100	320	350

Horizontal platform with trapezoidal structure 013TP

Model 013TP
Horizontal platform with trapezoidal structure . Used for horizontal suspension in the workspace.
Can also be used as an upright suspension ladder. Aluminum welded steps
with a rough anti-slip surface. Equipped with a special AG/SS steel swivel hook Horizontal load: 300 daN . Vertical load : 300 daN



(mm)

Symbol	elements	L (m.)	Weight (kg)	A	B	B1	C	D
013/TP3.5	1	3,5	19,0	220	900	100	320	320
013/TP4	1	4,0	21,0	220	900	100	320	320
013/TP4.5	1	4,5	23,0	220	900	100	320	320
013/TP5	1	5,0	24,5	220	900	100	320	320
013/TP6	1	6,0	28,0	220	900	100	320	350
013/TP6.2	2	6,0 (4+2)	29,5	220	900	100	320	350
013/TP7.2	2	7,0 (4+3)	34,5	220	900	100	320	350
013/TP8.2	2	8,0 (4+4)	39,0	220	900	100	320	350

Optional equipment:
- Guide steel swivel hook with nylon roller Model AG/SS/R).
- Maximum hook size on the power pole side up to 400mm
- Available in various lengths and configurations option : AG-SSR

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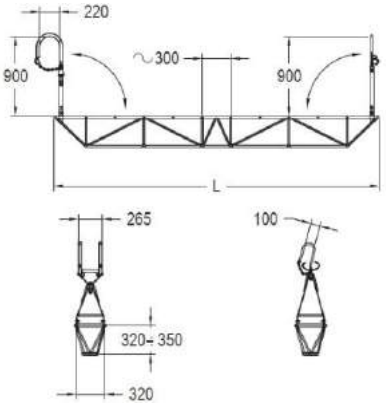
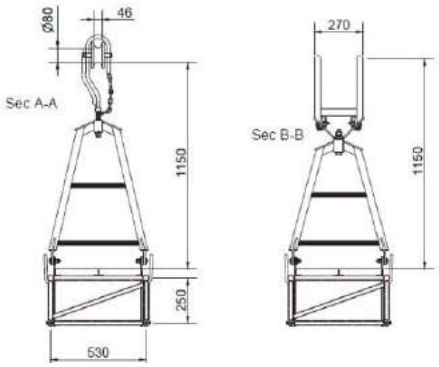
Horizontal platform with triangular structure 013G



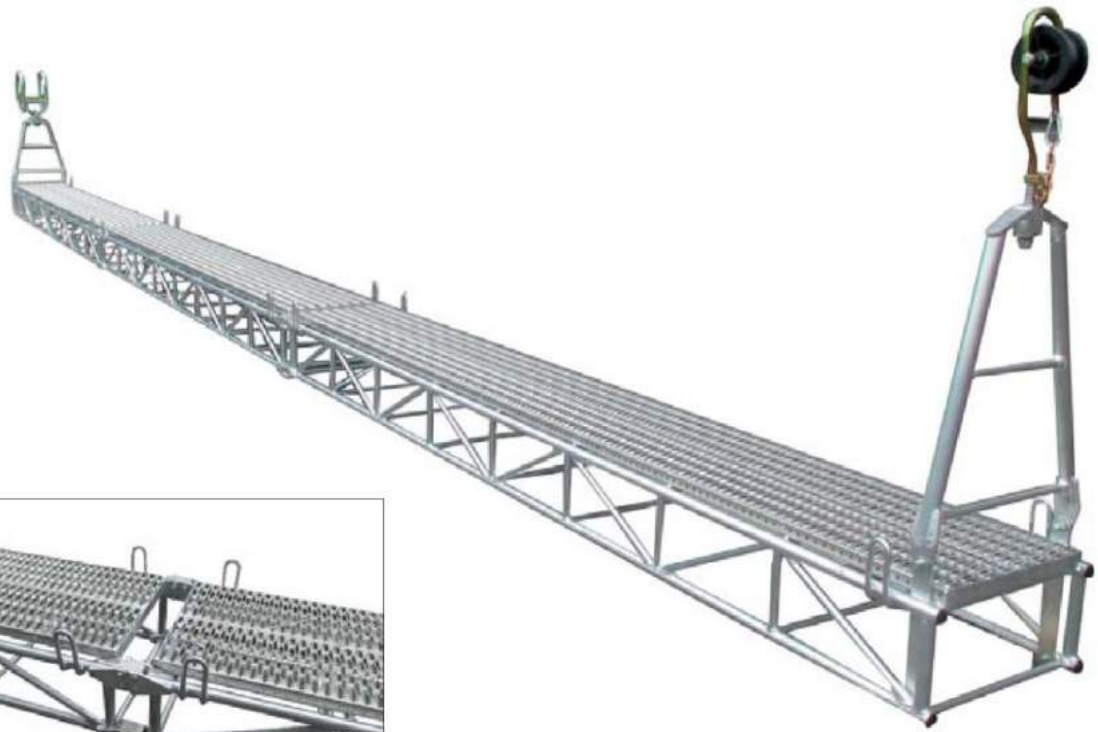
013G.GG triangular section
013TP.GG trapezoidal section
Triangular or trapezoidal section of horizontal platform
Structure of platform
Suitable for use both vertically and horizontally. Lightweight aluminium alloy, welded (TIG system) with slip-resistant rungs .
Galvanised folding and twisting hook Mod. AGG/SS -post side
Swivel/folding hook Model AG/SS -conductor side.
- Horizontal working load of the triangular platform 200 daN
- Horizontal working load of the trapezoidal platform 300 daN
- Vertical working load 300 daN.

Horizontal platform of rectangular construction model 017 with non-slip floor Graepel



Model 017
Horizontal platform of rectangular construction
It is suitable for use both vertically and horizontally.
Lightweight aluminium alloy, TIG-welded with a slip-resistant floor "**Graepel Gripp system**".
Galvanised folding and bolt-on hooks
Double swivel hook (pole side), single hook with nylon roller on cable side

- Standard length 12m (4 + 4 + 4), other lengths on request.
- Horizontal working load 300 daN.
- Weight 153 kg

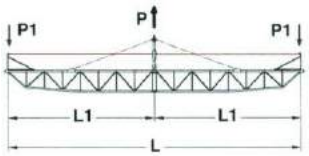


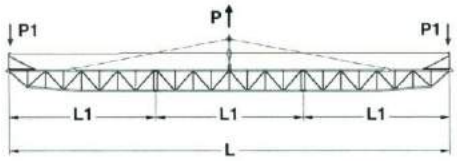
Graepel Gripp system floor

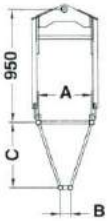
Aluminium work platform model 070

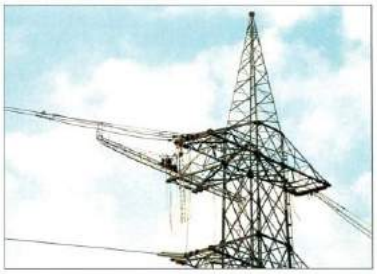
Model 070
Aluminium alloy structure, trapezoidal, welded (TIG system) , composed of several elements.
Equipped with galvanized supports and safety rails connected by a steel cable (lifeline) suitable for
the length and weight of the platform.

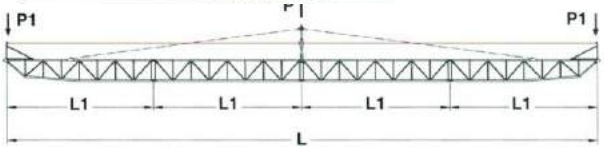
On request:
- guide profiles for press head trolley model 070/BP (weight 2 kg./m.)
- 360 degree rotary trolley for press head model 070/BPC (weight 12 kg.)
- additional safety barrier kits article 070/BAC
- other dimensions and configurations according to customer requirements











Symbol	Load max P1=300 daN	Load	Weight	L (m.)	standard section numbers and L1 (m)	A (mm)	B (mm)	C (mm)
070/4	600	1800	50	**4**	4	350	85	390
070/5	600	1800	56	**5**	5	350	85	390
070/6	600	1800	62	**6**	6	350	85	390
070/6,2	600	1800	65	**6**	3+3	350	85	390
070/7,2	600	1800	77	**7**	3,5+3,5	350	85	446
070/8,2	600	1800	86	**8**	4+4	350	85	446
070/10,3	600	1800	103	**10**	4+2+4	350	85	446
070/12,3	600	1800	115	**12**	4+4+4	350	85	446
070/14,3	600	1800	126	**14**	5+4+5	350	85	446
070/16,4	600	1800	144	**16**	4+4+4+4	350	85	446
070/18,3	600	1800	160	**18**	6+6+6	350	85	446
070/20,4	600	1800	200	**20**	5+5+5+5	450	85	550
070/24,4	600	1800	254	**24**	6+6+6+6	450	85	550

Ask for other platform configurations on info@electrapolska.com

Safety Barrier Model DT070BAC... (Approved by the ANCCP Institute as a "HORIZONTAL ANTI-COLLAPSE LIFELINE". according to EN 795)

Guide profiles for trolley Article 070/BP... - Press trolley Model 070BPC...

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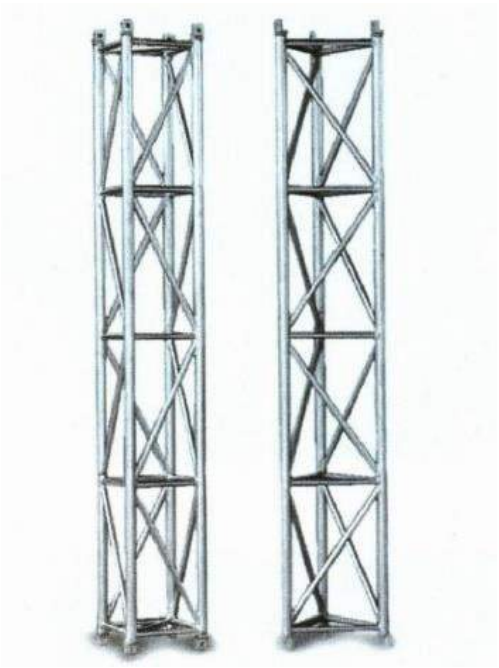
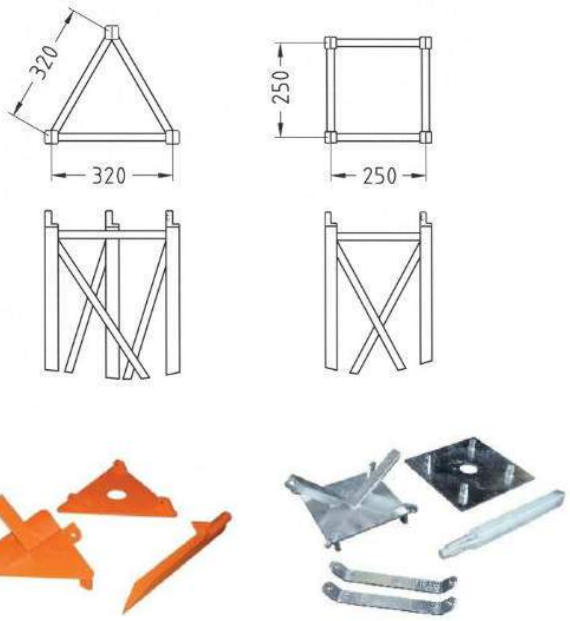
Modular gates with triangular or square profile

Aluminium construction with triangular profile 057
Aluminium construction with square profile 058

Suitable for working close to intersections between lines and roads. Modular elements (2 or 4 metres) with triangular or square cross-section, made of light aluminium alloy, welded (TIG-certified system). Available on request complete with galvanised steel accessories.

Vertical load structure section. triangular: 1000 daN Vertical load structure section. square: 1500 daN





Symbol	Section length	Profile	Weight	handle head V	base	anchor point
057 AL2	2,0 m.	triangle	6,6	057PT	057B	057IA
057 AL4	4,0 m.	triangle	13,2	057PT	057B	057IA
058 AL2	2,0 m.	square	8,6	058PT	058B	058IA
058 AL4	4,0 m.	square	17,2	058PT	058B	058IA

The top crossing safety gate beam is designed to be mounted on 057 / 058 posts after fitting a special dedicated head. The beam is supplied complete with dedicated heads and is polypropylene coated.

058TR

058TR

058TR

XT901

XT901

Symbol	Load	Section length	Weight (kg)
058TR6	1000 kg	6,0	140
058TR9	1000 kg	9,0	220
XT901	400 kg		33,5

Aluminium ladder for steel and concrete poles model 014

Model 014
Aluminium ladder with safety device for steel and concrete columns

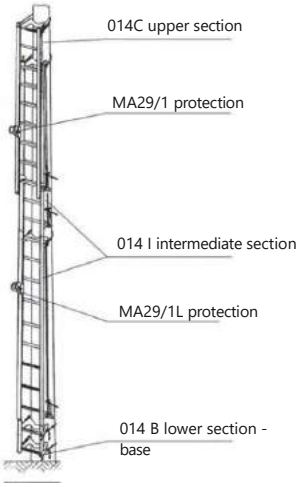
Suitable for climbing round and polygonal poles .
For square pole special configuration - available on request. Special attachment allows the operator to climb in safety. Made of welded aluminium alloy, with non-slip coating on the rungs

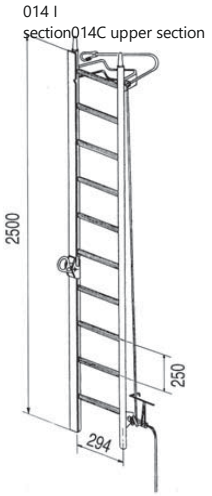
Modular design with base and top sections and the rear intermediate element needed to achieve the desired length (up to 30 m.)

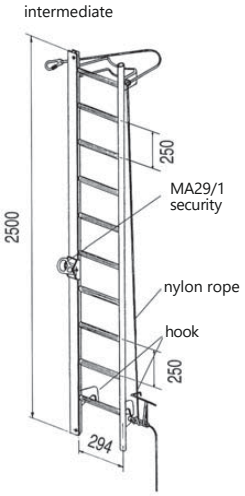
The ladder is equipped with two fall protection devices with a safety anchor clipped to the operator's belt.
An aluminium alloy service platform for the operator is also available
- upon request

Attention:
- To prevent unwanted twists on the structure when working at high altitude (above 30 m), a chain locking device is also available on request. (model 014 / BIP).

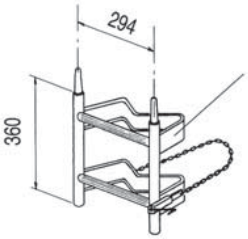
Weight with standard accessories:
- Base 014/B - 5.5 kg
- Intermediate part 014/I - 6 kg
- Upper part 014/C - 6.5 kg
- Small platform 014/EN - 1







014 EN tool platform



014 B sliding base with chain

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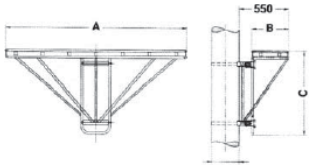
Ladder 010

Model 010/...
Ladder for climbing poles of steel construction Made of welded aluminium components (TIG welding system) with a zinc-plated steel hook
and complete fall protection device (model MA 19/1R)
- vertical working load 100 daN

010/1 length 3.7 m , weight 9.0 kg
010/2 length 4.7 m , weight 11.0 kg

On request: - other lengths

Platform 071EL



Model 071/EL...
Pole work platform
Suitable for repairs on round poles . Made of aluminium components welded (TIG)
with a set of nylon straps.
Made of aluminium components welded (TIG)
- working load 100 daN

Symbol	A	B	C	Weight
071/EL	684	410	488	8,5
071/EL 1.5	1500	410	925	13,5
071/EL 2.5	2500	410	925	17,0

On request:
- working load 150 daN
- other dimensions

Work platform 071V

Model 071/V...
Pole work platform
Suitable for repairs on round poles Semi-circular flat platform structure made
Made of aluminium components welded (TIG)
with complete chain fastening devices.
Weight 14 kg.
Working load 200 daN

Aluminium GIN POLE

Model 050

Aluminium pull-post for load hoisting operations, positioned in the ground, on upright columns and steel tower structures (trusses). Consists of 2 or more sections. TIG-welded aluminium alloy lattice structure.
Working load on the 'PN' head from 1000 to 10000 daN (10-100 kN).
Length from 6 to 22m with swivel head, anchor base
and towing hook with 5000 daN (50 kN) strength and design
with external or internal cable passage. Maximum pulling force
on the towing post "PN" consists of the load force "C" and the rope tension force "T"
In each case, the maximum pulling force must be calculated individually
before using the pole for pulling, taking into account:
-loading conditions
-post slope
-post bracing and seating system

On request:
-possibility to supply poles with different parameters, overall length, quantities, section lengths
-possibility to deliver a pole made of steel
Note: Each pole is completed with a serial number on the connecting joints for further identification and to avoid confusion and returns when ordering additional components.

Symbol	Pos.1 PN = T+C (daN) α=0°	Pos.2 α=20°	Pos.3 α=20°	Quantity/length (m.)	section	Weight of components(kg) ext	call	basis (kg)
050/1/6,2	1000	600	240	6	**3+3**	43	54	10
050/1/8,2	1000	600	240	8	**4+4**	54	66	10
050/1,5/8,2	1500	900	360	8	**4+4**	65	74	10
050/1,5/10,2	1500	900	360	10	**5+5**	76	87	10
050/1,5/12,3	1500	900	360	12	**4+4+4**	86	98	10
050/2/8,2	2000	1200	480	8	**4+4**	67	75	10
050/2/10,3	2000	1200	480	10	**4+2+4**	80	88	10
050/2/12,3	2000	1200	480	12	**4+4+4**	91	99	10
050/3/8,2	3000	1800	720	8	**4+4**	74	79	19
050/3/12,3	3000	1800	720	10	**4+4+4**	109	117	19
050/3/16,4	3000	1800	720	16	**4+4+4+4**	149	155	19
050/3/18,3	3000	1800	720	18	**6+6+6**	162	170	19
050/4/10,3	4000	2400	960	10	**4+2+4**	98	116	19
050/4/12,3	4000	2400	960	12	**4+4+4**	113	131	19
050/4/16,4	4000	2400	960	16	**4+4+4+4**	166	182	19
050/4/20,4	4000	2400	960	20	**5+5+5+5**	208	225	19
050/5/12,3	5000	3000	1200	12	**4+4+4**	139	152	19
050/5/16,4	5000	3000	1200	16	**4+4+4+4**	208	221	19
050/5/20,4	5000	3000	1200	20	**5+5+5+5**	266	278	19
050/7/12,3	7000	4200	1680	12	**4+4+4**	160	198	29
050/7/16,4	7000	4200	1680	16	**4+4+4+4**	210	245	29
050/7/20,4	7000	4200	1680	20	**5+5+5+5**	245	283	29
050/10/16,4	10000	6000	2400	16	**4+4+4+4**	241	278	60
050/10/20,4	10000	6000	2400	20	**5+5+5+5**	291	325	60

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Aluminium GIN POLE

Model 050 - components

Swivel head EXTERNAL rope crossing

Swivel base EXTERNAL rope crossing

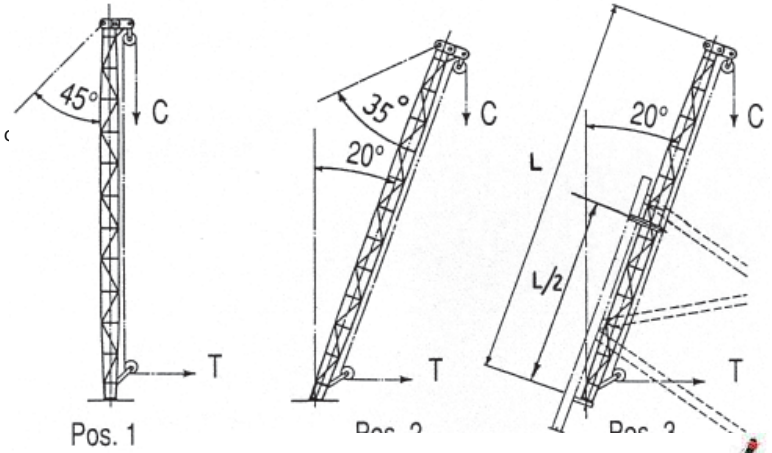
Swivel base with a hook ENTERPRISE rope crossing

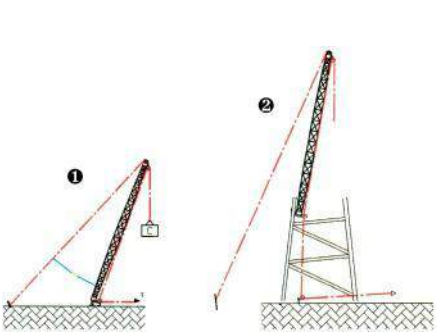
Swivel head with integrated pulley for INTERNAL rope crossing

Swivel base with cap for an INTERNAL rope crossing

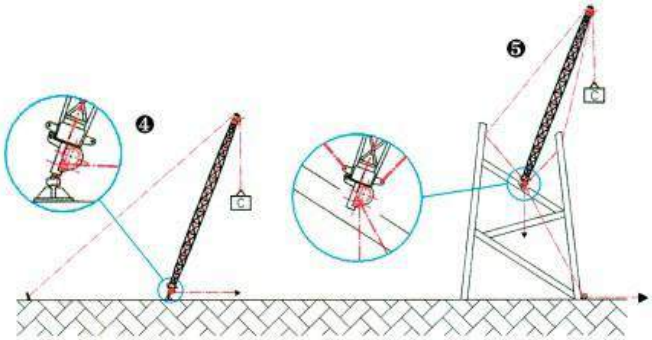
Ground base

PN = T + C
The rated load of each pole varies with inclination and anchor position At
The slope of 0 ° is defined by the formula
PN = T + C, where 'T' is the pulling force (i.e. applied by the winch) and 'C' is the
lifting weight. In other configurations
the burden must be assessed on an individual basis
Please refer to this formula and the sketch below - identify the correct model gin field to adjust your needs and calculate the desired lifting capacity.





Some "RIGHT" ways to use an "OUTSIDE" rope crossing

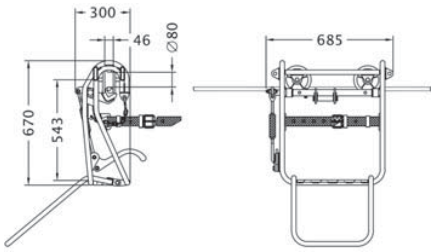


Some "RIGHT" ways to use an "INTERNAL" rope crossing

Inspection trolley model 032 for single cable

Model 032
Inspection trolley for single cable equipped with ball-bearing nylon wheels,
Stationary brakes , footrests and nylon straps for back support. Made of welded aluminium alloy (TIG SYSTEM).
Operating load: 100 daN Weight:
12 kg

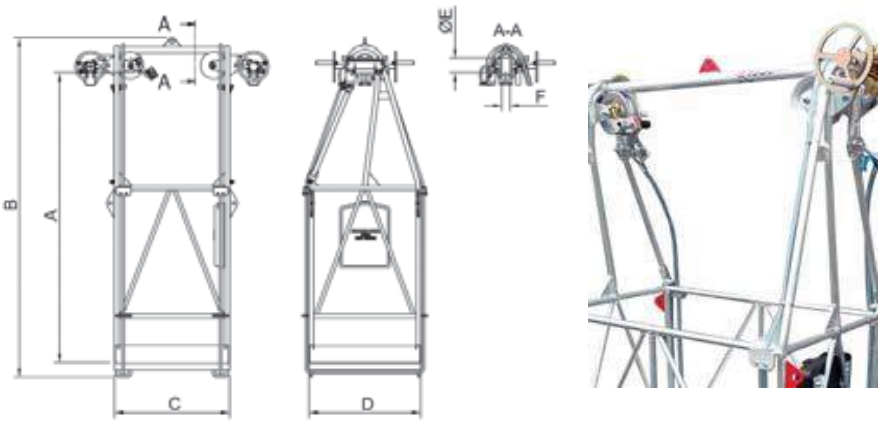
Optional features:
1) Metre counter
2) Aluminium wheels



Inspection trolley model 035 for single cable

Model 035
Inspection trolley for single wire
Trolley version for 1 or 2 employees. Transport trolley with a set of aluminium wheels on ball bearings .
Non-slip floor, 2 parking brake units , frame safety cables . Metre counter
Made of welded aluminium alloy (TIG SYSTEM).

Optional features:
1) Dynamic disc brake
2) Nylon wheels
3) Grounding
4) Sizes available on request



Symbol	Load daN	number operators	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	number of wires	Weight (kg)
035 A	100	1	1650	1920	650	630	80	46	○	42
035 B	200	2	1650	1920	1000	630	80	46	○	46

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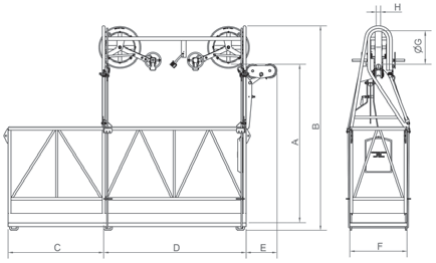
Model 035 LA inspection trolley for single wire

Model 035 LA
Inspection trolley for single wire
Trolley version for 2 operators. Transport trolley with set of 350 mm aluminium wheels on ball bearings with nylon lining . Equipped with balance wheels
Non-slip floor, 2 parking brake units , frame safety cables . Metre counter
Made of welded aluminium alloy (TIG SYSTEM).

Optional features:
1) Dynamic disc brake
2) Grounding
3) Sizes available on request

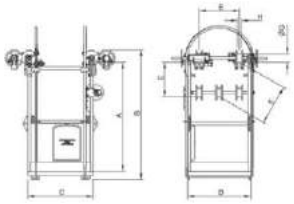


Symbol	Load daN	number operators	A	B	C	D	E	F	G	H	Number of conductors	Weight (kg)
035 LA	200	2	1650	2150	1000	1500	330	600	350	48	○	90

Inspection trolley model 036 for 2-3-4 cable bundles

Model 036
Inspection trolley for 2-3-4 cables
Trolley version for 1 operator . Inspection trolley with a set of aluminium wheels on ball bearings .
Construction with two cross arms and positioning rod Non-slip floor, 2 parking brake units , frame safety cables . Metre counter
Made of welded aluminium alloy (TIG SYSTEM).

Optional features:
1) Nylon wheels
2) Grounding
3) Sizes available on request



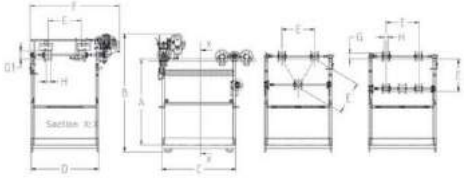
Symbol	Load daN	quantity operators	A	B	C	D	E	G	H	number of wires	Weight (kg)
036 A	100	1	1095	1300	650	630	400-457	80	46		43
036 B	100	1	1095	1300	650	630	400-457	80	46		49
036 C	100	1	1095	1300	650	815	400-600	80	46		50
036 D	100	1	1095	1300	650	815	400-600	80	46		53

Inspection trolley model 036M for 2-3-4 bundles of cable with combustion engine

Model 036M

Combustion powered inspection trolley
Available in configurations for 2, 3 or 4 wire harnesses with 1 operator with mechanical drive system
Made of weldable aluminium alloy construction (TIG SYSTEM) Functions and performances:
- 50cc, 2-stroke petrol engine with 2.4 hp (1.8 kW)
- Maximum speed 20 m/min (in both directions)
- Maximum inclination 25% (15 °)
- Mechanical gearbox, reverse direction with idle position
- Drive axle with rubber wheels for high traction
- Support and positioning of transverse arms with ball-bearing mounted aluminium wheels
- 2 stationary brakes, frame protection cables and metre counter

Optional features:
1) Nylon wheels
2) Grounding
3) Sizes available on request



Symbol	Load daN	quantity operators	A	B	C	D	E	G	H	number of wires	Weight (kg)
036 MA	100	1	1042	1450	900	815 400-500		70	55		67
036 MB	100	1	1042	1450	900	815 400-500		70	55		73
036 MC	100	1	1042	1450	900	915 400-600		70	55		73
036 MD	100	1	1042	1450	900	915 400-600		70	55		79

Inspection trolley model 034/2 for 2-3-4 cable bundles

Model 034/2

Inspection trolley for 2-3-4 cables
Trolley version for 2 operators. Inspection trolley with set of aluminium wheels on ball bearings . Non-slip floor, 2 parking brake units , frame safety cables . Metre counter
Made of welded aluminium alloy (TIG SYSTEM).

Optional features:
1) Nylon wheels
2) Grounding
3) Wheel lifting device model DT034MDSR-S0000
4) Sizes available on request

Symbol	Load daN	quantity operators	A	B	C	D	E	G	H	number of wires	Weight (kg)
034 2A	200	2	1042	1250	1300	915 400-600		70	55		64
034 2B	200	2	1042	1250	1300	915 400-600		70	55		69
034 2C	200	2	1042	1250	1700	915 400-600		70	55		68
034 2D	200	2	1042	1250	1700	915 400-600		70	55		74

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Inspection trolley model 034 M2 for 2-3-4 bundles of cable with combustion engine

Model 034M2
Combustion powered inspection trolley
Available in configurations for 2,3 or 4 wire harnesses with 2 operators with mechanical drive system , Inspection trolley with set of ball bearing aluminium wheels .
Non-slip floor, 2 parking brake units , frame safety cables . Metre counter
Made of welded aluminium alloy (TIG SYSTEM). Features and performances:
- 4-stroke petrol engine with 4.0 hp (2.95 kW)
- Maximum speed 30 m/min (in both directions)
- Maximum inclination 40% (22 °)

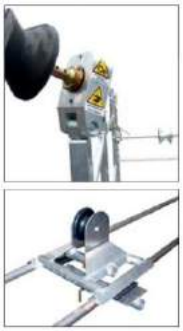
Optional features:
1 Nylon wheels
2 Grounding
3 Sizes available on request
4 Wheel lifting device model DT034MDSOR-S0000

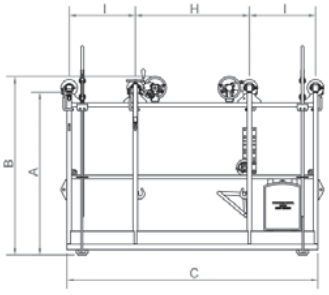
Symbol	Load daN	quantity operators	A	B	C	D	E	G	H	number of wires	Weight (kg)
034 M2A	200	2	1075	1300	1380	940	400-600	100	55		116
034 M2B	200	2	1365	1590	1380	940	400-600	100	55		136

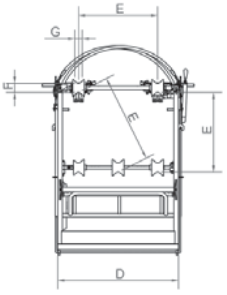
Inspection trolley model 034/4 for 2-3-4 cable bundles

Model 034/4
Inspection trolley for 2-3-4 cables
Trolley version for 2 operators. Inspection trolley with set of aluminium wheels on ball bearings .
Construction with two cross arms and positioning rod Non-slip floor, 2 parking brake units , frame safety cables . Metre counter
Made of welded aluminium alloy (TIG SYSTEM).

Optional features:
1 Nylon wheels
2 Grounding
3 Sizes available on request
4 Wheel lifting device model DT034MDSOR-S0000
5 Horizontal rotation of all transverse arms





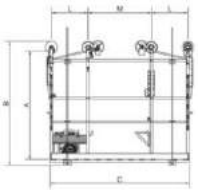


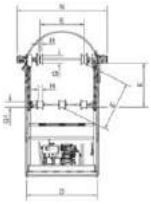
Symbol	Load daN	number of operators	A	B	C	D	E	G	H	quantity wires	Weight (kg)
034 4A	200	2	1042	1250	1900	915	400-600	55	865		105
034 4B	200	2	1142	1350	1900	915	400-600	55	865		112

Inspection trolley model 034 M4 for 2-3-4 bundles of cable with combustion engine

Model 034M4
Combustion powered inspection trolley
Hydraulic drive gear, aluminium traction wheels with rubber inserts.
Available in configurations for 2,3 or 4 wire harnesses with 2 operators with four transverse arms, positioning rod and non-slip flooring.
2 pcs parking brake , frame safety cables . Metre counter .
Made of welded aluminium alloy (TIG SYSTEM). Features and performances:
- 4-stroke petrol engine - 4 hp (2.95 kW)
- Maximum speed 30 m/min (in both directions)
- Maximum inclination 40% (22 °)

Optional features:
1) Nylon wheels
2) Grounding
3) Horizontal rotation of all crossbars
4) Wheel lift mechanism Art. no. DT034MDSR-S0000
5) Sizes available on request





DT034MDSR-S0000

Symbol	Load daN	quantity operators	A	B	C	D	E	G	H	number of wires	Weight (kg)
034 M4	200	2	1470	1700	1900	940400-600		100	55		218

Inspection bicycle BCN 038

Model BCN 038
Bicycle for the placement of signal balls of detachments . Product innovation :
- aluminium alloy (TIG) welded construction, which allows a reduction in weight and dimensions.
- innovative drive transmission mode, " cross joint " to avoid transmission system error.
- optimised design, emergency brake

The device is adapted with an actual safety standard . In fact, the solution prevents , uncontrolled movements and accelerations , practically it will be activated only at the request of the operator .

- very low gear ratios require very little pedal pressure , for easy running up to 25% of the swing range .
- Adjustment of seat height , as well as tilt , adapting the device to different body sizes ,
- structure of the bicycle , allows easy folding of the bicycle, reduction in size to the original packaging for transport.

Additional features:
Equipped with a disc brake and an emergency brake clamping on the cable, controlled by a lever , wheel distance is adjustable : 400,457 and 500 mm for double and quadruple cables, 400,(457,500 mm on special order) for triple cables.

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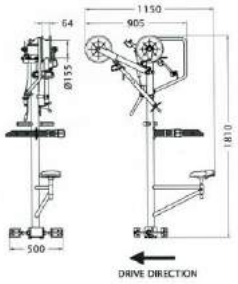
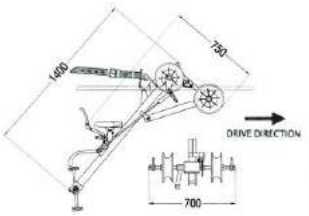
Inspection trolley 038/1



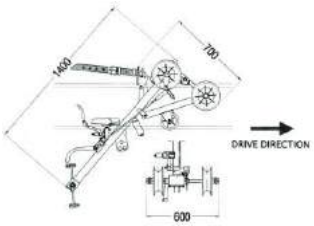
Model 038/1
Inspection bicycle for individual power line conductors Weight: 25 kg.
Load capacity: 100 daN

Inspection trolley 038/2

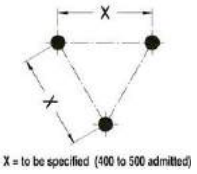


Model 038/2
Inspection bicycle for double conductors of power lines Weight: 32 kg.
Load capacity: 100 daN

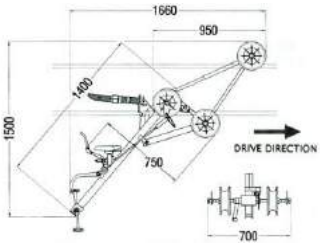
Inspection trolley 038/3



Model 038/3
Inspection bicycle for triple conductors of power lines Weight: 38 kg.
Load capacity: 100 daN.



Inspection trolley 038/4



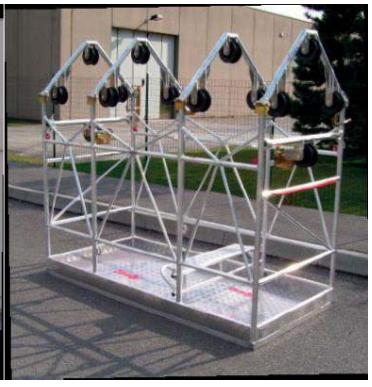
Model 038/4
Inspection bicycle for quadruple conductors of power lines Weight: 42 kg.
Load capacity: 100 daN.

Inspection basket bike 038 1C

Model 038 1C
Inspection basket bike . Basket version, suitable for hanging warning balls
or inspection of a single conductor on an overhead line Made of TIG-welded aluminium alloy

Cardan driveline . Negative braking system . Stationary braking system Low gear ratio to reduce pedal effort . Maximum (recommended) gradient of up to 30% . Adjustable seat . High-strength nylon rollers with 'adiprene' . Counter

Our unusual projects . You are welcome to inquire



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PCW3000 Diesel rope winch

The PCW3000 is powered by a Honda GX-35 4-stroke engine that can also operate at an angle. The entire ascender weighs just 9.5kg and the load capacity on a single string is 700kg. The reason this winch is so popular with powerlifters is that it provides excellent performance at a low weight! Additional accessories are available for the ascender for long-distance transport, such as a lightweight frame or mounting to a car with a special trunk made of durable plastic.
This innovative winch has virtually no competition in its class.
The PCW3000 winch will help you to operate in hard-to-reach areas. Polyester rope with a diameter of 10 mm is recommended, rope length unlimited
Pulling force 700 kg
Speed 10m/min
Winch 76 mm Rope
minimum 10 mm
Rope maximum 16 mm
Dimensions 29 x 35 x 26 cm
Weight 9.5 kg

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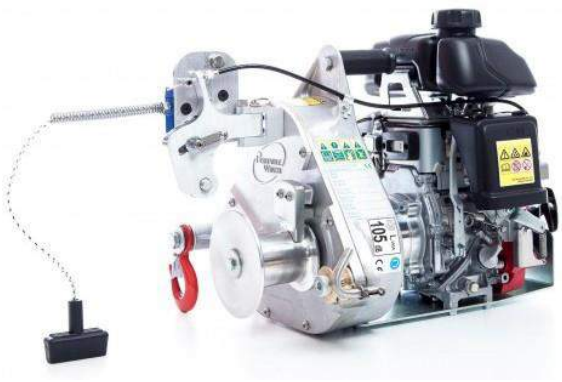
PCW5000 Diesel rope winch

The PCW5000 is powered by a Honda GXH50 4-stroke engine that can also operate at an angle. The entire winch weighs just 16 kg and has a load capacity of 1,000 kg on a single rope, increasing to 2,000 kg with the use of a pulley. The perfect winch for energy work as assembly support.
Two speeds depending on the diameter used winch .
At maximum capacity with a 57mm winch, the speed is 12m / min.
With an 85mm winch (optional) the load capacity will be 700kg and the speed 18m/min.
Polyester rope with a diameter of 12 mm is recommended, the length of the rope remains unlimited.
The L9/1000 is an investment that will quickly pay off by providing excellent support for years to come.

Pulling power 1000 kg 57 mm winch
Option : 85 mm winch (700 kg)
Speed 12m/min at 57 mm winch
Speed 18m/min at 85 mm winch
Minimum rope 10 mm
Maximum rope 16 mm
Recommended rope 12 mm
Dimensions 36 x 37 x 36 cm
Weight 16 kg

PCH1000 diesel rope winch with lifting capacity



The PCH1000 is the ideal tool for lifting load!
The winch has been specially designed for lifting loads on construction sites, assisting in the construction of overhead lines , installing telecommunications structures or installing various equipment.
It can lift a load of 250 kg with a single line and the pulley system doubles the force to 500 kg.
An integrated rope grab system (brake) will hold the load in position allowing the operator to work safely.
This system can be used to lift or lower a load. A number of accessories are available to simplify the installation process and anchor the winch to various anchor points, such as vehicle, pole, pylon and others. Standard 57 cm winch
Tractive force 775 kg

Lifting force 250 kg
Speed 12m/min
Optional 85 mm winch
Pulling force 540 kg
Lifting force 175 kg
Speed 18m/min

Rope maximum 13 mm
Dimensions 50 x 37 x 36 cm
Weight 19 kg

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PCH2000 diesel rope winch with lifting capability

The PCH2000 model is equipped with a Honda GX-160 cc engine, which offers excellent performance in a wide range of tasks such as pole erection , insulator replacement, cable pulling and other strenuous tasks. This winch can lift a load of up to 450 kg with a single line or, using a pulley system, doubles the lifting capacity.
up to 900 kg. The integrated rope gripping system allows the operator to work safely and the start/stop mechanism means he can concentrate on the task at hand.
This system can be used to lift or lower a load . A number of accessories are available to simplify the installation process and anchor the winch to various anchor points, such as as a vehicle, pole, pylon and others.

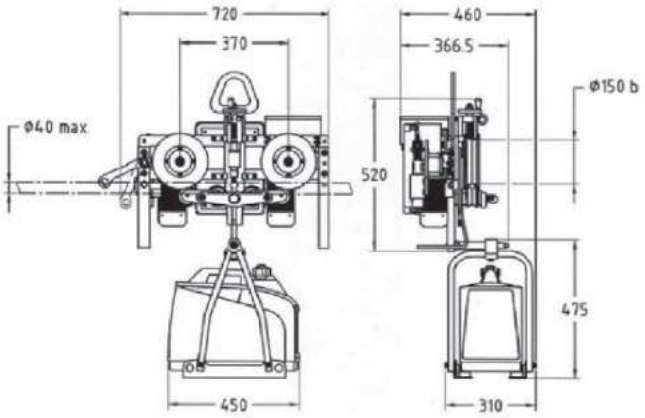
Standard 108 cm winch

Pulling power 1150 kg
Lifting force 450 kg

Speed 20m/min

Rope minimum 12 mm
Rope maximum 13 mm
Dimensions 48 x 37 x 36 cm
Weight 34.5 kg

Remote-controlled cable replacement robot model 101 RBT



PARAMETERS

Speed: 20 m / min 'in both directions
Pulling capacity in kg : 150 kg Motor 1.8 HP
Weight: 46 kg

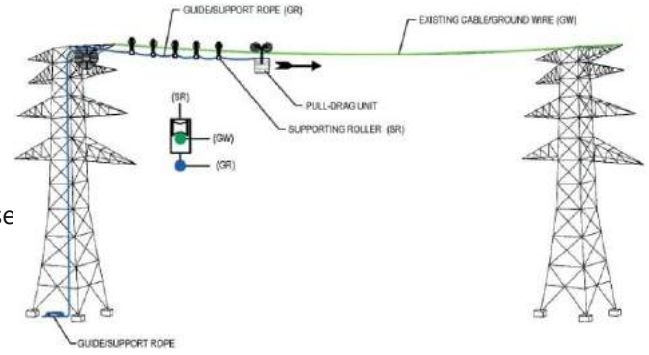
Remote-controlled pulling/pulling unit Aluminium frame . Rubberised aluminium wheels and safety latch.
Mechanical braking device to prevent uncontrolled reverse movement.
Suitable for hoses from 12 to 36 mm in diameter and passage at the centre joints up to 44 mm (hexagonal section).

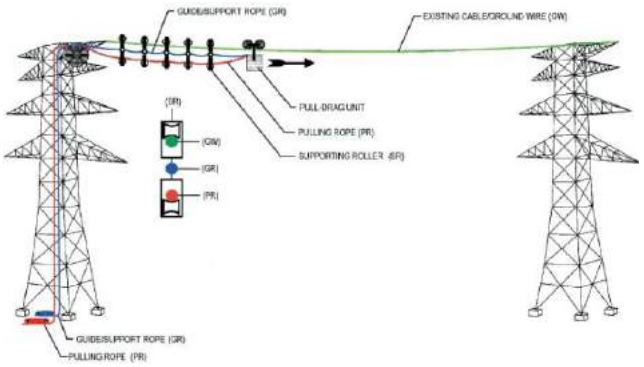
Complete with lifting and towing accessories.

Remote-controlled via wireless radio control unit IP 67 (weight 100 g).
with push-button forward/reverse/brake control with 400m range.

Option :
Battery version

DRAGGING METHODS





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101A1 Hydraulic axial drum winch 10 kN capacity for stringing LV and MV overhead lines, hoisting and tower erection as well as underground cabling and sagging

PARAMETERS

Maximum load 10 kN
Maximum speed 35 m/min
Speed at max load 13m/min
Drum dimensions ø 160(331) x 440 mm
Drum capacity 250 m rope 10 mm
Weight without rope 190 kg

ENGINE

Petrol (8.5 hp) 6.3 kW Air-cooled Start - cable

DIMENSIONS

Length 1520 mm
Height 580 mm
Width 660 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- transport kit with rigid axle for manual towing
- Levelled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

14-PW winch with large groove and rope holder
17-PW Special drum with automatic device retractable
A-Ø160x250 (rope 200 m Ø 8)
B- Ø160x560 (rope 500 m Ø8)




101C1 Front drum hydraulic winch 10 kN capacity for stringing LV and MV overhead lines, hoisting and tower erection as well as underground cabling and sagging.

PARAMETERS

Maximum load 10 kN
Speed at maximum tension 13 m/min
Maximum speed 35 m.p.m.
Force at maximum speed 3.8 kN
Drum dimensions ø 270(480) x 520 mm ,
reel ø 230 mm Drum capacity 580 m rope
10 mm Weight without rope 350 kg

ENGINE

Petrol (8.5 hp) 6.3 kW Air-
cooled Start - cable

DIMENSIONS

Height 870 mm
Width 1150 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- winch with large groove and line holder
- transport kit with rigid axle for manual towing
- Levelled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

11-PW - road kit (80 km/h) 17-PW
- cone drum

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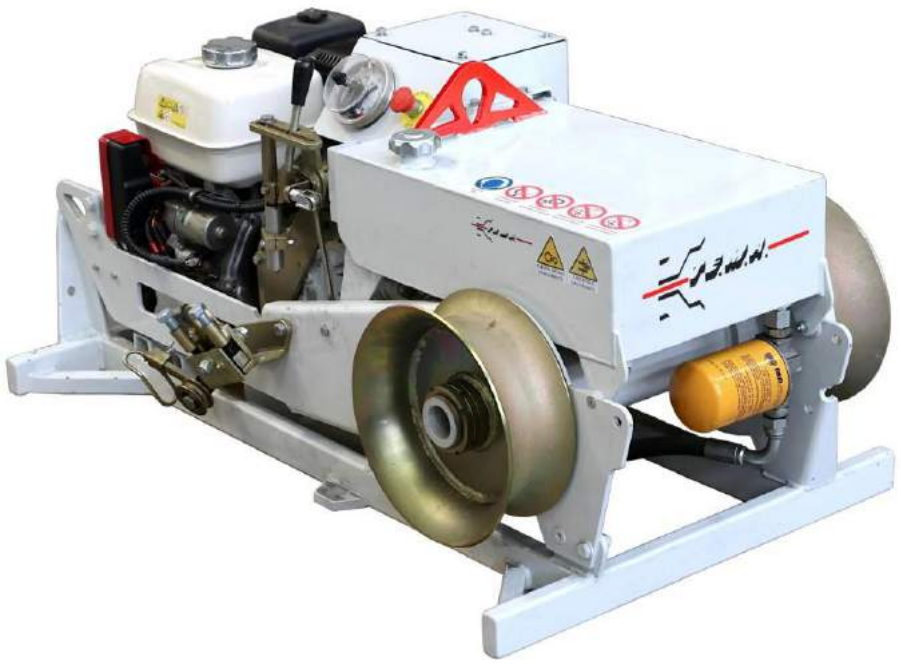
101S1 Hydraulic winch 15 kN capacity with two large-groove side capstans for stringing LV and MV overhead lines, hoisting and tower erection as well as underground cabling and sagging.



PARAMETERS

Maximum load 15 kN
Speed at maximum tension 13 m/min
Maximum speed 35 m.p.m.
Force at maximum speed 7.6 kN
200 mm dia winch (on panel side) 250 mm dia winch (on other side)
Weight without rope 320 kg

ENGINE

Diesel (11.5 hp) 8.5 kW
Air-cooled
Start- electric

DIMENSIONS

Length 1450 mm
Height 650 mm
Width 750 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- winch with large groove and line holder
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

02-PW Rigid axle set for manual towing
17-PW Special automatic drum (rope capacity 200 m ø 8 mm)




109T1.5 Front drum hydraulic winch 15 kN capacity for stringing LV and MV overhead lines, hoisting and tower erection as well as underground cabling and sagging.

PARAMETERS

Maximum load 15 kN
Speed at maximum tension 25 m/min
Maximum speed 70 m/min
Drum dimensions ø 350 x 620 mm
Drum capacity 400 m rope 12 mm
Weight without rope 1260 kg

ENGINE

Diesel (25 hp) 19.0 kW
Cooling : liquid
Emission standard -(EU) 2016/1628 StageV

DIMENSIONS

Length 2600 mm
Height 1850 mm
Width 1750 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- 300 m. 12 mm HMPE rope
- remote control with console on 5 m cable
- independent stabilisers (front and rear)
- the machine cover can be opened from three sides
- road train with a lifting capacity of 1350 kg up to 80 km/h
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

04-PW Radio control panel
13-PW Pre-heater up to (30 degrees)
30-PW Spare wheel
34-PW Pressure roller on drum

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109T2 Hydraulic front drum winch 30 kN capacity, suitable for transport by helicopter, for stringing LV and MV overhead lines, hoisting and tower erection as well as underground cabling and sagging.

PARAMETERS

Maximum load 30 kN
Speed at maximum tension 18m/min
Maximum speed 65 m/min
Drum dimensions ø 350(510) x 620 mm
Drum capacity 350 m rope 13 mm
Weight without rope 840 kg

ENGINE

Diesel (25 hp) 19 kW
Cooling : liquid
Emission standard -(EU) 2016/1628 StageV

DIMENSIONS

Length 1850 mm
Height 1380 mm
Width 1500 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- independent stabilisers (front and rear)
- Rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

11-PW Road trailer kit (80 km / h)
14-PW Large groove winch with older clamp, version A - 10kN Capacity
Version B - 30 kN Capacity
03-PW wired remote control
04-PW wireless remote control
13-PW pre-heater up to (30 degrees)

109T5 Hydraulic front drum winch 55 kN capacity, suitable for transport by helicopter, for stringing LV and MV overhead lines, hoisting and tower erection as well as underground cabling and sagging.

PARAMETERS

Maximum load 55 kN
Speed at maximum pull 1.0 km/h
Maximum speed 5.0 km/h
Force at maximum speed 11.0 kN
Drum dimensions ø 450 x 700 mm
Drum capacity 350 m rope 18 mm
Weight without rope 1100 kg

ENGINE

Diesel (36.5 hp) 27.0 kW
Cooling : liquid
Emission standard -(EU) 2016/1628 StageV

DIMENSIONS

Length 1900 mm
Height 1300 mm
Width 1650 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- independent stabilisers (front and rear)
- Rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

11-PW Road trailer kit (80 km / h)
14-PW Large groove winch with older clamp, version A - 10 kN Capacity
Version B - 30 kN Capacity

03-PW Wired remote control
04-PW Wireless remote control

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107R1 Hydraulic puller 15 kN capacity for single rope pulling on overhead stringing operations as well as underground cabling.

PARAMETERS

Maximum load 15 kN
Speed at maximum pull 1.0 km/h
Maximum speed 4.5 km/h
Force at maximum speed 5.0 kN
Spool dimensions ø 200 x 220 mm , winches 200 mm
Spool capacity 500 m rope 9 mm , max rope 10 mm
Weight without rope 440 kg

ENGINE

Petrol (18.0 hp) 13.0 kW Cooling : liquid
Start - electric

DIMENSIONS

Length 1450 mm
Height 750 mm
Width 850 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- Heat-treated steel winches
- automatic winding system
- removable rear spool
- roller system for laying underground cables
- rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

01-PW Adaptation for digital data recorder, counter and speedometer
11-PW Road trailer kit (80 km/h)
18-PW Digital metre counter




107R2 Hydraulic puller 25 kN capacity for single rope pulling on overhead stringing operations as well as underground cabling

PARAMETERS

Maximum load 25 kN
Speed at maximum pull 1.5 km/h
Maximum speed 5.0 km/h
Force at maximum speed 7.5 kN 250 mm winches
Maximum cable diameter 10 mm
Weight 950 kg

MODEL

107R2 - model with manual control panel
107R2D - model with control panel equipped with a 7" LCD touch screen that includes: setting the maximum pulling force and instant indication, counter, speed indicator and hours worked. USB output for downloading data for recording

DIMENSIONS

Length 2350 mm
Height 1700 mm
Width 1600 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- heat-treated steel winches
- automatic bobbin winding system with a diameter of 1100 to 1400 mm
- rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

Diesel engine (25.0M) 18.6 kW Cooling : liquid
Emission standard -(EU) 2016/1628 StageV

ADDITIONAL EQUIPMENT - OPTIONS

01-PW Adaptation for digital data recorder, counter and speedometer
06-PW Adaptation to the work of laying earth cables (Telescopic rod AT1.3 - optional)
07-PW Hydraulic PTO for remote winder
03-PW Wired remote control 04-PW Wireless remote control 05-PW Rope attachment bracket (hydraulic)
13-PW Pre-heater (up to -30°C) 18-PW Digital metre counter
20-PW Dynamic speed control pull-in force

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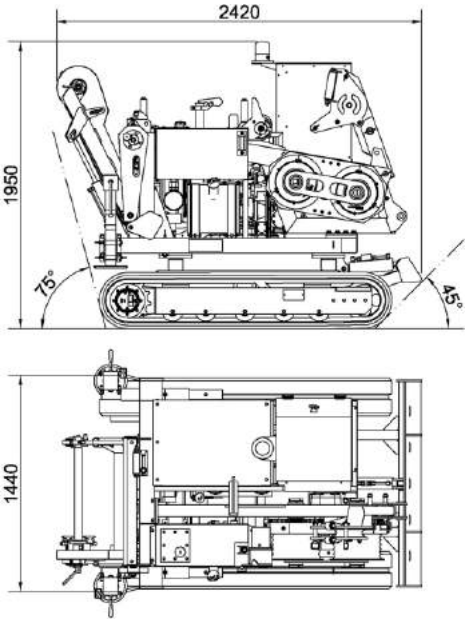
107RS3 Hydraulic puller 35 kN capacity for single rope pulling on overhead stringing operations as well as underground cabling.



PARAMETERS

Maximum load 35 kN
Speed at maximum pull 1.5 km/h
Maximum speed 5.1 km/h
Winches 300 mm
Maximum cable diameter 13 mm
Weight 1750 kg

MODEL

107RS3 - control panel model equipped with a 7" LCD touchscreen, which includes: maximum pulling force setting and instant indication, counter, speed indicator and hours worked. USB output for downloading data for recording

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- radio control unit
- Heat-treated steel winches
- automatic bobbin winding system with a diameter of 1100 to 1400 mm
- Mechanical rear supports and front plough
- Maximum track speed 5 km/h
- Balanced upper lifting point and fastening lugs
- leveled hook for balanced winch lifting

Diesel engine (25.0M) 18.6 kW Cooling
: liquid
Emission standard -(EU) 2016/1628 StageV

DIMENSIONS

Length 2350 mm
Height 1700 mm
Width 1600 mm

06-PW Adaptation to the work of laying earth cables

07-PW Hydraulic PTO for remote winder
05- PW Rope clamp (hydraulic)
13-PW Pre-heater (up to -30 °C)
20-PW Dynamic speed control pull-in force

107R5 Hydraulic puller 50 kN capacity for single rope pulling on overhead stringing operations as well as underground cabling.

PARAMETERS

Maximum load 50 kN
Speed at maximum pull 2.1 km/h
Maximum speed 5.0 km/h
Winches 400 mm
Maximum cable diameter 16 mm
Weight 2,300 kg

MODEL

107R5 - model with manual control panel
107R5D - model with control panel equipped with a 7" LCD touch screen, which includes: setting the maximum pulling force and instant indication, counter, speed indicator and hours worked. USB output for downloading data for recording

DIMENSIONS

Length 2700 mm
Height 2100 mm
Width 1900 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- one dynamometer for direct reading of the pull-in value with load limiting device
- Heat-treated steel winches
- automatic bobbin winding system with a diameter of 1100 to 1400 mm
- Rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

Diesel engine (73 hp) 54.0 kW Cooling: liquid
Start - electric
Emission standard - (EU)2016/1628 Stage V

ADDITIONAL EQUIPMENT - OPTIONS

01-PW Adaptation for digital data recorder, counter and speedometer
06- PW Adaptation to the work of laying earth cables
07- PW Hydraulic power take-off for remote winder
03-PW Wired remote control
04-PW Wireless remote control
05-PW Rope attachment bracket (hydraulic)
13-PW Pre-heater (up to -30°C)
18-PW Digital metre counter
20-PW Dynamic speed control pull-in force



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107R8 Hydraulic puller 90 kN capacity for single rope pulling on overhead stringing operations as well as underground cabling

PARAMETERS

Maximum load 90 kN
Speed at maximum tension 2 km/h
Maximum speed 5 km/h
Force at maximum speed 40 kN
Winches 600 mm
Maximum cable diameter 24 mm
Weight 3400 kg

MODEL

107R8 - manual control panel model
107R8D - model with control panel equipped with control panel model featuring a 7" LCD touchscreen which includes: setting the maximum pulling force and instant indication, counter, speed indicator and hours worked. USB output for downloading data for recording

DIMENSIONS

Length 3400 mm
Height 2100 mm
Width 2200 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- Dynamometer for direct reading of tractive effort with load limiter
- Heat-treated steel winches
- automatic bobbin winding system with a diameter of 1100 to 1400 mm
- Remote control with console 5 m cable
- rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

Diesel engine (125 hp) 93 kW Cooling: liquid
Emission standard - (EU)2016/1628 Stage V

ADDITIONAL EQUIPMENT - OPTIONS

06-PW Adaptation to the work of laying earth cables
07-PW Hydraulic PTO for remote winder
28-PW GSM module with GPS geolocation
04-PW Wireless remote control
05-PW Hydraulic cable stop handle
13-PW Pre-heater (up to -30 °C)
20-PW Dynamic pull-in force speed control

107R10 Hydraulic puller 100 kN capacity for single rope pulling on overhead stringing operations

PARAMETERS

Maximum load 100kN
Speed at maximum pull 2.1 km/h
Maximum speed 5 km/h
Force at maximum speed 40 kN
Winches 550 mm
Maximum cable diameter 22 mm
Weight 4250 kg

MODEL

107R10 - model with manual control panel
107R10D - model with control panel equipped with a 7" LCD touch screen, which includes: setting the maximum pulling force and instantaneous display, counter, speed and elapsed time display USB output for data download to record

DIMENSIONS

Length 3850 mm
Height 2330 mm
Width 2330 mm

FEATURES AND OPTIONS

Standard functions
- one hydraulic circuit with negative braking system
- Heat-treated steel winches
- automatic bobbin winding system with a diameter of 1100 to 1400 mm
- Remote control with console 5 m cable
- Rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

Diesel engine (125 hp) 93 kW
Cooling: liquid
Emission standard - (EU)2016/1628 Stage V

ADDITIONAL EQUIPMENT - OPTIONS

06-PW Adaptation to the work of laying earth cables
07-PW Hydraulic PTO for remote winder
28-PW GSM module with GPS geolocation
04-PW Wireless remote control
05-PW Hydraulic cable stop handle
13-PW Pre-heater (up to -30 °C)
20-PW Dynamic pull-in force speed control

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107R5.2 Hydraulic puller 100 kN capacity for one or two ropes for overhead stringing operations, designed to be used as a twin independent capstans puller (50+50 kN) as well as in coupled mode (100 kN)

PARAMETERS

Maximum load 2x50 kN or 1x100 kN
Speed at maximum tension 2.0 km/h
Maximum speed 5.0 km/h
Force at maximum speed 2x18 kN or 1x36 kN
Winches 550 mm
Maximum rope diameter 22 mm
Weight 5400 kg

ENGINE

Diesel (143 hp) 105 kW
Cooling : liquid
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 3850 mm
Height 2330 mm
Width 2400 mm

FEATURES AND OPTIONS

Standard functions
- two hydraulic circuits with negative braking system
- two dynamometers for direct reading of retraction values with load limiting device
- Heat-treated steel winches
- two independent automatic bobbin winding systems with diameters o f 1100 to 1400 mm
- wired remote control
- Rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

01-PW Adaptation for digital data recorder, counter and speedometer
07-PW Hydraulic PTO for remote winder
04-PW Wireless remote control
05-PW Rope attachment bracket (hydraulic)
13-PW Pre-heater (up to -30°C)
18-PW Digital metre counter
20-PW Dynamic speed control pull-in force

107R7.2 Hydraulic puller 150 kN capacity for one or two ropes on overhead stringing operations, designed to be used as a twin independent capstans puller (75+75 kN) as well as in coupled mode (150 kN

PARAMETERS

Maximum load 2x75 kN or 1x150 kN
Speed atmaximum tension 2.2 km/h
Maximum speed 5.0 km/h
Force at maximum speed 2x27 kN or 1x54 kN
Cabstan 600 mm Maximum cable diameter 24 mm
Weight 6800 kg

ENGINE

Diesel (218 hp) 160 kW
Cooling : liquid
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 4050 mm
Height 2400 mm
Width 2200 mm

FEATURES

- two hydraulic circuits with negative braking system
- two dynamometers for direct reading of retraction values with load limiting device
- Heat-treated steel winches
- two independent automatic bobbin winding systems with diameters o f 1100 to 1400 mm
- wired remote control
- Rigid axle with towing capacity up to 30 km/h
- leveled hook for balanced winch lifting

ADDITIONAL EQUIPMENT - OPTIONS

01-PW Adaptation for digital data recorder, counter and speedometer
07-PW Hydraulic PTO for remote winder
04-PW Wireless remote control
05-PW Rope attachment bracket (hydraulic)
13-PW Pre-heater (up to -30°C)
18-PW Digital metre counter
20-PW Dynamic speed control pull-in force




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FA155.11 Hydraulic tensioner-puller 50 kN capacity for single conductor and OPGW cable stringing operations.

BRAKING PARAMETERS

Maximum load 50 kN
Maximum speed 5.0 km/h

PARAMETERS

Winches 1500 mm
Pulling capacity 50 kN at 1.0 km/h
Maximum cable diameter 40 mm Weight
2900 kg

ENGINE

Diesel engine (36.5 hp) 27 kW Cooling:
liquid
Emission standard - (EU)2016/1628 Stage

DIMENSIONS

Length 3200 mm
Height 2200 mm
Width 1800 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
Remote control with console 5 m cable
- 1 set of hydraulic quick-release couplings for the drive adapted to the hydraulic stand
or one set of rope reels
- Adherence winches with replaceable nylon inserts
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

04-PT Radio control panel
07-PT Hydraulic connection for hydraulic press 08-PT Hydraulic line/line stop clamp
18-PT Preparation for more connections
20-PT Pre-heating at -30 degrees
37-PT GPS module with GPS geolocation
05-PT Additional hydraulic power take-off on brake circuit

FAD155.11 Digital hydraulic tensioner-puller 50 kN capacity for single conductor and OPGW cable stringing operations.

BRAKING PARAMETERS

Maximum load 50 kN
Maximum speed 5.0 km/h

PARAMETERS

Winches 1500 mm
Pulling capacity 50 kN at 1.0 km/h
Maximum cable diameter 40 mm Weight
2900 kg

ENGINE

Diesel engine (36.5 hp) 27 kW
Cooling: liquid
Emission standard - (EU)2016/1628 Stage

DIMENSIONS

Length 3200 mm
Height 2200 mm
Width 1800 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
Control panel equipped with a 7" LCD touchscreen display, which includes: maximum pulling force setting and instant indication, counter, speed indicator and hours worked.
USB output for data download
Remote control with console 5 m cable
- 1 set of hydraulic quick-release couplings for the drive adapted to the hydraulic stand
or one set of rope reels
- Adherence winches with replaceable nylon inserts
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

04-PT Radio control panel
07-PT Hydraulic connection for hydraulic press
08-PT Hydraulic line/line stop clamp
18-PT Preparation for more connections
20-PT Pre-heating at -30 degrees
37-PT GPS module with GPS geolocation
05-PT Additional hydraulic power take-off on brake circuit

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FA156.12 Hydraulic tensioner-puller 70 kN capacity for single conductor and OPGW cable stringing operations.

BRAKING PARAMETERS

Maximum load 70 kN
Maximum speed 5.0 km/h

PARAMETERS

Winches 1500 mm
Pulling capacity 70 kN at 0.8 km/h Maximum

ENGINE

Diesel engine (36.5 hp) 27 kW
Cooling: liquid

DIMENSIONS

Length 3200 mm
Height 2500 mm
Width 2100 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 1 set of hydraulic drive couplings suitable for two hydraulic stands or one cable reel
- Adherence rollers with replaceable nylon inserts
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

01-PT Adaptation for digital data recorder, counter and speedometer
07-PT Hydraulic press connection
08-PT Hydraulic line/conduit stop clamp
14-PT Steel rollers - thermally treated
18-PT Preparation for more connections
20-PT Pre-heating at -30 degrees

FA1510.12 Hydraulic tensioner-puller 100 kN capacity for single/double conductors and OPGW cable stringing operations.

BRAKING PARAMETERS

Maximum load 100 kN
Maximum speed 5.0 km/h

PARAMETERS

Winches 1500 mm
Pulling capacity 100 kN at 0.6km/h

Diesel engine (36.5 hp) 27 kW Cooling:
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 3350 mm
Height 2350 mm
Width 2100 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 1 set of hydraulic drive couplings suitable for two hydraulic stands or one cable reel
- Adherence rollers with replaceable nylon inserts
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

01-PT Adaptation for digital data recorder, counter and speedometer
07-PT Hydraulic connection under hydraulic press
08-PT Hydraulic line/conduit stop clamp
14-PT Steel rollers - thermally treated
18-PT Preparation for more connections
20-PT Pre-heating at -30 degrees

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FA155.22 Hydraulic tensioner-puller with two independent hydraulic circuits, 2x50 kN or 1x100 kN capacity for stringing of up to 2 bundled conductors as well as OPGW cable.

BRAKING PARAMETERS

Maximum load 2x50 kN 1x100 kN
Maximum speed 5.0 km/h

PARAMETERS

Winches 1500 mm
Pulling capacity 2x50 , 1x100 kN at 1.1 km/h
Maximum cable diameter 40 mm
Weight 7700 kg

ENGINE

Diesel engine (73 hp) 54 kW Cooling:
liquid
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 4400 mm
Height 2350 mm
Width 2400 mm

FEATURES

Standard functions
Two hydraulic circuits with negative braking system
Remote control with console 5 m cable
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Adherence winches with replaceable nylon inserts
- Gearbox (two speeds) per circuit
- Hydraulic stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced upper anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

04-PT Radio control panel
07-PT Hydraulic connection for hydraulic press
08-PT Hydraulic line/line stop clamp
18-PT Preparation for more connections
20- PT Pre-heating at -30 degrees
05-PT Additional hydraulic PTO on winch circuit
21- PT Additional gearbox
37-PT GPS geolocation module

FAD155.22 Hydraulic tensioner-puller with two independent hydraulic circuits, 2x50 kN or 1x100 kN capacity for stringing of up to 2 bundled conductors as well as OPGW cable.

BRAKING PARAMETERS

Maximum load 2x50 kN 1x100 kN
Maximum speed 5.0 km/h

PARAMETERS

Winches 1500 mm
Pulling capacity 2x50 , 1x100 kN at 1.1 km/h
Maximum cable diameter 40 mm
Weight 6900 kg

ENGINE

Diesel engine (73 hp) 54 kW
Cooling : Fluid
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 4350 mm
Height 2350 mm
Width 2320 mm

FEATURES

Standard functions
Two hydraulic circuits with negative braking system
Control panel with 7" LCD touchscreen display which includes: maximum pulling force setting and instant indication, counter, speed indicator and hours worked . USB output for downloading data Remote control with console 5 m cable
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Adherence winches with replaceable nylon inserts
- Gearbox (two speeds) per circuit
- Hydraulic stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

04-PT Radio control panel
07-PT Hydraulic connection for hydraulic press
08-PT Hydraulic line/line stop clamp
18-PT Preparation for more connections
20- PT Pre-heating at -30 degrees
05-PT Additional hydraulic PTO on winch circuit
21- PT Additional gearbox
37-PT GPS geolocation module

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AF062.11 Hydraulic puller-tensioner 25 kN capacity for single conductor stringing operations

RETRACTION AND BRAKING PARAMETERS

Maximum retraction and braking load 25 kN Maximum retraction and braking speed 3.2 km/h Retraction speed at max load 1.2 km/h Load at max speed 20 kN 660 mm winches

PARAMETERS

Maximum cable diameter 23 mm
Maximum pilot cable diameter 18 mm
Weight 1400 kg

ENGINE

Diesel engine (25 hp) 19 kW
Cooling : liquid
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 2450 mm
Height 1500 mm
Width 1500 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

01- PT Adaptation for digital data logger, counter and speedometer
04-PT Wireless control panel
03- PT Wired remote control
08-PT Hydraulic line/duct stop clamp
20-PT Pre-heater by -30 degrees
02- PT Dynamic pulling force control

AF152.11 Hydraulic puller-tensioner 25 kN capacity for single conductor and OPGW cable stringing operations

RETRACTION AND BRAKING PARAMETERS

Maximum retraction and braking load 25 kN
Maximum retraction and braking speed 5 km/h
Retraction speed at max load 2 km/h
Load at max speed 18 kN

PARAMETERS

Winches 1500 mm
Maximum cable diameter 40 mm
Maximum pilot cable diameter 18 mm
Weight 2850 kg

ENGINE

Diesel engine (36.5 hp) 27 kW Cooling:
liquid

DIMENSIONS

Length 3200 mm
Height 2200 mm
Width 1800 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

01- PT Adaptation for digital data logger, counter and speedometer
04-PT Wireless control panel
03-PT Wired remote control
08-PT Hydraulic line/duct stop clamp
20-PT Pre-heater by -30 degrees
02- PT Dynamic pulling force control

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AF155.11 Hydraulic puller-tensioner 50 kN capacity for single conductor and OPGW cable stringing operations

RETRACTION AND BRAKING PARAMETERS

Maximum retraction and braking load 50 kN
Maximum retraction and braking speed 5.0 km/h
Retraction speed at max load 2.1 km/h
Load at max speed 23 kN

PARAMETERS

Winches 1500 mm
Maximum cable diameter 40 mm
Maximum pilot cable diameter 18 mm
Weight 3600 kg

ENGINE

Diesel engine (73 hp) 54 kW
Cooling: liquid
Emission standard - (EU)2016/1628 Stage V

DIMENSIONS

Length 3200 mm
Height 2500 mm
Width 2100 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

04- PT Wireless control panel
07-PT Hydraulic connection under hydraulic press
08-PT Hydraulic line/conduit stop clamp
15-PT Adherence rollers with replaceable inserts nylon
18-PT Preparation for more connections
20-PT Pre-heating at -30 degrees
02-PT Dynamic pulling force control
05- PT Additional hydraulic PTO on winder circuit
37-PT GSM with GPS geolocation
32-PT Rear hydraulic stabilisers

AF156.12 Hydraulic puller-tensioner 70 kN capacity for single/double conductors and OPGW cable stringing operations

RETRACTION AND BRAKING PARAMETERS

Maximum retraction and braking load 70 kN Maximum retraction and braking speed 5.0 km/h Retraction speed at max load 1.9 km/h Load at max speed 26 kN

PARAMETERS

Winches 1500 mm
Maximum cable diameter 40 mm Maximum pilot cable diameter 18 mm Weight 4400 kg

ENGINE

Diesel engine (85 hp) 63 kW Cooling:
liquid
Start - electric

DIMENSIONS

Length 3200 mm
Height 2500 mm
Width 2100 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

01- PT Adaptation for digital data logger, counter and speedometer
04-PT Wireless control panel
07-PT Hydraulic connection under hydraulic press 08-PT Hydraulic line/conduit stop clamp 15-PT Adherence rollers with replaceable inserts nylon
18-PT Preparation for more connections 20-PT Pre-heating at -30 degrees
02- PT Dynamic pulling force control
05-PT Additional hydraulic PTO on winder circuit

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AF158.12 Hydraulic puller-tensioner 90 kN capacity for single/double conductors and OPGW cable stringing operations

RETRACTION AND BRAKING PARAMETERS

Maximum retraction and braking load 90 kN
Maximum retraction and braking speed 5.0 km/h
Retraction speed at max load 2.2 km/h
Load at max speed 40 kN

PARAMETERS

Winches 1500 mm
Maximum cable diameter 40 mm
Maximum pilot cable diameter 24 mm
Weight 5000 kg

ENGINE

Diesel engine (125 hp) 93kW
Cooling : liquid
Start - electric

DIMENSIONS

Length 3250 mm
Height 2600 mm
Width 2100 mm

FEATURES

Standard functions
Single hydraulic circuit with negative braking system
- Dynamometer for direct reading of pull-in value with load limiting device (pull-in mode)
- metre counter
- 2 sets of hydraulic quick-release couplings for the drive, suitable for two hydraulic stands or one cable reel
- Gearbox (two speeds)
- Independent mechanical stabilisers
- Rigid axle with tyres for towing up to 30 km / h
- Balanced top anchor point for lifting and securing

ADDITIONAL EQUIPMENT - OPTIONS

01- PT Adaptation for digital data logger, counter and speedometer
04-PT Wireless control panel
07-PT Hydraulic connection under hydraulic press
08-PT Hydraulic line/conduit stop clamp
15-PT Adherence rollers with replaceable inserts nylon
18-PT Preparation for more connections
20-PT Pre-heating at -30 degrees
02- PT Dynamic pulling force control
05-PT Additional hydraulic PTO on winder circuit

R4 Hydraulic pilot line reel kit

Key features:
- Automatic bobbin winder with folding arm and bobbin line guide unit.
- Suitable for wire rope diameters from 8 to 24 mm and steel reels with diameters of 1100 mm and 1400 mm.
- Hydraulically controlled lift arm and stabilisers.

Safety note:
- The automatic negative brake is activated each time the control lever at the brake/carriage is released .
- Hydraulic motor with fast power-on
- Idle position for drum rotation and manual adjustment of the rope guide assembly on the spool
- Standard connection hose set, length 10 m (other lengths on request)
- Folding arm, wheels with extendable axle and tow bar for easy transport.
- Upper attachment point for lifting and anchoring
- Weight: 300 kg.
- Overall dimensions: 760 x 1350 x 1480 mm
- Maximum torque: 100 daN m
- Operating pressure: 150 bar
- Maximum load capacity: 2000 kg

Suitable for connection to any TE.M.A. model brake/ winch , winch/brake

041 Hydraulic drum/pulley lifter special version

- Load on request
- Variable width frame
- Hydraulic drive
- Version with "built-in" conical spool available

NOTE: When you place your order, please provide us with the drum specifications.

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