

- 
- Hydraulic Pullers, Tensioners, Puller/Tensioners & Winches
 - Fixed Joints, Swivels, Grip & Socks
 - Reel Winders, Drum Elevators & Stands
 - Reels, Anti-Twist Steel & Dyneema Ropes
 - OPGW Installation Equipment
 - Stringing Rollers & Blocks
 - Balancing Headboards
 - Conductor Chairs & Cars
 - Suspension Ladders & Working Platforms

TRANSMISSION STRINGING

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Tesmec Generation 4.0 machines with the Digital Human Interface



TESMEC

PT2451 - 100kN Digital Puller Tensioner

Digital Human Interface (HMI)

The digital HMI (Human Machine Interface) is a significant innovation on the 4.0 stringing machine. The control panel is drastically simplified.

The innovative graphic display shows all the information, including diesel engine parameters, machine performance, and diagnostic output.

This digital technology eliminates most of the instruments and devices installed on the previous control panel.

The remote operates up to a distance of 100m from the machine in line of site. It can also be connected by cable, both options give the operator full control of the machine in a position that offers a better overview of the worksite.

Note:

Pullers equipped with reel-winders feature automatic back-pull control for optimal performance and simple operation.



Diagnostic Features

- Maintenance interval scheduling, with countdown and alerts.
- Machine alerts display errors with detailed description.
- Alerts recording option for authorised service inspection.
- Automatic self-diagnosis at machine start.

Re.M. (Remote Monitoring System) - ALL270

Remote monitoring package for main performance and diagnostic parameters, including alarms and a GPS localization, available on request.

Full Function Remote Control



Efficiency

- Automatic diesel engine rpm setting maximises stringing speed and offers better oil cooling and fuel savings.
- Automatic oil cooling according to oil viscosity.
- Reduce operator errors and maximise uptime.
- Analog Circular chart displays operating parameters and machine limits.
- Automatic cutting pressure device, to avoid any possible overload on the machine.

Integrated Recorder

Integrated pull recorder stores the operational data. Downloadable using a simple USB flash drive. Printer also available as an option.

Digital Stringing Machines Main Features



Configuration

Full package in the standard version configuration.

The standard machine includes a complete package of devices:

- Integrated pull recorder.
- Radio remote control.
- Conductor clamp.
- Low range gearbox (50 kN range).

Range of available options include: preheating device for extra cold ambient temperatures, road transportation package, electronic connection of modular machines, remote diagnosis package and low range solution (100 kN range and higher).



Power Unit

Diesel engine: Stage 4, tier 4f and Stage 5

Each machine is also available with engine equivalent to the previous Stage emission level for markets where ultra high grade fuel is not available.

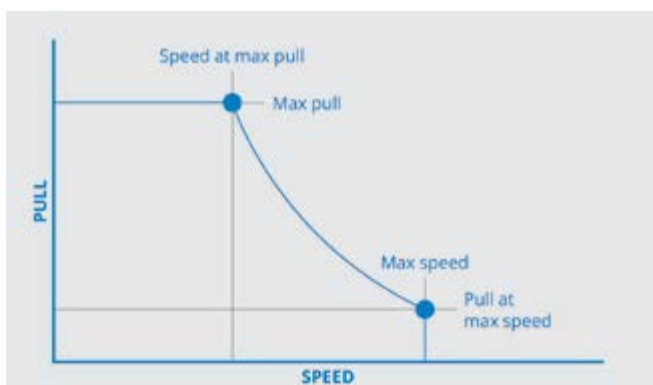
Integral cover of the whole power unit and modularity in single components.

Integral Cover

The integral cover of the whole power unit grants:

- Best protection of all the installed components.
- Reduction of noise emission.

Modular design and standardized components reduces spare parts and simplifies maintenance.



Performance

Operating pull vs speed

Unique hydraulic circuit for stepless speed variation. Automatic management of the diesel engine for highest possible operating speed depending on work conditions.



Mobility

Two travel configurations

The machine layout allows the installation of rigid or road axles configurations.

Road axle with EU type approved is available.

Re.M (REMOTE MONITORING SYSTEM)

All you need to use Tesmec Re.M is an Internet connection and a browser!

The interface will give you all the machine information (engine parameters, pressures and temperatures), included the geofencing (GPS coordinates).

The remote monitoring system, RE.M, acquires, analyzes and manages information from our pullers, tensioners and puller-tensioners.

This system allows a fleet management time saving of 25%.

All the information is forwarded to a cloud platform through a data connection and is available using an Internet connection and browser.

The remote access option is the easiest way to check machine data. In case of failure, service technicians can obtain the situation analy before they reach the job-site reducing problem resolution and next step timing.



Daily Control Of All Machines

Data collected by RE.M allow a reduction of data processing errors and a daily fleet control through:

- Statistics of machine use
- Monitoring of operating parameters such as temperature, pressure of hydraulic system and working hours
- Monitoring machine status
- Monitoring of productivity

Proactive Maintenance Management

- Automatic acquisition of engine hours.
- Reduction of time dedicated to finding equipment for maintenance.
- Monitoring of machine status in order to prevent failure and to reduce downtime.

Geofencing

With RE.M you can define virtual fences that allow monitoring of machines' position on job-sites and whenever a machine is leaving a geofenced area the system sends a text message and/or an email that can help tracking and recovering the machine; reducing theft related costs.

Reliable Technical Assistance

Thanks to electronic error notification, RE.M simplifies problem resolution process, reducing troubleshooting and allowing speed and focused technical assistance with the possibility of problem resolution by remote.

System Availability

RE.M is available on all the digital stringing machines. Following customer authorisation, the system will be activated and data access will be possible through a customer private account. During machine warranty period, Tesmec S.p.A. can access and use all the data transmitted by RE.M for problems resolution or for maintenance. On request, the system can be installed on existing machines.

TEN Hire (SRT) offers 24/7 back-up repair and trouble shooting service. Maintenance and Repairs can be carried out on-site or at the TEN Hire facility.

See TEN Hire & SRT information at the end of the Transmission Stringing section.



Digital Hydraulic Pullers - TESMEC

100kN Digital Puller Part No. PL1450



MAX
PULL

100kN



MAX
SPEED

4.5km/h



ROPE
DIAMETER

21 mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Automatic reel winder
- Integrated covers

100kN
MAX PULL

Performance	
Max pull (kN)	100
Speed at Max pull (km/hr)	2.0
Max speed (km/hr)	4.5
Pull at Max speed (kN)	45

Characteristics	
Bull-wheel diameter (mm)	525
Bull-wheel material	STEEL
Max rope diameter (mm)	21
Weight (without rope) (kg)	4600
Number of grooves	9
Suitable for	1 rope
Layout	Single

Engine	
Diesel (kW)	105 (140hp)
Cooling System	Water
Electrical System	24V

Configuration
Automatic reel winder. On board automatic reel winder with level wind, for reel mod. BOF010 and BOF020. Reel shaft AXR001.

Available Options	
ALL037	Preheating device up to -30°C
ALL089	Electronic connection and synchronization between machines
ALL111	Swivel guide rope roller
ALL261	External printer
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription
ALL280	Automatic grease pump
AXR001	Extra shaft

Ideal for Green Field Construction



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

TRANSMISSION STRINGING

CONTENTS

TESMEC

160kN Digital Puller

Part No. PL1700



MAX
PULL

160kN



MAX
SPEED

4.5km/h



ROPE
DIAMETER

28mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Automatic reel winder
- Integrated covers

160kN
MAX PULL



Performance	
Max pull (kN)	160
Speed at max pull (km/hr)	2.8
Max speed (km/hr)	4.5
Pull at max speed (kN)	105

Hydraulic Transmission	
Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.	

Characteristics	
Bull-wheel diameter (mm)	700
Bull-wheel material	STEEL
Max rope diameter (mm)	28
Weight (without rope) (kg)	7500
Number of grooves	10
Suitable for	1 rope
Layout	Single

Engine	
Diesel (kW)	210 (281 hp)
Cooling System	Water
Electrical System	24V

Configuration
Automatic reel winder. On board automatic reel winder with level wind, for reel mod. BOF020 and BOF030. Reel shaft AXR002.

Available Options	
ALL037	Preheating device up to -30°C
ALL089	Electronic connection and synchronization between machines
ALL111	Swivel guide rope roller
ALL261	External printer
ALL280	Automatic grease pump
AXR002	Extra shaft
ALL010	Hydraulic power pack to control a separate reel winder
ALL022	Hydraulic quick connectors to control a separate reel winder instead of the built-in one

Ideal for Green Field Construction



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

180kN Digital Puller

Part No. PL1750



MAX
PULL

180kN



MAX
SPEED

4.5km/h



ROPE
DIAMETER

28mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Automatic reel winder
- Integrated covers

180kN
MAX PULL



Performance	
Max pull (kN)	180
Speed at max pull (km/hr)	2.5
Max speed (km/hr)	4.5
Pull at max speed (kN)	105

Hydraulic Transmission	
Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.	

Characteristics	
Bull-wheel diameter (mm)	700
Bull-wheel material	STEEL
Max rope diameter (mm)	28
Weight (without rope) (kg)	7500
Number of grooves	10
Suitable for	1 rope
Layout	Single

Engine	
Diesel (kW)	210 (281 hp)
Cooling System	Water
Electrical System	24V

Configuration
Automatic reel winder. On board automatic reel winder with level wind, for reel mod. BOF020 and BOF030. Reel shaft AXR002.

Available Options	
ALL037	Preheating device up to -30°C
ALL089	Electronic connection and synchronization between machines
ALL111	Swivel guide rope roller
ALL261	External printer
ALL280	Automatic grease pump
AXR002	Extra shaft
ALL010	Hydraulic power pack to control a separate reel winder
ALL022	Hydraulic quick connectors to control a separate reel winder instead of the built-in one

Ideal for Green Field Construction



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

Digital Hydraulic Tensioners - TESMEC

80kN Digital Tensioner

Part No. TN2350



MAX
TENSION

2 x 40kN



MAX
SPEED

5km/h



CONDUCTOR
DIAMETER

42mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Automatic reel winder
- Integrated covers

80kN
MAX PULL



Performance	
Max tension (kN)	2 x 40/ 1 x 80
Speed at max tension (km/hr)	3
Max speed (km/hr)	5
Max pull back (kN)	2 x 40/ 1 x 80
Hydraulic Transmission	

Hydraulic Transmission	
Half closed hydraulic circuit with tension presetting system.	

Characteristics	
Bull-wheel diameter (mm)	1500
Bull-wheel material	NYLON
Max conductor diameter (mm)	42
Max rope diameter (mm)	21
Weight (without rope) (kg)	7000
Number of grooves	12
Suitable for	2 conductors
Layout	Twin

Engine	
Diesel (kW)	55.4 (140hp)
Cooling System	Water
Electrical System	12V

Configuration
<p>Tesmec digital HMI. Lockable sound proof integrated covers. Rope clamp for reel change. Negative self-acting hydraulic brake. Rigid axle 30 km/h. Earthing connection point. Hydraulic front stabilizers. Power pack to control 2 reel stands or 2 reel-winders.</p> <p>Gearbox with 3 operating positions on 1 circuit:</p> <ul style="list-style-type: none"> • Neutral position (with free bull-wheels for conductor loading and unloading). • Low tension position (1 to 7 kN). • Nominal tension position.

Available Options	
ALL005	Hydraulic power for compressor
ALL037	Preheating device up to -30°C.
ALL089	Electronic connection and synchronization between machines.
ALL261	External printer
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump

Ideal for Green Field Construction



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

140kN Digital Tensioner

Part No. TN2600



MAX
TENSION

2 x 70kN



MAX
SPEED

5km/h



CONDUCTOR
DIAMETER

51 mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Rope clamp
- Integrated covers

140kN
MAX PULL

Performance	
Max tension (kN)	2 x 70/ 1 x 140
Speed at Max tension (km/hr)	3
Max speed (km/hr)	5
Pull at Max speed (kN)	2 x 70/ 1 x 140
Hydraulic Transmission	
Half closed hydraulic circuit with tension presetting system.	

Characteristics	
Bull-wheel diameter (mm)	1800
Bull-wheel material	NYLON
Max conductor diameter (mm)	51
Max rope diameter (mm)	25
Weight (without rope) (kg)	10000
Number of grooves	12
Suitable for	2 conductor
Layout	Twin

Engine	
Diesel (kW)	55.4 (140hp)
Cooling System	Water
Electrical System	12V

Configuration
Tesmec digital HMI. Lockable sound proof integrated covers. Rope clamp for reel change. Negative self-acting hydraulic brake. Rigid axle 30 km/h. Earthing connection point. Hydraulic front stabilizers. Power pack to control 2 reel stands or 2 reel-winders.

Available Options	
ALL005	Hydraulic power for compressor
ALL037	Preheating device up to -30°C
ALL087	Low tension device
ALL089	Electronic connection and synchronization between machines.
ALL261	External printer
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription
ALL280	Automatic grease pump.

Ideal for Green Field Construction



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

Digital Hydraulic Puller Tensioners - TESMEC

50kN Digital Puller Tensioner

Part No. PT1250



MAX
TENSION

50kN



MAX
SPEED

5km/h



CONDUCTOR
DIAMETER

42mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Available for road use
- Integrated covers

**50kN
MAX PULL**



Performance	
Max pull (kN)	50
Speed at Max pull (km/hr)	1.5
Max speed (km/hr)	5
Pull at Max speed (kN)	12

Hydraulic Transmission	
Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.	

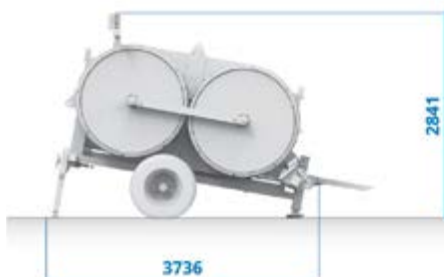
Characteristics	
Bull-wheel diameter (mm)	1500
Bull-wheel material	NYLON
Max conductor diameter (mm)	42
Max rope diameter (mm)	16
Weight (without rope) (kg)	3450
Number of grooves	6
Suitable for	1 rope/ conductor
Layout	Single

Engine	
Diesel (kW)	55.4 (74hp)
Cooling System	Water
Electrical System	12V

Configuration	
<p>Tesmec digital HMI. Lockable sound proof integrated covers. Rope clamp for reel change. Negative self-acting hydraulic brake. Rigid axle 30 km/h. Earthing connection point. Hydraulic front stabilizers.</p> <p>Power pack to control 1 reel stand or 1 reel-winder.</p> <p>Gearbox with 3 operating positions on 1 circuit:</p> <ul style="list-style-type: none"> • Neutral position (with free bull-wheels for conductor loading and unloading). • Low tension position: <ul style="list-style-type: none"> - 2 to 12kN as tensioner - 0 to 7kN as puller • Nominal tension position. 	

Available Options	
ALL005	Hydraulic power for compressor
ALL037	Preheating device up to -30°C.
ALL080	Special kit for 2 conductors up to Ø 31mm.
ALL089	Electronic connection and synchronization between machines.
ALL261	External printer
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump

**Perfect for Construction and
Reconductoring**



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

100kN Digital Puller Tensioner

Part No. PT2451



MAX
TENSION

2 x 50kN



MAX
SPEED

5km/h



CONDUCTOR
DIAMETER

42mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control.
Data Recorder
- Rope clamp
- Integrated covers

100kN
MAX PULL

Performance	
Max pull (kN)	2 x 50/ 1 x 100
Speed at Max pull (km/hr)	2
Max speed (km/hr)	5
Pull at Max speed (kN)	2 x 20

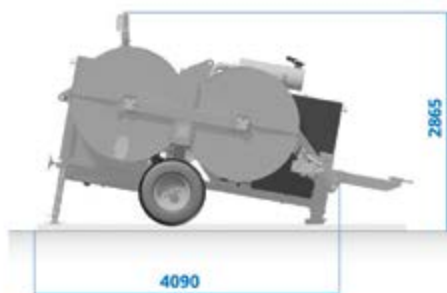
Hydraulic Transmission	
Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.	

Characteristics	
Bull-wheel diameter (mm)	1500
Bull-wheel material	NYLON
Max conductor diameter (mm)	42
Max rope diameter (mm)	21
Weight (without rope) (kg)	7300
Number of grooves	12
Suitable for	2 conductors
Layout	Twin

Engine	
Diesel (kW)	105 (140hp)
Cooling System	Water
Electrical System	24V

Configuration	
<p>Tesmec digital HMI. Automatic reel winder. Lockable sound proof integrated covers. Rope clamp for reel change. Negative self-acting hydraulic brake. Rigid axle 30 km/h. Earthing connection point. Hydraulic front stabilizers. Power pack to control 2 reel stands or 2 reel-winders.</p> <p>Gearbox with 3 operating positions on 1 circuit:</p> <ul style="list-style-type: none"> • Neutral position (with free bull-wheels for conductor loading and unloading). • Low tension position: <ul style="list-style-type: none"> - 4 to 17kN as tensioner - 0 to 17kN as puller • Nominal tension position. 	

Available Options	
ALL005	Hydraulic power for compressor
ALL037	Preheating device up to -30°C
ALL089	Electronic connection and synchronization between machines
ALL216	External printer
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription
ALL280	Automatic grease pump.



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

140kN/160kN Digital Puller Tensioners



Part No. PT2600

140kN
MAX PULL/TEN



MAX
TENSION

2 x 70kN



MAX
SPEED

5km/h



CONDUCTOR
DIAMETER

51 mm

Part No. PT2601

160kN
MAX PULL/TEN



MAX
TENSION

2 x 80kN



MAX
SPEED

5km/h



CONDUCTOR
DIAMETER

51 mm

- Tesmec Digital HMI
178mm (7") Colour Display.
Radio Remote Control
Data Recorder
- Available for road use
- Integrated covers

Performance		
Max pull/tension (kN)	PT2600	2 x 70/ 1 x 140
	PT2601	2 x 80/ 1 x 160
Speed at Max pull/ tension (km/hr)	PT2600	2
	PT2601	1.5
Max speed (km/hr)	PT2600	5
	PT2601	5
Pull at Max speed (kN)	PT2600	2 x 25
	PT2601	2 x 45

Hydraulic Transmission	
Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.	

Engine	
Diesel (kW)	129 (173hp)
Cooling System	Water
Electrical System	24V

Characteristics		
Bull-wheel diameter (mm)	1800	
Bull-wheel material	NYLON	
Max conductor diameter (mm)	51	
Max rope diameter (mm)	PT2600	25
	PT2601	28
Weight (without rope) (kg)	PT2600	11000
	PT2601	11750
Number of grooves	12	
Suitable for	2 ropes/ conductors	
Layout	Twin	

Available Options	
ALL005	Hydraulic power for compressor
ALL037	Preheating device up to -30°C.
ALL087	Low tension device
ALL089	Electronic connection and synchronization between machines.
ALL261	External printer
ALL270	Remote Diagnostic system with GPS localization including 3-year subscription.
ALL280	Automatic grease pump

Configuration	
Tesmec digital HMI.	
Automatic reel winder.	
Lockable sound proof integrated covers.	
Rope clamp for reel change.	
Negative self-acting hydraulic brake.	
Rigid axle 30 km/h.	
Earthing connection point.	
Hydraulic front stabilizers.	
Power pack to control 2 reel stands or 2 reel winders.	



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

Digital Tensioner - Helicopter stringing - TESMEC

30kN Hydraulic Tensioner

Part No. TN1216/CVR827



TN1216



CVR827



**PATENTS
APPROVED**



**MAX
TENSION**
30kN



**MAX
SPEED**
25km/h



**CONDUCTOR
DIAMETER**
51mm

Three Stages Of Safety

Machine has inbuilt safety features, a must when helicopter stringing. The machine can deal with the three safety scenarios

1. Hydraulic Failure
2. Engine Failure
3. Electronics Failure



The only Tesmec machine designed for **HELICOPTER** stringing, with a Stringing speed up to 25km per hour

- Tesmec Digital HMI
- 178mm (7") Colour Display.
- Radio Remote Control
- Data Recorder
- Detachable in two parts
- Designed to work joined with CVR827
- Integrated covers

Engine	
Diesel (kW)	48kw (65hp)
Emission level	tier4i/ Stage IIIA
Cooling System	Water
Electrical System	24V

Configuration
Negative self-acting hydraulic brake.
Control instruments for hydraulic system and Diesel engine.
Rigid axle 30 km/h.
Hydraulic power pack to control a reel stand with hydraulic motor.
Earthing connection point.
Radio control.



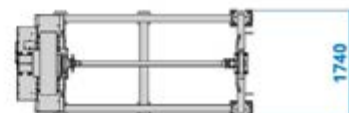
7" COLOUR DISPLAY



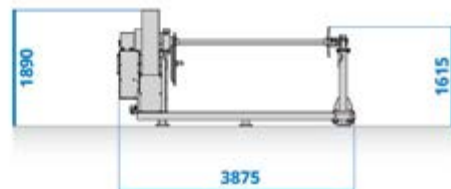
RADIO REMOTE CONTROL

CVR827 Performance	
Max Tension @ 2500mm External Reel Dia. (kN)	1.3
Max Tensioning Speed (km/h)	25
Max Recovering Speed (km/h)	1.5
Max Tension in emergency mode @ 1500mm average reel Dia. (kN)	5
Reel Dimension and Weight	
External diameter (mm)	From 600 - 2500
Width (mm)	From 570 - 2400
Total Weight (kg)	7500

Available Options	
ALL037	Preheating device for use up to -30°C.
ALL071	Hydraulic rope clamp for reel change operations



CVR827



Characteristics	
Bull-wheel diameter (mm)	1800
Bull-wheel material	NYLON
Max conductor diameter (mm)	51
Weight of power unit (kg)	800
Weight of working unit (kg)	3200
Total with fluid (kg)	4600
Number of grooves	6
Suitable for	1 ropes
Layout	Single



Continuous Line Pullers - TESMEC

50kN Continuous Line Puller

Part No. CLP500

The new Continuous Line Puller (CLP500), gives an effective solution for handling and recycling old conductors during reconductoring with minimal interruption to the project. The CLP eliminates the need for placing old conductor on reels by effectively cutting the used conductor into small manageable pieces that are easy to transport and ready to recycle.



MAX PULL
50kN



MAX SPEED
3km/h



ROPE DIAMETER
16mm

Cutting Capacity



M.S. JOINT DIAMETER
60mm



CONDUCTOR DIAMETER
40mm

- Tesmec Digital HMI
178mm (7") Colour Display
Radio Remote Control
Data Recorder
- Integrated covers

Performance	
Max pull (kN)	50
Speed at Max pull (km/hr)	1.5
Max speed (km/hr)	3
Pull at Max speed (kN)	30

Characteristics	
Conductor diameter (mm)	40
Max midspan joint diameter (mm)	60
Max rope diameter (mm)	16
Weight (without rope) (kg)	13000
Storage capacity (m)	350
Suitable for	ACSR conductor
Layout	Single

Engine	
Diesel (kW)	160 (215hp)
Cooling System	Water
Electrical System	24V

Cutting Module	
Max speed (km/hr)	3
Pull at Max speed (kN)	17kN
Suitable for	ACSR conductor
Max conductor diameter (mm)	40
Max midspan joint diameter (mm)	60
The module can be integrated with the magnetic sorting of aluminium and steel (ALL700/ALL750)	

Configuration	
Motorised Conveyors	
<ul style="list-style-type: none"> • Hydraulic driven conveyor • Hydraulic conveyor deployment 	

Auxiliary Winch	
Max pulling force (kN)	50
Speed at max pull (km/hr)	2.5
Max rope diameter	16
Storage capacity (m)	350

Available Options	
ALL261	External printer
21035851	Trailer with stabiliser legs
ALL700	Motorised magnetic separation pulley embedded in the cutting module evacuation belt
ALL750	Additional motorised magnetic sorting belt



2658



2625



6473



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

50kN Continuous Line Puller

Part No. CLP501

The new Continuous Line Puller (CLP501), gives an effective solution for handling and recycling old conductors during reconductoring with minimal interruption to the project



**MAX
PULL**
50kN



**MAX
SPEED**
3km/h



**ROPE
DIAMETER**
16mm

- Tesmec Digital HMI
178mm (7") Colour Display
Radio Remote Control
Data Recorder
- Integrated covers

Auxiliary Winch

Max pulling force (kN)	50
Speed at max pull (km/hr)	2.5
Max rope diameter	16
Storage capacity (m)	350

Performance

Max pull (kN)	50
Speed at Max pull (km/hr)	2.5
Max speed (km/hr)	3
Pull at Max speed (kN)	30

Hydraulic Transmission

Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.

Characteristics

Conductor diameter (mm)	25-40
Max midspan joint diameter (mm)	60
Max rope diameter (mm)	16
Weight (without rope) (kg)	7000
Storage capacity (m)	350
Suitable for	1 conductor
Layout	Single

Engine

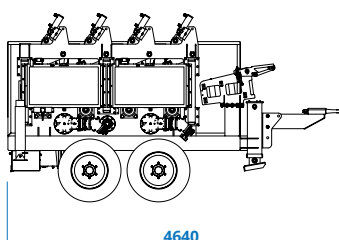
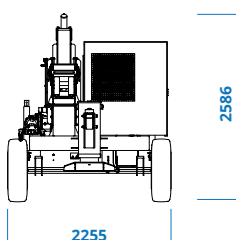
Diesel (kW)	81 (110hp)
Cooling System	Water
Electrical System	12V

Configuration

Tesmec digital HMI.
Integrated pull and speed recorder.
Full electronic management.
Manual and automatic use.
Rigid axle 30 km/h.
Hydraulic front stabilizers.
Power pack to control 1 reel stand with hydraulic head or 1 reel winder.
Lockable sound proof integrated covers.

Available Options

ALL037	Preheating device up to -30°C.
ALL073	Self anchoring system
ALL118	Hook loader system
ALL080	Special sector for GW/OPGW from 10mm to 25mm
ALL089	Electronic connection and synchronization between machines.
ALL261	External printer
ALL270	Remote Diagnostic system with GPS localization
ALL280	Automatic grease pump
ALL225	Auxiliary winch



7" COLOUR DISPLAY



RADIO REMOTE CONTROL

Equipment Winches - TESMEC

30kN Drum Winches

Part No. AMC402



MAX
PULL

30kN



MAX
SPEED

5km/h



ROPE
DIAMETER

14mm



**Ideal for lifting
equipment and
Transmission hardware**

Drum Specifications		
Part No.	AMC402	AMC501
External OD (mm)	530	700
Internal OD (mm)	355	457
Width (mm)	700	700
Rope OD (mm)	14	18
Rope Capacity (m)	400	400
Weight (kg)	1000	1600

Engine (AMC402)	
Diesel (kW)	25 (34hp)
Cooling System	Water
Electrical System	12V

50kN Drum Winches

Part No. AMC501



MAX
PULL

50kN



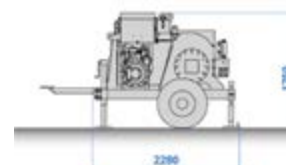
MAX
SPEED

6km/h



ROPE
DIAMETER

18mm



Performance*		
Part No.	AMC402	AMC501
Max pull (kN)	30	50
Speed at max pull (km/hr)	1.5	1.3
Max speed (km/hr)	5	6
Pull at max speed (kN)	8.5	10.5

Configuration	
<ul style="list-style-type: none"> • Drum with automatic level wind. • Negative self-acting hydraulic brake. • Hydraulic dynamometer with set-point and automatic control of maximum pull. 	

Available Options AMC402/501	
ALL102	Pulling rope locking device when capstan is used (compulsory for Australian market)
ALL107	Capstan for lifting operations

Engine (AMC501)	
Diesel (kW)	34 (46hp)
Cooling System	Water
Electrical System	12V

Hydraulic Pullers - TESMEC

15kN Hydraulic Puller

Part No. ARS200

The ARS200 Hydraulic Puller is suitable to string one rope. The bull wheel grooves are made of heat treated steel.



MAX
PULL

15kN



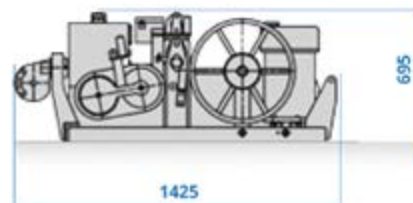
MAX
SPEED

0.7km/h



ROPE
DIAMETER

8mm



Performance	
Max pull (kN)	15
Speed at max pull (km/hr)	0.7
Max speed (km/hr)	3.6
Pull at max speed (kN)	4
Hydraulic Transmission	
Closed hydraulic circuit for stepless speed variation in both rotating directions	

Configuration
<ul style="list-style-type: none"> Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull On board reel winder with automatic level wind and special reel BOF370 for 500m of 8mm rope

Characteristics	
Bull Wheel dia (mm)	200
Max rope dia (mm)	8.0
Weight (without rope) (kg)	500
Engine	
Petrol (kW)	13 (18hp)
Cooling System	Air
Electrical System (V)	12

30kN Hydraulic Puller

Part No. PL1150

The PL1150 Hydraulic Puller is suitable to string one rope. The bull wheel grooves are made of wear proof thermally treated steel.



MAX
PULL

35kN



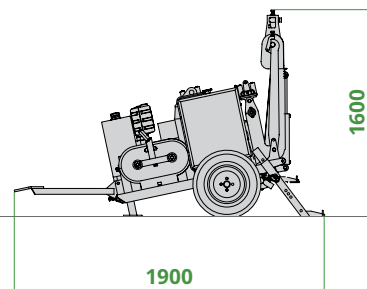
MAX
SPEED

3.6km/h



ROPE
DIAMETER

13mm



Performance	
Max pull (kN)	30
Speed at max. pull (km/hr)	1
Max speed (km/hr)	3.2
Pull at max. speed (kN)	10
Hydraulic Transmission	
Closed hydraulic with pull pre-setting system that automatically adjust pulling speed.	

Configuration
<ul style="list-style-type: none"> New Digital HMI 127mm (5") display Negative self-acting hydraulic brake On board automatic reel winder Pull recorder & Digital meter counter

Characteristics	
Bull Wheel dia. (mm)	350
Max. rope dia. (mm)	13
Mass (without rope) (kg)	980
Engine	
Diesel (kW)	19 (26hp)
Cooling System	Water
Electrical System (V)	12

TRANSMISSION STRINGING

CONTENTS

TESMEC



35kN Hydraulic Puller

Part No. ARS403

The ARS403 Hydraulic Puller is suitable to string one rope. The bull wheel grooves are made of wear proof thermally treated steel.

Characteristics	
Bull Wheel dia (mm)	325
Max rope dia (mm)	13
Weight (without rope) (kg)	980
Engine	
Diesel (kW)	25 (34hp)
Cooling System	Water
Electrical System (V)	12

Configuration
<ul style="list-style-type: none"> Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull On board reel winder with automatic level wind suitable for standard reel BOF010 and BOF020 (AXR001 included)



MAX
PULL
35kN



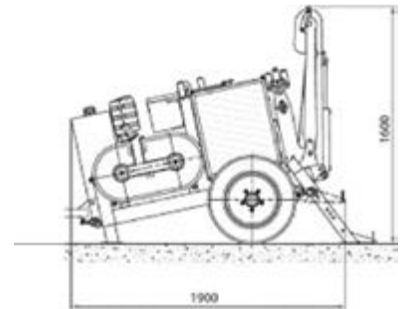
MAX
SPEED
3.6km/h



ROPE
DIAMETER
13mm



Trailer mounting and Mine spec. options available. Contact TEN for further information



Ideal for Overhead & Underground Projects

240 kN Hydraulic Puller

Part No. ARS802

The ARS802 Hydraulic Puller is suitable to string one rope. The bull wheel grooves are made of wear proof thermally treated steel. The machine is completely electronically controlled

Configuration
<ul style="list-style-type: none"> Negative self-acting hydraulic brake Hydraulic dynamometer with set-point and automatic control of maximum pull On board reel winder with automatic level wind suitable for standard reel BOF020 and BOF030 (AXR002 included)



MAX
PULL
240kN



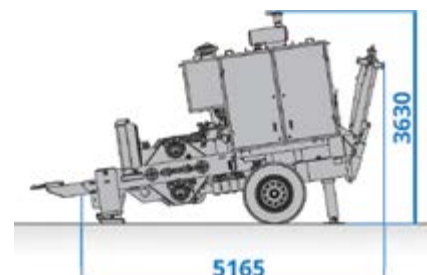
MAX
SPEED
4.5km/h



ROPE
DIAMETER
32mm

Characteristics	
Bull-wheel diameter (mm)	800
Max rope dia (mm)	32
Weight (kg)	10000
Suitable for	1 rope
Layout	Single
Diesel	280kW

Engine	
Diesel (kW)	280 (375hp)
Cooling System	Water
Electrical System (V)	24



Performance	
Max pull (kN)	240
Speed at max pull (km/hr)	2.5
Max speed (km/hr)	4.5
Pull at max speed (kN)	130
Hydraulic Transmission	
Closed hydraulic circuit for stepless speed variation in both rotating directions	

Reel Winders, Drum Elevators and Stands - TESMEC

Reel Winders

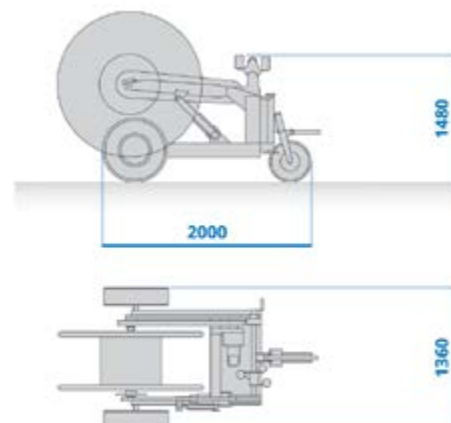
Part No. RVA001

- Operates on any Tesmec machine with hydraulic outlets
- Compact design and easy to handle
- Automatic level wind.
- Negative self-acting hydraulic brake
- Hydraulic jacks powered by the same hydraulic source.
- Rigid semiaxles for manual towing

Suits standard reels mod.

BOF010, BOF020, BOC040 and BOC050.

Extra shaft AXR001 is included.



Performance	
Capacity (kN)	20
Torque (kNm)	1
Rotating speed (rpm)	50
Weight (kg)	525

Kit of Connecting Hoses	
TUT001	Length 7m
TUT002	Length 10m
TUT003	Length 15m

Cradle Reel Elevators

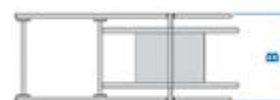
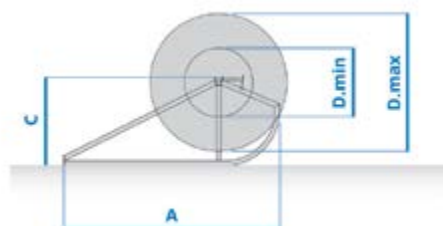
Part No. CVC002

- Detachable frame
- Light design



Available Options	
CDF007	Disk brake device for model CVC002 (Max torque 1.3kN-m).

Part No.	Dimensions (mm)			Reel Part No.	Capacity (kN)	Wt (kg)
	A	B	C			
CVC002	2200	900	910	BOF010	20	58
				BOF020		



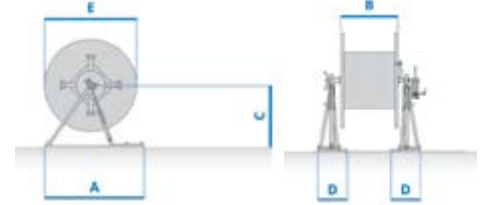
Hydraulic Drum Elevators - Heavy Duty

CVI Series

- Operates on any Tesmec machine with hydraulic outlets
- Compact design and easy to handle



Drum Elevator (CVI609) shown with axle for steel drum (CDT063)



Part No.	Dimensions (mm)								Capacity (kN)	Wt (kg)
	A	B min	B max	C min	C max	D	E min	E max		
CVI609	2140	800	1500	580	1340	640	1200	2500	80	285
CVI600	2140	800	1500	580	1340	640	1200	2500	80	305
CVI810	2500	800	1850	720	1725	740	1500	3200	100	550

Configuration for CVI609	Configuration for CVI600	Configuration for CVI810
*No Brake	One manual disk brake CDF012 (max torque 1.0kN-m)	One manual disk brake CDF059 (max torque 2.3kN-m)

Typical Available Options for CVI609		Typical Available Options for CVI600		Typical Available Options for CVI810	
CDT063	Supports with self-locking fixing wedges for wooden conductor drums. Max reel hole diameter = 125 mm.	CDT063	Supports with self-locking fixing wedges for wooden conductor drums. Max reel hole diameter = 125 mm.	CDT***	Supports with self-locking fixing wedges for wooden conductor drums.
TIH001	Fast assembling hydraulic motor for control of the drum winding and unwinding.	TIH001	Fast assembling hydraulic motor for control of the drum winding and unwinding.	TIH007	Fast assembling hydraulic motor for control of the drum winding and unwinding.
TUT002	Kit of connecting hoses. Length 10m, weight 15 Kg.	TUT002	Kit of connecting hoses. Length 10m, weight 15 Kg.	TUT002	Kit of connecting hoses. Length 10m, weight 15 Kg.

Drum Stand

Part No. CVR624

- Ready to use
- Suitable for different reel dimensions
- One manual disk brake CDF012 (Max torque 1kN-m)
- Refer page J23 for hydraulic Hoses (TUT002)



Typical Available Options for CVR624

CDR124	Support with fixed wedges for wooden conductor drums.
CDT123	Special driver with fixed wedges for steel reels conductor.
CDA125	Adapter for steel rope standard reels.
TIH001	Easily assembled hydraulic motor for drum winding

Part No.	Dimensions (mm)						Capacity (kN)	Wt (kg)
	A	B max	B min	C	D	E		
CVR624	2750	1700	1400	1580	2170	2840	70	365

Heavy Duty Drum Stand

Part No. CVR824

Integrated hydraulic motor. Hydraulic transmission powered by existing machines. Universal drive shaft. Incorporated disk brake for emergency breaking in case of absence of hydraulic power. (Max Torque 2.3kN-m) Simple drive transmission engagement by means of slide shaft. Rollers supported shaft.

Part No.	Dimensions (mm)						Capacity (kN)	Wt (kg)
	A	B max	B min	C	D	E		
CVR824	2000	1650	-	1618	3057	3000	120	930

Standard Reel Adaptor

Part No. CDA078/079

- Adaptor for steel rope standard reel (BOF330, BOC 310, BOC320)

Other sizes & lengths available
- Contact TEN for further
information

Part No. CDA060

- Adaptor for steel rope standard reel (BOF010-BOF020-BOF030-BOC040-BOC050) (only for CVI810)

Part No. CDA004

- Adaptor for steel rope standard reel (BOF010-BOF020-BOF030-BOC040-BOC050) (only for CVI600)

Drum Supports

Part No. CDT063

- Reel hole diameter 82 to 125mm (only for CVI600)
- Special driver with fixed wedges for steel conductor reels

Part No.	Reel Width (mm)		Guide arm Hole Dia (mm)	Spindle Dia (mm)
CDT063	1500 min	1650 max	33	80

(Reel drawing is required)

Hydraulic Hose Set

Part No. TUT Series

Part No.	Length (m)	Wt (kg)
TUT001	7	11
TUT002	10	15
TUT003	15	23

Hydraulic Motor - Reel Winder

Part No. TIH Series

Fast assembling hydraulic motor for control of the drum winding and unwinding.

Part No.	Max Torque (kNm)	Max Rotation (rpm)	Wt (kg)
TIH001	1.8	45	76
TIH002	1.8	45	78
TIH006	2.3	32	78
TIH007	2.3	37	78
TIH010	5	30	120
TIH013	2.4	35	500

Auto Rope Leveler

Part No. CDD005

Special automatic level wind for steel conductor reels on demand.

- Automatic level wind for standard steel rope reels (BOF010-BOF020-BOC040-BOC050) (only for CVI600)

Hydraulic Pressure Relief Kit

Part No. TUK054

Kit to remove residual hydraulic pressure on hoses.



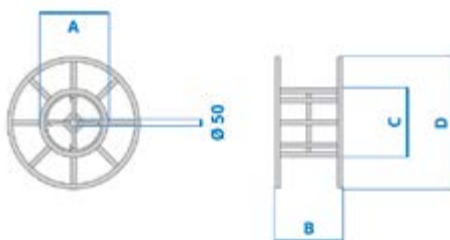
Reels - TESMEC

Standard Fixed Reels

BOF Series



BOF



- World wide standard design
- Welded steel with protective coating

Cross Support

BOS360



BOS360

- Two cross arms included
- Weight with bolts: 2.6 Kg

AVAILABLE
FOR HIRE

BOF010 &
BOF020 ONLY

TEN

Part No.	Dimensions (mm)				Wt (kg)
	A	B	C	D	
BOF010	420	560	570	1100	53
BOF020	420	560	570	1400	73
BOF030	420	560	570	1900	135
BOF330	420	1560	1010	2200	1200

ROPE (mm)	Reel Max Capacity for anti-twisting braided rope (m)			
	Part No.			
	BOF010	BOF020	BOF030	BOF330
6	6300	10000	22200	76000
8	3900	7100	13700	47000
9	3200	5900	11500	39200
11	2300	4300	8400	28800
13	1600	2850	5600	19400
15	1150	2000	4100	14550
16	1030	1900	3700	12400
18	800	1400	2800	9750
19	780	1400	2800	9300
21	-	1050	2150	7100
22	-	950	1900	6400
23	-	860	1750	6000
25	-	750	1550	5100
26	-	700	1400	4700
28	-	600	1150	4000
31	-	430	850	3100

Detachable Reels

Part No. BOC Series

- World wide standard design
- Welded steel with protective coating



BOC



BOC040, BOC050
& BOC310 ONLY



Cross Support
BOS360

Part No.	Dimensions (mm)				Wt (kg)
	A	B	C	D	
BOC040	420	560	590	1100	75
BOC050	420	560	590	1400	86
BOC310	420	890	626	1900	210
BOF320	420	1310	605	2050	250

ROPE (mm)	Reel Max Capacity for anti-twisting Steel braided rope (m)			
	Part No.			
	BOC040	BOC050	BOC310	BOC320
6	5600	10900	36000	63000
8	3500	6700	22200	38500
9	2850	5580	18200	32600
11	2150	4100	13300	23800
13	1400	2750	9000	16100
15	1100	2050	6800	11700
16	950	1750	6000	10600
18	700	1350	4500	7800
19	700	1300	4300	7800
21	-	1000	3400	6000
22	-	850	3000	5200
23	-	800	2800	4800
25	-	750	2400	4200
26	-	650	2100	3900
28	-	550	1900	3300
31	-	420	1450	2500

Ropes

Anti Twisting Steel Braided Rope Standard - TESMEC

Part No. FUA Series



- High flexibility
- Complete stability to rotation
- Strands with individual galvanized elementary wires

Part No.	Working Load (kN) *	Nominal Dia (mm)	Indicative Lubricated Linear Wt (kg/m)	Minimum Breaking Load (kN) *	Standard length (m) **
FUA006	7.6	6	0.114	22.9	1800-3600
FUA008	14.2	8	0.22	42.6	1600
FUA611	25	11	0.359	75	1100
FUA613	35	13	0.502	105	800-1600
FUA615	50	15	0.712	150	900-1800
FUA618	75	18	1.072	225	1200
FUA621	100	21	1.429	300	900
FUA623	120	23	1.718	360	800
FUA625	140	25	2.004	420	700
FUA628	180	28	2.572	540	600

* This value is related to rope with spliced eyes and for stringing operation

** The rope is also available in different lengths and in continuous sections up to 7000m

Double Braided Hauling Rope - Hampidjan

Part No. Various



- Manufactured in Australia with a braided polyester cover over a braided Polyester core
- Ideal for use as winch and tow lines and for pulling cable

Characteristics

- High strength
- High UV resistance
- Splicable
- Flexible

Applications

- Winch lines
- Tow lines
- Rigging lines
- Pulling and stringing line

Part No.	OD (mm)	Wt per 100m (kg)	Max Break Force (T)
DBPR-12	12	11.10	3.49
DBPR-14	14	13.90	4.36
DBPR-16	16	18.25	5.75
DBPR-18	18	22.20	6.98
DBPR-20	20	27.30	8.59
DBPR-22	22	33.30	10.48
DBPR-24	24	41.60	13.10
DBPR-26	26	46.30	14.56

Specify the length requested in metres

Robus Dyneema Rope - Hampidjan

Part No. Various



ROBUS rope is an ultra-high strength, low cost solution that meets the need for light but strong ropes in cost driven environment. Prima rope is stronger than steel in the same diameter. ROBUS ropes are made from HMPE fibre produced by DSM Dyneema.

Characteristics

- Extremely high strength
- Lightweight
- Abrasion resistant
- Low stretch
- Neutral buoyancy
- Splicable
- Flexible

Applications

- Alternate to wire rope
- Winch lines
- Tow lines
- Rigging lines
- Utility line

Part No.	OD (mm)	Wt per metre (g)	Max Break Force (T)
29081035	6	23.29	4.0
29081040	8	38.81	6.7
29081050	10	54.34	10.7
29081061	12	93.15	16.0
29081070	14	103.25	18.7
29081080	16	137.67	24.9

Specify the length requested in metres



More sizes available Contact TEN

Available with Polyester Jacket on Request

Polypropylene Rope 3 Strand - Hampidjan

Part No. Various



- Higher breaking strength
- Abrasion resistance
- Excellent shock absorption
- Better grip
- Minimal elongation
- Durable and ultraviolet stabilized
- Excellent shape retention
- Strength: wet/dry 100%
- Floats/sinks: Floats
- Elongation: Moderate
- Water absorption: None
- Chemical Resistance
 - Acids: Excellent
 - Alkalis: Excellent
 - Oil/Gas: Very Good

Part No.	OD (mm)	Wt per 100m (kg) 250m Standard (Coil)	Max Break Force (T)
PPR-12	12	7.0	2.84
PPR-14	14	9.0	3.91
PPR-16	16	12.0	4.90
PPR-18	18	15.0	5.50
PPR-20	20	18.0	7.52
PPR-22	22	22.0	8.45
PPR-24	24	26.0	10.20
PPR-26	26	31.0	11.87

Specify the length requested in metres

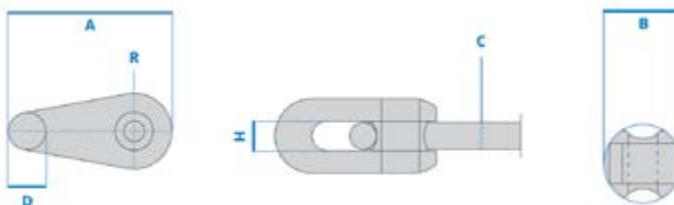
Fixed Joints, Swivels, Grips and Socks

Fixed Joint - TESMEC

Part No. GFT Series



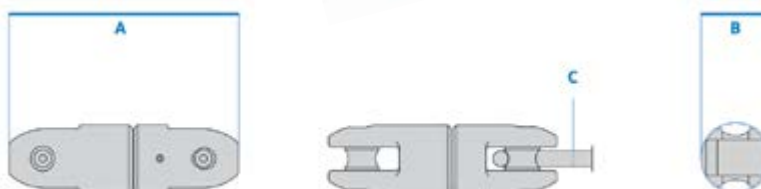
- Highly tensile forged galvanised steel
- Compact shape for bull wheel grooves



Part No.	Dimensions (mm)						Working Load (kN)	Wt (kg)
	A	B	C max	D	H	R		
GFT001	59	28	10	15	11	11	23	0.3
GFT010	74	40	13	19.5	14	15	37	0.33
GFT020	91	48	16	20	19	18	53	0.53
GFT030	102	54	18	22	19	20	73	0.75
GFT040	121	60	24	27	26	22	120	1.03
GFT050	174	75	28	42	30	32	250	3.03
GFT060	183	81	32	42	34	34.5	250	3.4

Swivel Joint - TESMEC

Part No. GGT Series



Part No.	Dimensions (mm)			Working Load (kN)	Wt (kg)
	A	B	C max		
GGT001	106	28	10	23	0.3
GGT010	143	40	13	37	0.93
GGT020	184	54	18	73	2.15
GGT030	234	60	24	120	3.4
GGT040	322	77	28	250	8.2
GGT180	336	81	32	250	8.7
GGT260	403	104	38	330	19.5

Heavy Duty Large Eye Conductor Socks - TESMEC

Part No. GCT Series

- Ideal for Transmission overhead work
- Suitable for Transmission & Distribution AL, CU & ST
- Colour coded plastic bands at ferrule to identify range and capacity
- Steel wires with protective finish and alloy ferrule
- Long mesh length provides additional gripping surface area
- Protective shoulders - protects the sock from sharp edges on the conductor during stringing
- Flexible & Reusable



Part No.	Suitable Swivel	Conductor OD Ø (mm)	Colour	UTS (kN)	Mesh Length (mm)	Wt (kg)
GCT001	GGT001	8 - 17	Yellow	35	1100	0.7
GCT010	GGT010	17 - 29	Red	85	1360	1.3
GCT020	GGT020	29 - 38	Green	130	1470	2.1
GCT030	GGT020, GGT030	38 - 50	Black	180	1820	2.7

Heavy Duty Conductor Double Head Sock - TESMEC

Part No. GCT

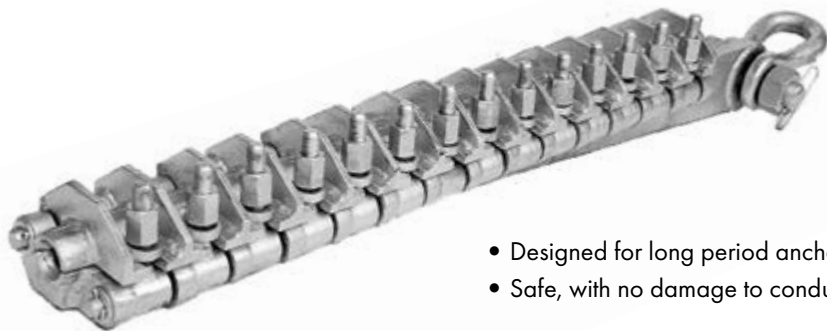


Scan or Click to View or
Download Grip Inspection
Selection & Application

Part No.	Conductor OD Ø (mm)	Colour	UTS (kN)	OAL (mm)	Wt (kg)
GCT500	8 - 17	Yellow	35	2680	1.15
GCT510	17 - 29	Red	85	3240	2.3
GCT520	29 - 38	Green	130	3540	3.6
GCT530	38 - 50	Black	180	4240	4.8

Radial Locking Clamps - TESMEC

Part No. MOS



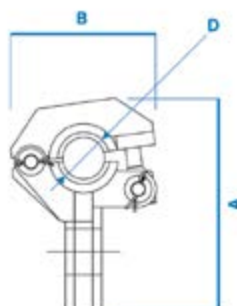
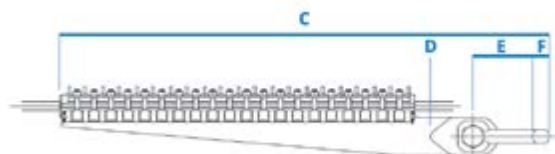
- Designed for long period anchorage
- Safe, with no damage to conductors

The radial locking clamp can be used whenever a conductor or a rope made of aluminium, aluminium/steel, copper or steel has to be stretched.

The body is made of high-strength steel. It is made up of a series of hinged elements, which can be locked by nuts. The interchangeable jaws are made of aluminium.

A special hook is provided at one end. The galvanisation treatment on the surface protects from oxidation.

Number of Eyebolts	Standard Diameter Range (mm)											
	20-30		30-40		40-56							
	Dimensions (mm)									WLL Max (kN)	Wt Min (kg)	Wt Max (kg)
A	B	A	B	A	B	C	E	F				
Part No.	MOS700		MOS701		MOS702		605	75	26	40	18	19
4	158	143	169	143	178	158						
Part No.	MOS710		MOS711		MOS712		735	93	26	60	25	28
6	158	143	169	143	178	158						
Part No.	MOS720		MOS721		MOS722		852	93	26	80	30	33
8	158	143	169	143	178	158						
Part No.	MOS730		MOS731		MOS732		995	93	32	100	39	41
10	158	143	169	143	178	158						
Part No.	MOS740		MOS741		MOS742		1100	93	32	120	41	43
12	158	143	169	143	178	158						
Part No.	MOS750		MOS751		MOS752		1210	93	35	140	43	47
14	158	143	169	143	178	158						
Part No.	MOS753		MOS754		MOS755		1285	93	35	150	55	61
15	158	143	169	143	178	158						
Part No.	MOS760		MOS761		MOS762		1360	93	45	160	67	75
16	158	143	169	143	178	158						
Part No.	MOS770		MOS771		MOS772		1510	93	45	180	79	89
18	158	143	169	143	178	158						
Part No.	MOS780		MOS781		MOS782		1670	93	45	200	92	104
20	158	143	169	143	178	158						



D = conductor diameter to be specified

Different jaws out of the standard diameter range are available upon request

RIGANTI

Grips - Riganti

Part No. Various

Riganti's self-gripping comealongs are available for aluminium, ACSR, steel earth-wire, anti-twisting rope, copper and OPGW conductors.

Made of high tensile alloy steel, hot forged, heat-treated, precision machined and zinc-plated with a complete range of interchangeable liners. This means working at lower costs on conductors of different materials and diameters only by changing the liners.

The liners are available in aluminium for aluminium or aluminium/steel conductors and bronze for copper conductors, steel anti-twisting rope and steel earth-wire.

For OPGW conductor the lower liner is made of Adiprene, whereas the upper liner is made of aluminium.

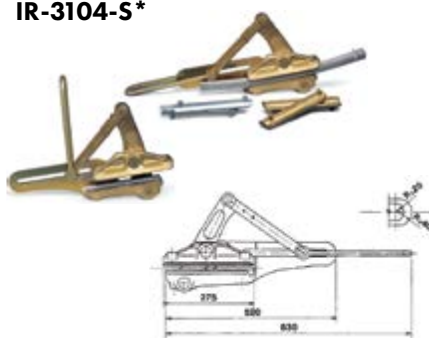
All Riganti self-gripping clamps comply with European safety standard CE. Special clamps with exact diameters available on request with or without liners.



Part No	Working Load Limit (kN)	Min Breaking Load (kN)	Interchangeable Liners	Al, ACSR & Cu		Steel, Earth wire		Anti-twist Steel Rope		Wt (kg)
				Min	Max	Min	Max	Min	Max	
				(mm)		(mm)		(mm)		
IR-3109	19.6	49	×	2.5	15	2.5	15	2.5	15	1.5
IR-3111 *	21.2	64	✓	7	16	7	13	7	13	2.5
IR-3108 *	39.5	110	✓	Lifting suspension conductors 7 - 38mm						5.5
IR-3106	50	125	×	7.5	18	7.5	18	7.5	18	7
IR-3107 *	49	180	✓	6	23	6	16	6	16	7
IR-3112 *	49	180	✓	OPGW 6 - 23mm						7
IR-3105-S *	88	275	✓	8	35.2	8	22	8	24	13.5
IR-3104-S *	117	310	✓	10	45	10	34	8	28	17

* Exact size required for manufacture of liners

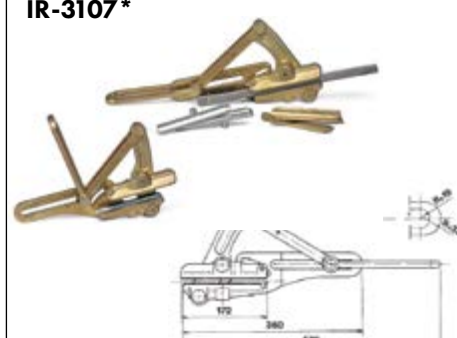
IR-3104-S *



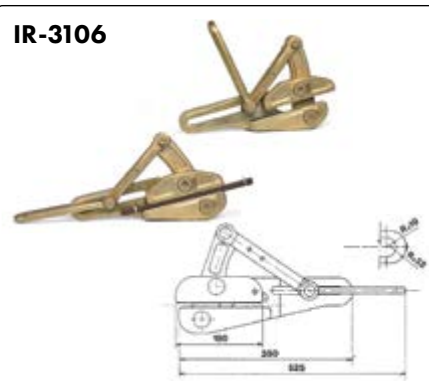
IR-3105-S *



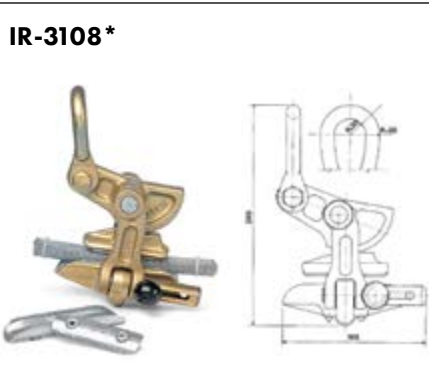
IR-3107 *



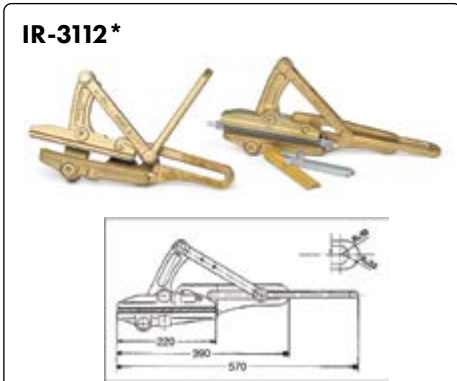
IR-3106



IR-3108 *



IR-3112 *



Liners - Riganti



IR-3112 Liners



IR-3105 Liners

Liners for IR3104-S

Min (mm)	Max (mm)	Al Part No.	Cu Part No.
10.0	10.5	G4A100F	G4B100F
10.5	12.0	G4A105F	G4B105F
12.0	13.5	G4A120F	G4B120F
13.5	15	G4A135F	G4B135F
15.0	16.5	G4A150F	G4B150F
16.5	18	G4A165F	G4B165F
18.0	19.5	G4A180F	G4B180F
19.5	21.0	G4A195F	G4B195F
21.0	22.5	G4A210F	G4B210F
22.5	24.0	G4A225F	G4B225F
24.0	25.5	G4A240F	G4B240F
25.5	27.0	G4A255F	G4B255F
27.0	28.5	G4A270F	G4B270F
28.5	30	G4A285F	G4B285F
30.0	31.5	G4A300F	G4B300F
31.5	33.0	G4A315F	G4B315F
33.0	34.5	G4A330F	G4B330F
34.5	36.0	G4A345F	G4B345F
36.0	37.5	G4A360F	G4B360F
37.5	39.0	G4A375F	G4B375F
39.0	40.5	G4A390F	G4B390F
40.5	45.0	Specify Diameter	

AL & CU Liners check range above.

Liners for wires below require exact diameter:
For steel & earth wires 10.0 - 34.0mm
For anti-twist steel rope 8.0 - 28.0mm

Liners for OPGW IR3112

Lower liner made of Adiprene and upper liner made of Aluminium.

*Specify exact OPGW diameter between **6.0 - 23.0mm**

Part No. **IR3112L**.*OP**
e.g. **IR3112L11.3OP**

NOTE: IR3112 with 15.8mm AL to AL Liners (IR311215.8AL) is suitable for CCSX62 Amokabel

Liners for IR3105-S

Min (mm)	Max (mm)	Al Part No.	Cu Part No.
8.0	9.0	G5A080F	G5B080F
9.0	10.5	G5A090F	G5B105F
10.5	12.0	G5A105F	G5B105F
12.0	13.5	G5A120F	G5B120F
13.5	15.0	G5A135F	G5B135F
15.0	16.5	G5A150F	G5B150F
16.5	18.0	G5A165F	G5B165F
18.0	19.5	G5A180F	G5B180F
19.5	21.0	G5A195F	G5B195F
21.0	22.5	G5A210F	G5B210F
22.5	24.0	G5A225F	G5B225F
24.0	25.5	G5A240F	G5B240F
25.5	27.0	G5A255F	G5B255F
27.0	28.5	G5A270F	G5B270F
28.5	30.0	G5A285F	G5B285F
30.0	31.5	G5A300F	G5B300F
31.5	35.2	Specify Diameter	

AL & CU Liners check range above.

Liners for wires below require exact diameter:
For steel & earth wires 8.0 - 22.0mm
For anti-twist steel rope 8.0 - 24.0mm

Liners for IR3107

Min (mm)	Max (mm)	Al Part No.	Cu Part No.
6.0		G7A060F	G7B060F
6.5	8.0	G7A065F	G7B065F
8.0	9.5	G7A080F	G7B080F
9.5	11.0	G7A095F	G7B095F
11.0	12.5	G7A110F	G7B110F
12.5	14.0	G7A125F	G7B125F
14.0	15.5	G7A140F	G7B140F
15.5	17.0	G7A155F	G7B155F
17.0	18.5	G7A170F	G7B170F
18.5	20.0	G7A185F	G7B185F
20.0	21.5	G7A200F	G7B200F
21.5	23.0	G7A215F	G7B215F

AL & CU Liners check range above.

Liners for wires below require exact diameter:
For steel & earth wires 6.0 - 16.0mm
For anti-twist steel rope 6.0 - 16.0mm

Liners for IR3111

Min (mm)	Max (mm)	Al Part No.	Cu Part No.
7.0	8.5	G1A070F	G1B070F
8.5	10.0	G1A085F	G1B085F
10.0	11.5	G1A110F	G1B110F
11.5	13.0	G1A115F	G1B111F
13.0	14.5	G1A130F	G1B130F
14.5	16.0	G1A145F	G1B145F

Liners supplied on request with exact diameter:

For round steel wires 7.0 - 13.0mm

For square steel wires 7.0 - 13.0mm

Liners for IR3108

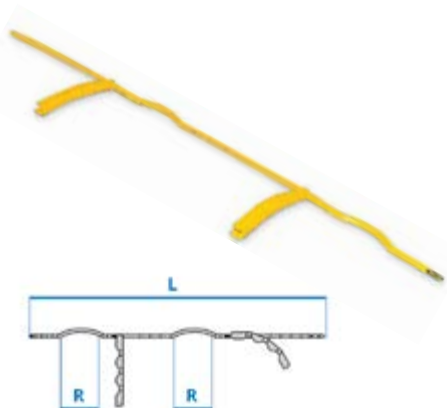
Min (mm)	Max (mm)	Al Part No.
7.0	11.0	G8A070F
9.0	12.0	G8A090F
12.0	16.0	G8A120F
15.0	23.0	G8A150F
22.0	36.0	G8A220F
30.0	38.0	G8A300F

OPGW Installation - TESMEC

Optical Earth Wire Anti-Torque Devices

Part No. RFF Series

- Shaped for smooth operations
- Swivel included

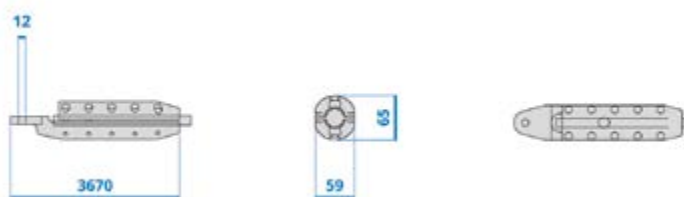


Part No.	Dimensions (mm)		Working Load (kN)	Wt (kg)	For Pulleys (mm)
	L	R			
RFF001	3900	350	10	60	400
					500
					650
RFF010	4300	500	10	63	800
					1000

Pulling Clamp For Fibre Optic

Part No. MOF470

- Rigid design avoids fibre damage
- Interchangeable and machined jaws



Performance	
Working load (kN)	10

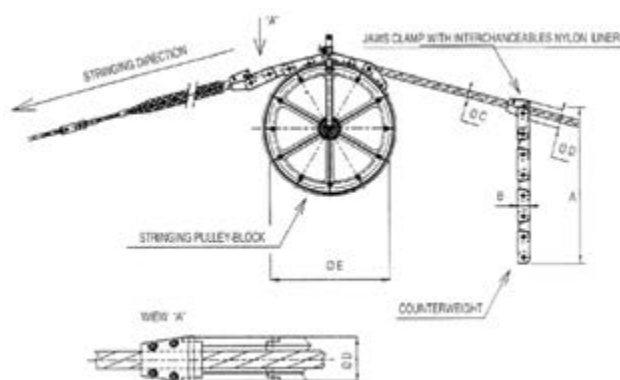
Characteristics	
Diameter range	6 to 23
Weight (kg)	4
Material	Hot forged steel

Configuration
Aluminium interchangeable jaws part number GTRXXX: conductor diameter to be specified on order.

Counterweight Device for stringing OPGW Cables

Part No. CO60 Series

- Non Rotating
- Supplied with interchangeable Liners



Part No.	Dimensions (mm)				Cable C (mm)	Quantity (*) per set
	D OD (mm)	A (mm)	B (mm)	Wt (kg)		
CO60-9	60	990	30	8	10 - 17	2
CO60-12	60	1320	30	10.5	17- 23	2

* Supplied with interchangeable liners - Nominate OPGW OD

Traction Machine

Part No. TMT020

The traction machine is ideal for reconducting both conductor and OPGW over road, rail, energised infrastructure & mountainous terrain as this method provides lower risk and better access.

- Highest traction force available
- Can be pulled back if machine stops
- Up to 1000m range with 2 remotes
- Vulcanised wheels
- Each motor supplied with 24V Lithium-Ion battery
- Lightweight

Remote Control	
Two compact radio remote control units with double push-button transmission. Device operative range up to 1000 (m).	

Available Options	
ALL304	Extra battery

Performance	
Max traction speed (m/min)	10
Max traction force (kg)	110
Max slope (°)	20

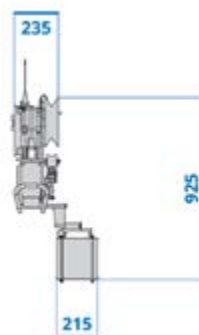
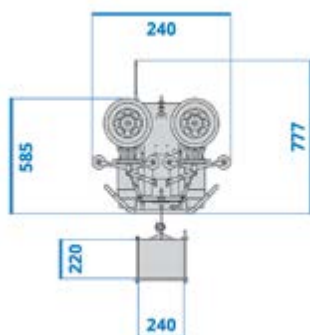
Characteristics	
Weight (kg)	55
Robot weight (kg)	40
Battery weight (kg)	15
Two electrical motors	24V
Conductors diameter range (mm)	10 to 46 mm
Material	Aluminium alloy
It can cross mid-span joint up to CH=60	



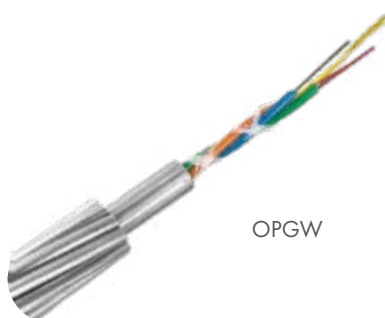
Ideal for Standard Conductor



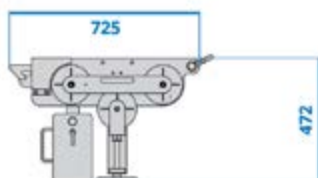
Rear View



Remote Control



OPGW



Recovery Device

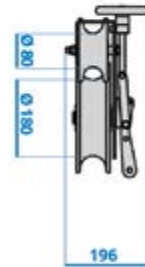
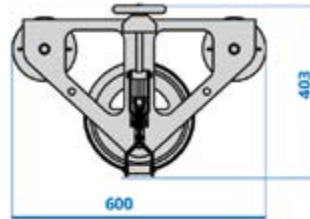
Part No. TMR030

- Automatic locking system
- Drag the traction machine to finish the span

Characteristics	
Max weight (kg)	40
Wheel material	Nylon
Detachable ballasts for easy lifting	

Braking Device

Part No. ABR058



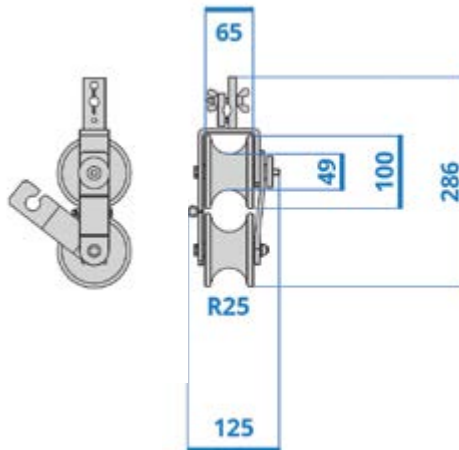
- Light and compact
- Allows the final recovery of the cradle Blocks

Performance	
Working load (kN)	1.5
Characteristics	
Weight (kg)	4.5
Conductor dia. range (mm)	10-30
Wheels material	Nylon
Frame material	Aluminium



OPGW Cradle Blocks

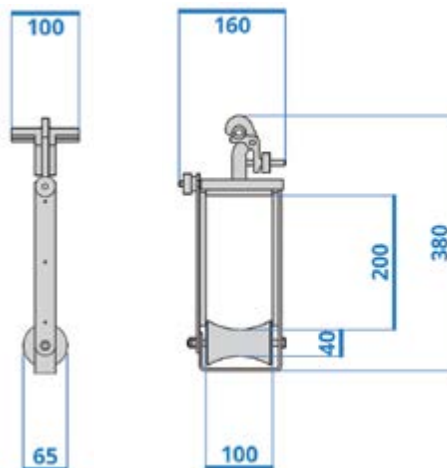
Part No. ABR053



- Light and easy
- Adjustable for different diameters

Performance	
Working load (kN)	1
Characteristics	
Weight (kg)	1.4
Rollers material	Nylon
Frame material	Aluminium

Part No. ABR045

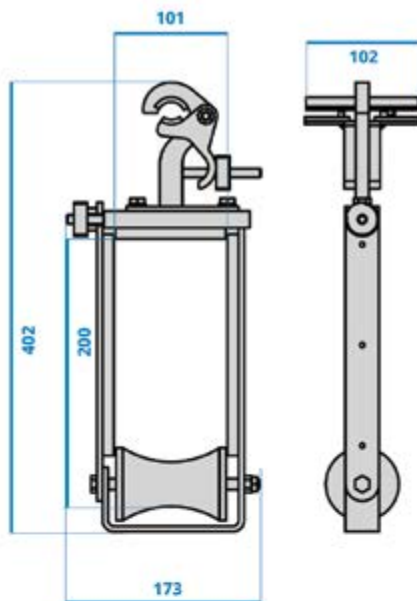


- Suitable also on midspan joints
- Allows the final recovery of the cradles

Performance	
Working load (kN)	2
Characteristics	
Weight (kg)	2
Rollers material	Nylon
Frame material	Galvanized steel
Internal surface covered by nylon plates	

OPGW Cradle Blocks

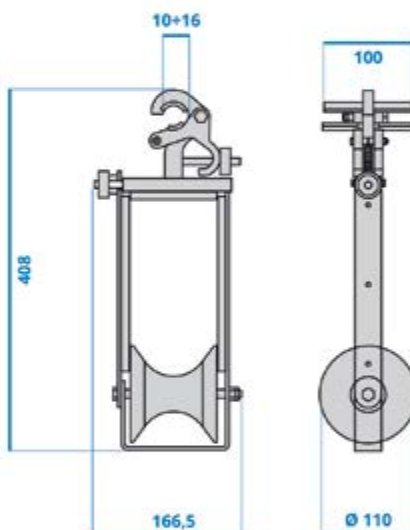
Part No. ABR064



- Suitable also on midspan joints
- Adjustable for different diameters

Performance	
Working load (kN)	2
Characteristics	
Weight (kg)	1.9
Rollers material	Nylon
Frame material	Aluminium - connection made of steel
Internal surface covered by nylon plates	

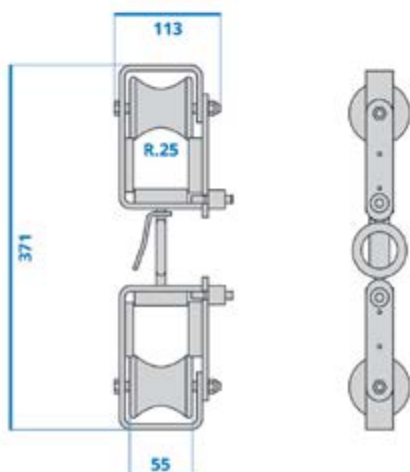
Part No. ABR059



- Counterweight for easy rotation
- Quick open/close system

Performance	
Working load (kN)	2
Characteristics	
Weight (kg)	2
Rollers material	Nylon
Frame material	Galvanized steel
Internal surface covered by nylon plates	

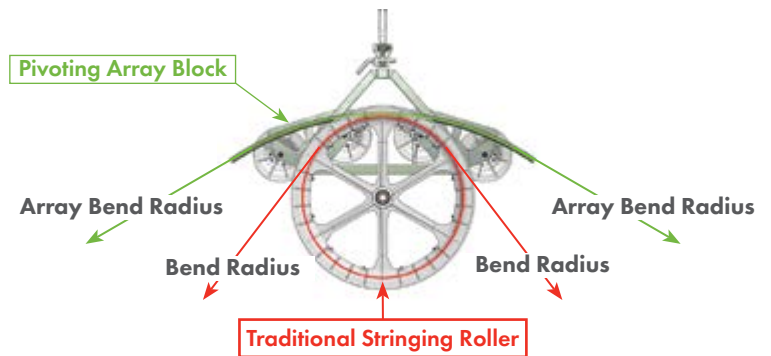
Part No. ABR021



- Earth wire Earthed during the operations
- Quick locking system for guide rope

Performance	
Working load (kN)	2
Characteristics	
Weight (kg)	1.8
Rollers material	Nylon
Frame material	Galvanized steel
Internal surface covered by nylon plates	

Stringing Rollers/Blocks and Pivoting Array Blocks



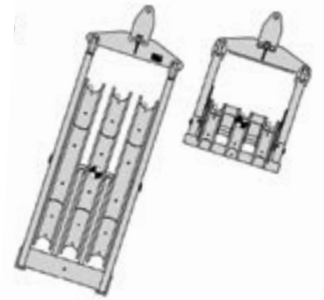
Pivoting Array Blocks - TESMEC

Array blocks are used for conductors with large bending radius.

- **Lightweight - Dimension:**
Vertical dimension is less than half of the height of a standard pulley
- **Easy Handling & Transportation:**
The compact design allows easy handling and prevents damaging during the transportation
- Refer page J46 for detailed information



- **No diameter limitation:**
Double pivoting frame allows it to move according to the line geometry by adjusting up to horizontal position, for an infinite bending radius
- **Special Sectors:**
Manufactured with anti wear material, tested and released in cooperation with Milan Politecnico
- **Integrated Earthing Device:**
Earthing device (if requested) is integrated into the frame, to prevent any possible impact or damaging during transport
- **Matchable with Standard Block:**
Groove 68 mm and groove 95 mm as per standard pulley are both available
- **Fully Compatible:**
Headboards, swivels, ropes, cover joints and all other equipment used for standard pulleys are fully compatible with array blocks
- **High Center of Gravity:**
Easier positioning at angles due to the centre



Stringing Blocks

With more than 60 years of job-site use and thanks to a deep knowledge of job-site needs, Tesmec offers:

- Top quality at a competitive price
- Tailor made solutions
- 5 different materials and types for lining
- Available tandem and for helicopter stringing version on every standard model



Earthing devices

Safety certified

In accordance with IEC TR 61328, Tesmec Earthing Devices are suitable for fault currents, lightning strikes and induced voltage rated at 20A for 20 cycles.

Several tests certified earthing devices properties. Available for drain current in equipotential system and for induced current.

Aluminium sectors with bearing conductive grease are also available as a special solution.



Universal Stringing Roller - SPP

Part No. SPP-1A

- Suitable for distribution, ABC and some transmission applications
- Aluminium sheave
- Lightweight high strength heat treated aluminium
- Versatile attachment fittings include side and bottom tags and top ball socket fitting
- Side gate latch can be locked open
- Sheave is profile machined permitting precise sagging of conductor
- High quality permanently lubricated high temperature precision bearings



Part No. SPP-1A-DI

- Same Specifications as SPP-1A
- Ductile Iron sheave (SPP-1A-DI)
- Ideal for Pulling Steel conductor (e.g. 3/12 Steel) or steel catenary

Refer Pulling & Hauling section for Crossarm and Insulator brackets

Part No.	Sheave Material	Maximum Conductor OD (mm)	WLL (kg)	Weight (kg)	Bottom of Groove Diameter (mm)	Overall Height (mm)	Overall Width (mm)
SPP-1A	Aluminium	50	1130	4	110	370	205
SPP-1A-DI	Ductile Iron	50	1130	5	110	370	205

Single Convertible Roller/Block - SPP

Part No. SPP-1B Series

- Extra large contoured throat for swivels, grips and splices
- Precision Earth bearings reduce pulling loads for accurate sagging
- Secured pins
- Durable and fully corrosion protected
- Urethane lined
- Socket fitting standard
- Helicopter Arm attachments available as an optional extra Part No. HELIHORN

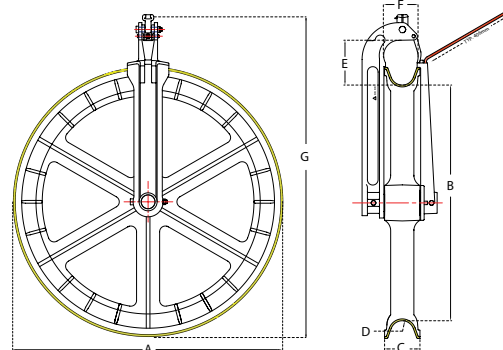


Other sizes available on request

C = Groove Width
D = Bottom of Groove Diameter



400mm Helicopter Arm
Part No. HELIHORN



Part No.	Dimensions (mm)							Wt (kg)	WLL* (kg)
	Sheave				Throat		Frame		
	A	B	C	D	E	F	G		
SPP-1B-355-UL	420	355	60	18.5	89	76	600	11.8	2700
SPP-1B-460-UL	560	460	83	20.3	140	83	760	23.0	3650
SPP-1B-610-UL	710	610	90	22.9	152	85	940	31.5	4330
SPP-1B-710-UL	810	710	91	24.0	152	110	1030	36.4	6750

* Working Load Limit (WLL) based on 3:1 Ultimate Tensile Strength

Nylon Stringing Rollers/Blocks - TESMEC

Pulleys are assembled with generation high tensile nylon wheels.

This material combines in the best way lightness, performance and price.

Groove is shaped in conformity to IEC 61328 regulation for worldwide market.

All wheels are mounted on ball bearing and they are fully interchangeable.

Frame is made of galvanized steel. Frame and wheel can be easily detached for maintenance and reconfiguration.

No gap between wheels for safe handling, reducing size and weight.



Single Nylon Stringing Blocks

Part No. CAS Series

C = Groove Width

D = Bottom of Groove Diameter

Part No.	Dimensions (mm)									Working Load (kN)	Wt (kg)
	A	B	C	D	E	F	G	H	I		
CAS528	16	24	83	560	935	248	660	210	240	40	40
CAS702	16	33	83	710	1275	408	822	228	240	40	63

Two or Three Bundled Conductor Nylon Stringing Block

Part No. CAT Series

C = Groove Width

D = Bottom of Groove Diameter

Part No.	Dimensions (mm)										Working Load (kN)	Wt (kg)
	A	B	C	D	E	F	G	H	I	L		
CAT526	24	24	83	560	990	285	660	418	240	103	60	73
CAT700	32	33	88	710	1325	445	822	456	240	114	60	125

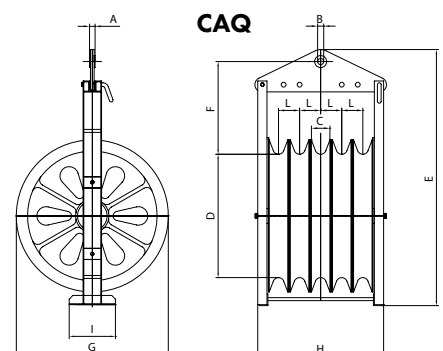
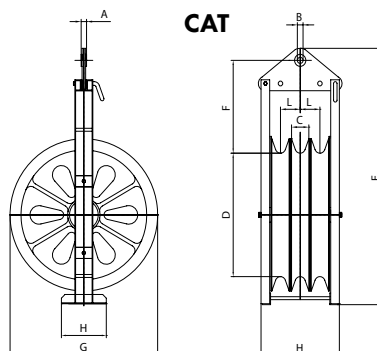
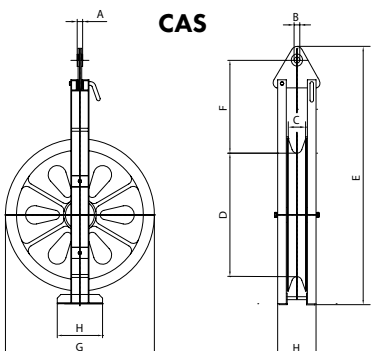
Four or Five Bundled Conductors Nylon Stringing Blocks

Part No. CAQ Series

C = Groove Width

D = Bottom of Groove Diameter

Part No.	Dimensions (mm)										Working Load (kN)	Wt (kg)
	A	B	C	D	E	F	G	H	I	L		
CAQ527	30	33	83	560	1175	445	660	628	250	103	60	162
CAQ701	32	33	88	710	1380	445	822	684	250	114	60	187



2, 3, 4 & 5 Bundle Head Boards for Nylon Rollers available. Contact TEN for further information

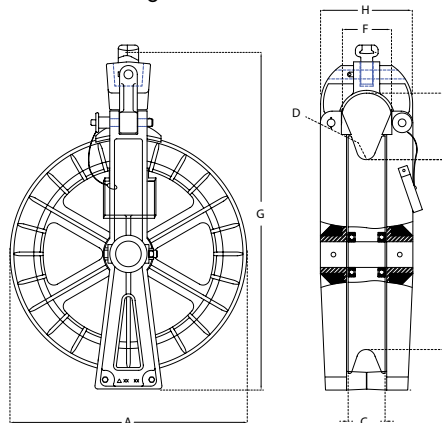
Stringing Roller/Block - SPP

Single Full Frame Roller/Block - SPP

Part No. SPP-1D Series

- Extra large contoured throat for smooth passage of swivels, grips and splices
- Quick release detent pin for ease of operation, which exposes the entire sheave
- Precision Earth bearings reduce pulling loads for accurate sagging
- Secured pins
- Durable and fully corrosion protected
- Urethane lined
- Socket fitting standard

Optional Earthing Device - SPP



Available with Earthing Device
Add Suffix "ED" to the Part No.

Part No	Dimensions (mm)								Wt (kg)	WLL* (kg)
	Sheave				Throat		Frame			
	A	B	C	D	E	F	G	H		
SPP-1D-355-UL	420	355	61	18.0	109	80	610	154	14.8	4050
SPP-1D-460-UL	560	460	82	20.5	142	104	775	197	27.0	5400
SPP-1D-610-UL	710	610	90	22.0	147	109	927	208	33.0	5400
SPP-1D-710-UL	810	710	91	25.4	147	109	1028	208	39.0	6750
SPP-1D-770-UL	870	770	90	27.5	142	109	1082	208	44.0	6750

* Working Load Limit (WLL) based on 3:1 Ultimate Tensile Strength

Fittings - Ball Clevis - SPP

Ball Clevis Socket Fittings

Part No. Various

- Suitable for SPP-1A / 1B / 1D
- 70kN WLL

Part No	BC-70	BEL-70	BHL-70	BYC-120
Description	Ball Clevis	Oval Eye Ball	Safety Hook	Y Ball Clevis
Weight (kg)	0.55	0.4	0.55	0.85



Stringing Rollers/Blocks - TESMEC

Single Stringing Roller/Block

Part No. CAS Series

Neoprene



Nylatron



Aluminium

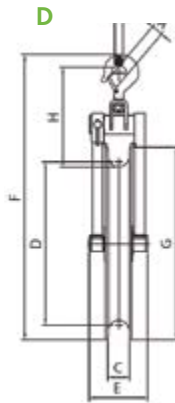
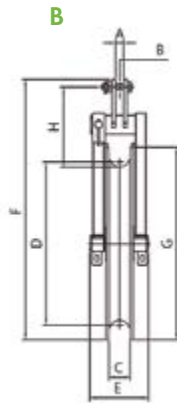
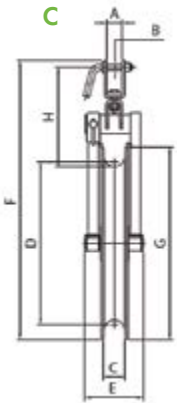


The CAS wheel is made of aluminium alloy mounted on ball bearings.

The groove is lined with a neoprene ring or by wear-proof interchangeable nylatron or aluminium sectors.

The frame is made of galvanized steel. Three types of connections available: fixed (B), swivel-type (C), and hook with safety lock (D).

Earthing device or complete conductive sheaves available upon request.



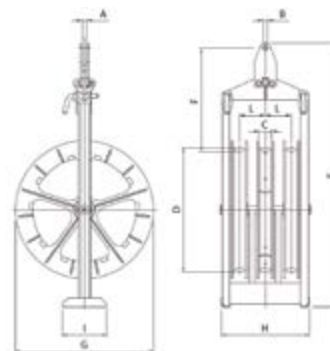
CCA Anti-fleeting devices available upon request.
See page J45

Part No.			Type of Connection	Dimensions (mm)								Working Load (kN)	Wt (kg)
Roller Groove Lining				A	B	C	D	E	F	G	H		
Neoprene	Nylatron	Aluminium											
-	CAS200	CAS207	C	26	16	50	250	145	482	330	175	27	7
-	CAS201	CAS208	D	25	19	50	250	145	490	330	175	27	7
CAS300	CAS301	CAS308	B	26	18	54	350	150	595	440	200	23	11
CAS302	CAS303	CAS309	C	35	18	54	350	150	640	440	225	23	12
CAS304	CAS305	CAS310	D	31	30	54	350	150	630	440	235	23	12
CAS600	CAS601	CAS632	B	26	20	68	650	186	996	775	260	33	28
CAS602	CAS603	CAS638	C	40	20	68	650	186	1052	775	315	33	29
CAS604	CAS605	CAS639	D	32	33	68	650	186	1087	775	330	33	30
CAS606	CAS607	CAS644	B	26	20	95	650	218	1010	775	275	40	32
CAS608	CAS609	CAS645	C	40	20	95	650	218	1062	775	330	40	33
CAS610	CAS611	CAS646	D	32	33	95	650	218	1097	775	345	40	34
CAS800	CAS801	CAS843	B	26	20	68	800	186	1101	880	260	40	32
CAS802	CAS803	CAS835	C	40	20	68	800	186	1157	880	315	40	33
CAS804	CAS805	CAS836	D	32	33	68	800	186	1192	880	330	40	34
CAS806	CAS807	CAS857	B	26	20	95	800	218	1125	893	275	40	38
CAS808	CAS809	CAS852	C	40	20	95	800	218	1180	893	330	40	39
CAS810	CAS811	CAS858	D	32	33	95	800	218	1215	893	345	40	40
-	CAS002	CAS012	B	26	20	95	1000	218	1335	1100	275	40	49
-	CAS004	CAS013	C	40	20	95	1000	218	1387	1100	330	40	50
-	CAS006	CAS014	D	32	33	95	1000	218	1422	1100	345	40	51
-	CAS027	-	B	25	24	130	1200	310	1824	1393	500	90	110
-	CAS034	-	B	25	24	130	1500	310	2124	1670	500	90	155

Two or Three Bundled Conductor Stringing Blocks

Part No. CAT Series

- The wheels are made of aluminium alloy
- The lateral wheels are mounted on ball bearings with grooves lined with neoprene ring
- The central wheel is mounted on double-row ball bearings with grooves made up of wear-proof interchangeable nylatron sectors
- The frame is made of galvanized steel
- Blocks are supplied with fixed connection.
- Earthing device or complete conductive sheaves are available upon request.

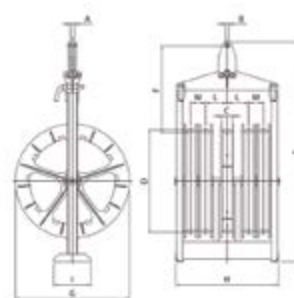


Part No.			Dimensions (mm)										Working Load (kN)	Wt (kg)
Nylon/ Neoprene	Nylon	Aluminium	A	B	C	D	E	F	G	H	I	L		
CAT612	CAT648	CAT622	25	24	68	650	1430	580	775	500	250	145	50	110
CAT613	CAT676	CAT654	25	24	95	650	1430	580	775	572	250	175	70	130
CAT812	CAT912	CAT894	25	24	68	800	1530	580	880	500	250	145	70	125
CAT813	CAT848	CAT874	25	24	95	800	1540	580	893	572	250	175	70	160
-	CAT007	-	25	24	95	1000	1740	580	1100	572	250	175	70	198
-	CAT029	-	25	24	133	1200	2060	580	1393	722	250	222	90	270
-	CAT035	-	25	24	133	1500	2330	580	1670	722	250	222	90	320



Four & Five Bundled Conductor Stringing Blocks

Part No. CAQ Series



Part No.			Dimensions (mm)											Working Load (kN)	Wt (kg)
Nylon/Neoprene	Nylon	Aluminium	A	B	C	D	E	F	G	H	I	L	M		
CAQ614	CAQ666	CAQ623	25	24	68	650	1440	595	775	700	250	145	100	50	148
CAQ615	CAQ667	CAQ656	25	24	95	650	1440	595	775	826	250	175	130	70	190
CAQ814	CAQ818	CAQ856	25	24	68	800	1540	595	880	700	250	145	100	70	180
CAQ815	CAQ881	CAQ827	25	24	95	800	1540	595	893	826	250	175	130	70	225
-	CAQ008	-	25	24	95	1000	1750	595	1100	826	250	175	130	70	270
-	CAQ030	-	25	24	133	1200	2115	595	1393	1081	250	222	177	90	320
-	CAQ036	-	25	24	133	1500	2383	595	1670	1081	250	222	177	90	405

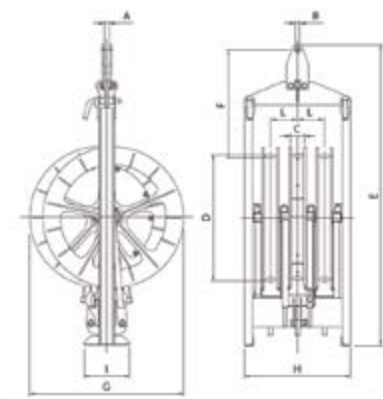
*Central sheave nylatron - lateral sheaves nylatron IEEE



Detachable Two or Three Bundled Stringing Block

Part No. CST Series

- The block are ideal for stringing two or three bundled conductors.
- The pulleys are made up of a special galvanized steel frame and three single pulleys
- The single pulleys can be used separately
- The wheels are made of aluminium alloy mounted on ball bearings
- The lateral wheels have the groove lined with a neoprene ring
- The central wheel has the groove made up of wear-proof interchangeable nylatron sectors
- The pulleys are supplied with fixed connection



Part No.		Dimensions (mm)										Working Load (kN)	Wt (kg)
Nylon/Neoprene	Nylon	A	B	C	D	E	F	G	H	I	L		
CST600	CST604	25	24	68	650	1563	600	846	580	250	148	40	151
CST601	-	25	24	95	650	1667	600	846	671	250	178	60	166
CST800 CST807*	-	25	24	68	800	1758	600	951	580	250	148	60	166
CST801	CST808	25	24	95	800	1758	600	964	671	250	178	60	190
-	CST001	25	24	95	1000	1995	600	1171	671	250	178	67	228

* All neoprene lining

Helicopter Stringing Block

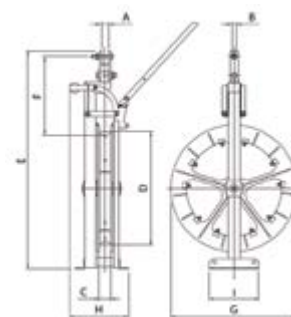
Part No. CES Series

Ideal for stringing a pilot rope by helicopter

The pilot rope is automatically positioned in the (central) wheel. Special guides ensure the correct positioning of the rope during stringing operations.



- The wheels are made of aluminium alloy mounted on ball bearings
- The lateral wheels have the groove lined with a neoprene ring
- The central wheel has the groove made up of wear-proof interchangeable nylatron sectors
- The frame is made of galvanized steel
- The pulleys are supplied with fixed connection
- Earthing device or complete conductive sheaves are available upon request



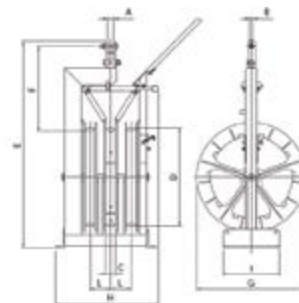
Part No.			Dimensions (mm)									Working Load (kN)	Wt (kg)
Nylon/Neoprene	Nylon	Aluminium	A	B	C	D	E	F	G	H	I		
CES604	CES600	-	41	20	68	650	1345	490	775	362	300	40	62
-	CES601	CES618	41	20	95	650	1345	500	775	376	300	40	68
-	CES800 CES811 * CAT875 *	-	41	20	68	800	1440	480	880	362	300	40	68
-	CES801 CES831 *	-	41	20	95	800	1460	500	893	376	300	40	74
-	CES001	-	41	20	95	100	1665	500	-	376	300	67	93
-	CES005	-	41	24	133	1200	2005	558	-	462	600	90	180
-	CES008	-	41	24	133	1500	2310	570	-	462	600	90	215

* All sheaves with IEEE sectors

Helicopter Stringing Block

Part No. CET Series

- The wheels are made of aluminium alloy mounted on ball bearings
- The lateral wheels have the groove lined with a neoprene ring
- The central wheel has the groove made up of wear-proof interchangeable nylatron sectors
- The frame is made of galvanized steel
- The pulleys are supplied with fixed connection
- Earthing device or complete conductive sheaves are available upon request



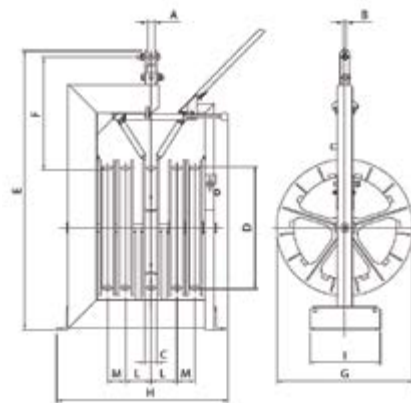
Part No.			Dimensions (mm)										Working Load (kN)	Wt (kg)
Nylon/Neoprene	Nylon	Aluminium	A	B	C	D	E	F	G	H	I	L		
CET602	CET610*	-	41	20	68	650	1345	605	775	730	400	145	60	142
CET603	-	CET608	41	20	95	650	1430	610	775	810	400	175	60	164
CET802	CET821 CET807*	CET829	41	20	68	800	1582	610	880	730	400	145	60	158
CET803	CET820 CET812*	CET806	41	20	95	800	1582	610	893	810	400	175	60	179
-	CET002	-	41	20	95	1000	1805	629	1100	830	400	175	67	235
-	CET006	-	41	20	133	1200	2100	640	1393	1005	500	222	90	315
-	CET009	-	41	20	133	1500	2405	640	1670	1005	500	222	90	362

*All sheaves with IEEE sectors

Helicopter Stringing Block

Part No. CEQ Series

- The wheels are made of aluminium alloy mounted on ball bearings
- The lateral wheels have the groove lined with a neoprene ring
- The central wheel has the groove made up of wear-proof interchangeable nylatron sectors
- The frame is made of galvanized steel
- The pulleys are supplied with fixed connection
- Earthing device or complete conductive sheaves are available upon request



Part No.			Dimensions (mm)											Working Load (kN)	Wt (kg)
			A	B	C	D	E	F	G	H	I	L	M		
Nylon/ Neoprene	Nylon	Aluminium													
CEQ609	CEQ614**		41	20	68	650	1580	641	775	906	400	145	100	60	228
CEQ612	-		41	20	95	650	1625	670	775	1130	400	175	130	60	258
CEQ808	CEQ813**	CEQ818	41	20	68	800	1750	670	880	910	400	145	100	60	250
CEQ809	CEQ819**		41	20	95	800	1750	647	893	1130	400	175	130	60	280
-	CEQ003		41	20	95	1000	1945	670	1100	1130	400	175	130	67	360

**Central nylatron - lateral nylatron IEEE

Tandem Stringing Roller/Blocks

Part No. CAM Series

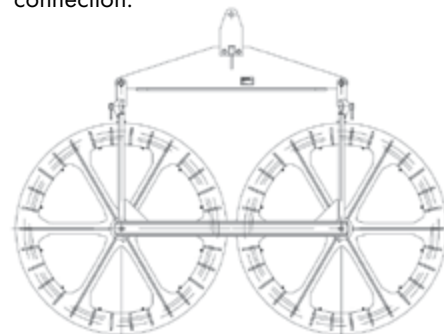


The blocks are ideal for stringing single, two or three bundled conductors.

The pulleys are made up of a special galvanized steel frame and three single pulleys. The single pulleys can be used separately. The wheels are made of aluminium alloy mounted on ball bearings. The lateral wheels have the groove lined with a neoprene ring.

The central wheel has the groove made up of wear-proof interchangeable nylatron sectors.

The pulleys are supplied with fixed connection.



Part No.	Based On	Wheel Ø (mm)	Groove (mm)	Working Load (kN)	Wt (kg)
CAM210	CAS200	250	50	33	25
CAM618	CAS602	650	68	60	72
CAM631	CAT613	650	95	60	290
CAM636	CAT612	650	68	70	270
CAM640	CAS607	650	95	60	87
CAM662	CAS601	650	68	60	91
CAM665	CAS606	650	95	60	98
CAM669	CAS608	650	95	60	100
CAM849	CAS802	800	68	60	92
CAM892	CAS801	800	68	60	89
CAM896	CAS807	800	95	60	118
CAM907	CAE906	800	95	100	632
CAM015	CAS002	1000	95	60	135
CAM023	CAS024	1000	95	60	166
CAM028	CAS027	1200	130	90	250
CAM031	CAS027	1000	95	90	175
CAM032	-	1200	130	120	312
CAM042	CAE041	1000	95	80	835
CEM619	CES600	650	68	60	239
CEM827	CET8XX	800	95	80	415
CEM828	CES801	800	95	80	205
CEM830	CET829	800	68	80	404

Earthing Devices for Stringing Blocks - TESMEC

Part No. CCA Series

Earthing devices can be supplied on single, bundle and helicopter wheels manufactured by Tesmec.

Earthing devices complies with IEC TR 61328 REV.3 requirement 20 kA for 20 cycles.



Nylon Stringing Blocks		
Stringing Blocks Part No.	Dia 560	Dia 700
CAS	MTX140	MTX143
CAT	MTX138	MTX141
CAQ	MTX139	MTX142



Aluminium Stringing Blocks						
Stringing Blocks Part No.	Dia 400-500	Dia 650		Dia 800		Dia 1000
		68 Narrow Groove	95 Wide Groove	68 Narrow Groove	95 Wide Groove	95 Wide Groove
CAS	MTX120	MTX079	MTX079	MTX079	MTX079	MTX081
CAT	-	MTX101	MTX122	MTX129	MTX102	MTX103
CAQ	-	MTX104	MTX105	MTX130	MTX131	MTX106
CES	-	MTX090	MTX090	MTX090	MTX090	MTX089
CET	-	MTX107	MTX108	MTX134	MTX135	MTX109
CEQ	-	MTX110	MTX111	MTX132	MTX133	MTX112

Anti-fleeting Devices - TESMEC

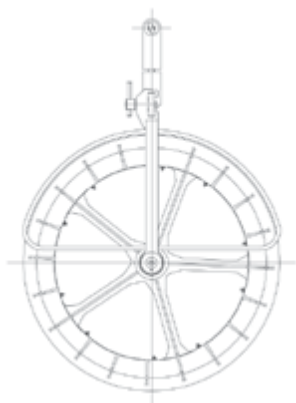


Bundled Stringing Blocks

Part No. CCA Series

Single Stringing Blocks	
Included	For D=250
CCA300	For D=350
CCA600	For D=650
CCA400	For D=400
CCA500	For D=500
CCA800	For D=800
CCA000	For D=1000
CCA001	For D=1200
CCA009	For D=1500

Bundle Stringing Blocks	
Included	For D=250
CCA601	For D=350
CCA801	For D=650
CCA007	For D=400
CCA400	For D=500
CCA500	For D=800



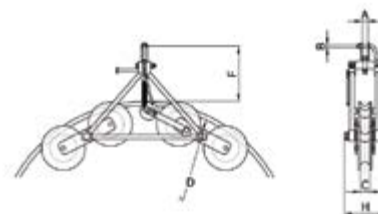
TESMEC

Pivoting Array Blocks - TESMEC

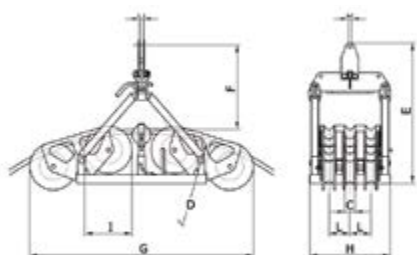
Single Conductor Pivoting Array Blocks

Part No. RUS

- Lightweight & compact
- No diameter limitation
- Easy handling & transportation



Part No.		Dimensions (mm)									Working Load (kN)	Wt (kg)
Fibreglass	Aluminium	A	B	C	D	E	F	G	H	I		
RUS005	RUS026	40	20	68	1600	810	393	1350	295	305	40	42
RUS007	RUS027	40	20	68	1820	800	367	1470	295	305	40	48



Two or Three Bundled Conductors Pivoting Array Blocks

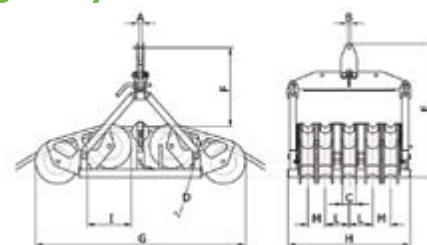
Part No. RUT

Part No.		Dimensions (mm)										Working Load (kN)	Wt (kg)
Cast Iron + Fibreglass	Cast Iron + Aluminium	A	B	C	D	E	F	G	H	I	L		
RUT013	RUT014	25	24	68	3120	1035	580	1495	560	305	145	60	183
RUT015	RUT016	25	24	95	3260	1035	580	1600	640	326	175	60	200

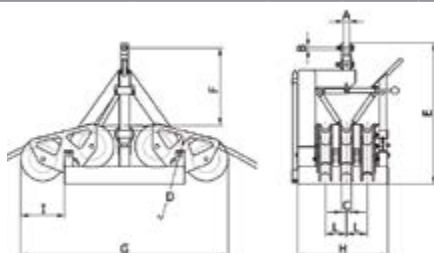


Four or Five Conductors Pivoting Array Blocks

Part No. RUQ



Part No.		Dimensions (mm)											Working Load (kN)	Wt (kg)
Cast Iron + Fibreglass	Cast Iron + Aluminium	A	B	C	D	E	F	G	H	I	L	M		
RUQ005	RUQ026	25	24	68	3120	1035	580	1495	760	305	145	100	60	255
RUQ007	RUQ027	25	24	95	3260	1035	580	1600	900	326	175	130	60	280



Two or Three Conductors Pivoting Array Helicopter Blocks

Part No. RET

Part No.		Dimensions (mm)										Working Load (kN)	Wt (kg)
Cast Iron + Fibreglass	Cast Iron + Aluminium	A	B	C	D	E	F	G	H	I	L		
RET002	RET003	40	21	68	3390	980	540	1445	665	305	145	60	196
RET004	RET005	40	21	95	3530	980	540	1550	745	326	175	60	215



Special models with different characteristics are available on request

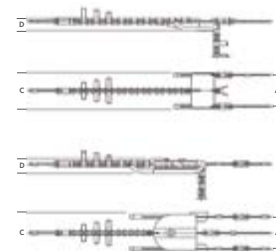
Head Boards - TESMEC

Designed to connect a pulling rope, (24mm Max) with 2 or 3 bundled conductors.

The equipment includes the necessary rope lengths and swivels
Quantity and models are indicated in the following tables.

2 or 3 Conductors Fixed Head Boards

Part No. RFB-RFT Series



Part No.	Dimensions (mm)			Working Load (kN)	Wt (kg)	For Stringing Blocks		Swivel Joints		Steel Rope Section Ø 18mm	Phase Type
	A	C	D			Standard	Helicopter	GGT020	GGT030		
RFB020	292	335	144	93	98	CAT506 CAT612 CAT812 CST500 CST600 CST800	CET602 CET802	2	1	2 x 3.5m	2 Conductors
RFB370	292	335	144	120	100						
RFT030	292	335	144	93	104			3	1	3 x 3.5m	3 Conductors
RFT380	292	335	144	120	107						
RFB040	348	390	144	93	100	CAT613 CAT813 CAT007 CST601 CST801 CST001	CET603 CET803 CET002	2	$\frac{1}{1 \times \text{GGT040}}$	2 x 3.5m	2 Conductors
RFB390	348	390	144	150	103						
RFT050	348	390	144	93	107			3	$\frac{1}{1 \times \text{GGT040}}$	3 x 3.5m	3 Conductors
RFT400	348	390	144	150	110						

Contact TEN for Head Boards for Nylon Rollers

2, 3 or 4 Conductors Balancing Head Boards

Part No. RBB-RBT Series

Part No.	Dimensions (mm)			Working Load (kN)	Wt (kg)	For Stringing Blocks		Swivel Joints		Steel Rope Section Ø 18mm	Phase Type
	A	C	D			Standard	Helicopter	GGT020	GGT030		
RBB001	292	365	160	93	135	CAT506 CAT612 CAT812 CST500 CST600 CST800	CET602 CET802	2	1	1 x 30m	2 Conductors
RBB580	292	365	160	120	140						
RBT010	292	365	160	93	157			3	1	1 x 30m 1 x 15m	3 Conductors Balancing 1-3
RBT590	292	365	160	120	162						
RBT260	292	365	160	93	157			3	1	1 x 30m 1 x 15m	3 Conductors Balancing 1-2
RBT680	292	365	160	120	162						
RBB020	348	415	176	93	143	CAT613 CAT813 CAT007 CST601 CST801 CST001	CET603 CET803 CET002	2	$\frac{1}{1 \times \text{GGT040}}$	1 x 30m	2 Conductors
RBB690	348	415	176	150	148						
RBT030	348	415	176	93	165			3	$\frac{1}{1 \times \text{GGT040}}$	1 x 30m 1 x 15m	3 Conductors Balancing 1-3
RBT560	348	415	176	150	170						
RBT140	348	415	176	93	165			3	$\frac{1}{1 \times \text{GGT040}}$	1 x 30m 1 x 15m	3 Conductors Balancing 1-2
RBT700	348	415	176	150	170						



Part No. RBQ Series

Designed to connect a pulling rope, (28mm Max) with 4 bundled conductors.



Part No.	Dimensions (mm)				Working Load (kN)	Wt (kg)	For Stringing Blocks		Swivel Joints		Steel Rope Section Ø 18mm
	A	B	C	D			Standard	Helicopter	GGT020	GGT030	
RBQ710	100	292	540	150	120	193	CAQ614 CAQ814	CEQ609 CEQ808	4	1	2 x 30m
RBQ720	130	340	648	160	150	208	CAQ615 CAQ815 CAQ008	CEQ612 CEQ809 CEQ003	4	$\frac{1}{1 \times \text{GGT040}}$	2 x 30m
RBQ080	130	340	650	175	250	230					

Additional Fixed & Balancing Head Boards to suit a wide range of 4 & 5 bundle rollers available. Contact TEN for further information

TESMEC



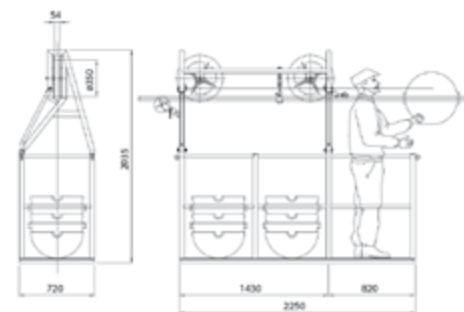
Conductor Chairs & Cars

Conductor Cars For Single Conductor Lines - TESMEC

Part No. CR5320

This conductor car is manufactured of light aluminium alloy and allows one person to cross or to inspect single conductor lines. Complete with two aluminium neoprene lined, metre counter and stationary brake.

Capacity (kg)	150
Weight (kg)	75



HIATCO



Conductor Spacer Chair – Hiatco

Part No. HSSC-Series

For transporting line-workers to carry out maintenance & repair on conductors mid-span. The standard spacer chair frame is manufactured from lightweight aluminium alloy 6082T6 using standard box and circular sections as well as non-slip flooring.

Features

- Lightweight aluminium cage
- Hand brake with lock feature
- 4 harness anchor points
- 250kg WLL (Proof load 375kg)
- Test cert supplied
- Battery powered option *

Part No	WLL (kg)	Dimensions Including Support Arms (mm)			Wt (kg)
		Width	Depth	Height	
HSSC-P*	250	1360	630	1530	80
HSSC	250	1360	630	1530	60

TESMEC



Special models are available upon request, including motorised.

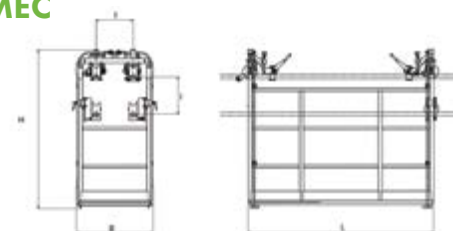
Inspection Conductor Car - TESMEC

Part No. CRQ530

- Two detachable brakes
- Metre counter
- Earthing roller
- Safety rope

Aluminium alloy conductor cars suitable for construction and inspection of bundled line that allow two workers to work on two or four bundled conductors line.

Conductor car is able to pass over spacers



Configuration with only two axles leave more space for operators and line equipment. Conductor cars are equipped with brakes, safety rope and metre counter.

Part No.	Dimensions (mm)				Capacity (kN)	Wt (kg)
	B	H	L	I		
CRQ530	818	1650	2000	400	250	90

Special models are available upon request, including motorised
Contact TEN for further information



Aluminium Structures

Working Platforms – Hiatco

Part No. HWP Series

Utilised for Line-workers to gain access on towers to carryout maintenance & repair on conductors and tower hardware.

Features

- All box sections, angles & plates of the platform are built from structural aluminium 6082T6
- Variety of lengths and configurations available, including folding and telescopic ends
- Specially extruded aluminium non-slip flooring & toe-board
- Fall arrest support brackets and safety wire
- Load test certificate supplied for each platform

Platform Length (m)			Centre Section qty Length & (WLL)	End Section qty Length & (WLL)	Telescopic Section Length & (WLL)	Weight of Safety Wires & Brackets (kg)	Total Weight (kg)
Total	Extended	Retracted					
6.0	Fixed	Fixed	1 x 6.0m (200kg)	Not Required	Not Required	10	210
7.0	Fixed	Fixed	2 x 3.5m (75kg)	NA	NA	c/w centre stirrups	150
9.0	Folding ends		1 x 6.0m (150kg)	Not Required	2 x 1.5m (35kg)	NA	220
12.0	Fixed	Fixed	1 x 1.5m (60kg)	2 x 5.0m (170kg)	Not Required	20	420
16.0	Fixed	Fixed	1 x 6.0m (200kg)	2 x 5.0m (170kg)	Not Required	25	565
16.0	15.5	10.3	1 x 3.1m (145kg)	2 x 3.5m (125kg)	2 x 3.8m (80kg)	25	580
19.0	18.5	12.9	1 x 6.0m (200kg)	2 x 3.5m (125kg)	2 x 3.8m (80kg)	30	635
21.0	20.3	14.1	1 x 6.0m (200kg)	2 x 4.0m (140kg)	2 x 4.2m (80kg)	30	670



Working Platforms - TESMEC

Part No. PLL Series

The working platforms have trapezoidal section and are made of aluminium alloy. For modular use, the platforms extra sling and anti-fall barrier kit are required for each specific length.

All the platforms are provided with single side anti fall barrier. Special working platforms are available upon request.

- Detachable wide range
- Several frame options available

Available Options	
PYB001	Special track For hydraulic press trolley
PYC002	Hydraulic press trolley
PYDXXX	Double side anti-fall barrier

Part No.	Total Length (m)	Lateral Section Length (m)	Central Section Length (m)	Intermediate Section Lengths (m)	Working Load at the two ends (kg)	Wt (kg)
PLL004	7	3.5+3.5	-	-	300	65
PLL302	8	4+4	-	-	300	75
PLL308	9	4.5+ 4.5	-	-	300	85
PLL306	10	5+5	-	-	300	95
PLL303	11	5.5+5.5	-	-	300	105
PLL311	12	6+6	-	-	300	107
PLL300	12	3.5+3.5	5	-	300	110
PLL600	16	3.5+3.5	5	2+2	300	150
PLL901	18	4.5+ 4.5	4.5+4.5	-	300	180
PLL909	20	5+5	5+5	-	300	190
PLL900	22	5.5+5.5	5.5+5.5	-	300	200
PLL905	24	6+6	6+6	-	300	228
PLL907	26	5+5+5+5	6	-	300	240

Anchoring Ladders - TESMEC

Part No. SCA Series

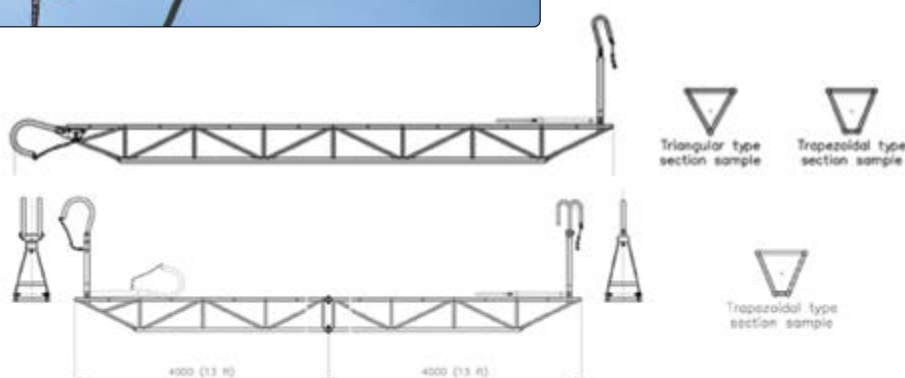


Specifically designed for anchoring works.

The ladders are made of light aluminium alloy, with anti-slippery rungs and with galvanized steel suspension hooks.

The ladders are supplied with a supplementary swivel hook to be located on the conductor, which allows the ladder to be used in horizontal position. The ladders are available with triangular or trapezoidal section.

- Lightweight platform
- Easy to handle
- Replacement sections available



Part No.	Length (m)	Section Length (m)	Working Load (kg)	Linear Wt (kg/m)	Section
SCA700	4	4	150	4	Triangular
SCA800	6	6	150	4	Triangular
SCA801	6	4+2	150	4	Triangular
SCA900	8	4+4	150	4	Triangular
SCA400	3.5	3.5	300	4.7	Trapezoidal
SCA401	4.5	4.5	300	4.7	Trapezoidal
SCA500	6.5	4.5+2	300	4.7	Trapezoidal
SCA600	8	4+4	300	4.7	Trapezoidal



SDG010



SDG009



SDG018



SDG025



SDG019

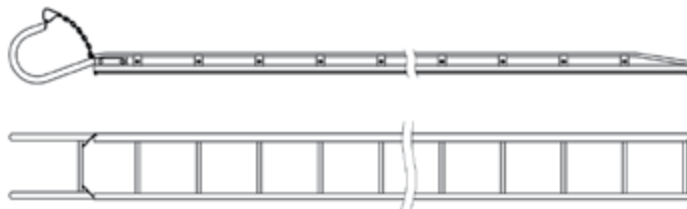
Part No.	Special Models and Lengths Available on request
SDG010	Standard swivel hook conductor side
SDG009	Standard swivel hook with roller (conductor side)
SDG018	Swivel suspension hook (tower side)
SDG025	Double swivel suspension hook (tower side)
SDG019	Double hook swivel (conductor side)

Suspension Ladders - TESMEC

Part No. SCS Series

Specifically designed for suspension works. The ladder is made of light aluminium alloy, fitted with anti-slippery rungs, with a special track for the anti-fall device and with a galvanized steel supporting hook.

- PPE system
- Modular and lightweight
- SCS LADDERS WITH SDA ANTI-FALL DEVICE Comply with 89/686/CEE



Part No.	Length (m)	Section Length (m)	Working Load (kg)	Linear Wt (kg/m)	Anti-fall Device (model not incl.)
SCS100	3.5	3.5	300	3.8	SDA021
SCS200	4.5	4.5	300	3.8	SDA021
SCS306	5	5	300	3.8	SDA021
SCS300	6	6	300	3.8	SDA021
SCS301	6	4+2	300	3.8	SDA021
SCS302	8	4+4	300	3.8	SDA021

Double Swivel Ladder Hook - TESMEC

Part No. SDG015

Special models with different lengths are available upon request.

Available Options	
SDG015	360° Double swivel hook

Ladder hooks swivel 360° for maneuvering into difficult spots



Anti-Fall Devices - TESMEC

Part No. SDA Series

Personal protective devices to prevent the operator falling. The device is self-guided and self-locking, running on a special rigid track, constructed of light aluminium alloy. Supplied with a polyamide mini energy-absorber and safety spring catch to connect it to the safety harness.

It allows the proper movement of the operator along the ladder and at the same time protecting them from falling. End stroke devices are provided in order to avoid that the anti-fall device running from the anchoring track.

- Zero snagging with self guiding and locking
- Energy Absorber
- Harness Safety spring catch
- Comply with 89/686/CEE

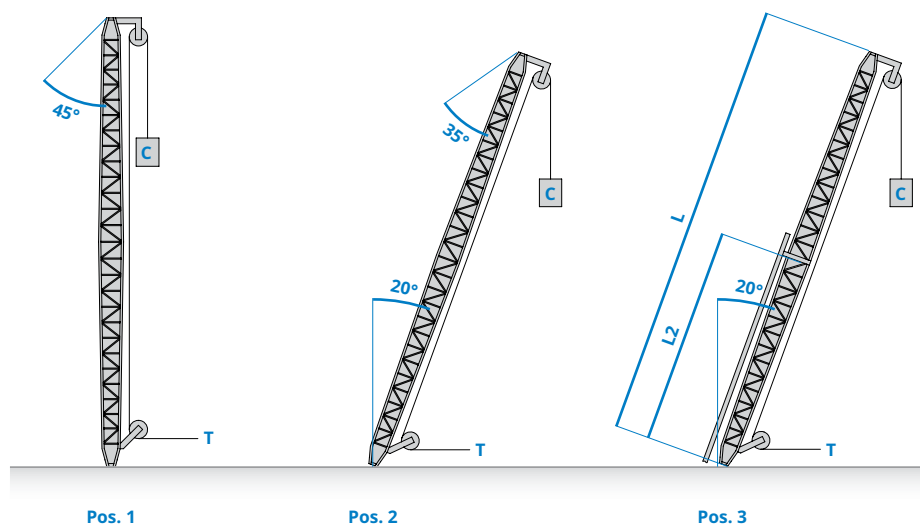


Special Models with Different Lengths Available on request			
Part No.	Working Load (m)	Nylon Rope Length (mm)	Wt (kg)
SDA021	100	300	1
SDA022	100	300	1

Aluminium Derricks - TESMEC

Part No. FAL Series

- Light design
- Swivel head and base
- Special models can be designed on demand



Part No.	"L"	"L2"	Max lifting load (kN)			Wt (kg)	Snatch blocks (not included)		Anchoring Ropes (n° 4 for each)
	Total Length (m)	Section Lengths (m)	Pos. 1 0°	Pos. 2 20°	Pos. 3 20°		Upper service snatch blocks	Upper service snatch blocks	
FAL001	8	4+4	6,5	5	1,5	40	CZA101	CZA101	ALT046
FAL010	12	4+4+4	6,5	5	1,5	65	CZA010	CZA101	ALT047
FAL020	8	4+4	10	8	2	45	CZA010	CZA101	ALT046
FAL030	10	4+2+4	10	8	2	60	CZA010	CZA101	ALT046
FAL040	12	4+4+4	10	8	2	70	CZA010	CZA101	ALT047
FAL050	8	3+2+3	12,5	10	2,5	50	CZA030	CZA101	ALT046
FAL060	12	4+4+4	12,5	10	2,5	80	CZA030	CZA101	ALT047
FAL070	16	5+6+5	12,5	10	2,5	110	CZA030	CZA101	ALT048
FAL080	12	4+4+4	19	15	3,5	100	CZA140	CZA030	ALT043
FAL090	16	5+6+4	19	15	3,5	130	CZA140	CZA030	ALT044
FAL100	18	6+6+6	19	15	3,5	180	CZA140	CZA030	ALT045
FAL110	20	5+5+5+5	19	15	3,5	200	CZA140	CZA030	ALT045
FAL120	12	4+4+4	25	20	4	120	CZA140	CZA030	ALT156
FAL130	16	4+4+4+4	25	20	4	160	CZA140	CZA030	ALT147
FAL140	20	5+5+5+5	25	20	4	220	CZA140	CZA030	ALT015
FAL150	12	6+6	31	25	5	150	CZA380	CZA140	ALT156
FAL160	16	5+6+5	31	25	5	200	CZA380	CZA140	ALT147
FAL170	18	6+6+6	31	25	5	230	CZA380	CZA140	ALT015
FAL180	20	5+5+5+5	31	25	5	250	CZA380	CZA140	ALT015
FAL190	16	5+6+5	50	40	8	300	CZA350	CZA340	ALT155
FAL200	18	6+6+6	50	40	8	330	CZA350	CZA340	ALT155
FAL210	22	5+6+6+5	50	40	8	400	CZA350	CZA340	ALT017

Standard derricks with external rope passage, available on request with internal rope passage.

Support Structure - TESMEC

Part No. PIL Series

Light aluminium alloy supporting structure for erection of barriers and netting for the protection of roads, railways, channels and line crossings.

- Modular
- Light and strong

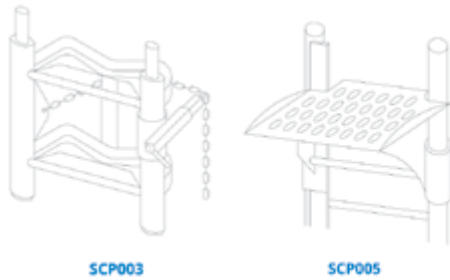


Part No.	Length (mm)	Section	Capacity (kN)	Mass (kg)
PIL100	2000	Triangular	10	7.5
PIL101	4000	Triangular	10	14
PIL500	2000	Square	10	9.5
PIL501	4000	Square	10	18.5

Options

Description	FOR SQUARE SECTION	FOR TRIANGLE SECTION
Swivel light aluminium alloy head with pulley diameter 650mm	PXT001	PXT002
Steel head designed to carry wooden beams suitable crossing operations	PXT003	PXT004
Steel base	PXB005	PXB006

TESMEC



Monopole Ladders - TESMEC

Part No. SCP Series

Specifically designed for climbing circular or polygonal section poles. Standard lengths can be assembled to create the total length required. The ladder is made of light aluminium alloy, provided with anti-slip rungs and with special tracks for the anti-fall device.

- Perfect fit
- Sliding system

The ladder can be composed using the following elements:

Several standard sections:

- Quantity according to the total required height (SCP001)
- One self-supporting base for fixing the ladder to the pole without additional ground support (SCP003)

OR

- One self-supporting base section for fixing the ladder to the pole without additional ground support (SCP004)
- One terminal section, complete with anti-fall device, to be connected to any of the rungs of the last standard section, in order to adjust the final ladder length (SCP002)



Part No. SDA022

Anti-Fall device sold separately
See page J51 for details



Part No.	Description	Section Length (m)	WLL (kg)	Wt (kg)	Anti-Fall Device
SCP001	Standard section	2.5	100	6.6	SDA022 (not included)
SCP002	Terminal section	2.5	100	7	SDA022 (not included)
SCP003	Self-supporting base	-	100	5	-
SCP004	Self supporting base section	2.5	100	7	Use one of the standard section
SCP005	Working platform	-	100	1.2	-

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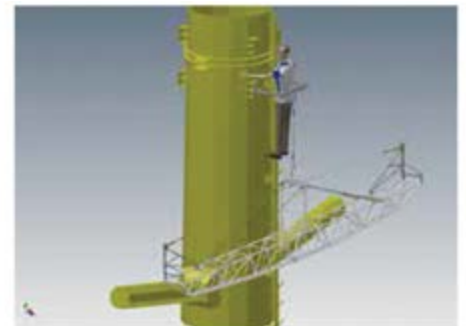


Support for working platform - TESMEC

Part No. ABS061

This equipment which is a support structure to connect a working platform onto the tower. It is provided with a self-support base and doesn't require anchoring devices on tower. It can be placed in every position on the tower. The device is designed to self adapt to the tower shape. It can support the weight of three operators.

Characteristics	
Working Load (kg)	500
Tower Dia. Range (mm)	450÷1700



Horizontal Ladder - TESMEC

Part No. SCA407

It's a device used to offer an easy passage from tower to the end of the tower's arms. It is provided with universal hook and a stabilizing system. The ladder is made of light aluminium alloy and can be detached in two section 3 + 1.5m

Characteristics	
Working Load (kg)	400
Length (m)	4.5 (3+1.5)

Transmission Overhead PPE, Tools & Accessories

Conductor Lifter Hook

Part No. DNS22-771

Each unit is tagged showing the safe working load, proof-test date, and an identifying serial number.
2,954kg (6,500 lb) safe working load.



Rescue Kit - Tower

Part No. TRRK

Example Components List

- Storage backpack yellow
- 65m rope with sewn eye and triplock karabiner
- FDU100 Rescue Descender with triplock karabiner
- 50mm x 1200mm anchor sling
- 25mm x 1200mm round sling
- Rescue knife with extender and 2 alloy triplock karabiner
- Mechanical advantage retrieval system
- Cervical collar (optional)



Components may vary depending on state or territory requirements.

Contact TEN with your Rescue Kit requirements

Wire Rope Slings 3.0T

Part No. Various

Superflex Steel Slings

- Supplied tested with NATA certificate
- Aluminium Ferrules
- 5:1 Safety Factor



Part No.	WLL (T)	Sling Length (m)
Four - 5-1	3.0	1.0
Four - 1.5	3.0	1.5
Five - 0-1	4.1	1.0
Five - 0-1.5	4.1	1.5
Five - 0-4	4.1	4.0
Five - 0-8	4.1	8.0

Soft Round Slings

Part No. Various

- Variable load bearing point for more even wear
- Ideal for choke lifting cylindrical objects
- Lifts smooth objects with out damage
- Lightweight and soft
- Reduced manual handling injuries
- High strength to weight ratio
- Load bearing fibres protected by the outer sleeve
- Tuff Tag webbing reinforced encapsulated compliance labels



Colour Code	Part No.	WLL (T)	Max Length (m)	Min Length (m)
	E1000	1	60	0.5
	E2000	2	60	0.5
	E3000	3	60	0.5
	E4000	4	60	1.0
	E5000	5	60	1.0
	E6000	6	60	1.0
	E8000	8	60	1.0

- Wide choice of lifting modes
- Certified to AS.4497

ACSR Strippers

Part No. PSC-1

The Trimmer quickly and accurately removes the aluminium stranding from around the steel core of ACSR conductors in preparation for crimping the steel inner strand.

Features

- Made of an aluminium alloy
- Lightweight and durable
- Operates like a Tube Cutter
- Carry Case stores 11 bushings
- Standard Bushing sizes available (Sold separately)
- Bushings can be made to suit a wide range of ACSR conductors



Bushing Holder



Bushing

Part No.	Kit Contains	Bushings to suit	Replacement Cutting Wheel #
PSC-1	Tool, bushing holder, (1) extra cutting wheel, and a plastic case that holds up to 11 bushings.	Cherry Grape Lemon Lychee Lime Mango Orange Olive Pawpaw	TE54270
TE****	Bushing for use with PSC-1, *conductor to be specified		-

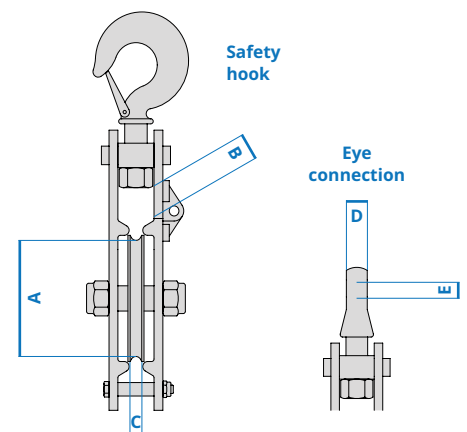
* Other size bushings available on request

PSC-2 Trimmer and Bushings available for larger size ACSR conductors
Please contact TEN for further information

Steel Service Snatch Blocks - TESMEC

Part No. CZA

- Wheels mounted on ball bearings
- Special models can be designed on demand



Steel Service Snatch Blocks Mod. CZA

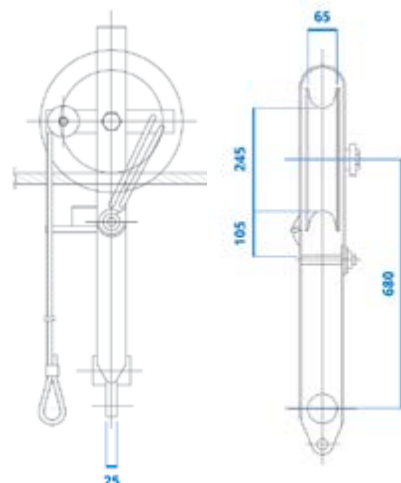
Swivel Connection (Closed)	Dimensions (mm)					Working Load (kN)	Weight (kg)	
	A	B	C	D	E		Safety hook connection	Eye Connection
CZA370	108	40	15	20	17	17	5	4.9
CZA033	138	40	15	27	21	21	8	8.5
CZA141	185	55	30	30	26	26	12	12

Anti-Lifting Automatic Release Pulley - TESMEC

Part No. CAA

The anti-lifting automatic release pulley is a special device that prevents the pulling rope lifting with respect to the theoretical line, specifically in case of towers with considerable height differences. It is equipped with an automatic release system to facilitate recovery operations. The wheel is made of galvanized steel and mounted on ball bearings; the pulley frame is made of galvanized steel.

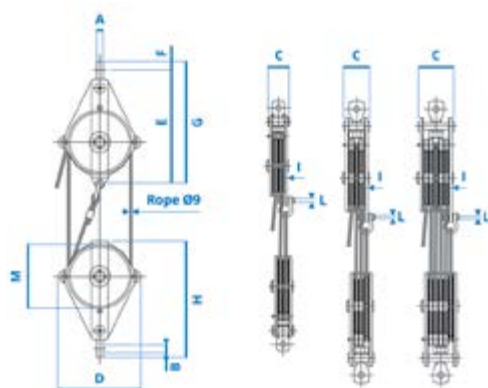
Working Load (kN)	27
Weight (kg)	20



Lifting Tackles

Part No. TAP Series

- The lifting tackles are suitable For Ø 9mm steel ropes
- The wheels are mounted on ball bearings
- The frame is made of galvanized steel
- Rope and swivel joint not included



Part No.	Working Load (m)											Pulling Force/ Lifting Load	Working Load (kN)	Wt (kg)
	A	B	C	D	E	F	G	H	I	L	M			
TAP001	22	20	67	242	333	20	353	331	8	10.5	180	1:4	30	17
TAP010	22	23	85	294	380	28	408	386	10	16	180	1:6	50	27
TAP020	22	26	120	294	405	35	440	415	10	10.5	180	1:10	80	42

Suitable rope FUZ009 (diameter 9mm). Suitable swivel GGT001

Hand Line Blocks

Part No. Various

- Hand rope blocks used for hauling and lifting
- Made of high strength aluminum alloy
- Side gate opening with detent pin
- High strength steel rotating swivel hook with safety latch
- Free running sheaves with shielded bearings

Part No.	Max Rope Ø (mm)	Sheave Size (mm)	Wt (kg)	WLL (kg)
SPP-HLB	14	75	1.4	560
AHB-4	22	100	2.8	1130



Zoom Sag Scope - TESMEC

Part No. TGP001

- Suitable for accurate conductor sag measurements.
- Equipped with a special anchoring support for steel tower.



Thermometers - TESMEC

Part No. TET060

The thermometers are made of an aluminium bulb reproducing the conductor's surface.



Part No.	Length (m)	Wt (indicative) (kg)
TET060	0.49	0.6 to 1.0

Diameter "d" of the conductor to be specified

Cover Joints - TESMEC

Part No. PG Series

The cover joints are specifically designed to protect the mid span joint, made at the "tensioner station", during conductor stringing operations.

The cover joints consist of two shells made of galvanized steel with shaped ends to house the rubber noses, which protect the mid span joint during the passage over the pulleys. The shells are coupled together by socket screws and the rubber noses are clipped together by belts.

Following data to be specified

- 1) Joint length after compression
- 2) Conductor diameter
- 3) The hexagon dimension of mid span joint after compression

Part No.	Length (m)	CH max (mm)	Max Dia (mm)	L Max (STD) ** (mm)	Working Load * (at the edges) (kN)
PGC	For pulley with 54 mm groove	28	18	600	2.5 to 5.0
PGS	For pulley with 68 mm groove	37	25	1000	4 to 6.5
PGM	For pulley with 68 mm groove	48	31.5	1050	2.0 to 5.0
PGL	For pulley with 95 mm groove	56	47	1300	Max 6.5
PGX	For pulley with 130 mm groove	82	54	2000	5.0

* Changes with length ** different lengths are available upon request

Refer Hydraulic Section for
Tescmec 100T Press
Part No. PRT510



EPZ - (Equipotential Zone)

Rolling / Running Earths

Part No. Various

- Consider Conductor OD & Fault Current Rating
- Earth Leads available on request
- Ideal for stringing and re-conductoring



MTR052
Lead Included



A78000
*Lead not Included



9738
*Lead not Included

Part No.	Description	Conductor OD (mm)	Download	Fault Rating (kA/sec)	Manufacturer
MTR052	Stringing Earth	Max 70	6m x 50mm ² CU	10/0.4	Tesmec
9738	Stringing Earth	4.1 to 28.5	*Sold separately	19.1/.05	Hastings
78000	Stringing Earth	3 to 41		25/0.5	Salisbury
A78000	Stringing Earth with 2 earth studs	3 to 41		25/0.5	Salisbury

*Contact TEN for your earth lead requirements

Equipotential Earth Mats - Kri-Tech

Part No. Various

The Kri-Tech Bond Mat System is designed and high voltage tested to protect workers who come in contact or have the potential for electrical contact.

- Establishes temporary equipotential zone during energised and de-energised work practices
- Portable, versatile and lightweight
- Prevents workers from being exposed to hazardous differences in electrical potential
- Non-slip black matting also available - ideal for use in wet environments

- Manufactured from high amperage tinned copper braid sewn into grid pattern onto vinyl/polyester fabric
- Suitable for a wide range of applications including:
- Making cable terminations on transformers and in cubicles
- Opening or closing overhead air breaks
- Working on control boxes of regulators, reclosers, capacitors, pad mounted switches
- Stringing Operations



Black Non-Slip Mat

Range of Stringing Earths (PEDs) available - Refer to Earthing, Jumpers and Switches section for further information

Part No.	Size (m)	Colour	Description
KTMNS5-5-1.5NT-A	1.5 x 1.5	Black (Non-slip)	Earth, mat, equipotential, 1.5m lead term to Screwdriver Clamp, Kri-Tech
KTM5-5-1.5NT-A	1.5 x 1.5	Orange	Earth, mat, equipotential, 1.5m lead term to Screwdriver clamp, Kri-Tech
KTM1010-2X1NT-A	3.0 x 3.0	Orange	Earth, mat, equipotential, 2 x 1 m leads term to Screwdriver clamp, Kri-Tech

Custom Sizes & Non-terminated Options available on request



Refer Storage Section for further information on Storage Bag options

Custom Stringing Machine Layouts Available





PEDs - Portable Earthing Devices

Commonly known as "Earth-sets, Earth-sticks, Earthing Devices, Portable Earthing Devices or PED's". These devices attach temporarily to de-energised conductors or contact points and a known earth.

PED's are safety devices that are type tested and manufactured to withstand the maximum fault current for the specific portion of the network being worked on in the event that the conductor or contact point becomes energised.

PED's are designed so that they provide enough time, usually several milliseconds to carry fault current long enough for a circuit breaker or fuse to interrupt the flow of current. Consult your local network or asset owner for applicable legislative requirements.



SCAN or CLICK the QR-Code to download the PED order form

Stick Kits - Hastings

Shotgun Stick Kit

Part No. 81-544

Hastings Shotgun sticks offer:

- Precision cast slide gives complete control and extra firm grip
- Full open side hook offers unobstructed view
- Hanger hook moulded into head
- Foam filled fibreglass main shaft
- Tested to ASTM F711 & OSHA
- Fixed shotguns tested to IEC 60855
- Solid fibreglass operating rod with guide
- Non-conductive polycarbonate head
- Customised versions available
- Hook release trigger shielded to avoid accidental operation
- Complete selection of fixed or sectional shogun kits available
- Complete range of adaptors and accessories and cleaning products



Refer to Fibreglass Equipment section for further information for a range of insulated sticks, kits & adaptors

Part No.	Length of Sections (mm)	No of Sections	Operating Lengths (m)	Description	Wt (kg)
81-544	1200	4	1.5 - 2.7 - 3.9 - 5.2	Sectional shotgun stick package complete with base, head, intermediate sections and carry case	7.1

Sectional Stick Kit

Part No. TENK010

- Customised stick kits made to customer specification or specific utility industry kits
- Below examples of Transmission Services kit



Component Part No.	Item Description	Qty in Kit
552-4	Stick Sectional Base 1.2m, 32mm OD	1
546-4	Stick Sectional Extension 1.2m, 32mm OD	3
A10012	Adaptor Male Universal Head 32mm	1
A30002	Hand Guard to Suit 32mm	1
AD06	AL Adaptor, 32mm Male Button to Female bayonet	1
RAWW176	Hand Cleaning Towelette - Disposable	5
10-188-1	Disposable Silicon Cleaning Wipe	5
10-090	Silicon Wiping Cloth	2
TENM302	Bag Sectional Kit, 4 x 1.2m & Acc Pock	1



Conductor Triple Line Lifters - LineWise

The phase lifters are an insulated crane attachment used to support up to three energised lines. The Triple Line Lifter replaces the need for temporary structures and tag lines while giving positive control of the live lines.

Features

- Hydraulic articulation, extension & retraction
- Quick Attach Insulators & Wire Holders
- Insulators lab tested
- Vertical and horizontal construction
- High Strength Steel fabrication
- Holding valves on all cylinders
- Manual override control valve
- Handheld Radio Remote Control
- Installed at Earth level
- Supplied with transportation storage skid and compartments for insulators, wire holders and pins

Triple Line Lifter - Max 1770kg

Part No. TLL-1300

The Triple Line Lifter 1300 is an insulated crane attachment used to support up to 3 energised lines. The TLL-1300 has a maximum capacity of 590kg per phase with a total capacity of 1770kg.

- For Transmission voltage from 66 to 220kV
- Conductor spacing: 1.98 – 4.42m
- Unit weight: 1340kgs
- Mounted in skid: 1680kgs

Voltage (kV)	Conductors	Phase spacing Max (mm)	Phase spacing Min (mm)	Capacity per phase / total (kg)
66	3	8939 Outside-Outside	3962 Outside-Outside	590/1770
110	3			590/1770
132	3	4420 Centre - Outside	1981 Centre - Outside	544/1633
220	3			Consult

Triple Line Lifter - Max 3408kg

Part No. TLL-2500

The Triple Line Lifter 2500 is an insulated crane attachment used to support up to 3 energised lines. The TLL-2500 has a max capacity of 1136kg per phase with a total capacity of 3408kg.

- For Transmission voltage from 110 to 330kV
- Conductor spacing: 3.05 – 7.3m
- Unit weight: 2730kgs
- Mounted in skid: 3410kgs



Handheld Remote

Voltage (kV)	Conductors	Phase spacing Max (mm)	Phase spacing Min (mm)	Capacity per phase / total (kg)
110	3	14630 Outside-Outside	6096 Outside-Outside	1136/3408
132	3			1136/3408
220	3	7315 Centre - Outside	3048 Centre - Outside	1136/3408
330	2			2270



TLL-1300 Packed for transport



Vertical and horizontal configurations



TLL-1300 Packed for transport



Vertical and horizontal configurations

