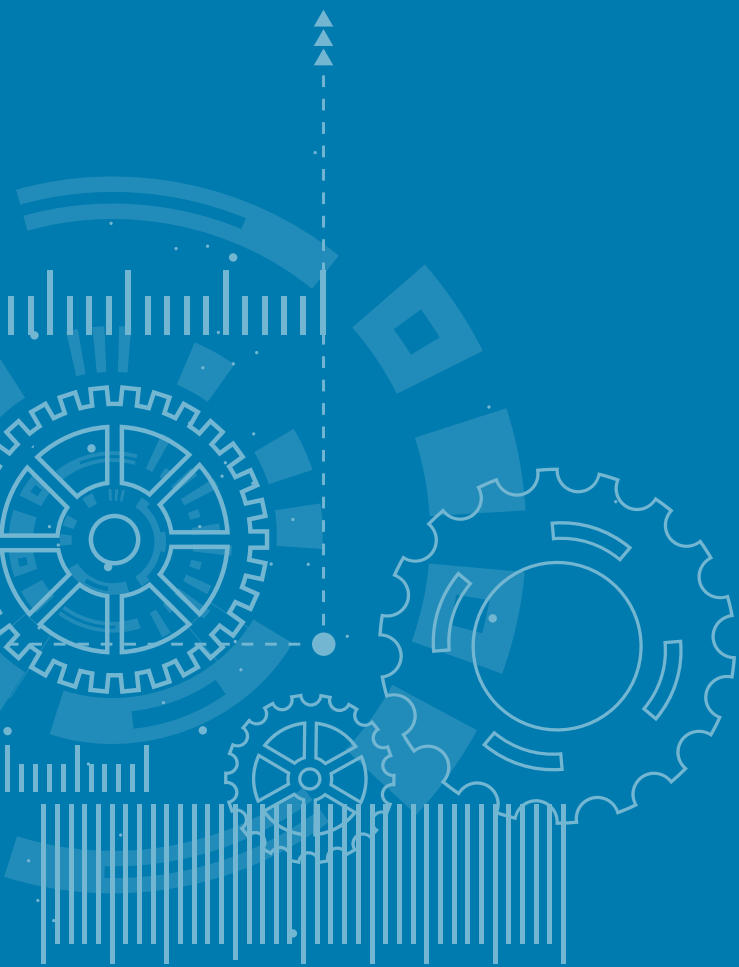


55
YEARS
experience
POWERCOM

POWERCOM

STRINGING EQUIPMENT AND TOOLS





Powercom sa is one of the most consolidated and renowned companies in the world for stringing equipment and tools manufacturing. It was established in 1891 and it is nowadays located in Switzerland.

As global competition increases, manufacturers are faced with constant demands to provide higher quality and better service at lower cost and in less time. Quality, performance and customer oriented attitude are of paramount importance to Powercom sa.

Powercom sa is committed to playing a proactive role in today world market by offering its customers better value for money and first class stringing equipment.

We are certified ISO 9001.

COUNTRIES WHERE POWERCOM EQUIPMENT OPERATES

| | | | |
|--------------------|-------------|--------------|----------------------|
| Albania | Ecuador | Luxembourg | Serbia |
| Algeria | Egypt | Macedonia | Sierra Leone |
| Angola | El Salvador | Malaysia | Singapore |
| Argentina | Ethiopia | Mali | Slovenia |
| Australia | Fiji | Malta | South Africa |
| Austria | Finland | Mauritius | Spain |
| Bahrain | France | Mexico | Sri Lanka |
| Bangladesh | Germany | Moldavia | Sweden |
| Belgium | Ghana | Morocco | Switzerland |
| Bolivia | Greece | Mozambique | Syria |
| Bosnia-Herzegovina | Guatemala | Namibia | Taiwan |
| Botswana | Honduras | Netherlands | Tanzania |
| Brazil | Hungary | New Zealand | Thailand |
| Bulgaria | Iceland | Nigeria | Tunisia |
| Cameroon | India | Norway | Turkey |
| Canada | Indonesia | Oman | United Arab Emirates |
| Chile | Iran | Pakistan | United Kindom |
| Cina | Iraq | Paraguaj | United States of |
| Colombia | Ireland | Peru | America (USA) |
| Congo | Italy | Philippines | Uruguay |
| Costa Rica | Jordan | Poland | Venezuela |
| Croatia | Kenya | Portugal | Vietnam |
| Cuba | Korea South | Qatar | Yemen |
| Cyprus | Kuwait | Romania | Zimbabwe |
| Denmark | Lebanon | Russia | |
| Dominican Republic | Libya | Saudi Arabia | |



POWERCOM

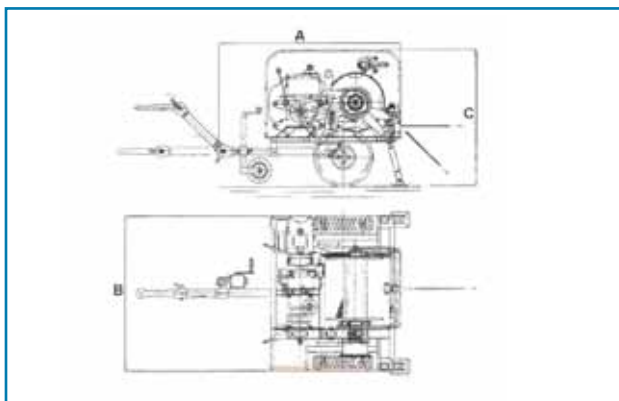
www.powercom.ch • e-mail: sales@powercom.ch



HYDRAULIC WINCH MODEL PW01.50

Hydraulic winch fit to pull one rope in service operations like setting-ups and adjustments of transmission lines.
One close hydraulic circuit allows to vary continuously the speed in both directions by operating one only control device.

- Detachable drum
- Automatic swinging rope-winder with idle position for manual operation.
- Dinamometer for reading the pull force.
- Freewheeling of the drum.
- Safety hydraulic negative brake.
- Riding axle with tires and drawbar fit for towing at low speed in workplace.
- Stabilisers and attacher for anchoring.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Rope-driver rollers fit for vertical and horizontal pull.



C/B
A

A x B x C = 1,20 x 1,15 x 0,85 m
Weight (without rope) = 350 Kg

OPTIONAL DEVICES

- 001 Axle with independent torsion bar suspensions and tires towing on the road at 60 Km/h, with mechanical parking brake.
- 002 PVC cloth cover.
- 003 Diesel engine with rope starting.
- 004 Engine electric starting with battery 12V.



- 005 Preselector of max pull force to stop the engine in case of overpull.
- 006 Service steel capstans beside the drum.
- 007 Automatic clamp for rope on side capstan.
- 008 Steel rope, diam. 8 or 10 mm, length on demand.

FEATURES

| | |
|-------------------|--------|
| Bottom diameter | 200 mm |
| External diameter | 500 mm |
| Width | 500 mm |

DRUM CAPACITY

| | |
|--------------|--------|
| Rope Ø 8 mm | 800 mm |
| Rope Ø 10 mm | 500 mm |

ENGINE

| | |
|----------|-------------|
| Feeding | gasoline |
| Power | 8 hp/5,8 kW |
| Cooling | air |
| Starting | by rope |

PULL PERFORMANCE ON THE MIDDLE LAYER OF ROPE

| | |
|----------------------------|-----------|
| Max pull | 10 kN |
| Speed at max pull | 12 m/min. |
| Max speed | 40 m/min. |
| Pull at max speed | 4 kN |
| on the first layer of rope | |
| Max pull | 15 kN |
| Speed at max pull | 8 m/min. |
| Max speed | 30 m/min. |
| Pull at max speed | 5 kN |

Model
PW01.50

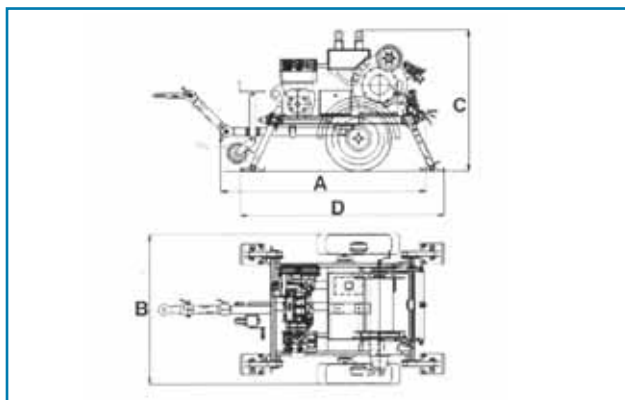
HYDRAULIC WINCH



HYDRAULIC WINCH MODEL PW02.30

Hydraulic winch fit to pull one rope in service operations like setting-ups and adjustments of transmission lines.
One close hydraulic circuit allows to vary continuously the speed in both directions by operating one only control device.

- Drum equipped with neutral device for unwinding manually the rope while the engine is off.
- Automatic swinging rope-winder with idle position for manual operation.
- Machine control panel with dynamometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Riding axle with tires and drawbar fit for towing at low speed in workplace.
- Stabilisers and attacher for anchoring.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Rope-driver rollers fit for vertical and horizontal pull.



C/B
A

A x B x C = 1,70 x 1,50 x 1,35 m
Weight (without rope) = 850 Kg

OPTIONAL DEVICES

- 001 Amortised axle, overrun brake and drawbar for towing on the road (homologation excluded).
- 002 PVC cloth cover.
- 003 Metallic coverage with doors.
- 004 Remote control with 10 meters length cable.
- 005 Radio control for remote control.
- 006 Rope-presser roller on the drum.



- 007 Service winch with large-groove capstan (Ø 160 or 200 mm) fed by the hydraulic circuit of the puller.
Max pulling force 500 kg.
- 008 Device to control the load descent in case of diesel engine breakdown.
- 009 Steel rope.

FEATURES

| | |
|---------------------------|--------|
| Drum bottom diameter | 270 mm |
| Optional capstan diameter | 160 mm |

DRUM CAPACITY

| | |
|---------------------------------|-------|
| Rope Ø 10 mm - max length | 700 m |
| Rope Ø 10 mm - suggested length | 500 m |

ENGINE

| | |
|-----------------|-------------|
| Feeding | diesel |
| Power | 26 hp/19 kW |
| Cooling | water |
| Electric system | 12V |

PULL PERFORMANCE ON THE MIDDLE LAYER OF ROPE

| | |
|-------------------|-----------|
| Max pull | 30 kN |
| Speed at max pull | 15 m/min. |
| Max speed | 70 m/min. |
| Pull at max speed | 6 kN |

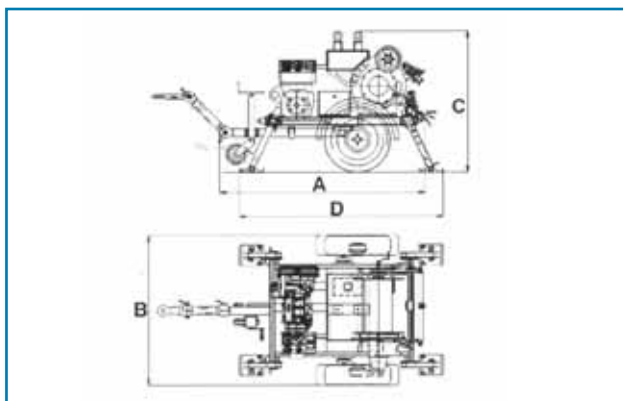
Model
PW02.30

HYDRAULIC WINCH

HYDRAULIC WINCH MODEL PW03.50

Hydraulic winch fit to pull one rope in service operations like setting-ups and adjustments of transmission lines.
One close hydraulic circuit allows to vary continuously the speed in both directions by operating one only control device.

- Steel drum
- Automatic swinging rope-winder with idle position for manual operation.
- Machine control panel with dynamometer and preselector of max pull force.
- Safety hydraulic negative brake.
- Riding axle with tires and drawbar fit for towing at low speed in workplace.
- Stabilisers and attacher for anchoring.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Rope-driver rollers fit for vertical and horizontal pull.



C/B
A

A x B x C = 2,25 x 1,80 x 1,50 m
Weight (without rope) = 2000 Kg

OPTIONAL DEVICES

- 001 Amortised axle, overrun brake and drawbar for towing on the road (homologation excluded).
- 002 PVC cloth cover.
- 003 Metallic coverage with doors.
- 004 Remote control with 10 meters length cable.
- 005 Radio control (max distance 50 m).
- 006 Rope-presser roller on the drum.



- 007 Service winch with large-groove capstan (Ø 160 or 200 mm) fed by the hydraulic circuit of the puller. Max pulling force 500 kg.
- 008 Device to control the load descent in case of diesel engine breakdown.
- 009 Steel rope.

FEATURES

| | |
|---------------------------|--------|
| Drum bottom diameter | 400 mm |
| Optional capstan diameter | 200 mm |

DRUM CAPACITY

| | |
|--------------|--------|
| Rope Ø 16 mm | 400 mm |
| Rope Ø 14 mm | 500 mm |

ENGINE

| | |
|-----------------|-------------|
| Feeding | diesel |
| Power | 47 hp/35 kW |
| Cooling | water |
| Electric system | 12V |

PULL PERFORMANCE ON THE MIDDLE LAYER OF ROPE

| | |
|-----------|------------------|
| Max pull | 50 kN @ 21m/min. |
| Pull | 20 kN @ 60m/min. |
| Max speed | 65 m/min. |

Model
PW03.50

HYDRAULIC WINCH



SINGLE AXLE TRAILER FOR CABLE DRUM TRANSPORT MODEL PW04

The trailer is suitable for transporting cable drum, weight max 4200 kg.

Lifting drum device by centralized hydraulic plant. Air brake system and lights prescribed, parking brake. Painted steel structure with rear bar.

TECHNICAL DATA

| | |
|--------------------------|------------------|
| Lenght drawbar included: | 5424 mm |
| Width: | 2500 mm |
| Height: | 1730 mm |
| Pay load: | 4200 kg |
| Tare: | 1200 kg |
| Max drum dia: | 3000 mm |
| Max width drum: | 1430 mm |
| Shaft dia: | 70 mm |
| Lifting drum: | hydraulic device |
| Max towing speed: | 80 Km/h. |

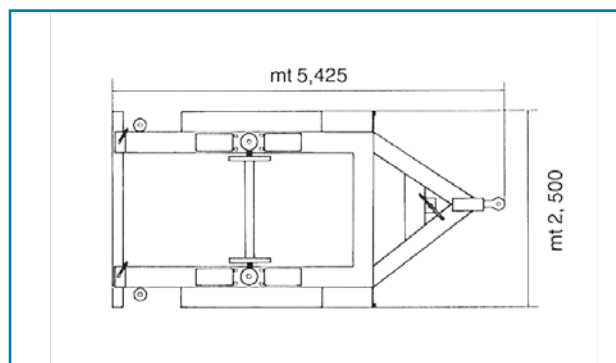
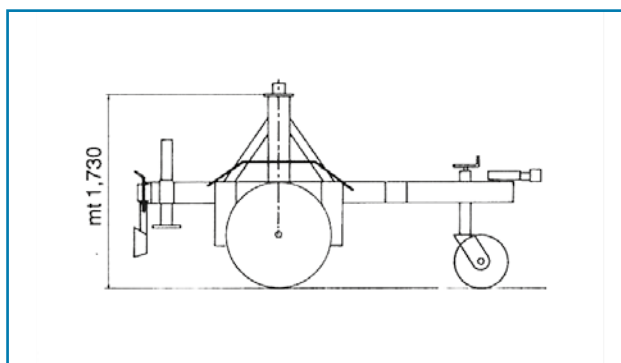


OPTIONAL

Cable drum winding/unwinding device driven by hydraulic plant with petrol engine:

RUGGERINI 8 HP or BRIGGS & STRATTON 11 HP.

Other capacity and size available on request.



**Model
PW04**

**SINGLE AXLE TRAILER FOR CABLE
DRUM TRANSPORT**



MODIFIED POLYPROPYLENE ROPE MODEL PW08

Wire rope ANTI-TWISTING braided type for stringing conductors operation.

CHARACTERISTICS:

Thanks to the braided type structure it grants an effective anti-torsional stability during stringing operations. With its special modified polypropylene it grants a strong resisting against abrasion, acid alkali and UV ray. Water repellent. Color: Green.

| Model | Diameter mm | Weight (gr/m) | Breaking load | Standard lengths on 1400 mm diam. |
|---------|-------------|---------------|---------------|-----------------------------------|
| PW08.10 | 10 | 40 | 1400 | 2400 |
| PW08.12 | 12 | 60 | 2300 | 2000 |
| PW08.14 | 14 | 75 | 2650 | 1500 |
| PW08.16 | 16 | 92 | 3200 | 1000 |
| PW08.18 | 18 | 110 | 4050 | 1000 |
| PW08.20 | 20 | 140 | 5150 | 1000 |



NYLON PILOT ROPE FOR STRINGING CONDUCTORS AND CABLES MODEL PW09

Antitwisting braided type polyester pulling rope with internal high tenacity nylon core.



| Model | Diameter mm | Weight (kg/m) | Elongation with 35% of Break. load | Breaking load daN | Standard lengths mm |
|---------|-------------|---------------|------------------------------------|-------------------|---------------------|
| PW09.06 | 8 | 0,046 | 5 | 1200 | 500-1000-2000 |
| PW09.10 | 10 | 0,075 | 5 | 2000 | 1000-1600-2000 |
| PW09.12 | 12 | 0,120 | 5 | 3500 | 1000-1600-2000 |
| PW09.14 | 14 | 0,160 | 5 | 4300 | 1000-1600-2000 |
| PW09.16 | 16 | 0,200 | 5 | 5000 | 1000 |
| PW09.18 | 18 | 0,230 | 5 | 5800 | 1000 |
| PW09.20 | 20 | 0,280 | 5 | 6500 | 1000 |

Model
PW08 - PW09

MODIFIED POLYPROPYLENE ROPE

**NYLON PILOT ROPE FOR STRINGING
CONDUCTORS AND CABLES**



ANTITWISTING GALVANIZED SQUARE WIRE ROPE FOR LAYING AND STRINGING CONDUCTORS AND CABLES MODEL PW21

FEATURES

Several years experience in the field of wire ropes, first class raw materials, high technology and thanks to skilled labours, PW21 model is produced according to the CE and international quality and safety standards.

USAGE

PW21 antitwisting galvanized square wire rope is the ideal rope for stringing:

- Steel wire ropes
- Aluminium conductors, ACSR
- Telephone cables
- Electric cables
- Zinc-coated steel, overhead ground wire strands
- Shaped straps

The rope has been designed and developed in order to meet the severe workers' needs while stringing.

ADVANTAGES

PW21 antitwisting galvanized square wire rope offers the following main advantages:

- Perfect non-rotation
- Reduced loss of breaking load within spliced lengths
- Higher breaking load compared with other ropes of the same diameter
- Highly reduced pressures on wires thanks to a linear contact of wires in braided points.
- Higher flexibility, for better handling and connecting.

SUPPLY PACKING

Our antitwisting galvanized square wire rope is spliced on both ends according to DIN standard and supplied in metallic reels or wooden reels upon request.

| Rope nominal diam. mm | Breaking load of the ropes T/S 1960 N/smm DaN/Kgs | Nominal weight rope/m DaN/Kgs | Standard production length m |
|-----------------------|---|-------------------------------|------------------------------|
| 6 | 2500 | 0.14 | 6000-11000 |
| 8 | 4400 | 0.22 | 3200-6400 |
| 9 | 5150 | 0.25 | 2800-6400 |
| 10 | 7200 | 0.35 | 2000-4200 |
| 11 | 9400 | 0.42 | 1600-3600 |
| 12 | 9600 | 0.49 | 1200-3400 |
| 13 | 10500 | 0.546 | 1000-2600 |
| 14 | 12000 | 0.65 | 1000-2200 |
| 16 | 16350 | 0.8 | 900-1800 |
| 18 | 23500 | 1.07 | 800-1200 |
| 20 | 26800 | 1.24 | 1200 |
| 22 | 33000 | 1.56 | 900 |
| 24 | 38000 | 1.76 | 800 |
| 26 | 41600 | 2.29 | 800 |
| 28 | 44000 | 2.57 | 800 |
| 30 | 48000 | 3.12 | 800 |

Other sizes and production lengths available upon request.

Model PW21

ANTITWISTING GALVANIZED SQUARE WIRE ROPE FOR LAYING AND STRINGING CONDUCTORS AND CABLES



ANTITWISTING GALVANIZED HEXAGONAL WIRE ROPE MODEL PW22

FEATURES

Several years experience in the field of wire ropes, first class raw materials, high technology and thanks to skilled labours, PW21 model is produced according to the CE and international quality and safety standards.

USAGE

PW21 antitwisting galvanized square wire rope is the ideal rope for stringing:

- Steel wire ropes
- Aluminium conductors, ACSR
- Telephone cables
- Electric cables
- Zinc-coated steel, overhead ground wire strands
- Shaped straps

The rope has been designed and developed in order to meet the severe workers' needs while stringing.

ADVANTAGES

PW21 antitwisting galvanized square wire rope offers the following main advantages:

- Perfect non-rotation
- Reduced loss of breaking load within spliced lengths
- Higher breaking load compared with other ropes of the same diameter
- Highly reduced pressures on wires thanks to a linear contact of wires in braided points.
- Higher flexibility, for better handling and connecting.

SUPPLY PACKING

Our antitwisting galvanized square wire rope is spliced on both ends according to DIN standard and supplied in metallic reels or wooden reels upon request.

| Rope nominal diam. mm | Breaking load of the ropes T/S 1960 N/smm DaN/Kgs | Nominal weight rope/m DaN/Kgs | Standard production length m |
|-----------------------|---|-------------------------------|------------------------------|
| 8 | 3250 | 0.16 | 3200-6400 |
| 9 | 4750 | 0.23 | 2800-6400 |
| 10 | 5480 | 0.26 | 2000-4200 |
| 11 | 8000 | 0.37 | 1600-3600 |
| 12 | 8300 | 0.39 | 1200-3400 |
| 13 | 9750 | 0.46 | 1000-2600 |
| 14 | 10100 | 0.49 | 1000-2200 |
| 15 | 13650 | 0.58 | 900-1800 |
| 16 | 15700 | 0.77 | 900-1800 |
| 18 | 20300 | 0.92 | 800-1200 |
| 20 | 22100 | 1.06 | 1200 |
| 21 | 25000 | 1.15 | 1200 |
| 22 | 27300 | 1.28 | 900 |
| 23 | 30000 | 1.42 | 900 |
| 24 | 34600 | 1.65 | 800 |
| 26 | 40100 | 1.79 | 800 |
| 28 | 44500 | 2.18 | 800 |
| 32 | 49800 | 2.72 | 800 |
| 34 | 57800 | 3.12 | 800 |

Other sizes and production lengths available upon request.

Model PW22

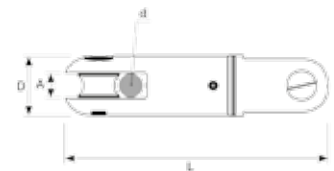
ANTITWISTING GALVANIZED HEXAGONAL WIRE ROPE



SWIVEL JOINT - MODEL PW10

Antitorsion swivel joint suitable for joining both steel and synthetic pilot and pulling ropes, with the pulling stocking grips; made of chrome plated high tensile steel, provided of thrust-resistant pad, with screwed pins closing device provided of concave spacer to facilitate the loop of rope positioning.

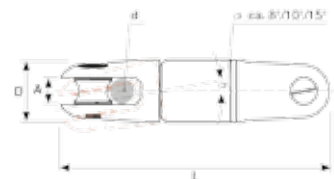
| Model | D Ømm | L Ømm | d Ømm | A Ømm | Breaking load | Weight kg |
|-----------|----------|----------|----------|----------|------------------|--------------|
| PW10.4,5 | 12 | 50 | 4 | 4,5 | 850 daN | 0,05 |
| PW10.9,2 | 18 | 60 | 9 | 9,2 | 1.200 daN | 0,08 |
| PW10.13,5 | 32 | 142 | 13 | 13,5 | 8.000 daN | 0,55 |
| PW10.20 | 45 | 182 | 19 | 20 | 18.000 daN | 1,50 |
| PW10.26 | 60 | 225 | 25 | 26 | 36.000 daN | 3,50 |
| PW10.36,5 | 80 | 350 | 35 | 36,5 | 90.000 daN | 9,50 |



ARTICULATED SWIVEL JOINT - MODEL PW38

Antitorsion swivel joint suitable for articulated type, suitable for joining both steel and synthetic pilot and pulling ropes, with the pulling stocking grips; made of galvanized high tensile steel, provided swivel ball-joint, with screwed pins closing device provided of concave spacer to facilitate the loop of rope positioning.

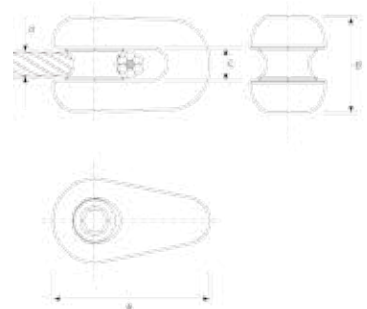
| Model | D Ømm | L Ømm | d Ømm | A Ømm | Breaking load | Weight kg |
|---------|----------|----------|----------|----------|------------------|--------------|
| PW38.6 | 20 | 62 | 6 | 7 | 2.500 daN | 0,09 |
| PW38.11 | 32 | 130 | 11 | 13 | 8.000 daN | 0,50 |
| PW38.14 | 45 | 185 | 14 | 16 | 18.000 daN | 1,40 |



FIXED JOINT - MODEL PW12

Fixed joint suitable for joining both steel pulling ropes and synthetic pilot ropes, made of galvanized high tensile steel, with a design fit for easy and safe passage through the bullwheels grooves of winches, screwed pin closing device provided of concave spacer to facilitate the loop of rope positioning.

| Model | D Ømm | L Ømm | d Ømm | A Ømm | Breaking load | Weight kg |
|---------|----------|----------|----------|----------|------------------|--------------|
| PW12.10 | 60 | 28 | 11 | 10 | 7.000 daN | 0,14 |
| PW12.13 | 72 | 41 | 14 | 13 | 11.000 daN | 0,35 |
| PW12.16 | 90 | 49 | 19 | 16 | 16.000 daN | 0,55 |
| PW12.18 | 100 | 55 | 19 | 18 | 22.000 daN | 0,75 |
| PW12.24 | 120 | 60 | 26 | 24 | 36.000 daN | 1,05 |
| PW12.30 | 175 | 77 | 30 | 30 | 75.000 daN | 3,00 |
| PW12.32 | 184 | 77 | 34 | 32 | 90.000 daN | 3,25 |



Model

PW10 - PW38 - PW12

SWIVEL JOINT

ARTICULATED SWIVEL JOINT

FIXED JOINT



HEAD TYPE STOCKING PULLING GRIPS (SOCKS) MODEL PW13

Head type stocking pulling grips (socks) for overhead conductors.














| Model | Ømm | ID | L mm | L ₁ mm | Breaking load | | | Sez. | | Comp. | kg |
|---------|-------|----|------|-------------------|---------------|---|-----------------|------|----|-------|------|
| PW13.0 | 7-11 | | 1300 | 800 | 2.500 daN | 5 | 1,25-1,25-1,25 | 3 | 19 | 30 | 0,90 |
| PW13.01 | 11-14 | | 1600 | 1000 | 3.500 daN | 5 | 1,25-1,25-1,50 | 3 | 19 | 30 | 0,95 |
| PW13.02 | 14-17 | | 1700 | 1050 | 3.500 daN | 5 | 1,25-1,25-1,50 | 3 | 19 | 30 | 1,10 |
| PW13.03 | 17-23 | | 1800 | 1150 | 5.000 daN | 5 | 1,25-1,50-1,50 | 3 | 19 | 30 | 1,20 |
| PW13.04 | 23-29 | | 2200 | 1300 | 8.000 daN | 5 | 2,0-2,0-2,0 | 3 | 19 | 30 | 1,45 |
| PW13.05 | 29-38 | | 2400 | 1550 | 13.000 daN | 6 | 2,0-2,0-2,0-2,0 | 4 | 19 | 48 | 1,60 |
| PW13.06 | 38-50 | | 2900 | 1800 | 15.000 daN | 6 | 2,0-2,0-2,5-2,5 | 4 | 19 | 48 | 1,95 |

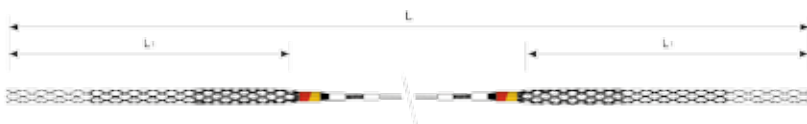


DOUBLE TYPE STOCKING PULLING GRIPS (SOCKS) MODEL PW14

Double type stocking pulling grips (socks) temporary conductor coupling type.



| Model | Ømm | ID | L mm | L ₁ mm | Breaking load |  |  |  | Sez. |  | Comp. | kg |
|---------|-------|---|------|-------------------|---------------|---|---|---|------|---|-------|------|
| PW14.0 | 7-11 |  | 2400 | 800 | 2.500 daN | 5 | 8 x 200 | 1,25-1,25-1,25 | 3 | 19 | 30 | 1,70 |
| PW14.07 | 11-14 |  | 2600 | 1000 | 3.500 daN | 5 | 8 x 200 | 1,25-1,25-1,50 | 3 | 19 | 30 | 1,80 |
| PW14.08 | 14-17 |  | 2700 | 1050 | 3.500 daN | 5 | 8 x 200 | 1,25-1,25-1,50 | 3 | 19 | 30 | 2,10 |
| PW14.09 | 17-23 |  | 3000 | 1150 | 5.000 daN | 5 | 10 x 200 | 1,25-1,50-1,50 | 3 | 19 | 30 | 2,30 |
| PW14.10 | 23-29 |  | 3500 | 1300 | 8.000 daN | 5 | 12 x 200 | 2,0-2,0-2,0 | 3 | 19 | 30 | 2,80 |
| PW14.11 | 29-38 |  | 4100 | 1550 | 13.000 daN | 6 | 14 x 200 | 2,0-2,0-2,0-2,0 | 4 | 19 | 48 | 3,00 |
| PW14.12 | 38-50 |  | 4900 | 1800 | 15.000 daN | 6 | 16 x 250 | 2,0-2,0-2,5-2,5 | 4 | 19 | 48 | 3,70 |



Model
PW13 - PW14









**HEAD TYPE STOCKING PULLING GRIPS
(SOCKS)**

**DOUBLE TYPE STOCKING PULLING GRIPS
(SOCKS)**



HEAD TYPE STOCKING PULLING GRIPS (SOCKS) MODEL PW15








Head type stocking pulling grips (socks) for overhead conductors.

| Model | Ømm | ID | L mm | L ₁ mm | Breaking load |  |  |  | Sez. |  | Comp. | kg |
|---------|-------|---|------|-------------------|---------------|---|---|--|------|---|-------|------|
| PW15.0 | 8-17 |  | 1400 | 1100 | 3.500 daN | 5 | 7 x 150 | 1,25-1,25-1,5 | 3 | 19 | 30 | 0,60 |
| PW15.01 | 17-29 |  | 1700 | 1350 | 8.500 daN | 5 | 10 x 150 | 2,0-2,0-2,0 | 3 | 19 | 30 | 1,20 |
| PW15.02 | 29-38 |  | 1900 | 1470 | 13.500 daN | 6 | 12 x 180 | 2,0-2,0-2,0-2,0 | 4 | 19 | 48 | 1,80 |
| PW15.03 | 38-50 |  | 2260 | 1810 | 18.500 daN | 6 | 14 x 200 | 2,0-2,5-2,5-2,5 | 4 | 19 | 48 | 2,80 |



DOUBLE TYPE STOCKING PULLING GRIPS (SOCKS) MODEL PW16

Double type stocking pulling grips (socks) temporary conductor coupling type.

| Model | Ømm | ID | L mm | L ₁ mm | Breaking load |  |  | Sez. |  | Comp. | kg |
|---------|-------|---|------|-------------------|---------------|---|---|------|--|-------|------|
| PW16.0 | 8-17 |  | 2680 | 1100 | 3.500 daN | 5 | 1,25-1,25-1,5 | 3 | 19 | 30 | 1,10 |
| PW16.01 | 17-29 |  | 3250 | 1350 | 8.500 daN | 5 | 2,0-2,0-2,0 | 3 | 19 | 30 | 2,10 |
| PW16.02 | 29-38 |  | 3550 | 1470 | 13.500 daN | 6 | 2,0-2,0-2,0-2,0 | 4 | 19 | 48 | 3,30 |
| PW16.03 | 38-50 |  | 4250 | 1810 | 18.500 daN | 6 | 2,0-2,5-2,5-2,5 | 4 | 19 | 48 | 5,00 |



Model
PW15 - PW16

**HEAD TYPE STOCKING PULLING GRIPS
(SOCKS)**

**DOUBLE TYPE STOCKING PULLING GRIPS
(SOCKS)**



PULLEY BLOCK NYLON TYPE - SINGLE TYPE MODEL PWN05

Pulley block model PWN05 moulded nylon sheave on ball bearings suitable for one conductor.
Galvanized steel frame with bolt clevis attachment.

| Model | Sheave No | B/load KN | Bottom groove diam. mm | Outside diam. mm | Groove width mm | Weight kg |
|-----------|-----------|-----------|------------------------|------------------|-----------------|-----------|
| PWN05/1/5 | 1 | 60 | 408 | 508 | 75 | 25 |
| PWN05/1/6 | 1 | 60 | 560 | 660 | 90 | 29 |
| PWN05/08 | 1 | 60 | 710 | 820 | 100 | 33 |
| PWN05/1/9 | 1 | 150 | 800 | 916 | 110 | 68 |



Model
PWN05

PULLEY BLOCK NYLON TYPE - SINGLE TYPE



PULLEY BLOCK NYLON TYPE FOR 2-3 BUNDLE CONDUCTORS MODEL PWN06

Pulley Blocks model PWN06 fix frame suitable for 2-3 bundle conductors, moulded nylon sheave on ball bearings.

Galvanized steel frame. Supplied with fixed connection.

| Model | Sheave No | B/load KN | Bottom groove diam. mm | Outside diam. mm | Groove width mm | Weight kg |
|-----------|-----------|-----------|------------------------|------------------|-----------------|-----------|
| PWN06/1/1 | 3 | 120 | 408 | 508 | 75 | 47 |
| PWN06/2/6 | 3 | 120 | 560 | 660 | 100 | 80 |
| PWN06/1/7 | 3 | 150 | 710 | 820 | 100 | 120 |
| PWN06/1/8 | 3 | 225 | 800 | 916 | 110 | 135 |



PULLEY BLOCK NYLON TYPE FOR 4 BUNDLE CONDUCTORS MODEL PWN07

Pulley Blocks model PWN07 fix frame suitable for 4 bundle conductors, moulded nylon sheave on ball bearings.

Galvanized steel frame. Supplied with fixed connection.

| Model | Sheave No | B/load KN | Bottom groove diam. mm | Outside diam. mm | Groove width mm | Weight kg |
|-----------|-----------|-----------|------------------------|------------------|-----------------|-----------|
| PWN07/1/1 | 5 | 180 | 408 | 508 | 75 | 90 |
| PWN07/1/5 | 5 | 180 | 560 | 660 | 90 | 129 |
| PWN07/1/6 | 5 | 250 | 800 | 926 | 110 | 200 |



Model
PWN06 - PWN07

**PULLEY BLOCK NYLON TYPE
FOR 2-3 BUNDLE CONDUCTORS**

**PULLEY BLOCK NYLON TYPE
FOR 4 BUNDLE CONDUCTORS**

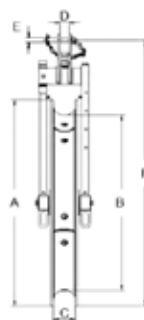


CONDUCTOR RUNNING-OUT SINGLE BLOCKS MODEL PW18

Aluminium alloy sheave mounted on ball bearings, having the bottom groove protected with neoprene interchangeable ring - Galvanized steel opening frame with guides to prevent rope jamming. Blocks are equipped with interchangeable swivelling fittings.

Type A: With safety hook.

Type C: With clevis and release pin.



| Model | Number of wheels | Dimensions mm | | | | | | Breaking load kN | Working load kN | Weight kg |
|-------------|------------------|---------------|------|-----|----|----|------|------------------|-----------------|-----------|
| | | A | B | C | D | E | F | | | |
| PW18.250 | 1 | 330 | 250 | 54 | 34 | 19 | 534 | 90 | 30 | 11 |
| PW18.350 | 1 | 440 | 350 | 54 | 26 | 19 | 595 | 90 | 30 | 13 |
| PW18.500 | 1 | 612 | 500 | 68 | 40 | 19 | 871 | 90 | 47 | 27 |
| PW18.650 | 1 | 750 | 650 | 68 | 40 | 19 | 1009 | 141 | 47 | 34 |
| PW18.650.1 | 1 | 750 | 650 | 95 | 40 | 19 | 1009 | 141 | 47 | 38 |
| PW18.800 | 1 | 900 | 800 | 68 | 40 | 19 | 1159 | 141 | 56 | 39 |
| PW18.800.1 | 1 | 900 | 800 | 95 | 40 | 19 | 1159 | 168 | 56 | 45 |
| PW18.1000 | 1 | 1100 | 1000 | 68 | 40 | 19 | 1359 | 168 | 56 | 43 |
| PW18.1000.1 | 1 | 1100 | 1000 | 95 | 40 | 19 | 1359 | 168 | 56 | 52 |
| PW18.1200 | 1 | 1350 | 1200 | 130 | 88 | 25 | 1729 | 300 | 100 | 116 |
| PW18.1500 | 1 | 1650 | 1500 | 130 | 88 | 25 | 2029 | 300 | 100 | 136 |

SINGLE PULLEY BLOCK MODEL PW25

Single pulley block suitable for galvanized steel groundwires completely made in galvanized steel with sheaves on ball-bearings.

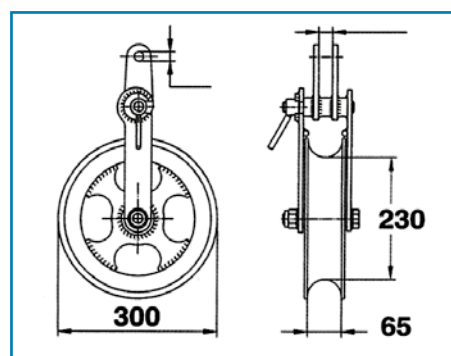
Breaking load: 7000 daN.

Weight: 14 kg.

Type attachment: Fix clevis FG.C (standard type)

Turnable clevis FG.T

Turnable hook FG.H



Model
PW18 - PW25

**CONDUCTOR
RUNNING-OUT SINGLE BLOCKS
SINGLE PULLEY BLOCK**



TRIPLE RUNNING-OUT BLOCKS TRIPLE MULTIVERSAL RUNNING-OUT BLOCKS MODEL PW19

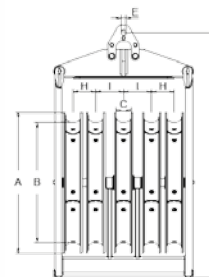
Suitable for stringing two or three bundle conductors.
Galvanized steel opening frame. Aluminium alloy sheave mounted on ball bearings. Side sheaves with bottom groove protected with neoprene interchangeable liners.



| Model | Number of wheels | Dimensions mm | | | | | | | Breaking load kN | Working load kN | Weight kg |
|-------------|------------------|---------------|------|----|----|------|------|-----|------------------|-----------------|-----------|
| | | A | B | C | D | E | F | H | | | |
| PW19.500 | 3 | 612 | 500 | 68 | 22 | 30.5 | 1249 | 146 | 141 | 47 | 108 |
| PW19.650 | 3 | 750 | 650 | 68 | 22 | 30.5 | 1387 | 146 | 141 | 47 | 128 |
| PW19.650.1 | 3 | 750 | 650 | 95 | 22 | 30.5 | 1387 | 174 | 201 | 67 | 144 |
| PW19.800 | 3 | 900 | 800 | 68 | 22 | 30.5 | 1537 | 146 | 201 | 67 | 144 |
| PW19.800.1 | 3 | 900 | 800 | 95 | 22 | 30.5 | 1537 | 174 | 249 | 83 | 165 |
| PW19.1000 | 3 | 1100 | 1000 | 68 | 22 | 30.5 | 1737 | 146 | 219 | 73 | 160 |
| PW19.1000.1 | 3 | 1100 | 1000 | 95 | 22 | 30.5 | 1737 | 174 | 249 | 83 | 188 |

RUNNING OUT BLOCKS MODEL PW20

Five-sheave running out block fit for stringing four-bundled conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Galvanised steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving by 90° (available with tight wheel).



| Model | Number of wheels | Dimensions mm | | | | | | | | Breaking load kN | Working load kN | Weight kg |
|-------------|------------------|---------------|------|----|----|------|------|-----|-----|------------------|-----------------|-----------|
| | | A | B | C | D | E | F | H | I | | | |
| PW20.500 | 5 | 612 | 500 | 68 | 22 | 30.5 | 1279 | 100 | 146 | 141 | 47 | 152 |
| PW20.650 | 5 | 750 | 650 | 68 | 22 | 30.5 | 1417 | 100 | 146 | 141 | 47 | 182 |
| PW20.650.1 | 5 | 750 | 650 | 95 | 22 | 30.5 | 1417 | 145 | 178 | 201 | 67 | 211 |
| PW20.800 | 5 | 900 | 800 | 68 | 22 | 30.5 | 1567 | 100 | 146 | 201 | 67 | 208 |
| PW20.800.1 | 5 | 900 | 800 | 95 | 22 | 30.5 | 1567 | 145 | 178 | 249 | 83 | 247 |
| PW20.800.2 | 5 | 900 | 800 | 95 | 27 | 35.5 | 1618 | 145 | 178 | 441 | 147 | 290 |
| PW20.1000 | 5 | 1100 | 1000 | 68 | 22 | 30.5 | 1767 | 100 | 146 | 219 | 73 | 232 |
| PW20.1000.1 | 5 | 1100 | 1000 | 95 | 22 | 30.5 | 1767 | 145 | 178 | 249 | 83 | 287 |
| PW20.1000.2 | 5 | 1100 | 1000 | 95 | 27 | 35.5 | 1818 | 145 | 178 | 441 | 147 | 330 |

Model PW19 - PW20

TRIPLE RUNNING-OUT BLOCKS
TRIPLE MULTIVERSAL RUNNING-OUT BLOCKS
RUNNING OUT BLOCKS



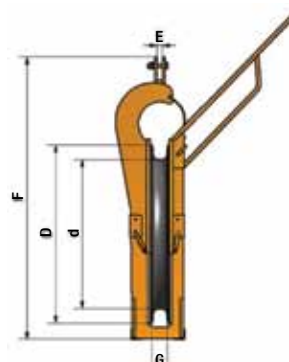
SINGLE CONDUCTOR RUNNING-OUT BLOCKS FOR USE WITH HELICOPTER MODEL PW23

Galvanized steel opening frame with side pole arm guide for the positioning of the pulling rope.

Aluminium alloy sheave mounted on ball-bearing, bottom groove protected with neoprene interchangeable ring.

Opening frame with fixed bolt clevis.

| Model | Dimension mm | | | | | Breaking load daN | Weight kg |
|---------|--------------|-----|-----|----|------|-------------------|-----------|
| | G | d | D | E | F | | |
| PW23.65 | 68 | 650 | 770 | 25 | 1230 | 12000 | 60 |
| PW23.80 | 95 | 800 | 950 | 25 | 1451 | 12000 | 90 |



GROUND WIRE CONDUCTOR RUNNING-OUT BLOCKS MODEL PW26

Pulley completely made of galvanized steel with wheel mounted on ball-bearings. It is to be used where there are supports having considerable altitude variations; it has the purpose of avoiding that pulling rope is lifted from its path.

Breaking load: 8000 daN.

Weight: 20 kg.



Model PW23 - PW26

SINGLE CONDUCTOR RUNNING-OUT
BLOCKS FOR USE WITH HELICOPTER

GROUND WIRE CONDUCTOR
RUNNING-OUT BLOCKS

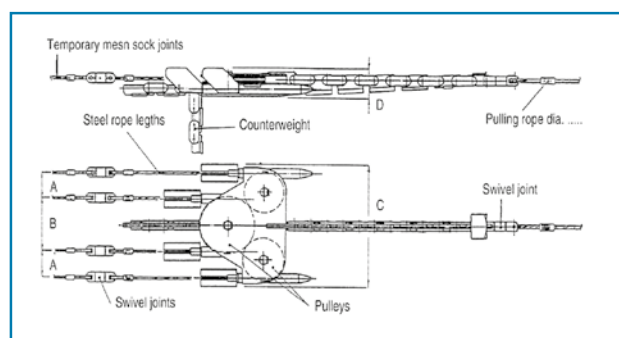
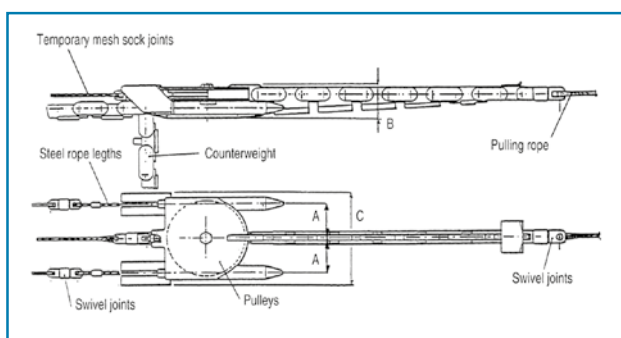


RUNNING BOARD DEVICE FOR STRINGING TWO OR THREE BUNDLE CONDUCTORS MODEL PW29



| Model | Dimension mm | | | N. swivel joints | | Rope lengths Ø 16/18 mm | Breaking load daN | Weight kg |
|--------|--------------|-----|-----|------------------|---------|----------------------------|----------------------|--------------|
| | A | B | C | PW10.20 | PW10.26 | | | |
| PW29.1 | 146 | 160 | 360 | 2 | 1 | 1x30 m | 30.000 | 140 |
| PW29.2 | 174 | 170 | 410 | 2 | 1 | 1x30 m | 30.000 | 155 |
| PW29.3 | 146 | 160 | 360 | 3 | 1 | 1x30 ÷ 1x15 m | 30.000 | 155 |
| PW29.4 | 174 | 170 | 410 | 3 | 1 | 1x30 ÷ 1x15 m | 30.000 | 175 |

Special dimension at request.



RUNNING BOARD DEVICE FOR STRINGING FOUR BUNDLE CONDUCTORS MODEL PW30

| Model | Dimension mm | | | | N. swivel joints | | Rope lengths Ø 16/18 mm | Breaking load daN | Weight kg |
|--------|--------------|-----|-----|-----|------------------|---------|----------------------------|----------------------|--------------|
| | A | B | C | D | PW10.20 | PW10.26 | | | |
| PW30.1 | 100 | 290 | 540 | 160 | 4 | 1 | 2x30 m | 30000 | 200 |
| PW30.2 | 130 | 340 | 650 | 160 | 4 | 1 | 2x30 m | 30000 | 220 |
| PW30.3 | 148 | 296 | 640 | 160 | 4 | 1 | 2x30 m | 30000 | 220 |
| PW30.4 | 178 | 356 | 760 | 160 | 4 | 1 | 2x30 m | 30000 | 240 |

Special dimension at request.

Model
PW29 - PW30

**RUNNING BOARD DEVICE
FOR STRINGING TWO OR THREE
AND FOUR BUNDLE CONDUCTORS**



AUTOMATIC SELF-GRIPPING CLAMPS IR 3112 FOR OPGW

Suitable for OPGW conductors outer Ø 6-23 mm.

Made of high tensile alloy steel, hot forged, heat-treated, precision machined and zinc-plated with a complete range of interchangeable liners.

| | |
|-----------------------|--------|
| Maximum safety load | 49 kN |
| Minimum breaking load | 180 kN |
| Weight | 7 kg |



INTERCHANGEABLE LINERS FOR OPGW









The lower liner is made of Adiprene whereas the upper one is made of aluminium.

You need suitable liners for each conductor diameter.

HEAD TYPE STOCKING PULLING GRIPS (SOCKS) FOR OPGW MODEL PW13

Head type stocking pulling grips (socks) for overhead conductors.



| Model | Ømm | ID | L mm | L ₁ mm | Breaking load |  |  | Sez. |  | Comp. | kg |
|---------|-------|---|------|-------------------|---------------|---|---|------|---|-------|------|
| PW13.0 | 7-11 |  | 1300 | 800 | 2.500 daN | 5 | 1,25-1,25-1,25 | 3 | 19 | 30 | 0,90 |
| PW13.01 | 11-14 |  | 1600 | 1000 | 3.500 daN | 5 | 1,25-1,25-1,50 | 3 | 19 | 30 | 0,95 |
| PW13.02 | 14-17 |  | 1700 | 1050 | 3.500 daN | 5 | 1,25-1,25-1,50 | 3 | 19 | 30 | 1,10 |
| PW13.03 | 17-23 |  | 1800 | 1150 | 5.000 daN | 5 | 1,25-1,50-1,50 | 3 | 19 | 30 | 1,20 |
| PW13.04 | 23-29 |  | 2200 | 1300 | 8.000 daN | 5 | 2,0-2,0-2,0 | 3 | 19 | 30 | 1,45 |



Model

IR 3112 - PW13

AUTOMATIC SELF-GRIPPING CLAMPS IR 3112 FOR OPGW

INTERCHANGEABLE LINERS FOR OPGW

HEAD TYPE STOCKING PULLING GRIPS (SOCKS) FOR OPGW



PULLEY BLOCK NYLON TYPE - SINGLE TYPE FOR OPGW MODEL PWN05

Pulley block model PWN05 moulded nylon sheave on ball bearings suitable for one conductor. Galvanized steel frame with bolt clevis attachment.

| Model | Sheave No | B/load KN | Bottom groove diam. mm | Outside diam. mm | Groove width mm | Weight kg |
|-----------|-----------|-----------|------------------------|------------------|-----------------|-----------|
| PWN05/08 | 1 | 60 | 710 | 820 | 100 | 33 |
| PWN05/1/9 | 1 | 150 | 800 | 916 | 110 | 68 |

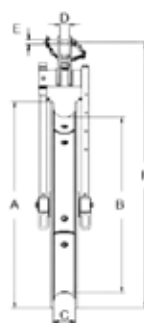


CONDUCTOR RUNNING-OUT SINGLE BLOCKS SUITABLE FOR OPGW MODEL PW18

Aluminium alloy sheave mounted on ball bearings, having the bottom groove protected with neoprene interchangeable ring - Galvanized steel opening frame with guides to prevent rope jamming. Blocks are equipped with interchangeables swivelling fittings.

Type A: With safety hook.

Type C: With clevis and release pin.



| Model | Number of wheels | Dimensions mm | | | | | | Breaking load kN | Working load kN | Weight kg |
|-------------|------------------|---------------|------|-----|----|----|------|------------------|-----------------|-----------|
| | | A | B | C | D | E | F | | | |
| PW18.800 | 1 | 900 | 800 | 68 | 40 | 19 | 1159 | 141 | 56 | 39 |
| PW18.800.1 | 1 | 900 | 800 | 95 | 40 | 19 | 1159 | 168 | 56 | 45 |
| PW18.1000 | 1 | 1100 | 1000 | 68 | 40 | 19 | 1359 | 168 | 56 | 43 |
| PW18.1000.1 | 1 | 1100 | 1000 | 95 | 40 | 19 | 1359 | 168 | 56 | 52 |
| PW18.1200 | 1 | 1350 | 1200 | 130 | 88 | 25 | 1729 | 300 | 100 | 116 |
| PW18.1500 | 1 | 1650 | 1500 | 130 | 88 | 25 | 2029 | 300 | 100 | 136 |

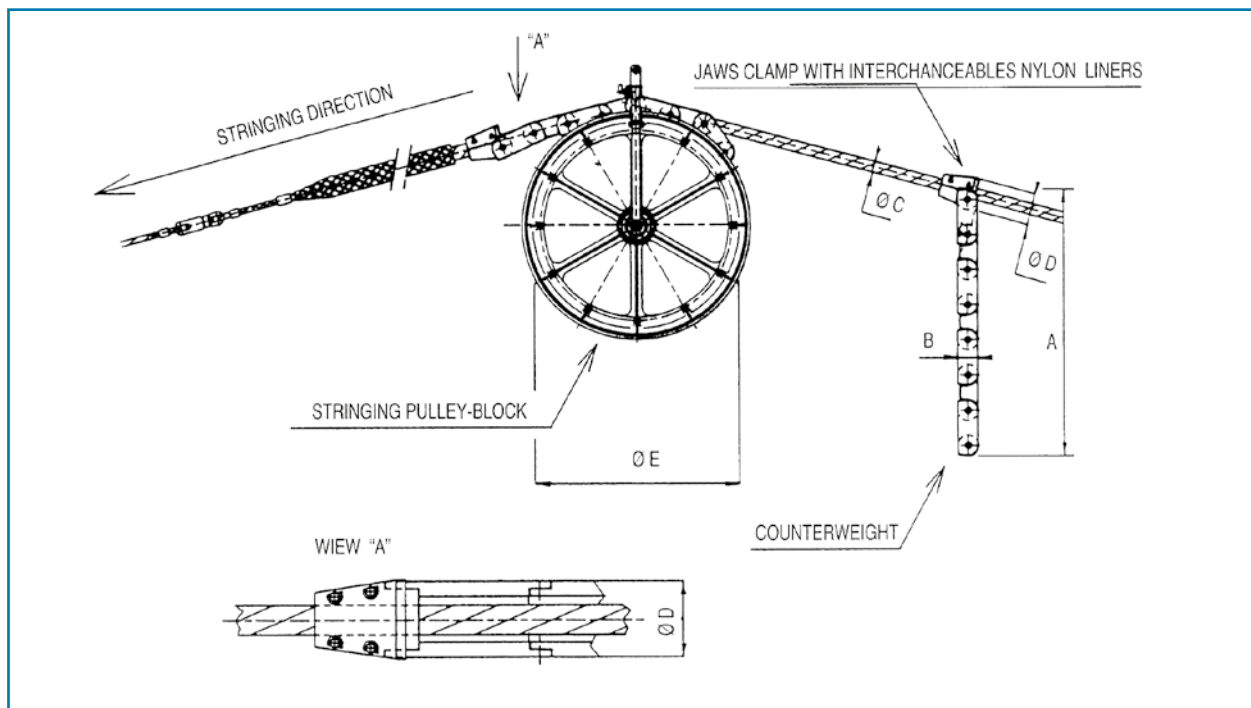
Model
PWN05 - PW18

**PULLEY BLOCK NYLON TYPE - SINGLE TYPE
FOR OPGW**

**CONDUCTOR RUNNING-OUT SINGLE
BLOCKS SUITABLE FOR OPGW**



NO ROTATING COUNTERWEIGHT DEVICE FOR STRINGING O.P.G.W. CABLES MODEL PWCO60



| Model | Counterweight | | Weight kg | Cable "C" diam. mm | Quantity (*) per set |
|-----------|---------------|-------|-----------|-----------------------|-------------------------|
| | Ø D mm | A mm | | | |
| PWCO60.9 | 60 | 990 | 8 | 10 to 17 | 2 |
| PWCO60.12 | 60 | 1.320 | 10,5 | 17 to 23 | 2 |
| PWCO80.12 | 80 | 1.800 | 24 | 23 to 30 | 2 |

With a purchase order please specify:

- Bottom groove dia. of pulley-block used
- Groove width of pulley-block used
- Exact overall dia. of O.P.G.W. cable "C"

(*) Note: in order to obtain the best performances, it is advisable to use a device in pairs.



Model
PWCO60

**NO ROTATING COUNTERWEIGHT
DEVICE FOR STRINGING O.P.G.W. CABLES**



SNATCH BLOCKS

MODEL PW6011 - PW6018

Heavy duty snatch blocks with opening side, nylon sheave mounted on ball-bearings and galvanized frame.

| Model | Groove mm | Int. diam. mm | Breaking load kg | Weight kg |
|--------|-----------|---------------|------------------|-----------|
| PW6011 | 20 | 120 | 2500 | 2.1 |
| PW6015 | 25 | 150 | 5000 | 3.3 |
| PW6018 | 25 | 150 | 7500 | 3.9 |

Special dimension and aluminum type on request (A MODEL).
Closed type available. Also available with eye attachment.



SNATCH BLOCKS

MODEL PW6001 - PW6006

Heavy duty snatch blocks with opening side, steel sheave mounted on ball-bearings and galvanized frame.

| Model | Groove mm | diam. mm | Breaking load kg | Weight kg |
|--------|-----------|----------|------------------|-----------|
| PW6001 | 16 | 90 | 7500 | 4.0 |
| PW6002 | 18 | 108 | 9000 | 4.7 |
| PW6003 | 20 | 108 | 15000 | 6.5 |
| PW6004 | 22 | 135 | 18000 | 8.0 |
| PW6005 | 25 | 135 | 20000 | 9.0 |
| PW6006 | 28 | 160 | 25000 | 15.0 |

Special dimension and aluminum type on request (A MODEL).
Closed type available. Also available with eye attachment.



Model PW6011 - PW6018
PW6001 - PW6006

SNATCH BLOCKS

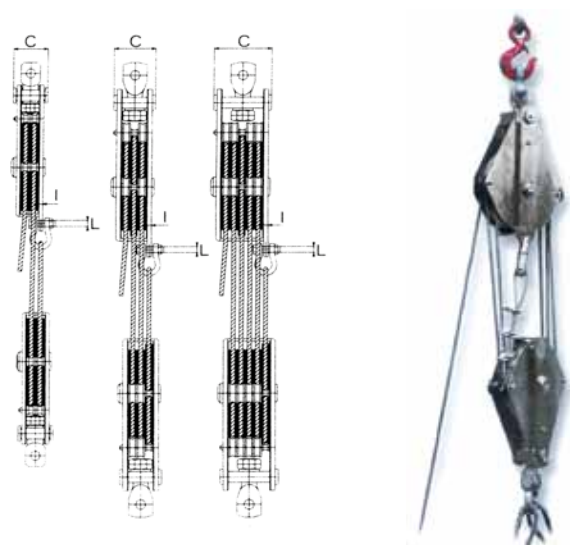


LIFTING TACKLES MODEL PWSL

The lifting tackles are suitable for steel rope; the wheels are mounted on ball bearings. The frame is made of galvanised steel.

| Model | N. of sheave | Capacity daN | Breaking load kg | Weight per pair kg |
|-------|--------------|--------------|------------------|--------------------|
| PWSL1 | 2 | 3000 | 15000 | 17 |
| PWSL2 | 3 | 5000 | 25000 | 27 |
| PWSL3 | 5 | 8000 | 40000 | 42 |

Special dimension and aluminum type available on request.
Supplied also with hook on request.



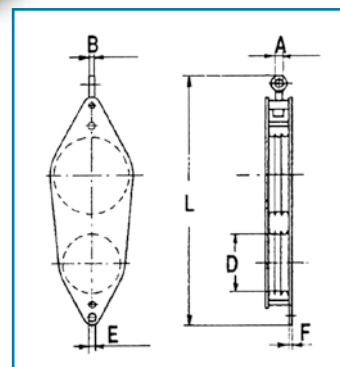
MULTIPLE SHEAVE TACKLE BLOCKS FOR STRINGING OPERATIONS MODEL PW028

All steel construction with sheaves mounted on ball-bearings. Each tackle is complete of two blocks.



| Model | N. of sheave | Dimension mm | | | | | | | Capacity daN | Weight per pair (kg) |
|-------------|--------------|--------------|---------------|-------|----|----|-------|-------|--------------|----------------------|
| | | D mm. dia. | fune mm. dia. | L max | A | B | E min | F max | | |
| PW028/4/25 | 4 | 120 | 6 | 500 | 23 | 23 | 11 | 11 | 2500 | 25 |
| PW028/4/45 | 4 | 160 | 8 | 650 | 25 | 23 | 11 | 11 | 4500 | 45 |
| PW028/6/65 | 6 | 160 | 8 | 680 | 27 | 35 | 11 | 11 | 6500 | 70 |
| PW028/6/95 | 6 | 200 | 10 | 800 | 36 | 45 | 12 | 13 | 9000 | 100 |
| PW028/6/120 | 6 | 240 | 12 | 940 | 38 | 48 | 14 | 14 | 12000 | 130 |

Special dimension and aluminum type on request.



Model

PWSL - PW028

LIFTING TACKLES

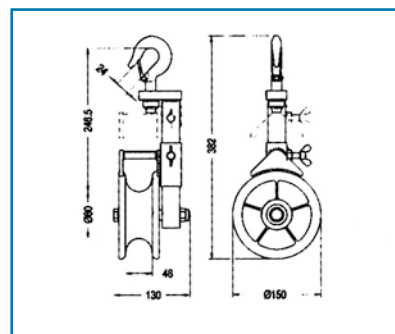
MULTIPLE SHEAVE TACKLE BLOCKS FOR STRINGING OPERATIONS



RUNNING BLOCK FOR INSULATED CABLE MODEL PW70

High tenacity nylon sheaves, mounted on ball-bearings,
galvanized steel frame.
Swivel hook and telescopic no-jamming rope device.

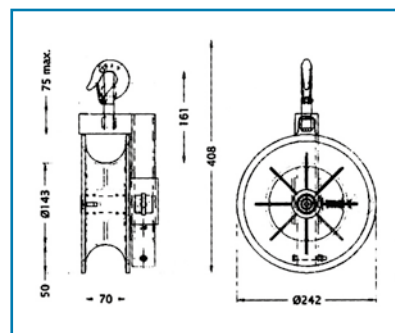
Working load 200 daN.
Breaking load 1.000 daN.
Weight 2,5 kg.



RUNNING BLOCK FOR INSULATED CABLE MODEL PW71

Nylon sheave, mounted on ball-bearings, galvanized steel frame.
Swivel hook and telescopic no-jamming rope device.

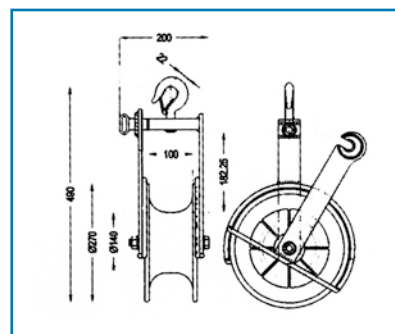
Working load 500 daN.
Breaking load 2.500 daN.
Weight 4 kg.



RUNNING BLOCK FOR INSULATED CABLE MODEL PW72

Nylon sheave, mounted on ball-bearings,
galvanized steel frame swivel hook.
Complete of no-jamming circumference profile.

Working load 1.000 daN.
Breaking load 5 daN.
Weight 8 kg.



Model

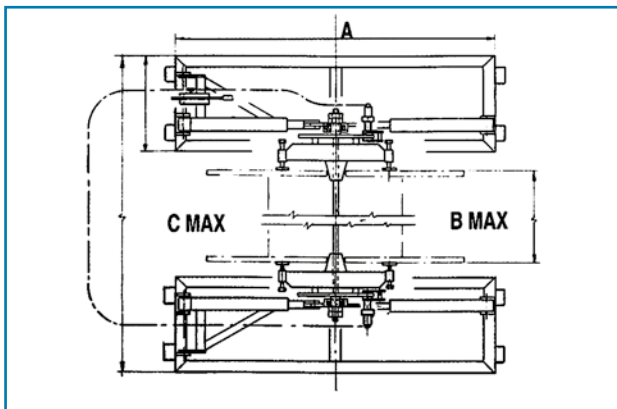
PW70 - PW71 - PW72

RUNNING BLOCK FOR INSULATED CABLE



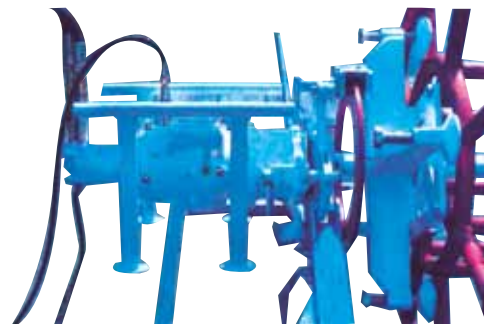
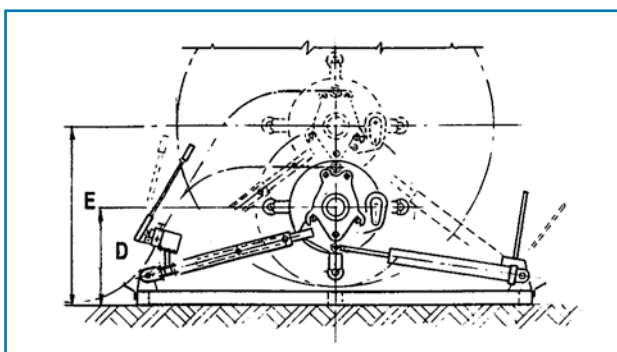
REEL STAND WITH DISC BRAKES MODEL PW32

Suitable for laying out cables during stringing conductors operations, tubular steel construction.
Folding up for easy transport, reel lifting by hydraulic jack.
Disc brakes with interchangeable pads, support with oscillating shielded ball-bearings.



| Model | Capacity kg | Dimensions mm | | | | | Weight kg |
|----------|----------------|---------------|------|------|-----|------|--------------|
| | | A | B | C | D | E | |
| PW32.40 | 4000 | 1800 | 1400 | 2700 | 400 | 1400 | 200 |
| PW32.70 | 7000 | 2000 | 1500 | 2800 | 500 | 1400 | 280 |
| PW32.100 | 10000 | 2200 | 1650 | 3200 | 750 | 1600 | 360 |

HYDRAULIC DRIVEN HEAD GROUP MODEL PW33



| Driven performances | | |
|---------------------|-----------------|-------------------|
| Max torque | 300 daN m | 300 and 160 daN m |
| Freed pressure | 150 bar | 300 and 160 daN m |
| Max speed on shaft | up to 32 r.p.m. | 32 and 50* r.p.m. |
| Head group weight | 80 kg | |

(*) with engine up to 60 HP

Model
PW32 - PW33

REEL STAND WITH DISC BRAKES
HYDRAULIC DRIVEN HEAD GROUP



DEVICES FOR TEMPORARY GROUNDING PHASES OF OVERHEAD LINES WHEN DE-ENERGIZED FOR MAINTENANCE WORK OR DURING ERECTION FOR TENSION LINES UP TO 150-220-400 KV

GROUNDING DEVICE SET MODEL PW34

Grounding device set composed of:

- n.3 conductors clamps 5 to 6 mm cond. dia. of cast aluminium alloy with quick - thread recessing screw and complete of fix or swivel eye for the connection to the insulated stick.
- n.1 insulating fiberglass stick with coupling special hook, for the above clamp. 4,5/6 mts lengths.
- n.3 lengths of extra-flexible copper cable with transparent insulating plastic protection P.V.C. (Section 50 or 95 mm² lengths on request).
- n.3 tower grounding clamp up to 33 mm width coupling bar, in aluminium with galvanized steel screw.



| Model | For conductors diam. mm | Insulating stick length m. section n. | Sustainable for lines up to kV |
|---------|----------------------------|--|-----------------------------------|
| PW34.15 | 5 to 60 | 4,5 2 | 150 |
| PW34.22 | 5 to 60 | 4,5 2 | 220 |
| PW34.40 | 5 to 60 | 6 3 | 400 |



Complete set with storage metallic box and canvas bag for stick.

MOBILE EARTHING DEVICE MODEL PW40.ATM40

Suitable for discharging the induced electricity on cables, during the stringing operations.

| Model | Conductors mm | Copper cable section mm ² | Lenght mt | Weight kg |
|------------|------------------|---|--------------|--------------|
| PW40.ATM40 | 5-40 | 50 | 5 | 8 |



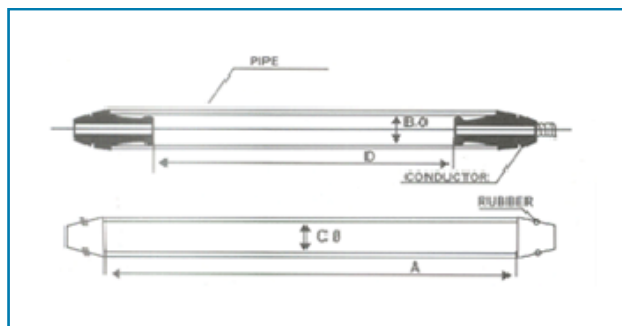
Model
PW34 - PW40.ATM40



JOINT PROTECTOR MODEL PW29

Made of heavy duty steel tube.
Rubber bushes on both sides to avoid damage of conductor.

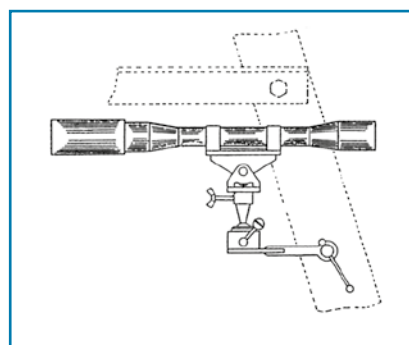
| Model | Dimensions mm | | | | Weight kg |
|------------|---------------|----|----|-----|-----------|
| | A | B | C | D | |
| PW29.137/1 | 796 | 50 | 40 | 712 | 3.5 |
| PW29.137/2 | 925 | 60 | 50 | 790 | 4.9 |
| PW29.137/3 | 1020 | 90 | 70 | 844 | 13.5 |



CONDUCTOR SAGGING DEVICE "SAG-SCOPE" MODEL PW41.SAG

4x40 monocular telescope, suitable for an accurate conductor sagging operation.
Supplied with:

- Special articulated balancing device for tower leg profile clamping
- Tailor-made store case.



NYLON ROPE LADDERS MODEL PW65

Suitable to go down in tanks; wells and emergency evacuation.
Aluminium corrugated rungs, nylon rope Ø 16 mm.
Length on request.
Width of the ladder 35 cm.
Working load: 100 kg.

Weight 1.1 kg/m.
During normal works conditions, the operator has to wear a safety fullbody harness EN 361 and a fall arrester device EN 353.2-EN 360.



Model
PW29 - PW41.SAG - PW65

JOINT PROTECTOR
CONDUCTOR SAGGING
DEVICE "SAG-SCOPE"
NYLON ROPE LADDERS



WEBBING AND ROUND SLING MODEL PW35

Made of polyester double play.

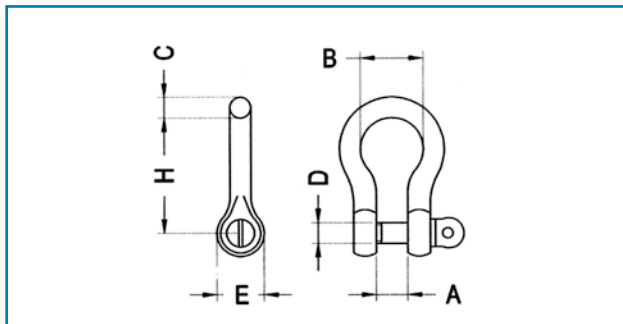


Safety Factor = 7:1
According to EN 1492-1-2000 STD

| Capacity in % | | | 100% | 200% | 140% 7°:45° | 80% | 100% 45°:60° |
|---------------|--------|-------|-------|-------|----------------|------|-----------------|
| Capacity | Colour | Width | | | | | |
| PW35.1T | | 50 | 1000 | 2000 | 1400 | 800 | 1000 |
| PW35.2T | | 60 | 2000 | 4000 | 2800 | 1600 | 2000 |
| PW35.3T | | 90 | 3000 | 6000 | 4200 | 2400 | 3000 |
| PW35.4T | | 120 | 4000 | 8000 | 5600 | 3200 | 4000 |
| PW35.5T | | 150 | 5000 | 10000 | 7000 | 4000 | 5000 |
| PW35.6T | | 180 | 6000 | 12000 | 8400 | 4800 | 6000 |
| PW35.8T | | 240 | 8000 | 16000 | 11200 | 6400 | 8000 |
| PW35.10T | | 300 | 10000 | 20000 | 14000 | 8000 | 10000 |

SHACKLE MODEL PW36

Shackle in high carbon steel,
pin in high alloy steel.



| Model | Capacity | Dimension mm | | | | | | Toler. | Weight kg |
|-----------|----------|--------------|-----|----|----|-----|-----|--------|--------------|
| | | A | B | C | D | E | F | | |
| PW36.50 | 500 | 12 | 20 | 6 | 8 | 18 | 32 | 2 | 0.05 |
| PW36.75 | 750 | 13 | 21 | 8 | 10 | 21 | 36 | 2 | 0.08 |
| PW36.100 | 1000 | 16 | 26 | 10 | 11 | 25 | 42 | 3 | 0.1 |
| PW36.150 | 1500 | 18 | 29 | 11 | 13 | 27 | 49 | 3 | 0.2 |
| PW36.200 | 2000 | 20 | 33 | 13 | 16 | 31 | 55 | 3 | 0.3 |
| PW36.325 | 3250 | 27 | 43 | 16 | 19 | 40 | 70 | 3 | 0.7 |
| PW36.475 | 4750 | 32 | 51 | 19 | 22 | 48 | 82 | 6 | 1.0 |
| PW36.650 | 6500 | 37 | 58 | 22 | 25 | 55 | 97 | 6 | 1.5 |
| PW36.850 | 8500 | 43 | 68 | 26 | 28 | 61 | 109 | 6 | 2.4 |
| PW36.950 | 9500 | 46 | 74 | 29 | 32 | 67 | 124 | 6 | 3.2 |
| PW36.1200 | 12000 | 52 | 83 | 32 | 35 | 79 | 137 | 6 | 4.4 |
| PW36.1350 | 13500 | 57 | 92 | 35 | 38 | 84 | 153 | 6 | 5.7 |
| PW36.1700 | 17000 | 60 | 98 | 38 | 41 | 92 | 166 | 6 | 7.8 |
| PW36.2500 | 25000 | 73 | 127 | 45 | 51 | 110 | 204 | 20 | 12.6 |
| PW36.3500 | 35000 | 83 | 146 | 51 | 57 | 127 | 225 | 20 | 18.6 |
| PW36.5500 | 55000 | 105 | 184 | 64 | 70 | 153 | 302 | 20 | 41.0 |

EYE-EYE SLINGS MODEL PW37

Eye-eye slings in galvanized
steel wire rope "metallic
core".



| Model | Wire rope diam.mm | Capacity (kg) referring the use modalities | | | | Eye AxB mm. |
|---------|-------------------------|---|-------|-------|------|----------------|
| | | | | | | |
| PW37.08 | 8 | 700 | 1400 | 1210 | 990 | 64x128 |
| PW37.10 | 10 | 1100 | 2140 | 1850 | 1510 | 80x160 |
| PW37.12 | 12 | 1600 | 3200 | 2770 | 2260 | 96x192 |
| PW37.14 | 14 | 2100 | 4160 | 3600 | 2940 | 112x224 |
| PW37.16 | 16 | 2750 | 5460 | 4720 | 3860 | 128x256 |
| PW37.18 | 18 | 3500 | 7000 | 6050 | 4950 | 144x288 |
| PW37.20 | 20 | 4300 | 8560 | 7400 | 6050 | 160x320 |
| PW37.22 | 22 | 5200 | 10300 | 8910 | 7280 | 176x352 |
| PW37.04 | 24 | 6200 | 12400 | 10640 | 8690 | 192x384 |

Model
PW35 - PW36 - PW37

ON REQUEST: Slings supplied with "textil core" wire rope.

OPTIONAL

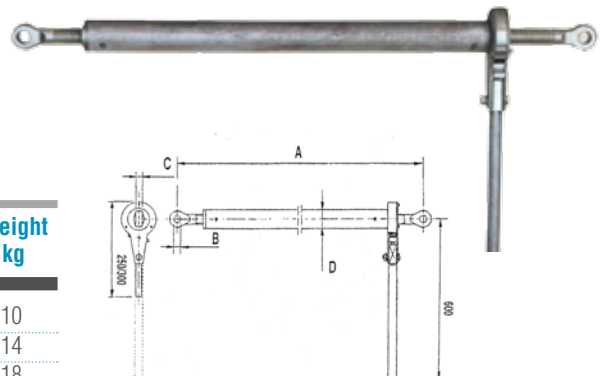
Slings with thimble redancia Mod. "AR" or "RR"

Slings with rubber protection Mod. "G"

RATCHET TYPE TURNBUCKLE MODEL PWTC30 - 50 - 100

Suitable for lifting and stretching operation made of galvanized steel.

| Model | Dimensions mm | | | | | W.L. kg | B.L. kg | Weight kg |
|----------|---------------|-------|----|----|----|------------|------------|--------------|
| | A min. | B max | B | C | D | | | |
| PWTC.30 | 600 | 900 | 18 | 20 | 50 | 3000 | 7000 | 10 |
| PWTC.50 | 650 | 1050 | 22 | 24 | 54 | 5000 | 18000 | 14 |
| PWTC.100 | 950 | 1550 | 24 | 24 | 60 | 10000 | 30000 | 18 |



PULLING, SINGLE-ACTING CYLINDERS WITH SPRING RETURN MODEL PW150

Hydraulic pulling cylinder with spring return, max pressure 700 bar. Designed to operate in any position.

Made of alloy steel suitable to pull back during the sagging and stringing operations.

High-strength, removable steel eyelets. Complete with 3 m pipe and hydraulic hand pump model PMM – two stages with safety valve, pressure gauge and quick-release couplings.

Custom made high pressure Hydraulic cylinders can be manufactured upon customer request.



SPECIFICATION

Max. oil pressure: 700 bar

Oil delivery volume per pumping: 1st stage 16,28 cm³
2nd stage 2,46 cm³

Oil tank capacity: 2,2 l

Weight : 9,5 kg

Case: 70x35x25 cm

| Model | Force ton (kN) | Stroke mm | Section cm ² | Volume cm ³ | Weight kg ³ | Dimensions mm | | | | | | | | |
|----------|-------------------|--------------|----------------------------|---------------------------|---------------------------|---------------|------|------|-----|-----|----|-----|----|-----|
| | | | | | | A | B | C | D | E | F | G | H | L |
| PW150... | 10 /109 | 75 | 15.7 | 118 | 13.5 | 531 | 606 | 567 | 78 | 55 | 32 | 95 | 42 | 78 |
| PW150... | 10 /109 | 150 | 15.7 | 235 | 14.5 | 531 | 756 | 642 | 78 | 55 | 32 | 95 | 42 | 78 |
| PW150... | 30 /304.3 | 75 | 40.84 | 314 | 28.5 | 531 | 775 | 750 | 114 | 85 | 45 | 100 | 54 | 104 |
| PW150... | 30 /304.3 | 155 | 40.84 | 648.5 | 38 | 531 | 965 | 840 | 114 | 85 | 45 | 100 | 54 | 104 |
| PW150... | 60/613.1 | 80 | 84.23 | 674 | 70.5 | 531 | 770 | 768 | 175 | 125 | 70 | 137 | 62 | 140 |
| PW150... | 60/613.1 | 155 | 84.23 | 1306 | 92.5 | 531 | 995 | 918 | 175 | 125 | 70 | 137 | 62 | 140 |
| PW150... | 100/1042.3 | 160 | 143.2 | 2292 | 170 | 950 | 1110 | 1048 | 225 | 165 | 95 | 149 | 72 | 170 |

Model
PWTC30 - 50 - 100 - PW150

RATCHET TYPE TURNBUCKLE

PULLING, SINGLE-ACTING CYLINDERS WITH SPRING RETURN



RATCHET TYPE CONDUCTOR CUTTER MODEL PWHC11/PWHC31



| Model | Suitable for bare conductors steel earthwires | Cutting diam. up to mm | Dimensions length mm | Weight kg | Spare part jaws code |
|--------|---|------------------------|----------------------|-----------|----------------------|
| PWHC31 | ACSR, AAC, AAAC, Copper | 31,00 | 740 | 5 | 654/3 |
| PWHC11 | Galvanized steel | 11,00 | 711 | 4 | 654/4 |

HYDRAULIC CUTTER MODEL PWHC32

Hydraulic hand cutter designed for cutting copper, aluminium, acsr, aluminium steel cable, steel ropes and rods.
Blades made of high strength steel, heat treated.



| | | | | wire rope | | | round bar | | | | wire strand | | | | | cable | | |
|--------|---------------|--------------|-------------|-----------|----------------|----------------|------------------|------------------|----------------|-----------------|-----------------|-----------------|--------------|---------|----------|------------|--------------|--------------|
| Code | Output (tons) | Weight (kgs) | Length (mm) | 6x7 hemp- | 6x12 hemp-core | 6x19 hemp-core | soft copper core | soft alumin. bar | soft steel bar | reinforcing bar | bare copper bar | bar alumin. bar | acsr strands | 1x7 guy | 1x19 guy | tele phone | lead alumin. | under ground |
| PWHC32 | 6 | 6 | 630 | --- | --- | --- | 25 | 22 | 16 | 13 | 32 | 32 | 28 | 15 | 20 | --- | --- | --- |

HYDRAULIC CUTTER MODEL PWHC40



| | | | Max hardness | Max Ø of cut |
|----------------------|--------|---|--------------|---------------------------------------|
| Max cutting capacity | Cables | Copper aluminium steel multistrands Steel ACSR | < 20 daN/mm | Ø 40 |
| | | | < 180 daN/mm | Ø 40 |
| | | | < 180 daN/mm | 7 x Ø 3.0 (= Ø 9.0) |
| | | | < 180 daN/mm | 19 x Ø 2.1 (= Ø 10.5) |
| | | | < 40 daN/mm | 19 x 2.3 (= Ø 11.5) |
| | | | | Ø 18 /stand qty > 200 |
| | | | | 26 x Ø 2.50 + 7 x Ø 1.95 (= Ø 15.85) |
| | | | | 26 x Ø 3.06 + 7 x Ø 2.38 (= Ø 19.38) |
| | | | | 26 x Ø 3.60 + 7 x Ø 2.80 (= Ø 22.80) |
| | | | | 54 x Ø 3.50 + 19 x Ø 2.10 (= Ø 31.50) |
| | | | | 54 Ø 4.36 + 19 x Ø 2.62 (= Ø 39.20) |
| | Bar | Steel copper aluminium | < 60 daN/mm | Ø 18 |
| | | | < 42 daN/mm | Ø 20 |
| | | | < 30 daN/mm | Ø 30 |
| | | | < 25 daN/mm | Ø 32 |
| | | | < 16 daN/mm | Ø 40 |

Model
PWHC11 - 31 - 32 - 40

Hydraulic cable cutter for copper, aluminium, or steel cables.
Ergonomically designed moveable handle. Two-stage hydraulic system, reducing the number of pumpings.
Up to 40 mm acsr.
Weight 5,9 Kg



MERCURY THERMOMETER MODEL PW39

Mercury thermometer into aluminium reproducing the overall surface of the conductor.

Measuring range in °C - 30° +60°

Weight 0,5 to 1 kg



ELECTRONIC DIGITAL THERMOMETERS MODEL PW47

Handy and light model with 1 fixed probe for measuring by contact the exact temperature of surfaces of the conductors. With protection cap, lanyard and clip. It also senses the environmental temperature. Reading on 4-digit display, automatic shut-off. On/off button (ON/OFF), reading memory button (HOLD) and conversion button °C/°F. Probe length 80 mm. Measurement functions: for contact temperature -50° C +300° C/ -58° F to 572° F. Accuracy: ± 1° C/° F. Power supply: 1 alkaline battery model LR



44 1.5 V (from Art. SCU to 3600), supplied. Particularly suitable for stringing operation on the conductors.

ELECTRONIC DYNAMOMETER MODEL PW73

The dynamometers model PW73 are instruments of high accuracy for the measurement of static forces of traction and of static load. The instrument works with all direction of the load and it's equipped with a case which contains the instruction booklet and calibration certificate.

Main characteristics are:

- Tare zeroing and weight restore
- Block-unblock on the visualized weight
- Maximum weight peak
- Visualization of the Gross, Net weight and Tare
- Measuring unit selection
(kg → t → ton → Lbs → daN → kN)
- Speed selection
- Self power-down qualifie
- Digital calibration of zero and weight
- LCD five digits - high 0,67 inc
- Power supply-9V standard battery (life up to 200 hours)
- Choice of unit of measurements
(kg → t → ton → Lbs → daN → kN)

- Tare function
- Overload indication on display (110% f.s.)
- Variable response rate by keyboard

| Model | Capacity | Tolerance | Dimension mm | | | | | | | Weight kg |
|---------|----------|-----------|--------------|-----|-----|----|------|-----|-----|-----------|
| | | | A | B | C | D | E | F | G | |
| PW36.50 | 250 kg | 0,1 kg | 192 | 85 | 142 | 15 | 25 | 16 | 54 | 1,15 kg |
| PW36.50 | 500 kg | 0,2 kg | 192 | 85 | 142 | 15 | 25 | 16 | 54 | 1,15 kg |
| PW36.50 | 500 kg | 0,2 kg | 192 | 85 | 142 | 15 | 25 | 16 | 54 | 1,15 kg |
| PW36.50 | 2,5 t | 1 kg | 218 | 85 | 160 | 21 | 29 | 25 | 54 | 1,35 kg |
| PW36.50 | 5 t | 2 kg | 230 | 85 | 165 | 27 | 32,5 | 32 | 5 | 41,85 kg |
| PW36.50 | 10 t | 5 kg | 315 | 100 | 200 | 38 | 57,5 | 49 | 59 | 3,6 kg |
| PW36.50 | 25 t | 10 kg | 350 | 126 | 210 | 53 | 70 | 70 | 70 | 5,5 kg |
| PW36.50 | 50 t | 20 kg | 430 | 128 | 250 | 72 | 90 | 100 | 100 | 13,5 kg |



Model

PW39 - PW47 - PW73



LEVER BLOCK MODEL PW44

The PW44 model Lever Block line is a kind of highly efficient and versatile hand operated hoisting appliances, which is capable of being widely applied in stringing operation shipbuilding, power plants, transport, construction sites, mines, post and telecommunication for installing machines, lifting goods and dragging loads; it is particularly used in the narrow places, the open air and overhead places for pulling and stretching work at any angle.

CONSTRUCTION

The Lever Block line is made with the best alloy steel, it's light weight and strong, easy to use with one hand only saving working time.

FEATURES

The Lever Block line has following features:

- It meets the 2006/42/CE standard
- High tensile strength steel main frame
- Hardened load sheave
- Alloy steel chain
- Double pawl system
- Safety spring-latches on both the hooks
- Top and bottom safety hooks drop forged
- Chain-guide protection of the roller



| | | Model | | | | |
|----------------------|--------|---------|----------|----------|----------|----------|
| | | PW44.75 | PW44.150 | PW44.300 | PW44.600 | PW44.900 |
| Capacity | daN/kg | 750 | 1500 | 3000 | 6000 | 9000 |
| Test load | daN/kg | 1125 | 2250 | 4500 | 9000 | 11500 |
| Std. Loading chain | m | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Diam. of chain | mm | 6x18 | 8x24 | 10x30 | 10x30 | 10x30 |
| Chain grade | ISO | 80 | 80 | 80 | 80 | 80 |
| N. of chain falls | | 1 | 1 | 1 | 2 | 3 |
| Max. loading effort | daN/kg | 14 | 22 | 32 | 34 | 36 |
| Length of L | mm | 280 | 410 | 410 | 410 | 410 |
| Net weight | kg | 7.5 | 11.5 | 21 | 31.5 | 47 |
| Chain weight per mt. | kg | 0.8 | 1.4 | 2.2 | 4.4 | 6.6 |

**Model
PW44**

LEVER BLOCK



HAND HOIST MODEL PW45

The cable lifter/puller PW45 Hand Hoist line is a kind of highly efficient and versatile cable lifter and puller, which is capable of being widely applied in shipbuilding, power plants, transport, construction sites, mines, post and telecommunication for installing machines, lifting, lowering, spanning and securing loads.

CONSTRUCTION

The cable lifter/puller PW45 Hand Hoist line has a high strength aluminium alloy body, the internal grips axle is galvanized and it has been engineered and developed in order to grant a very long working life. Our Hand Hoists are equipped by safety pins that in case of overloading are sheared.

Avoiding any traction movement but allowing lowering and relaxing operations.

FEATURES

The cable lifter/puller PW45 Hand Hoist line has following features:

- Meets the 2006/42/CE standard
- Safe, reliable and long-lasting
- Excellent performance, minimum maintenance
- Light weight and easy to move
- Suitable to be used with ropes by 10 mts on



| | | Model | | |
|--|---------|-----------|------------|------------|
| | | PW45.H800 | PW45.H1600 | PW45.H3200 |
| Nominal lifting capacity | daN/kg. | 800 | 1600 | 3200 |
| Nominal traction capacity | daN/kg | 1200 | 2500 | 5000 |
| Nominal diam. of the rope | mm | 8.3 | 11.3 | 16.3 |
| Rope construction 1770 N/mm ² | | 6x19 | 6x19 | 6x19 |
| Lifter/Puller weight | kg. | 6 | 11 | 22 |
| Rated forward handpower | daN/kg | 34.3 | 44.1 | 44.1 |
| Lever length | mm | 800 | 1200 | 1200 |
| Forward travel | mm | =>52 | =>55 | =>28 |

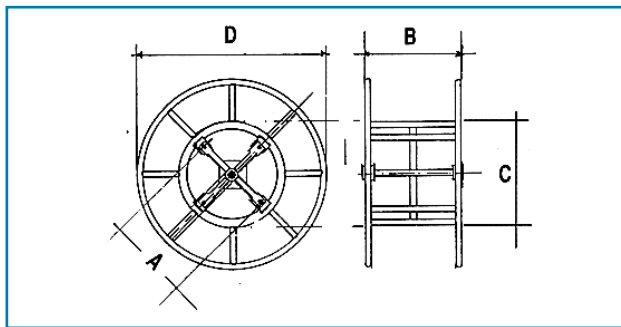
Model PW45

HAND HOIST



STEEL REEL FOR PULLING ROPES MODEL PW46

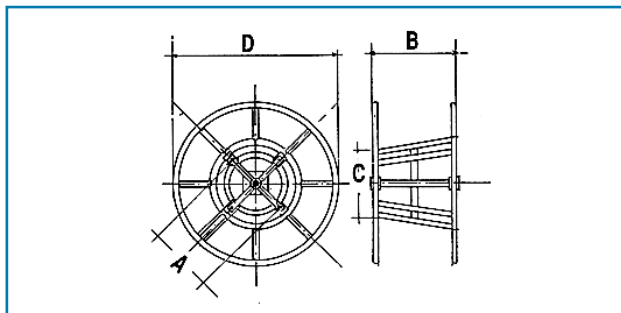
Steel reel for pulling ropes suitable for puller reelwinders.
Made of painted tubular steel.



| Model | Dimension mm | | | | Weight kg |
|--------|--------------|-----|-----|------|-----------|
| | A | B | C | D | |
| PW46.2 | 420 | 560 | 570 | 1100 | 65 |
| PW46.3 | 420 | 560 | 570 | 1400 | 105 |
| PW46.4 | 420 | 560 | 570 | 1900 | 135 |

STEEL REEL FOR PULLING ROPES MODEL PW47

Steel reel for pulling ropes with opening side suitable for puller reelwinders. Made of painted tubular steel.



| Model | Dimension mm | | | | Weight kg |
|--------|--------------|-----|-----|------|-----------|
| | A | B | C | D | |
| PW47.2 | 420 | 560 | 570 | 1100 | 65 |
| PW47.3 | 420 | 560 | 570 | 1400 | 105 |

REEL CAPACITY IN METERS FOR STANDARD LENGTHS OF PILOT WIRE

| Reel | 6 | 7 | 8 | 10 | 12 | 13 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|-----------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PW46.2 - PW47.2 | 7200 | 6000 | 3200 | 2400 | 1600 | 1600 | 1100 | 900 | | | | | | | |
| PW46.3 - PW47.3 | 14400 | 12000 | 6400 | 3600 | 2400 | 2400 | 2200 | 1800 | 1200 | 1000 | 900 | 800 | | | |
| PW46.4 | 21600 | 18000 | 9600 | 7200 | 7200 | 4800 | 4400 | 3600 | 2400 | 2000 | 1800 | 1600 | 1400 | 1200 | 1060 |

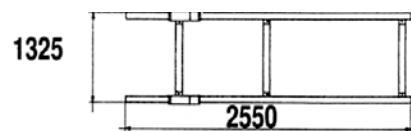
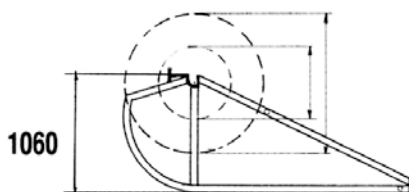
Model
PW46 - PW47

STEEL REEL FOR PULLING ROPES

TILTING AND LIFTING REEL STAND MODEL PW74

Hot dip galvanized steel frame, detachable type suitable for reels:
Min. 700 mm. diam.
Max 1400 mm. diam.
Max 600 mm. width
Max lifting capacity 2000 kg

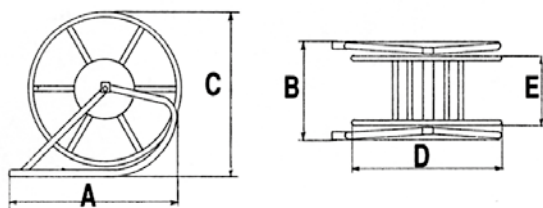
Available in Aluminium alloy - PW74/2



PILOT ROPE REELS WITH TILTING STAND MODEL PW75

Pilot rope reels with tilting stand. Painted tubular steel frame.

| Model | Dimension mm | | | | | Capacity cable 8 mm diam. (meters) | Capacity cable 8 mm diam. (meters) | Weight kg |
|---------|--------------|-----|------|-----|-----|--|--|--------------|
| | A | B | C | D | E | | | |
| PW75/1 | 700 | 500 | 530 | 450 | 420 | 700 | | 20 |
| PW75/2 | 790 | 465 | 800 | 700 | 350 | 1200 | 560 | 27 |
| PW475/3 | 970 | 570 | 1000 | 900 | 450 | 2500 | 1100 | 50 |



Model
PW74 - PW75

TILTING AND LIFTING REEL STANDS
PILOT ROPE REELS WITH TILTING STAND



BICYCLES MODEL PW52



The bicycle are suitable for single, twin, 3 and 4 bundle conductors lines, for installation of spacer dampers and aerial warning balls. Nylon wheels mounted on ball bearings. Adjustable to different distance between conductors 400, 457, and

500mm for twin and 4 conductors, 400 mm for three bundle conductors.

Equipped with negative brake and safety brake clamping the conductor, with safety belt and metercounter.

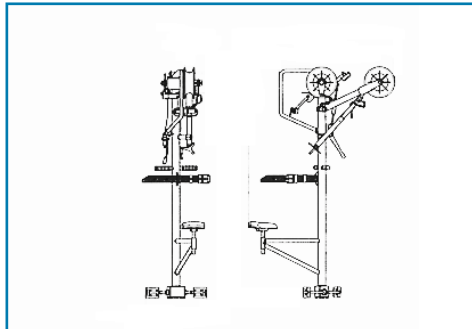
Model PW52

BICYCLES



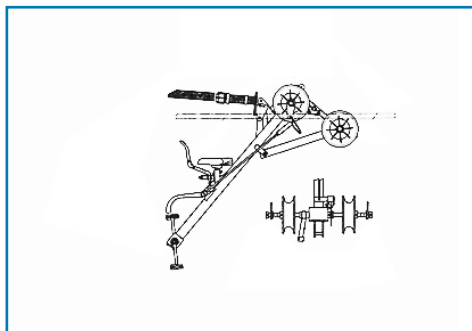
BICYCLE FOR SINGLE CONDUCTOR MODEL PW52.1

Weight: 25 kg
Payload 100 daN



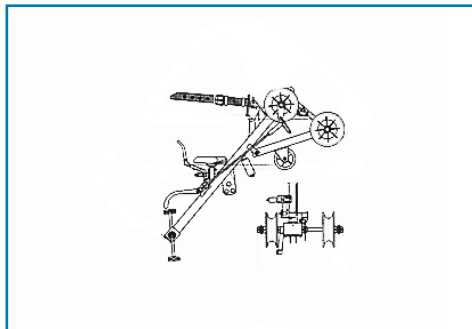
BICYCLE FOR TWIN BUNDLE CONDUCTORS MODEL PW52.2

Weight: 32 kg
Payload 100 daN



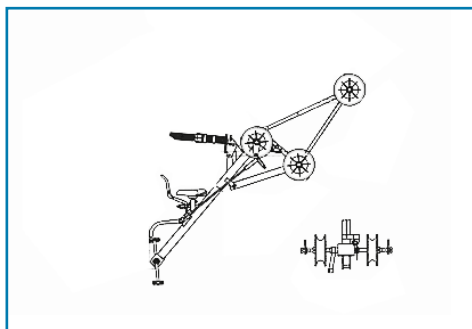
BICYCLE FOR TRIPLE BUNDLE CONDUCTORS MODEL PW52.3

Weight: 38 kg
Payload 100 daN



BICYCLE FOR QUAD BUNDLE CONDUCTORS MODEL PW52.4

Weight: 42 kg
Payload 100 daN



Model
PW52.1 - 52.2 - 52.3 - 52.4

BICYCLE FOR SINGLE CONDUCTOR
BICYCLE FOR TWIN BUNDLE CONDUCTORS
BICYCLE FOR TRIPLE BUNDLE CONDUCTORS
BICYCLE FOR QUAD BUNDLE CONDUCTORS



SPACER CAR-1 BUNDLE MODEL PW48

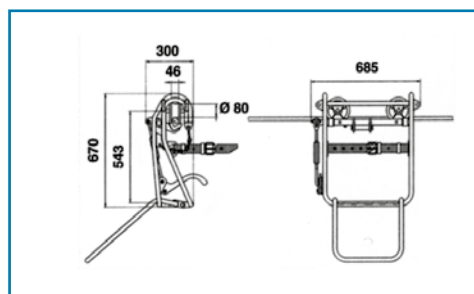
Space car complete of stationary brake and foot rest.

Pay load: 100 daN

Weight: 12 kg

OPTIONAL

Counter meter device Art. CM/032



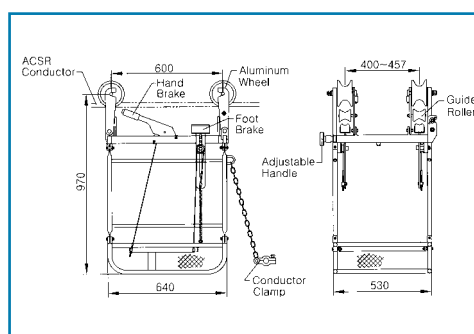
SPACER CAR-2 BUNDLE (ADJUSTABLE) MODEL PW49

This Space car is used for stringing works and repair works for 2 bundle conductor or setting up works for aircraft warning ball.

Weight: 21 kg

FEATURES

- Can be easily and naturally adjusted.
- Double brake system thrust safe work on the conductor.
- Conductor supporting guide roller for preventing the conductor from damages.
- The operator can work by moving on the conductor without any damages for the conductor.



- Distance meter & conductor clamp are optional specs.
- Light aluminium body is better for working than heavy steel body.
- The left wheel is for fixing, and right wheel is for moving in turns.

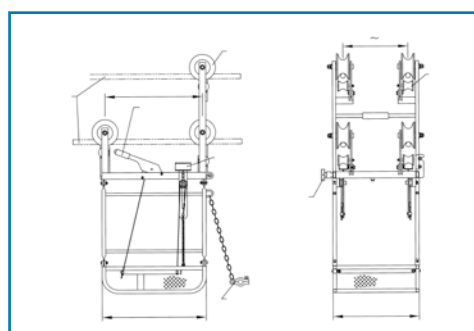
SPACER CAR-4 BUNDLE (ADJUSTABLE) MODEL PW51

This Space car is used for stringing works and repair works for 4 bundle conductor or setting up works for airplane signboard.

Weight: 23 kg

FEATURES

- Can be easily and naturally adjusted.
- Double brake system thrust safe work on the conductor.
- Conductor supporting guide roller for preventing the conductor from damages.
- The operator can work by moving on the conductor without any damages for the conductor.



- Distance meter & conductor clamp are optional specs.
- Light aluminium body is better for working than heavy steel body.
- The left wheel is for fixing, and right wheel is for moving in turns.

Model
PW48 - PW49 - PW51

SPACER CAR-1 BUNDLE

SPACER CAR-2 BUNDLE (ADJUSTABLE)

SPACER CAR-4 BUNDLE (ADJUSTABLE)

SPACER CAR MODEL PW100

- For 2-, 3-, and 4-bundle conductor
- With drive engine, max. 6.3 kW (8.6 hp)
- Welded line car for the installation of aerial warning balls or dampers (max. inclination angle 25°)
- Including parking brake and dynamic brake
- Max. speed 40 m/min
- 4 axles can be opened consecutively for passing of suspension tower

When ordering please specify the distance between the conductors.



| Model | Bundle | Distance between conductors mm | Length mm | Width mm | Height mm | Working load kg | Weight kg |
|-------|--------|--------------------------------|-----------|----------|-----------|-----------------|-----------|
| PW100 | 2 | 400 – 600 | 1900 | 940 | 1690 | 200 | 208 |
| PW101 | 3 | 400 – 600 | 1900 | 940 | 1690 | 200 | 213 |
| PW102 | 4 | 400 – 600 | 1900 | 940 | 1690 | 200 | 218 |

OPTIONAL

- Meter counter
- Lifting device

Special designs on request.

SPACER CAR MODEL PW103

- For 2-, 3-, and 4-bundle conductor
- With drive engine
- Welded line car for the installation of aerial warning balls, spacers, or dampers
- Including parking brake and dynamic brake
- 4 axles can be opened consecutively for passing of suspension tower

When ordering please specify the distance between the conductors.



| Model | Bundle | Distance between conductors mm | Length mm | Width mm | Height mm | Working load kg | Weight kg |
|-------|--------|--------------------------------|-----------|----------|-----------|-----------------|-----------|
| PW103 | 2 | 400 – 510 | 1900 | 820 | 1258 | 200 | 90 |
| PW104 | 3 | 400 – 510 | 1900 | 820 | 1258 | 200 | 96 |
| PW105 | 4 | 400 – 510 | 1900 | 820 | 1258 | 200 | 100 |

OPTIONAL

- Meter counter
- Lifting device

Special designs on request.

Model
PW100 - PW103

SPACER CAR



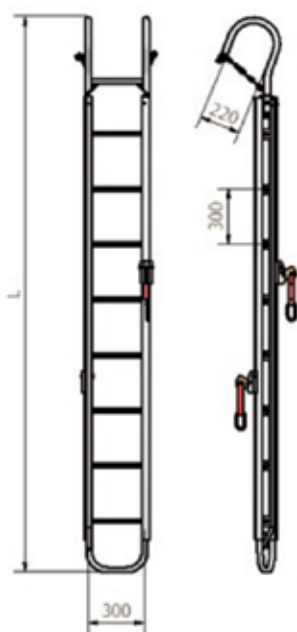
ALUMINIUM SUSPENSION LADDER MODEL PW53

Light duty ladder suitable for vertical suspension on aerial line work - corrugated rungs. Tubular steel hook, complete with safety chain. It can be used contemporary by two operators.

Vertical safe working load: 300 daN max.

PW53.1: Fall arrester

PW53.2: Fall arrester



| Length m. | Elements n. | Weight kg |
|-----------|-------------|-----------|
| 3 | 1 | 13,5 |
| 4 | 1 | 16,4 |
| 5 | 1 | 19,6 |
| 6 | 1 | 22,8 |
| 6 | 2 | 24 |
| 8 | 2 | 31 |
| 10 | 2 | 38 |

It can be used together with a full body harness EN361-358 with sternal connector.
Equipped with one EN353-1 fall arrester.



GUIDED TYPE FALL ARRESTERS ON A RIGID ANCHORAGE LINE MODEL PWNT01

Including mini-absorber of energy, suitable for anchorages lines made of aluminum T type 40 x 4 mm - Slider body made of aluminum, handle made of steel - Weight: 800 g.



Model
PW53 - PWNT01

ALUMINIUM SUSPENSION LADDER
GUIDED TYPE FALL ARRESTERS



HORIZONTAL AND SUSPENSION LADDER FOR AERIAL LINE WORKS MODEL PW54

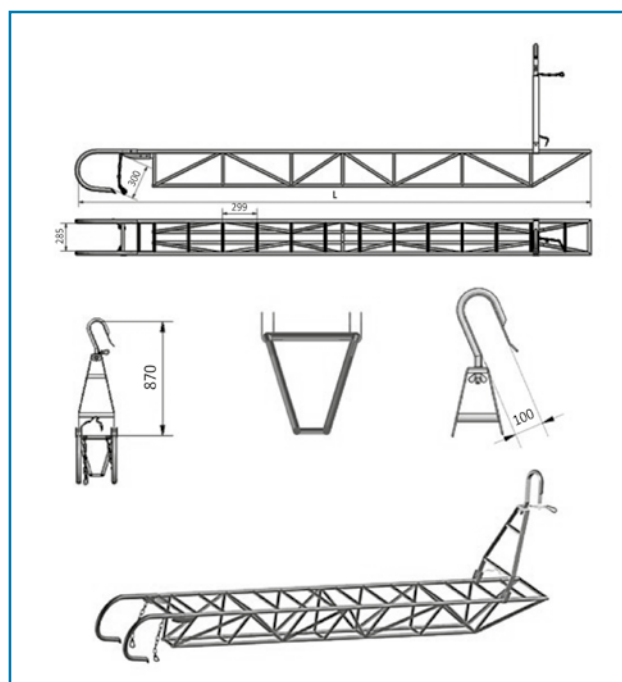


Designed to be used as a vertical suspension ladder or as an horizontal platform for overhead power line operations. Anchored with special hooks at the tower arm and at the conductor. Made of aluminium alloy tubular structure with trapezoidal or triangular section in one piece or, on request, in two pieces for easier transport.

Working capacity: 200 daN.

Breaking load: 1000 daN.

| Model Length | m | 351 3,5 | 451 4,5 | 601 6 | 602 4+2 |
|-------------------|----|------------|------------|----------|------------|
| Weight with hooks | kg | 17,5 | 20 | 26 | 29 |



Model PW54

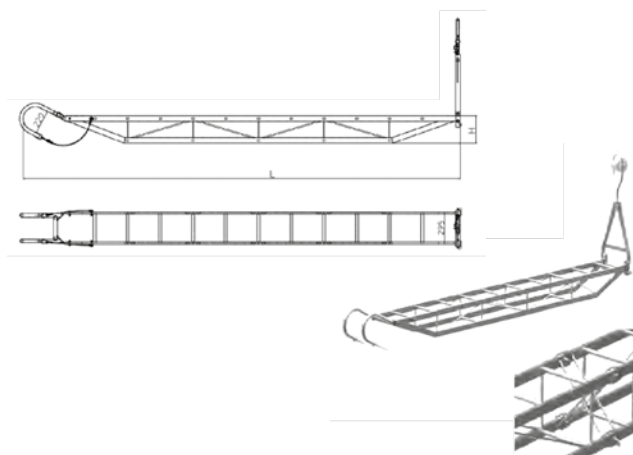
HORIZONTAL AND SUSPENSION LADDER FOR AERIAL LINE WORKS



SUSPENSION LADDER PLATFORM MODEL PW110

- For horizontal use at strain towers
- High anti-slip safety and secure grip due to aluminum structure profile
- Light and easy to handle aluminum construction
- Very sturdy due to 4-bar construction
- Easy transport due to foldable, turnable conductor hook (with polyamide sheave)

| Model | Section | L (m) | H (mm) | Working load horizontal kg | Weight kg |
|-----------|---------|-------------|--------|----------------------------|-----------|
| PW110.2,5 | 1 | 2.5 | 250 | 2.5 | 17.8 |
| PW110.3 | 1 | 3 | 250 | 2.5 | 19.6 |
| PW110.3,5 | 1 | 3.5 | 250 | 2.5 | 21.7 |
| PW110.4 | 1 | 4 | 250 | 2.5 | 23.5 |
| PW110.5 | 1 | 5 | 250 | 2.5 | 30.4 |
| PW110.6 | 2 | 6 (4+2) | 350 | 2.5 | 33.2 |
| PW110.6 | 2 | 7 (3.5+3.5) | 350 | 2.5 | 36.6 |
| PW110.6 | 2 | 8 (4+4) | 350 | 2.5 | 43.6 |
| PW110.10 | 2 | 10 (5+5) | 350 | 2.5 | 52.3 |



- Easy mounting in the tower due to s-shaped hooks
- Simple securing of hook with safety chain
- High safety due to captive snap hook

OPTIONAL

- Conductor hook with safety chain without conductor sheave
- Aluminum conductor sheave
- Circumferential safety steel rope at the conductor hook with conductor sheave
- Additional anti-slip safety due to perforated metal planks

Special designs on request.

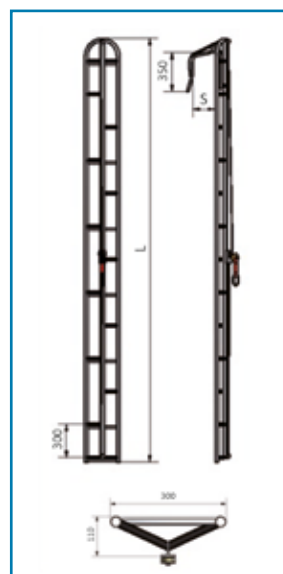
ALUMINIUM LADDER FOR TOWER CLIMBING MODEL PW60

Triangular ladder with galvanized steel hook. Working load: 100 daN

Complete of one fall arrester safety device EN353-1 running on the central rail - Art.2146ANT01F



| Model PW60 | | 370 | 470 | 470-2 |
|--------------|--------|-----|-----|-------|
| Lenght | L = m | 3,7 | 4,7 | 4,7 |
| Hook opening | S = mm | 190 | 235 | 235 |
| Weight | kg | 9,5 | 12 | 14 |



Model
PW110 - PW60



SUSPENSION PLATFORM FOR OVERHEAD LINE WORKS MODEL PW55

Available in two or more elements, with trapezoidal section structure made of tubular aluminium alloy.
Supplied with the following accessories:
galvanized steel wire rope with turnbuckles
provided of safety antifall line ropes.

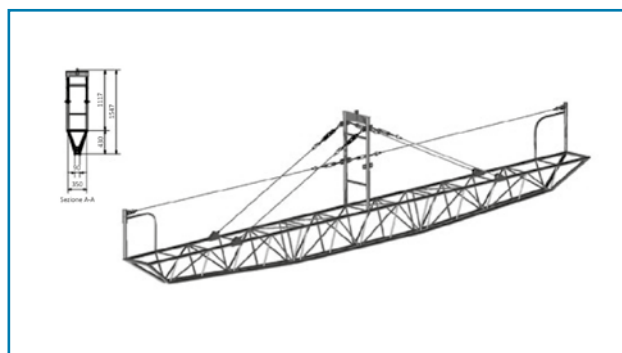
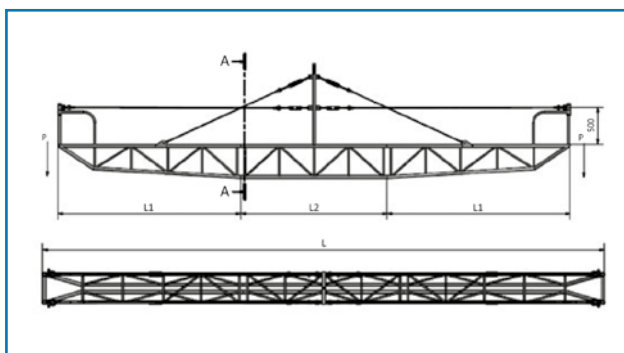
Working capacity: (P) 300 daN.



| Model | Length m | Sections n. | Elements setting L1 (m) + L2 (m) + L1 (m) | | | Weight without accessories - kg |
|----------|-------------|----------------|--|-----|----|------------------------------------|
| PW55.062 | 6 | 2 | 3 | - | 3 | 54 |
| PW55.082 | 8 | 2 | 4 | - | 4 | 65 |
| PW55.093 | 9 | 3 | 3+3 | +3 | 4 | 82 |
| PW55.103 | 10 | 3 | 4 | +2 | 4 | 91 |
| PW55.123 | 12 | 3 | 4 | +4 | +4 | 101 |
| PW55.164 | 16 | 4 | 4 | 4+4 | 4 | 156 |
| PW55.184 | 18 | 4 | 5 | 4+4 | 5 | 180 |
| PW55.204 | 20 | 4 | 5 | 5+5 | 5 | 220 |

ON REQUEST

- Rail way profile application for press trolley run (weight 2 kg./m)
- Trolley for press twisting at 360° (weight 12 kg.)
- Antifall barrier set
- Different capacity, lengths and composition



**Model
PW55**

**SUSPENSION PLATFORM
FOR OVERHEAD LINE WORKS**



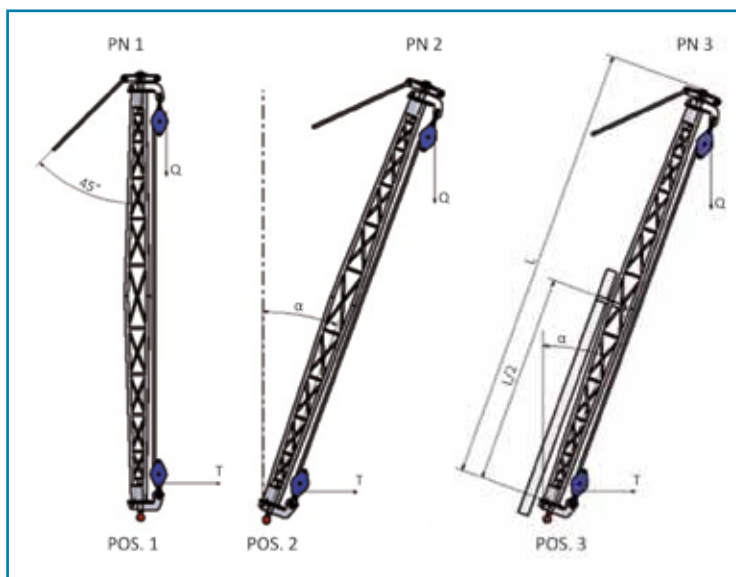
ALUMINIUM GIN POLES FOR LIFTING AND ERECTION OF POLES AND STEEL TOWERS MODEL PW57

CONDITIONS FOR USE

The working capacities of the gin poles shown in Tab. 1 are given for gin pole in three different working conditions (Pos.1 - Pos.2 - Pos.3):

The maximum working capacity of gin pole (PN) included the lift load (Q) and the pull line force (T). In any case before using the gin pole, users have to calculate the maximum working conditions of the item considering:

- Load conditions.
- Gin pole inclination.
- Gin pole windbracing system.



| Model | Working Load | | | Length m | Section n. | Weight kg Without accessoires |
|--------------|------------------------------|------------------------------|------------------------------|-------------|---------------|--|
| | PN1 POS. 1 e=0° daN | PN1 POS. 1 e=0° daN | PN1 POS. 1 e=0° daN | | | |
| PW57.10.6.2 | 1000 | 600 | 250 | 6 | 2 | 34 |
| PW57.10.8.2 | 1000 | 600 | 250 | 8 | 2 | 42 |
| PW57.15.8.2 | 1500 | 900 | 375 | 8 | 2 | 50 |
| PW57.15.10.2 | 1500 | 900 | 375 | 10 | 2 | 60 |
| PW57.15.12.3 | 1500 | 900 | 375 | 12 | 3 | 72 |
| PW57.20.8.2 | 2000 | 1200 | 500 | 8 | 2 | 56 |
| PW57.20.10.3 | 2000 | 1200 | 500 | 10 | 3 | 70 |
| PW57.20.12.3 | 2000 | 1200 | 500 | 12 | 3 | 82 |
| PW57.30.8.2 | 3000 | 1800 | 750 | 8 | 2 | 85 |
| PW57.30.12.2 | 3000 | 1800 | 750 | 12 | 3 | 112 |
| PW57.40.10.2 | 4000 | 2400 | 1000 | 10 | 3 | 107 |
| PW57.40.12.2 | 4000 | 2400 | 1000 | 12 | 3 | 125 |
| PW57.50.12.3 | 5000 | 3000 | 1250 | 12 | 3 | 140 |
| PW57.50.16.4 | 5000 | 3000 | 1250 | 16 | 4 | 192 |
| PW57.70.12.3 | 7000 | 4200 | 1750 | 12 | 3 | 190 |
| PW57.70.16.4 | 7000 | 4200 | 1750 | 16 | 4 | 250 |



NOTE:

The gin pole is supplied without the following accessories:

- Wire rope wind-bracing
- Anchoring pickets
- Snatch blocks or tackle blocks

That can be offered on request specifying the lifting method used.

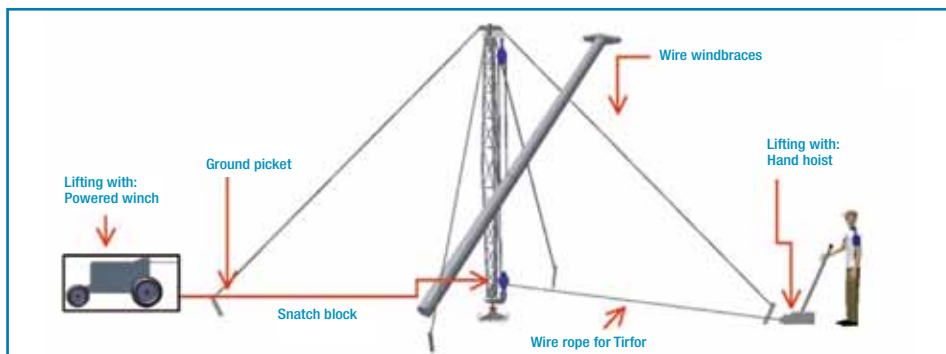
Model PW57

ALUMINIUM GIN POLES FOR LIFTING AND ERECTION OF POLES AND STEEL TOWERS



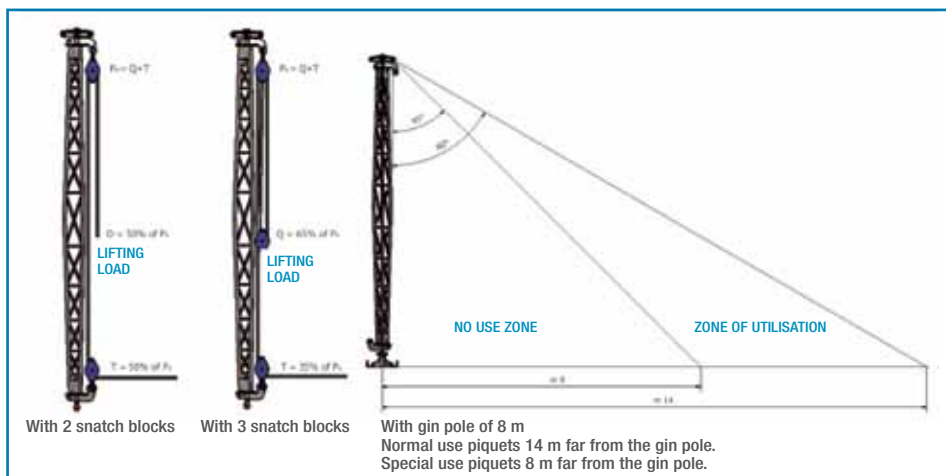
ALUMINIUM GIN POLES FOR LIFTING AND ERECTION OF POLES AND STEEL TOWERS MODEL PW57

Supplied with two or more interchangeable sections.
Aluminium alloy tubular construction with electrically welded lattice work. With swivelling head, base with ground plate and base hook for tower attachment.
Working load: from 1000 to 7000 daN
Length: from 6 to 18 m



EXAMPLE OF GIN POLE USE IN VERTICAL POSITION

EXAMPLE OF WINDBRACING POSITIONING



Model PW57

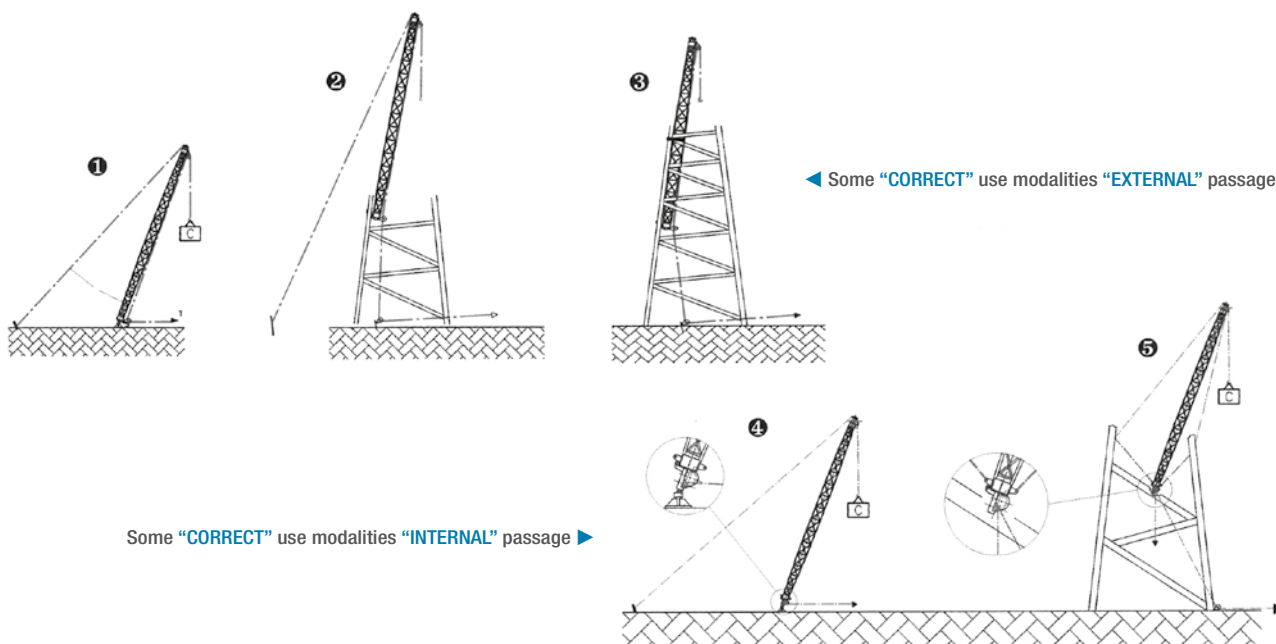
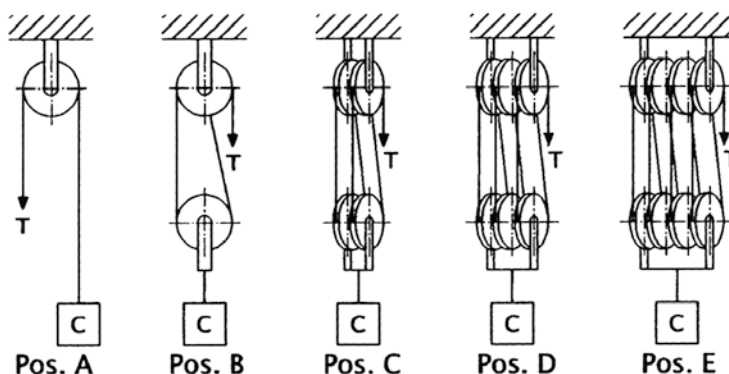
ALUMINIUM GIN POLES FOR LIFTING AND ERECTION OF POLES AND STEEL TOWERS



FOR EXTERNAL PASSAGE STRUCTURE MODEL PW57

With a hoisting condition referring a 5 sketched modalities as above, a subdivision of values (approximate) in percentage between the "Hoisting load C" and the "Hoisting line T" are understood as follows:

| Type of tackle | Total capacity PN | "C" | "T" |
|----------------------------|-------------------|-----|-----|
| A) By SINGLE sheave tackle | 100% | 50% | 50% |
| B) By TWO sheave tackle | 100% | 65% | 35% |
| C) By FOUR sheave tackle | 100% | 80% | 20% |
| D) By SIX sheave tackle | 100% | 85% | 15% |
| E) By EIGHTH sheave tackle | 100% | 90% | 10% |

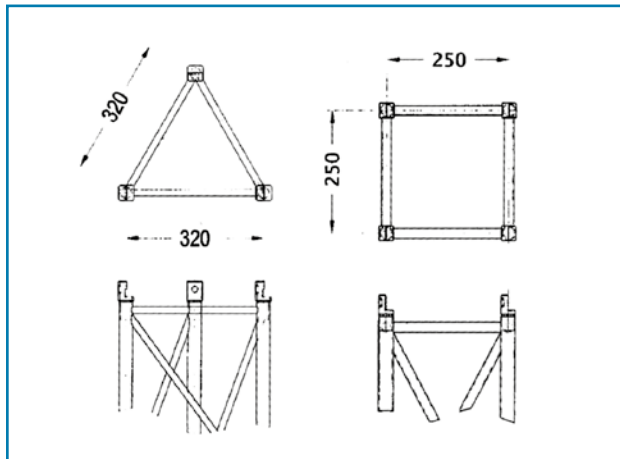


**Model
PW57**

FOR EXTERNAL PASSAGE STRUCTURE

ALUMINIUM POLE STRUCTURE FOR CONDUCTOR CROSSING PROTECTION MODEL PW58 - PW59

Aluminium alloy welded structure (TIG system) composable sections, used during the maintenance and construction overhead



transmissions lines to prevent the fall of laying conductor on roads, rail ways, rural low tension line and any other obstacle/surface to protect. Made in standard TRIANGULAR or QUAD structure in 2 or 4 meter section, complete of accessories in galvanized steel.

| Model | Lenght m | Section structure | Weight kg |
|----------|-------------|----------------------|--------------|
| PW58/AL2 | 2 | TRIANGULAR | 6,6 |
| PW58/AL4 | 4 | TRIANGULAR | 13,2 |
| PW59/AL2 | 2 | QUAD | 8,6 |
| PW59/AL4 | 4 | QUAD | 17,2 |



ACCESSORIES:

| Description | Model for triangular section | Model for quad section |
|--|---------------------------------|---------------------------|
| Twisting head with sheave 650x68 mm dia. aluminium frame | PW58/T3 | PW59/T4 |
| V Topdevice for wooden bar support in galvanized steel | PW58/PT | PW59/PT |
| Earth base with picket in galvanized steel | PW58/B | PW59/B |
| Intermediate anchoring attachment in galvanized steel | PW58/IA | PW59/IA |



Model PW58 - PW59

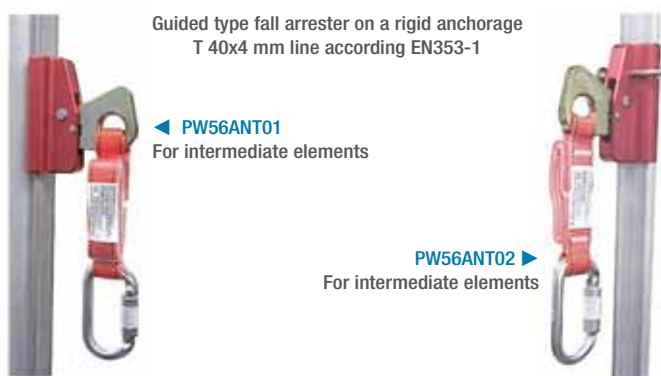
ALUMINIUM POLE STRUCTURE FOR CONDUCTOR CROSSING PROTECTION



LADDER FOR CLIMBING POLES MODEL PW56

Made of aluminium elements to reach the needed height.
The ladder is composed by n°1 base element section, n°1 top element and several intermediate elements. Length of top and intermediate elements: 2,50 m Every ladder is equipped with 2 fall arresters EN353.1

| Model | | 0753 | 1004 | 1255 | 1506 | 1757 | 2008 | 2510 |
|--------|----|------|------|------|------|------|------|------|
| Lenght | m | 7,5 | 10 | 12,5 | 15 | 17,5 | 20 | 25 |
| Weight | kg | 22 | 29 | 36 | 43 | 50 | 57 | 71 |



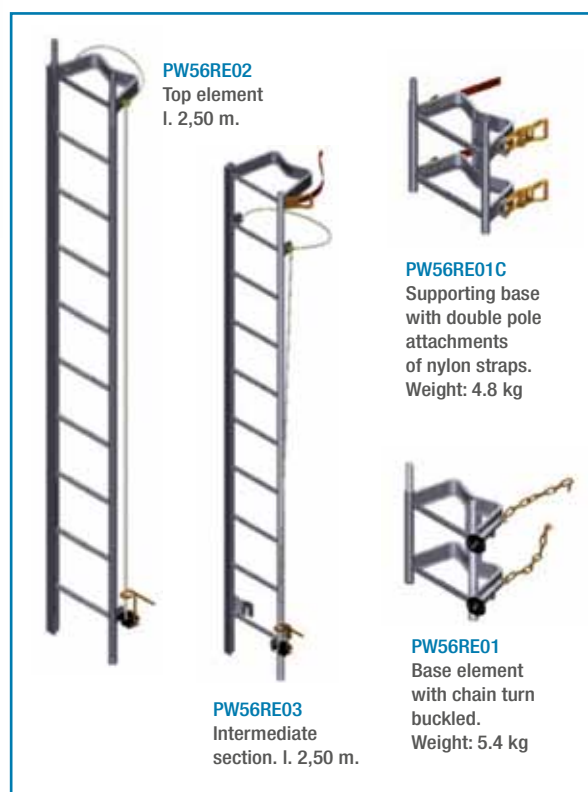
Top element clutch

Intermediat element clutch

Service foot-board clutch



◀ Fall arrester device EN353.1, made of aluminum with steel handle, equipped with mini-absorber.



Model PW56

LADDER FOR CLIMBING POLES

SPARE PARTS

For moving along the ladder, the operator should use a full body harness EN361-358 equipped with sternal connector - In case of moving on a self-supporting platform the operator must obligatorily use a transportable anchorage device EN795 cl. B.

PW56R0056

Spare ladder nylon rope - Length 5.60 m



PW562X336B

Nylon strap with buckle, suitable for tying the ladder elements together - Length 1.60 m



PW56KIT01

Spare kit for ladder composed of: Steel handle with rope nylon capstan and steel pin

ALUMINIUM WORK-PLATFORMS FOR TUBULAR OR POLYGONAL POLES



◀ PW562142P20

Working load: 200 daN
Made of aluminum with steel chain for pole anchorage - Weight: 13 kg



PW562142P ▶

Working load: 200 daN
Weight: 7,5 kg



◀ PW562142ASL

Self-supporting platform provided with chain for pole attachment, it can be used also positioned on ladder rung



Model PW56

LADDER FOR CLIMBING POLES



FULL BODY HARNESSES MODEL PW61

Full body harness, essential, functional, with two points of anchorage: **dorsal and front**.

- Accessories made of zinc plated steel and polyester straps of 45 mm
- Fixed shoulder straps. Size adjustable by means of leg buckles
- Connector for front attachment made of zinc plated steel
- High resistance sewing made of polyamide
- Nylon loop webbing keeper
- Suitable for all fall arresters EN363

| Model | Size | Weight |
|------------|------|--------|
| PW61.C02-1 | S/M | g 655 |
| PW61.C02-2 | L/XL | g 700 |



FULL BODY HARNESSES WITH WORK POSITIONING BELT MODEL PW62

Essential, functional model with four anchorage points: dorsal, front and 2 lateral attachments

- Accessories made of zinc plated steel and polyester straps of 45 mm
- Fixed shoulder. Size adjustable by means of leg buckles
- Connector for front attachment made of zinc plated steel
- Thermo-formed pad, height 130 mm.
- Complete of rings for tool bag attachment
- High resistance sewing made of polyamide
- Nylon loop webbing keeper
- Suitable for all fall arresters EN363

| Model | Size | Weight |
|------------|------|--------|
| PW62.C02-1 | S/M | g 1230 |
| PW62.C02-2 | L/XL | g 1280 |



SAFETY HELMET - MODEL PW135

Reinforced helmet made of polyethylene with adjustable shell. Made in compliance with EN 397 standards.



Model
PW61 - PW62 - PW135

FULL BODY HARNESSES

**FULL BODY HARNESSES WITH WORK
POSITIONING BELT**

SAFETY HELMET



WORK POSITIONING BELT MODEL PW63

- Positioning belt professional model
- Metal accessories made of aluminium alloy
- Buckle with self-centring fit and continuous adjustment in both parts
- Side D rings curved type
- Thermo-formed ergonomic comfort pad, height 170 mm.
- With small service rings suitable to attach the tool bag
- Nylon webbing loop keeper
- High resistance sewing made of polyamide
- Carrying strap of thermo-fixed polyester of 45 mm

| Model | Size | Weight | Circumference min/max |
|-----------|------|--------|-----------------------|
| PW63.PR-1 | S/M | g 490 | mm 870/1310 |
| PW63.PR-2 | L/XL | g 510 | mm 1000/1450 |



MODEL PW64

Essential and functional model - Buckle with double ring
Ergonomic thermo-formed comfort pad h. 130 mm

Buckle and D-rings made of galvanized steel

| Model | Size | Weight | Circumference min/max |
|----------|------|--------|-----------------------|
| PW64.C01 | S/M | g 400 | mm 780/1000 |
| PW64.C02 | L/XL | g 430 | mm 900/1200 |



WORK POSITIONING LANYARDS MODEL PW65

Rope made of three-strand polyamide fibre, dia. 16 mm., length 2 m., with aluminium alloy connector with double safety latches - Automatic length adjuster and protection sleeve for the rope. Weight: 970 g



MODEL PW65.1

With rope made of three-strand polyamide fibre, dia 14 mm, length 2 m. Manual length adjuster and steel oval connector with manual locking Weight: 560 g



Model
PW63 - PW64 - PW65 - 65.1



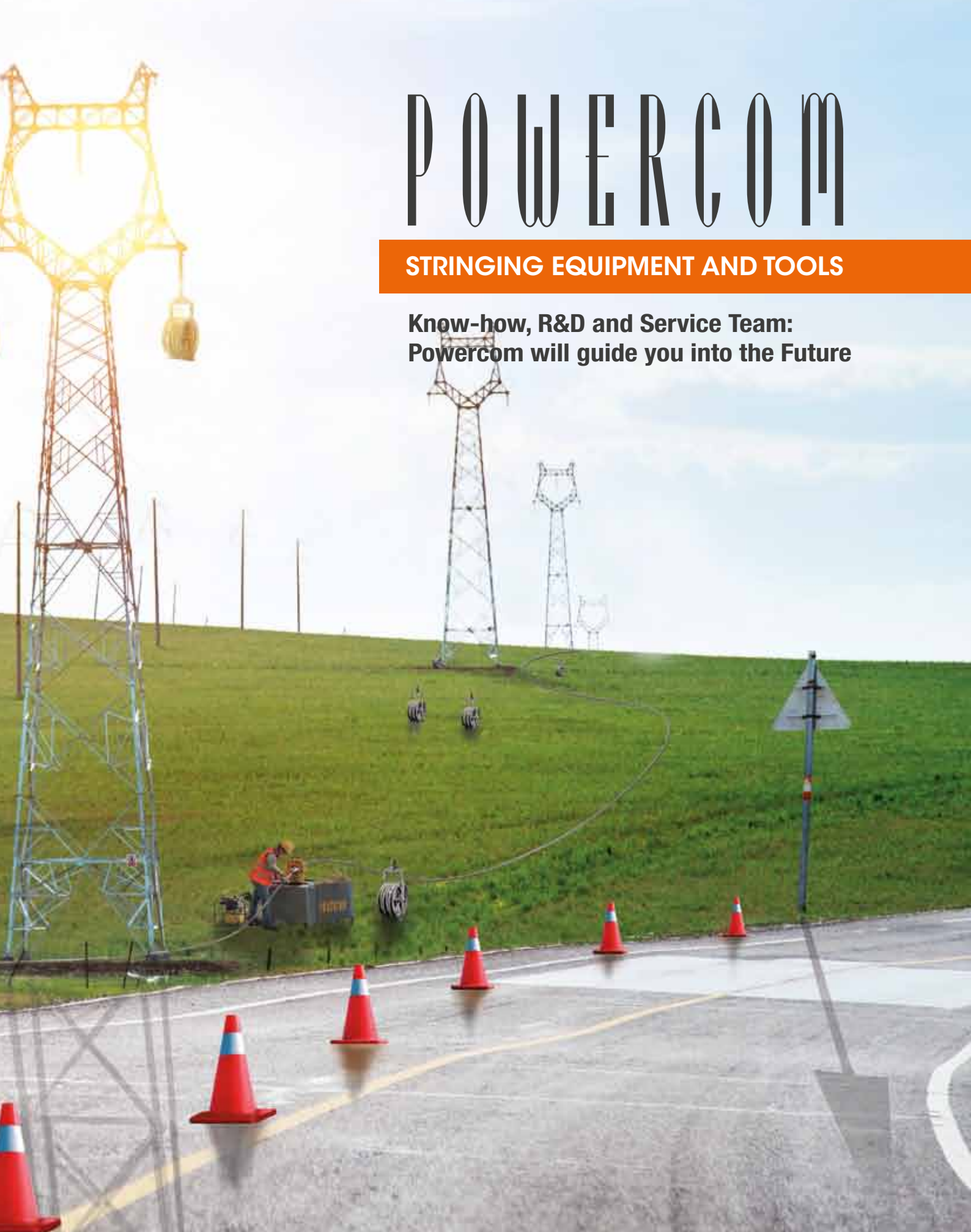


Performances and specifications of the equipments are subject to change without notice.

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