

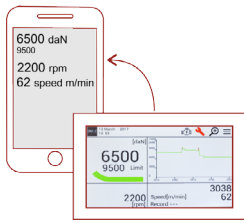


DEG EVOLUTION 4.0

THE LATEST AND MOST POWERFUL EVOLUTION FOR REMOTE MASTERING,
MONITORING AND LOCATING YOUR FLEET OF MACHINES

OMAC MACHINES HAVE ALWAYS BEEN EQUIPPED WITH BUILT-IN
DIGITAL READ OUT AND RECORDER (DEG)



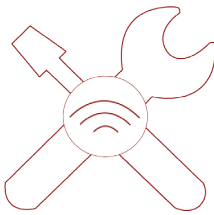
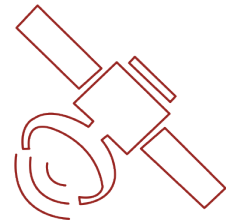


MIRRORING


- Built-in router generates a local WI-FI network (no data connection required)
- Display mirroring on smartphones
- Download recordings and machine settings on smartphones
- Unlimited WI-FI connections

GPS GEOLOCATION

- Built-in GPS allows remote access to real-time fleet position
- Cut insurance costs
 - Less theft risk

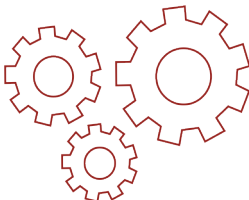
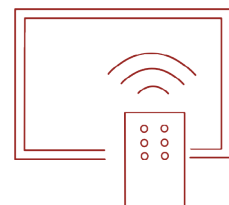


REMOTE MAINTENANCE & TROUBLESHOOTING

- Remote access to machine maintenance schedules
- Maintenance alerts
- Remote enabling or disabling of specific functions
-  will be supplied on all new 4.0 Omac machines as well as on the existing machines (on request)

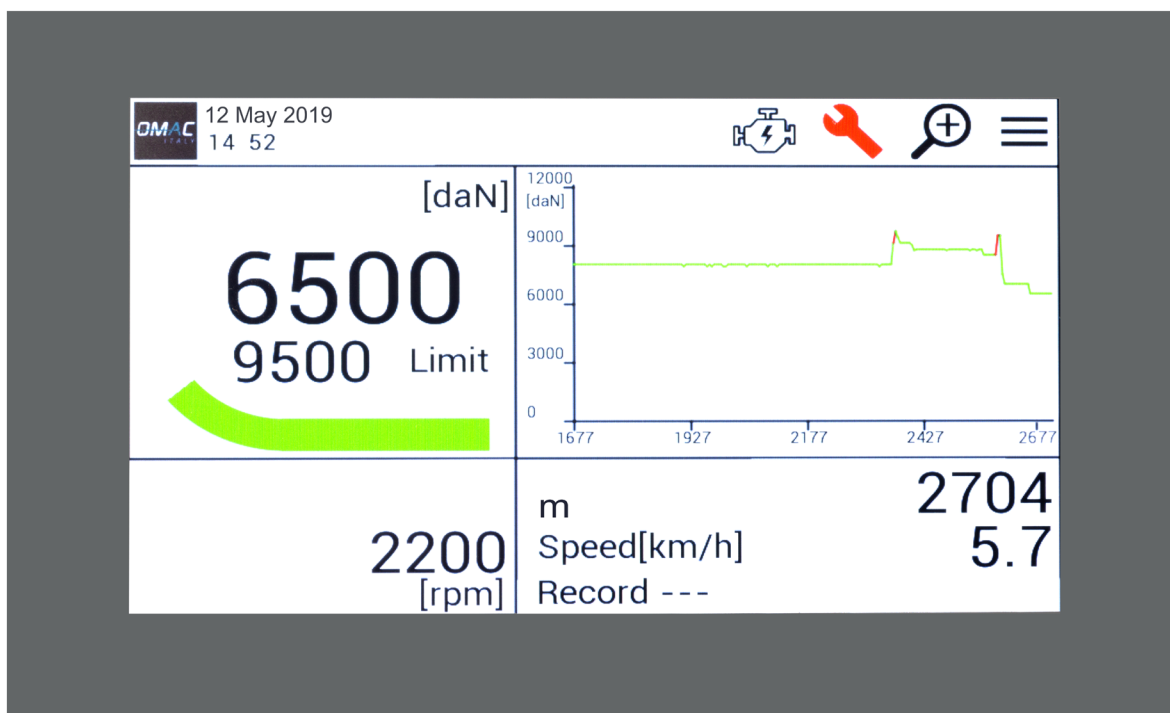
REMOTE MONITORING & DIAGNOSTIC

- Run-time machine remote working parameters reading
- Run-time machine remote diagnostics reading
- CAN port for remote monitoring of electronic diesel engine parameters



REMOTE PARAMETERS SETTING

- Machine remote parameters setting
- New firmware release update
- machine remote setup



DEG FEATURES

- Large-sized (7") color graphic display, built in the main control panel
- Resistive type glove-friendly touch-screen, intuitive as well as easy in setting-up and browsing through
- High capacity memory: over 200 km of line
- High accuracy and reliability by means of the load cell and encoder system
- USB port for data downloading/uploading
- Software provided to handle data stored

DEG FUNCTIONS

- Real-time reading and recording pulling force, speed and length of cable/conductor
- ZOOM mode
- Max pull force setting
- Display of working parameters (force, speed, distance covered and time elapsed)
- Help page on board
- Fuel level
- Electronic engine parameters
- Maintenance schedules and alerts
- Self-diagnostics upon machine start



RADIO REMOTE CONTROL

Radio remote control. Fit for “puller” and “puller-tensioner” machines with 1,2,3 or 4 hydraulic circuits.
Max operational distance: up to 100 m.

The radio-control is complete with:

- Mini joystick for controlling the capstans rotation
- Speed adjustment control (puller)
- Emergency stop button
- Back-up cable to connect the radio remote control to the machine in case of radio-failure

OPTIONAL DEVICES

- | | |
|----|--|
| 01 | Display to read the pulling force, metercounter and speedometer. |
| 02 | Engine start/stop. |
| 03 | Engine accelerator. |
| 04 | Tension force adjustment control (tensioner). |

MACHINES

INDEX

HYDRAULIC PULLERS

MODEL	CAPACITY	ROPES	HYDR. CIRCUIT	CAPSTANS Ø	GROOVES	ENGINE PWR
P50	50 kN	1	Single	400 mm	7	50 kW
P100	100 kN	1	Single	525 mm	9	110 kW
P160	160 kN	1	Single	700 mm	10	209 kW
P180	180 kN	1	Single	700 mm	10	209 kW

HYDRAULIC TENSIONERS

MODEL	CAPACITY	CONDUCTORS	HYDR. CIRCUIT	CAPSTANS Ø	GROOVES	ENGINE PWR
T40	40 kN	1	Single	1500 mm	6	26 kW
T80.2	80 kN	2	Single	1500 mm	10	26 kW
T80.22	80 kN	2	Double	1500 mm	12	55 kW
T120.2	120 kN	2	Single	1500 mm	12	55 kW
T140.22	140 kN	2	Double	1800 mm	12	55 kW
T160.4	160 kN	4	Single	1500 mm	16	55 kW

HYDRAULIC PULLER-TENSIONERS

MODEL	CAPACITY	ROPES/CONDUCTORS	HYDR. CIRCUIT	CAPSTANS Ø	GROOVES	ENGINE PWR
PT50	50 kN	1	Single	1500 mm	6	55 kW
PT100.2	100 kN	2	Single	1500 mm	10	105 kW
PT100.22	100 kN	2	Double	1500 mm	12	105 kW
PT140.4	140 kN	4	Single	1500 mm	16	130 kW
PT140.22	140 kN	2	Double	1800 mm	12	130 kW



01

HYDRAULIC PULLERS

P50

HYDRAULIC PULLER

Hydraulic puller fit to pull one rope in overhead stringing operations. One hydraulic circuit allows to continuously vary the speed in both directions.



**MAX
PULL
50 kN**



**MAX
SPEED
5 km/h**



**MAX
ROPE Ø
16 mm**



**CAPSTANS Ø
2 x 400 mm**

CONFIGURATION

- Multi-grooved steel capstans
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- Maintenance-free load cell reading system
- Electronic instrument by-pass
- Metallic soundproof cover with doors
- Radio control
- Automatic clamp for 1 rope
- Pull force setting device to maintain the pre-set force even at speed "0"
- Safety negative hydraulic brake
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic back stabilisers and manual front stabilisers
- Anchoring and lifting points
- Oil cooling system
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder
- Grounding connection point

FEATURES

Capstans	2 x Ø 400 mm
Capstan grooves	7
Max rope diameter	16 mm
Dimensions LxWxH	2,85x1,80x1,85 m
Weight (without rope)	2100 kg

PERFORMANCES

Max pull	50 kN
Speed at max pull	2,4 km/h
Max speed	5 km/h
Pull at max speed	20 kN

ENGINE

Feeding	diesel
Power	68 hp / 50 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

007	Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded)	107.1	GPS geolocation
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	047	Hydraulic front stabilisers
107	Remote monitoring and diagnostics	069.5	Printer with accessories
		083.1	Kit for underground laying operations
		174.1	Synchronising device for the connection of 2 machines to pull 2 ropes simultaneously, complete with cable-control (20 m)

P100

HYDRAULIC PULLER

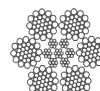
Hydraulic puller fit to pull one rope in overhead stringing operations. One hydraulic circuit allows to continuously vary the speed in both directions.



**MAX
PULL
100 kN**



**MAX
SPEED
5 km/h**



**MAX
ROPE Ø
21 mm**



**CAPSTANS Ø
2 x 525 mm**

CONFIGURATION

- Multi-grooved steel capstans
- **Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- **OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- Maintenance-free load cell reading system
- Electronic instrument by-pass
- Metallic soundproof cover with doors
- Radio control
- Automatic clamp for 1 rope
- Pull force setting device to maintain the pre-set force even at speed "0"
- Safety negative hydraulic brake
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic back and front stabilisers
- Anchoring and lifting points
- Oil cooling system
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder
- Grounding connection point

FEATURES

Capstans	2 x Ø 525 mm
Capstan grooves	9
Max rope diameter	21 mm
Dimensions LxWxH	3,70x2,15x2,10 m
Weight (without rope)	3900 kg

PERFORMANCES

Max pull	100 kN
Speed at max pull	2,5 km/h
Max speed	5 km/h
Pull at max speed	55 kN

ENGINE

Feeding	diesel
Power	150 hp / 110 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tires and lights for towing on the road (without homologation)	107	Remote monitoring and diagnostics
006.1	Lights for towing on the road	107.1	GPS geolocation
006.2	Pneumatic braking system	069.5	Printer with accessories
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	084	Bigger reelwinder fit for a 1900-mm-dia reel
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	115	Setting-up for pulling 2 ropes simultaneously
		014	Second reel-winder, ideal to complete the opt. 115
		174.1	Synchronising device for the connection of 2 machines to pull 2 ropes simultaneously, complete with cable-control (20 m)

P160

HYDRAULIC PULLER

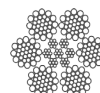
Hydraulic puller fit to pull one rope in overhead stringing operations. One hydraulic circuit allows to continuously vary the speed in both directions.



**MAX
PULL
160 kN**



**MAX
SPEED
5 km/h**



**MAX
ROPE Ø
24 mm**



**CAPSTANS Ø
2 x 700 mm**

CONFIGURATION

- Multi-grooved steel capstans
- **Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- **OLS Omac Link System (opt.107 and opt.107.1 excluded)**
- **Maintenance-free load cell reading system**
- **Electronic instrument by-pass**
- **Metallic soundproof cover with doors**
- **Radio control**
- **Automatic clamp for 1 rope**
- Pull force setting device to maintain the pre-set force even at speed "0"
- Safety negative hydraulic brake
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic back and front stabilisers
- Anchoring and lifting points
- Oil cooling system
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder
- Grounding connection point

FEATURES

Capstans	2 x Ø 700 mm
Capstan grooves	10
Max rope diameter	24 mm
Dimensions LxWxH	4,10x2,42x2,30 m
Weight (without rope)	6800 kg

PERFORMANCES

Max pull	160 kN
Speed at max pull	2,8 km/h
Max speed	5 km/h
Pull at max speed	105 kN

ENGINE

Feeding	diesel
Power	280 hp / 209 kW*
Cooling	water
Electric system	24 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tires and lights for towing on the road (without homologation)	107.1	GPS geolocation
006.1	Lights for towing on the road	069.5	Printer with accessories
006.2	Pneumatic braking system	084	Bigger reelwinder fit for a 1900-mm-dia reel
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	115	Setting-up for pulling 2 ropes simultaneously
107	Remote monitoring and diagnostics	014	Second reel-winder to complete opt.115
		174.1	Synchronising device for the connection of 2 machines to pull 2 ropes simultaneously, complete with cable-control (20 m)

P180

HYDRAULIC PULLER

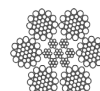
Hydraulic puller fit to pull one rope in overhead stringing operations. One hydraulic circuit allows to continuously vary the speed in both directions.



**MAX
PULL
180 kN**



**MAX
SPEED
5 km/h**



**MAX
ROPE Ø
28 mm**



**CAPSTANS Ø
2 x 700 mm**

CONFIGURATION

- Multi-grooved steel capstans
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- Maintenance-free load cell reading system
- Electronic instrument by-pass
- Metallic soundproof cover with doors
- Radio control
- Automatic clamp for 1 rope
- Pull force setting device to maintain the pre-set force even at speed "0"
- Safety negative hydraulic brake
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic back and front stabilisers
- Anchoring and lifting points
- Oil cooling system
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder
- Grounding connection point

FEATURES

Capstans	2 x Ø 700 mm
Capstan grooves	10
Max rope diameter	28 mm
Dimensions LxWxH	4,10x2,42x2,30 m
Weight (without rope)	7100 kg

PERFORMANCES

Max pull	180 kN
Speed at max pull	2,5 km/h
Max speed	5 km/h
Pull at max speed	105 kN

ENGINE

Feeding	diesel
Power	285 hp / 209 kW*
Cooling	water
Electric system	24 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tires and lights for towing on the road (without homologation)	107.1	GPS geolocation
006.1	Lights for towing on the road	069.5	Printer with accessories
006.2	Pneumatic braking system	084	Bigger reelwinder fit for a 1900-mm-dia reel
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	115	Setting-up for pulling 2 ropes simultaneously
107	Remote monitoring and diagnostics	014	Second reel-winder, ideal to complete the opt.115
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	174.1	Synchronising device for the connection of 2 machines to pull 2 ropes simultaneously, complete with cable-control (20 m)



02

HYDRAULIC TENSIONERS

T40

HYDRAULIC TENSIONER



Hydraulic tensioner fit to string one conductor or fiber optic cable. One hydraulic circuit allows to tension at constant force even when the stringing speed changes.



**MAX
TENSION
40 kN**



**MAX
SPEED
5 km/h**



**MAX
CONDUCTOR Ø
1 x 42 mm**



**CAPSTANS Ø
2 x 1500 mm**

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- Maintenance-free load cell reading system
- Electronic instrument by-pass
- Self-recovery device for sagging operations
- Metallic soundproof cover with doors
- Radio control
- Automatic clamp for 1 conductor
- Device to control low-force tensions (2-20 kN), specially fit for fibre-optic cables
- Safety negative hydraulic brake
- Two back fix conductor-drivers with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Mechanical front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- One auxiliary hydraulic circuit for additional equipment (1 reel winder or reel-stand)
- Grounding connection point

FEATURES

Capstans	2 x Ø 1500 mm
Capstan grooves	6
Max conductor diameter	1 x 42 mm
Dimensions LxWxH	3,95x2,10x2,20 m
Weight	3500 kg

PERFORMANCES

Max tension force	40 kN
Min tension force	2 kN
Max pull-back force	40 kN
Max speed	5 km/h

ENGINE

Feeding	diesel
Power	35 hp / 26 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tires and lights for towing on the road (homologation excluded)	107.1	GPS geolocation
006.4	Chassis arrangement for towing on the road (homologation excluded).	069.5	Printer with accessories, complete with accessories
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	174.2	Synchronising device for the connection of 2 machines complete with remote control by cable (20 m).
107	Remote monitoring and diagnostics	175.1	Kit for 2 conductors up to Ø max 34 mm
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	047.2	Hydraulic front plough
		048	Hydraulic back stabilisers

T80.2

HYDRAULIC TENSIONER



Hydraulic tensioner fit to string one or two conductors or fiber optic cables. One hydraulic circuit allows to tension at constant force even when the stringing speed changes.



**MAX
TENSION**
80 kN



**MAX
SPEED**
5 km/h



**MAX
CONDUCTOR Ø**
2 x 42 mm



CAPSTANS Ø
2 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- **Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- **OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- **Maintenance-free load cell reading system**
- **Electronic instrument by-pass**
- **Self-recovery device for sagging operations**
- **Metallic soundproof cover with doors**
- **Radio control**
- **Automatic clamp for 2 conductors**
- Device to control low-force tensions (2-25 kN), specially fit for fibre-optic cables
- Safety negative hydraulic brake
- Two back fix conductor-drivers with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Mechanical front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- One auxiliary hydraulic circuit for controlling 1 or 2 reel-stands
- Grounding connection point

FEATURES

Capstans	2 x Ø 1500 mm
Capstan grooves	10
Max conductor diameter	2 x 42 mm
Dimensions LxWxH	3,95x2,10x2,20 m
Weight	3500 kg

PERFORMANCES

Max tension force	80 kN
Min tension force	2 kN
Max pull-back force	80 kN
Max speed	5 km/h

ENGINE

Feeding	diesel
Power	35 hp / 26 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tires and lights for towing on the road (homologation excluded)	107.1	GPS geolocation
006.4	Chassis arrangement for towing on the road (homologation excluded)	069.5	Printer with accessories, complete with accessories
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	174.2	Synchronising device for the connection of 2 machines complete with remote control by cable (20 m).
107	Remote monitoring and diagnostics	175.1	Kit for 3 conductors up to Ø max 34 mm
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	047.2	Hydraulic front plough
		048	Hydraulic back stabilisers

T80.22

HYDRAULIC TENSIONER




Hydraulic tensioner fit to string one or two conductors.

Two hydraulic circuits allow to tension at constant force even when stringing speed changes. The two circuits can be used independently or simultaneously, with automatic forces partition. Equipped with engine for pull-back performances. In pull-back mode, two hydraulic circuits allow to continuously vary the speed in both directions, allowing to use one of the hydraulic circuits or both of them matched.

MAX TENSION	MAX SPEED	MAX CONDUCTOR Ø	CAPSTANS Ø
80 kN (2x40 kN)	5 km/h	2 x 42 mm	4 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- Maintenance-free load cell reading system**
- Electronic instrument by-pass**
- Self-recovery device for sagging operations**
- Metallic soundproof cover with doors**
- Radio control**
- Automatic clamp for 2 conductors**
- Two safety negative hydraulic brakes
- Device to control low-force tensions (2-20 kN), specially fit for fibre-optic cables on 2 circuits
- Back fix conductor-drivers with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Device for coupling the two pairs of capstans
- Two auxiliary hydraulic circuits for controlling 1 or 2 reel-stands independently
- Grounding connection point

FEATURES

Capstans	4 x Ø 1500 mm
Capstan grooves	12 (6+6)
Max conductor diameter	2 x 42 mm
Dimensions LxWxH	4,50x2,25x2,80 m
Weight	5500 kg

PERFORMANCES

Max tension force	1 x 80 kN or 2 x 40 kN
Max pull-back force	1 x 80 kN or 2 x 40 kN
Max speed	5 km/h

ENGINE

Feeding	diesel
Power	75 hp / 55 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

005.1	Chassis with 2 damped axles (tandem), air braking system and lights.	107.1	GPS geolocation
008	Damped axle, air brake, drawbar and lights.	028.7	Device to start the diesel engine at low temperatures (up to -30°C)
006.4	Chassis arrangement for towing on the road (homologation excluded)	069.5	Printer with accessories.
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	174.2	Synchronising device for the connection of 2 machines complete with remote control by cable (20 m).
107	Remote monitoring and diagnostics		

T120.2

HYDRAULIC TENSIONER



Hydraulic tensioner fit to string one or two conductors or fiber optic cables. One hydraulic circuit allows to tension at constant force even when the stringing speed changes.



**MAX
TENSION**
120 kN



**MAX
SPEED**
5 km/h




**MAX
CONDUCTOR Ø**
2 x 42 mm



CAPSTANS Ø
2 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- **Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- **Maintenance-free load cell reading system**
- **Electronic instrument by-pass**
- **Self-recovery device for sagging operations**
- **Metallic soundproof cover with doors**
- **Radio control**
- **Automatic clamp for 2 conductors**
- Safety negative hydraulic brake
- Back fix conductor-drivers with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Device for coupling the two pairs of capstans
- Two auxiliary hydraulic circuits for controlling 1 or 2 reel-stands independently
- Grounding connection point

FEATURES

Capstans	4 x Ø 1500 mm
Capstan grooves	12
Max conductor diameter	2 x 42 mm
Dimensions LxWxH	4,50x2,25x2,80 m
Weight	5500 kg

PERFORMANCES

Max tension force	1 x 120 kN
Max pull-back force	1 x 120 kN
Max speed	5 km/h

ENGINE

Feeding	diesel
Power	75 hp / 55 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES





005.1	Chassis with 2 damped axles (tandem), air braking system and lights.	107.1	GPS geolocation
008	Damped axle, air brake, drawbar and lights.	028.7	Device to start the diesel engine at low temperatures (up to -30°C)
006.4	Chassis arrangement for towing on the road (homologation excluded)	069.5	Printer with accessories.
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	174.2	Synchronising device for the connection of 2 machines complete with remote control by cable (20 m).
107	Remote monitoring and diagnostics	175.1	Kit for 3 conductors up to Ø max 34 mm

T140.22


HYDRAULIC TENSIONER



Hydraulic tensioner fit to string one or two conductors. Two hydraulic circuits allow to tension at constant force even when stringing speed changes. The two circuits can be used independently or simultaneously, with automatic forces partition. Equipped with engine for pull-back performances. In pull-back mode, two hydraulic circuits allow to continuously vary the speed in both directions, allowing to use one of the hydraulic circuits or both of them matched.

			
MAX TENSION	MAX SPEED	MAX CONDUCTOR Ø	CAPSTANS Ø
140 kN (2x70 kN)	5 km/h	2 x 51 mm	4 x 1800 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- Maintenance-free load cell reading system**
- Electronic instrument by-pass**
- Self-recovery device for sagging operations**
- Metallic soundproof cover with doors**
- Radio control**
- Automatic clamp for 2 conductors**
- Two safety negative hydraulic brakes
- Back fix conductor-drivers with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Device for coupling the two pairs of capstans
- Two auxiliary hydraulic circuits for controlling 1 or 2 reel-stands independently
- Grounding connection point

FEATURES

Capstans	4 x Ø 1800 mm
Capstan grooves	12 (6+6)
Max conductor diameter	2 x 51 mm
Dimensions LxWxH	4,50x2,25x2,80 m
Weight	7700 kg

PERFORMANCES

Max tension force	1 x 140 kN or 2 x 70 kN
Max pull-back force	1 x 140 kN or 2 x 70 kN
Max speed	5 km/h

ENGINE

Feeding	diesel
Power	75 hp / 55 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

005.1	Chassis with 2 damped axles (tandem), air braking system and lights.	107.1	GPS geolocation
008	Damped axle, air brake, drawbar and lights.	028.7	Device to start the diesel engine at low temperatures (up to -30°C).
006.4	Chassis arrangement for towing on the road (homologation excluded)	069.5	Printer with accessories.
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	174.2	Synchronising device for the connection of 2 machines complete with remote control by cable (20 m).
107	Remote monitoring and diagnostics		

T160.4

HYDRAULIC TENSIONER



Hydraulic tensioner fit to string 1, 2, 3 or 4 (up to 6 on demand) conductors. One hydraulic circuit allows to tension at constant force even when stringing speed changes. Equipped with engine for pull-back performances.



MAX
TENSION
160 kN



MAX
SPEED
5 km/h



MAX
CONDUCTOR Ø
4 x 42 mm



CAPSTANS Ø
2 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- **Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- **OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- Maintenance-free load cell reading system
- Electronic instrument by-pass
- Self-recovery device for sagging operations
- Metallic soundproof cover with doors
- Radio control
- Automatic clamp for 4 conductors
- Safety negative hydraulic brake
- Back fix conductor-drivers with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Two auxiliary hydraulic circuits for controlling up to 4 reel-stands (not independent)
- Grounding connection point

FEATURES

Capstans	2 x Ø 1500 mm
Capstan grooves	16
Max conductor diameter	4 x 42 mm
Dimensions LxWxH	4,50x2,30x2,80 m
Weight	7800 kg

PERFORMANCES

Max tension force	160 kN
Max pull-back force	160 kN
Max speed	5 km/h

ENGINE

Feeding	diesel
Power	75 hp / 55 kW*
Cooling	water
Electric system	24 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

005.1	Chassis with 2 damped axles (tandem), air braking system and lights.	107.1	GPS geolocation
008	Damped axle, air brake, drawbar and lights.	020.3	Set of nylon sectors with grooves fit for 6 conductors Ømax 31,5 mm (instead of standard set), and 2 additional hydraulic circuits to control 2 extra reel-stands (total 6).
006.4	Chassis arrangement for towing on the road (homologation excluded)	028.7	Device to start the diesel engine at low temperatures (up to -30°C).
012	Predisposition of one hydraulic circuit to feed a press for high pressure joints (max. 700 bar).	069.5	Printer with accessories.
107	Remote monitoring and diagnostics	174.2	Synchronising device for the connection of 2 machines complete with remote control by cable (20 m).

A large, semi-transparent red circle is positioned behind the text, partially overlapping the words 'HYDRAULIC' and 'PULLER-TENSIONERS'.

03 **HYDRAULIC PULLER-TENSIONERS**

PT50


HYDRAULIC PULLER -TENSIONER



Hydraulic machine designed to operate both as a tensioner and as puller, fit to string one rope or conductor.
One hydraulic circuit allows to tension at constant force even when stringing speed changes. In puller mode, one hydraulic circuit allows to continuously vary the speed in both directions.

MAX PULL-TENSION	MAX SPEED	MAX ROPE / COND.Ø	CAPSTANS Ø
50 kN	5 km/h	16 mm / 42 mm	2 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- **Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- **Maintenance-free load cell reading system**
- **Electronic instrument by-pass**
- **Self-recovery device for sagging operations**
- **Metallic soundproof cover with doors**
- **Radio control**
- **Automatic clamp for 1 rope/conductor**
- Pull-force setting to maintain the pre-set force even at speed "0"
- Device to control low-force tensions (2-25 kN), fit for OPGW
- Safety negative hydraulic brake
- Back fix conductor-driver with nylon rollers
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- One auxiliary hydraulic circuit for additional equipment (1 reel-winder or reel-stand)
- Grounding connection point

FEATURES

Capstans	2 x Ø 1500 mm
Capstan grooves	6
Max conductor diameter	42 mm
Max rope diameter	16 mm
Dimensions LxWxH	3,95x2,00x2,20 m
Weight	3600 kg

PERFORMANCES

Max pull / tension	50 kN
Speed at max pull	2,3 km/h
Max speed	5 km/h
Pull at max speed	22 kN

ENGINE

Feeding	diesel
Power	75 hp / 55 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES





008	Damped axle, air braking system, drawbar and lights	107.1	GPS geolocation
012	Hydraulic circuit to feed a press for high pressure joints (max. 700 bar)	028.7	Device to start the diesel engine at low temperatures (up to -30°C).
006.4	Chassis arrangement for towing on the road (homologation excluded)	069.5	Printer with accessories.
107	Remote monitoring and diagnostics	119	Capstans with steel grooves chemically treated.
014	Reel-winder arm fit for a 1400-mm-dia.reel	175.1	Kit for 2 conductors up to Ø max 31 mm

PT100.2


HYDRAULIC PULLER - TENSIONER



Hydraulic machine designed to operate both as a tensioner and as puller, fit to string one or two ropes or conductors. One hydraulic circuit allows to tension at constant force even when stringing speed changes. In puller mode, one hydraulic circuit allows to continuously vary the speed in both directions.

			
MAX PULL-TENSION	MAX SPEED	MAX ROPE / COND.Ø	CAPSTANS Ø
100 kN	5 km/h	21 mm / 2 x 42 mm	2 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- Maintenance-free load cell reading system**
- Electronic instrument by-pass**
- Self-recovery device for sagging operations**
- Metallic soundproof cover with doors**
- Radio control**
- Automatic clamp for 2 ropes/conductors**
- Pull-force setting to maintain the pre-set force even at speed "0"
- Device to control low-force tensions (4-30 kN), fit for OPGW
- Safety negative hydraulic brake
- Back fix conductor-driver with nylon rollers for 2 conductors
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Two auxiliary hydraulic circuits for additional equipment (1 or 2 reel-winders or reel-stands)
- Grounding connection point

FEATURES

Capstans	2 x Ø 1500 mm
Capstan grooves	10
Max conductor diameter	2 x 42 mm
Max rope diameter	21 mm
Dimensions LxWxH	4,00x2,25x2,30 m
Weight	5000 kg

PERFORMANCES

Max pull / tension	100 kN
Speed at max pull	2,4 km/h
Max speed	5 km/h
Pull at max speed	46 kN

ENGINE

Feeding	diesel
Power	150 hp / 110 kW*
Cooling	water
Electric system	12 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES





008	Damped axle, air braking system, drawbar and lights	107.1	GPS geolocation
006.4	Chassis arrangement for towing on the road (homologation excluded)	028.7	Device to start the diesel engine at low temperatures (up to -30°C).
012	Hydraulic circuit to feed a press for high pressure joints (max. 700 bar)	069.5	Printer with accessories.
014	Reel-winder arm fit for a 1600-mm-dia.reel	119	Capstans with steel grooves chemically treated.
107	Remote monitoring and diagnostics	174.2	Synchronising device for the connection of 2 machines, complete with remote control by cable (20 m).
		175.1	Kit for 3 conductors up to Ø max 34 mm

PT100.22


HYDRAULIC PULLER -TENSIONER



Hydraulic machine designed to operate both as a tensioner and as puller, fit to string one or two ropes or conductors. Two hydraulic circuits allow to tension at constant force even varying the speed of stringing. The two circuits can be used independently or simultaneously, with automatic forces partition. In puller mode, 2 closed hydraulic circuits allow to vary the speed in both directions, allowing to use one of the hydraulic circuits or both of them matched.

			
MAX PULL-TENSION	MAX SPEED	MAX ROPE / COND.Ø	CAPSTANS Ø
100 kN (2x50 kN)	5 km/h	21 mm / 2 x 42 mm	4 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- Maintenance-free load cell reading system**
- Electronic instrument by-pass**
- Self-recovery device for sagging operations**
- Metallic soundproof cover with doors**
- Radio control**
- Automatic clamp for 2 ropes/conductors**
- Pull-force setting to maintain the pre-set force even at speed "0"
- Two safety negative hydraulic brakes
- Back fix conductor-driver with nylon rollers for 2 conductors
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Devices for coupling the two pairs of the capstans
- Two auxiliary hydraulic circuits for additional equipment (1 or 2 reel-winders or reel-stands)
- Grounding connection point

FEATURES

Capstans	4 x Ø 1500 mm
Capstan grooves	12 (6+6)
Max conductor diameter	2 x 42 mm
Max rope diameter	21 mm
Dimensions LxWxH	4,50x2,25x2,80 m
Weight	6200 kg

PERFORMANCES

Max pull / tension	1 x 100 kN or 2 x 50 kN
Speed at max pull	2,5 km/h
Max speed	5 km/h
Pull at max speed	2 x 22,5 kN

ENGINE

Feeding	diesel
Power	150 hp / 110 kW*
Cooling	water
Electric system	24 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES





005.1	Chassis with 2 damped axles (tandem), air braking system and lights	107.1	GPS geolocation
008	Damped axle, air braking system, drawbar and lights	014	Reel-winder arm fit for a 1600-mm-dia. reel (1 or 2)
006.4	Chassis arrangement for towing on the road (homologation excluded)	028.7	Device to start the diesel engine at low temperatures (up to -30°C)
012	Hydraulic circuit to feed a press for high pressure joints (max. 700 bar)	069.5	Printer with accessories
017	Hydraulic/mechanical device (2 circuits) to control low tension values (2-25 kN), fit to string fiber optics	119	Capstans with steel grooves chemically treated
107	Remote monitoring and diagnostics	174.2	Synchronising device for the connection of 2 machines, complete with remote control by cable (20 m)

PT140.4


HYDRAULIC PULLER -TENSIONER



Hydraulic machine designed to operate both as a tensioner and as puller, fit to string 1, 2, 3 or 4 ropes or conductors. One hydraulic circuit allows to tension at constant force even when stringing speed changes. In puller mode, one hydraulic circuit allows to continuously vary the speed in both directions.

			
MAX PULL-TENSION	MAX SPEED	MAX ROPE / COND.Ø	CAPSTANS Ø
140 kN	4,5 km/h	25 mm / 4 x 42 mm	2 x 1500 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
-  **Omac Link System (opt.107 and opt.107.1 excluded)**
- Maintenance-free load cell reading system**
- Electronic instrument by-pass**
- Self-recovery device for sagging operations**
- Metallic soundproof cover with doors**
- Radio control**
- Automatic clamp for 4 ropes/conductors**
- Pull-force setting to maintain the pre-set force even at speed "0"
- Safety negative hydraulic brake
- Back fix conductor-driver with nylon rollers for 4 conductors
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Four auxiliary hydraulic circuits for additional equipment (4 reel-winders or reel-stands)
- Grounding connection point

FEATURES

Capstans	2 x Ø 1500 mm
Capstan grooves	16
Max conductor diameter	4 x 42 mm
Max rope diameter	25 mm
Dimensions LxWxH	4,50x2,30x2,80 m
Weight	8500 kg

PERFORMANCES

Max pull / tension	140 kN
Speed at max pull	4,5 km/h
Max speed	4 km/h
Pull at max speed	55 kN

ENGINE

Feeding	diesel
Power	175 hp / 130 kW*
Cooling	water
Electric plant	24 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

005.1	Chassis with 2 damped axles (tandem), air braking system and lights	107.1	GPS geolocation
008	Damped axle, air braking system, drawbar and lights	069.5	Printer with accessories
006.4	Chassis arrangement for towing on the road (homologation excluded)	119	Capstans with steel grooves chemically treated
014	Reel-winder arm fit for a 1600-mm-dia. reel (1 or 2)	174.2	Synchronising device for the connection of 2 machines, complete with remote control by cable (20 m)
028.7	Device to start the diesel engine at low temperatures (up to -30°C)	020.3	Set of nylon sectors with grooves fit for 6 conductors Ømax 31,5 mm (instead of standard set), and 2 additional hydraulic circuits to control 2 extra reel-stands (total 6).
107	Remote monitoring and diagnostics		

PT140.22

HYDRAULIC PULLER -TENSIONER



Hydraulic machine designed to operate both as a tensioner and as puller, fit to string one or two ropes or conductors.

Two hydraulic circuits allows to tension at constant force even when stringing speed changes. The two circuits can be used independently or simultaneously, with automatic forces partition. In puller mode, 2 closed hydraulic circuits allow to vary the speed in both directions, allowing to use one of the hydraulic circuits or both of them matched.

MAX PULL-TENSION	MAX SPEED	MAX ROPE / COND.Ø	CAPSTANS Ø
140 kN (2x70 kN)	5 km/h	25 mm / 2 x 51 mm	4 x 1800 mm

CONFIGURATION

- Steel capstans lined with multi-grooved nylon sectors
- Built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port**
- OLS** Omac Link System (opt.107 and opt.107.1 excluded)
- Maintenance-free load cell reading system**
- Electronic instrument by-pass**
- Self-recovery device for sagging operations**
- Metallic soundproof cover with doors**
- Radio control**
- Automatic clamp for 2 ropes/conductors**
- Pull-force setting to maintain the pre-set force even at speed "0"
- Two safety negative hydraulic brakes
- Back fix conductor-driver with nylon rollers for 2 conductors
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site
- Hydraulic front plough and back stabilisers
- Anchoring and lifting points
- Oil cooling system
- Two auxiliary hydraulic circuits for additional equipment (1 or 2 reel-winders or reel-stands)
- Grounding connection point

FEATURES

Capstans	4 x Ø 1800 mm
Capstan grooves	12 (6+6)
Max conductor diameter	2 x 51 mm
Max rope diameter	25 mm
Dimensions LxWxH	4,60x2,50x3,00 m
Weight	9500 kg

PERFORMANCES

Max pull / tension	1 x 140 kN or 2 x 70 kN
Speed at max pull	2 km/h
Max speed	5 km/h
Pull at max speed	2 x 25 kN

ENGINE

Feeding	diesel
Power	175 hp / 130 kW*
Cooling	water
Electric system	24 V

* According to the EC directive 97/68/CE with subsequent amendments and additions

OPTIONAL DEVICES

005.1	Chassis with 2 damped axles (tandem), air braking system and lights	107.1	GPS geolocation
008	Damped axle, air braking system, drawbar and lights	028.7	Device to start the diesel engine at low temperatures (up to -30°C)
006.4	Chassis arrangement for towing on the road (homologation excluded)	069.5	Printer with accessories
012	Hydraulic circuit to feed a press for high pressure joints (max. 700 bar)	119	Capstans with steel grooves chemically treated
014	Reel-winder arm fit for a 1600-mm-dia. reel (1 or 2)	174.2	Synchronising device for the connection of 2 machines, complete with remote control by cable (20 m)
107	Remote monitoring and diagnostics		