



SPECIALISED FORCE

**HYDRAULIC TOOLS &
SPECIALISED ELECTRICAL EQUIPMENT**



OMAC UG CABLE HAULING MACHINES



THE LINK I LIKE

OMAC
ITALY
SINCE 1954



FULL-ELECTRIC PULLER

CABLE LAYING

MODEL	CAPACITY	MAX ROPE CAPACITY
UP50-E	50 kN	Ø 12 mm x 1000 m

HYDRAULIC PULLERS

CABLE LAYING

MODEL	CAPACITY	MAX ROPE CAPACITY
UP30	30 kN	Ø 8 mm x 1000 m
UP40	40 kN	Ø 10 mm x 1000 m
UP50	50 kN	Ø 12 mm x 1000 m

CABLE LAYING & PIPE RENEWAL

MODEL	CAPACITY	MAX ROPE CAPACITY
UP100.B	100 kN	Ø 14 mm x 1100 m
UP100	100 kN	Ø 16 mm x 1000 m
UP150	150 kN	Ø 18 mm x 600 m
UP200	200 kN	Ø 22 mm x 1000 m
UP400	400 kN	Ø 32 mm x 1000 m
UP600	600 kN	Ø 38 mm x 700 m

ULTRA DISTANCE HYDRAULIC PULLERS

CABLE LAYING

MODEL	CAPACITY	MAX ROPE CAPACITY
P20.U	20 kN	Over 1000 m
P30.U	30 kN	Over 1000 m
P50.U	50 kN	Over 1000 m

CABLE LAYING & PIPE RENEWAL

MODEL	CAPACITY	MAX ROPE CAPACITY
P100.U	100 kN	Over 1000 m
P150.U	150 kN	Over 1000 m
P200.U	200 kN	Over 1000 m
P400.U	400 kN	Over 1000 m
P600.U	600 kN	Over 1000 m

RECOVERING HYDRAULIC PULLER

CABLE RECOVERING

MODEL	CAPACITY	MAX CABLE DIAMETER
UPR100	100 kN	Ø 80 mm

HYDRAULIC CABLE PUSHER

CABLE LAYING

MODEL	CAPACITY	MAX CABLE DIAMETER
F224	8 - 12 kN	Ø 150 mm

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SPECIALISED FORCE

HYDRAULIC TOOLS &
SPECIALISED ELECTRICAL EQUIPMENT

OMAC
ITALY

UP50-E

Full Electric Underground Puller

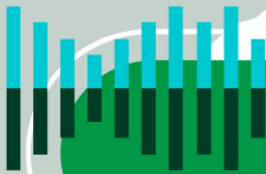
CO₂

ZERO EMISSIONS

ZERO POLLUTION



ZERO NOISE



100% GREEN



ZERO MAINTENANCE



100% SAFE



FULL-ELECTRIC PULLER

www.specialisedforce.com.au

FULL-ELECTRIC PULLER



UP50-E MAX PULL 50 kN

Full-electric puller 50 kN. Fit to pull one rope in laying underground transmission cables and fibre optics wires.
Zero emission, zero noise and 100% green.



FEATURES

CAPSTANS	2 x Ø 215 mm
MAX ROPE DIAMETER	14 mm
DIMENSIONS L x W x H	3880 x 1820 x 1640 mm
WEIGHT (WITHOUT ROPE)	1600 kg

PULL PERFORMANCES

MAX PULL	50 kN
SPEED AT MAX PULL	6 m/min
MAX SPEED	50 m/min

REEL

CAPACITY OF STEEL ROPE:	
Ø 14 mm	800 m
Ø 12 mm	1000 m
Ø 10 mm	1500 m

ELECTRIC POWER UNIT

FEEDING	lithium-ion battery (LiFePO ₄)
CAPACITY	battery pack 200 Ah
BATTERY VOLTAGE	48 V
RECHARGE	4 H @ 230 V single-phase

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- On-Board charger 230 V/48 V single-phase complete with 5 m of cable and plug
- Fully openable cover in composite material
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with single damped axle, adjustable towing bar, overrun braking system and lights fit for towing on roads (homologation-registration excluded)
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 092.8** Additional Lithium-Ion battery pack. Capacity = 200 Ah
- 092.9** Lithium-Ion battery pack. Capacity = 400 Ah. To be ordered with the puller.
- 092.11** 400 V/48 V three-phase battery charger. Separately supplied in alternative to the standard one. Complete with 5 m cable and plug.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.
- 069.5** Printer with accessories

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

HYDRAULIC PULLER

UP30 MAX PULL 30 kN

Hydraulic puller 30 kN. Fit to pull one rope in laying underground transmission cables and fibre optics wires.

-  **MAX PULL**
30 kN
-  **MAX SPEED**
60 m/min
-  **MAX ROPE**
10 mm
-  **CAPSTANS**
2 x Ø200 mm



FEATURES

CAPSTANS	2 x Ø 200 mm
MAX ROPE DIAMETER	10 mm
DIMENSIONS L x W x H	3450 x 1530 x 1474 mm
WEIGHT (WITHOUT ROPE)	1250 kg

PULL PERFORMANCES

MAX PULL	30 kN
SPEED AT MAX PULL	16 m/min
MAX SPEED	60 m/min
PULL AT MAX SPEED	5 kN

REEL

CAPACITY OF STEEL ROPE:	
Ø 8 mm	1000 m
Ø 10 mm	700 m

ENGINE

FEEDING	Diesel
POWER	18,8 kW / 18,8 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with single damped axle, adjustable towing bar, overrun braking system and lights fit for towing on roads (homologation-registration excluded)
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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

HYDRAULIC PULLER

UP40 MAX PULL 40 kN

Hydraulic puller 40 kN. Fit to pull one rope in laying underground transmission cables and fibre optics wires.

	MAX PULL 40 kN
	MAX SPEED 65 m/min
	MAX ROPE 12 mm
	CAPSTANS 2 x Ø 215 mm



FEATURES

CAPSTANS	2 x Ø 215 mm
MAX ROPE DIAMETER	12 mm
DIMENSIONS L x W x H	3450 x 1530 x 1474 mm
WEIGHT (WITHOUT ROPE)	1250 kg

PULL PERFORMANCES

MAX PULL	40 kN
SPEED AT MAX PULL	12 m/min
MAX SPEED	65 m/min
PULL AT MAX SPEED	5 kN

REEL

CAPACITY OF STEEL ROPE:	
Ø 8 mm	1300 m
Ø 10 mm	1000 m
Ø 12 mm	700 m

ENGINE

FEEDING	Diesel
POWER	18,8 kW / 18,8 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Fully openable cover in composite material
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with single damped axle, adjustable towing bar, overrun braking system and lights fit for towing on roads (homologation-registration excluded)
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
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HYDRAULIC PULLER

UP50

MAX PULL 50 KN

Hydraulic puller 50 kN. Fit to pull one rope in laying underground transmission cables and fibre optics wires.

- MAX PULL**
50 kN
- MAX SPEED**
80 m/min
- MAX ROPE**
14 mm
- CAPSTANS**
2 x Ø 215 mm



FEATURES

CAPSTANS	2 x Ø 215 mm
MAX ROPE DIAMETER	14 mm
DIMENSIONS L x W x H	3880 x 1820 x 1640 mm
WEIGHT (WITHOUT ROPE)	1700 kg

PULL PERFORMANCES

MAX PULL	50 kN
SPEED AT MAX PULL	13 m/min
MAX SPEED	80 m/min
PULL AT MAX SPEED	8 kN

REEL

CAPACITY OF STEEL ROPE:	
Ø 14 mm	800 m
Ø 12 mm	1000 m
Ø 10 mm	1500 m

ENGINE

FEEDING	Diesel
POWER	26 kW / 36 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Fully openable cover in composite material
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with single damped axle, adjustable towing bar, overrun braking system and lights fit for towing on roads (homologation-registration excluded)
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
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HYDRAULIC PULLER

UP100.B MAX PULL 100 kN

Hydraulic puller 100 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

	MAX PULL 100 kN
	MAX SPEED 50 m/min
	MAX ROPE 16 mm
	CAPSTANS 2 x Ø 300 mm



FEATURES

CAPSTANS	2 x Ø 300 mm
MAX ROPE DIAMETER	16 mm
DIMENSIONS L x W x H	4385 x 1760 x 1615 mm
WEIGHT (WITHOUT ROPE)	2300 kg

PULL PERFORMANCES

MAX PULL	100 kN
SPEED AT MAX PULL	10 m/min / 12,5 m/min *
MAX SPEED	50 m/min
PULL AT MAX SPEED	20 kN / 25 kN *

REEL

CAPACITY OF STEEL ROPE:	
Ø 16 mm	850 m
Ø 14 mm	1100 m
Ø 12 mm	1500 m

ENGINE

FEEDING	Diesel
POWER	31 kW / 42 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with tandem damped axle, adjustable towing bar, overrun braking system and lights fit for towing on roads (homologation-registration excluded)
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
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HYDRAULIC PULLER

UP100

MAX PULL 100 kN

Hydraulic puller 100 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

-  **MAX PULL**
100 kN
-  **MAX SPEED**
30 m/min
-  **MAX ROPE**
18 mm
-  **CAPSTANS**
2 x Ø 350 mm



FEATURES

CAPSTANS	2 x Ø 350 mm
MAX ROPE DIAMETER	18 mm
DIMENSIONS L x W x H	5140 x 1985 x 1975 mm
WEIGHT (WITHOUT ROPE)	3100 kg

PULL PERFORMANCES

MAX PULL	100 kN
SPEED AT MAX PULL	12 m/min / 16 m/min *
MAX SPEED	30 m/min
PULL AT MAX SPEED	40 kN / 50 kN *

REEL

CAPACITY OF STEEL ROPE:	
Ø 18 mm	600 m
Ø 16 mm	1000 m

ENGINE

FEEDING	Diesel
POWER	42 kW / 55 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with tandem rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job site
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 005.1CE** Chassis with tandem damped axle, towing bar adjustable in height, pneumatic braking system, ABS system and lights fit for towing the machine on road at max. speed 80 km/h. EC-Type approved set. Homologation - Registration Excluded
- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
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HYDRAULIC PULLER

UP150 MAX PULL 150 kN

Hydraulic puller 150 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

	MAX PULL 150 kN
	MAX SPEED 30 m/min
	MAX ROPE 18 mm
	CAPSTANS 2 x Ø 350 mm



FEATURES

CAPSTANS	2 x Ø 350 mm
MAX ROPE DIAMETER	18 mm
DIMENSIONS L x W x H	5140 x 1985 x 1975 mm
WEIGHT (WITHOUT ROPE)	3200 kg

REEL

CAPACITY OF STEEL ROPE:	
Ø 18 mm	600 m
Ø 16 mm	1000 m

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with tandem rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job site
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

PULL PERFORMANCES

MAX PULL	150 kN
SPEED AT MAX PULL	8 m/min / 8 m/min *
MAX SPEED	30 m/min
PULL AT MAX SPEED	40 kN / 50 kN *

ENGINE

FEEDING	Diesel
POWER	42 kW / 55 kW *
COOLING	water
STARTING	12 V

OPTIONAL DEVICES

- 005.1CE** Chassis with tandem damped axle, towing bar adjustable in height, pneumatic braking system, ABS system and lights fit for towing the machine on road at max. speed 80 km/h. EC-Type approved set. Homologation - Registration Excluded
- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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HYDRAULIC PULLER

UP200 MAX PULL 200 kN

Hydraulic puller 200 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

-  **MAX PULL**
200 kN
-  **MAX SPEED**
21 m/min
-  **MAX ROPE**
22 mm
-  **CAPSTANS**
2 x Ø 380 mm



FEATURES

CAPSTANS	2 x Ø 380 mm
MAX ROPE DIAMETER	22 mm
DIMENSIONS L x W x H	4890 x 2170 x 1990 mm
WEIGHT (WITHOUT ROPE)	4300 kg

PULL PERFORMANCES

MAX PULL	200 kN
SPEED AT MAX PULL	8 m/min / 8 m/min *
MAX SPEED	21 m/min / 30 m/min *
PULL AT MAX SPEED	55 kN

REEL

CAPACITY OF STEEL ROPE:	
Ø 18 mm	1500 m
Ø 22 mm	1000 m

ENGINE

FEEDING	Diesel
POWER	55 kW / 55 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with tandem rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job site
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

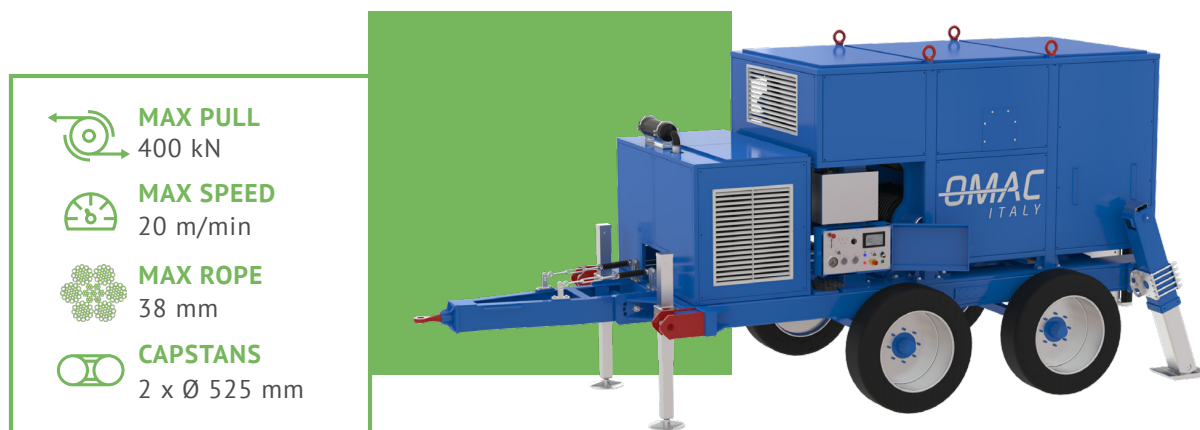
- 005.1CE** Chassis with tandem damped axle, towing bar adjustable in height, pneumatic braking system, ABS system and lights fit for towing the machine on road at max. speed 80 km/h. EC-Type approved set. Homologation - Registration Excluded
- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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HYDRAULIC PULLER

UP400 MAX PULL 400 kN

Hydraulic puller 400 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.



-  **MAX PULL**
400 kN
-  **MAX SPEED**
20 m/min
-  **MAX ROPE**
38 mm
-  **CAPSTANS**
2 x Ø 525 mm

FEATURES

CAPSTANS	2 x Ø 525 mm
MAX ROPE DIAMETER	38 mm
DIMENSIONS L x W x H	6545 x 2500 x 2965 mm
WEIGHT (WITHOUT ROPE)	11250 kg

PULL PERFORMANCES

MAX PULL	400 kN
SPEED AT MAX PULL	7 m/min / 8,2 m/min *
MAX SPEED	20 m/min
PULL AT MAX SPEED	150 kN / 160 kN *

REEL

CAPACITY OF STEEL ROPE:	
Ø 32 mm	1000 m
Ø 38 mm	700 m

ENGINE

FEEDING	Diesel
POWER	97 kW / 105 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with tandem rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job site
- Four adjustable hydraulic stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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HYDRAULIC PULLER

UP600 MAX PULL 600 KN

Hydraulic puller 600 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

-  **MAX PULL**
600 kN
-  **MAX SPEED**
13,5 m/min
-  **MAX ROPE**
38 mm
-  **CAPSTANS**
2 x Ø 600 mm



FEATURES

CAPSTANS	2 x Ø 600 mm
MAX ROPE DIAMETER	38 mm
DIMENSIONS L x W x H	6545 x 2500 x 2965 mm
WEIGHT (WITHOUT ROPE)	11250 kg

PULL PERFORMANCES

MAX PULL	600 kN
SPEED AT MAX PULL	4,5 m/min / 5,5 m/min *
MAX SPEED	13,5 m/min
PULL AT MAX SPEED	150 kN / 160 kN *

REEL

CAPACITY OF STEEL ROPE:	
Ø 32 mm	1000 m
Ø 38 mm	700 m

ENGINE

FEEDING	Diesel
POWER	97 kW / 105 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic cover
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Rope guiding pulley
- Built-in reel-winder with automatic rope-winder
- Chassis with tandem rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job site
- Four adjustable hydraulic stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system. Complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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STEEL ROPE

P20.U MAX PULL 20 KN

Hydraulic puller 20 kN. Fit to pull one rope in laying underground transmission cables and fibre optic wires.



-  **MAX PULL**
20 kN
-  **MAX SPEED**
65 m/min
-  **MAX ROPE**
12 mm
-  **CAPSTANS**
2 x Ø 200 mm

FEATURES

CAPSTANS	2 x Ø 200 mm
MAX NYLON ROPE DIA.	12 mm
MAX STEEL ROPE DIA.	8 mm
DIMENSIONS L x W x H	2810 x 1370 x 1175 mm
WEIGHT (WITHOUT ROPE)	700 kg

REEL

TYPE	extractable self-loading
CAPACITY:	
NYLON ROPE Ø 12 mm	700 m
STEEL ROPE Ø 8 mm	500 m

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with dynamometer, preselector of max pull force and metercounter
- Metallic protection cover on the engine and hydraulic parts
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- External reel-winder with automatic rope-winder and extractable reel.
- Single rigid axle and adjustable towing bar fit for towing at low speed on the job-site
- Mechanical stabilisers
- Anchoring and lifting points

PULL PERFORMANCES

MAX PULL	20 kN
SPEED AT MAX PULL	21 m/min
MAX SPEED	65 m/min
PULL AT MAX SPEED	7 kN

ENGINE

FEEDING	gasoline
POWER	15 kW
COOLING	air
STARTING	electric with battery 12 V

OPTIONAL DEVICES

- 003** Single damped axle, adjustable towing bar with parking brake and lights fit for towing on road up to 80 km/h
Homologation - Registration Excluded
- 028.3** Air cooled diesel engine with electric starting
- 165** Hydraulic lifting-lowering of the reel-winder arm.
Cylinder + Control lever.
- 037.2** Compact remote control by cable. Cable length = 10 m
- 069.2** Electronic device with USB port, to save the data of the pull.
- 069.5** Printer with accessories.
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

HYDRAULIC PULLER

P30.U MAX PULL 30 KN

Hydraulic puller 30 kN. Fit to pull one rope in laying underground transmission cables and fibre optic wires.

-  **MAX PULL**
30 kN
-  **MAX SPEED**
70 m/min
-  **MAX ROPE**
13 mm
-  **CAPSTANS**
2 x Ø 250 m



FEATURES

CAPSTANS	2 x Ø 250 m
CAPSTANS GROOVES	7
MAX ROPE DIAMETER	13 mm
MAX JOINT DIAMETER	40 mm
DIMENSIONS L x W x H	3340 x 1610 x 1600 mm
WEIGHT (WITHOUT ROPE)	1350 kg

PULL PERFORMANCES

MAX PULL	30 kN
SPEED AT MAX PULL	20 m/min / 11 m/min *
MAX SPEED	70 m/min
PULL AT MAX SPEED	10 kN / 8 kN *

ENGINE

FEEDING	diesel
POWER	26 kW / 18,8 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 1400 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- Four adjustable mechanical stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 007** Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded)
- 029** Water cooled diesel engine. Power = 27 - 36 kW - final emission EU stage V for increased performances
- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 047** N° 2 hydraulic stabilisers on the pulling-side
- 048** N° 2 hydraulic stabilisers on the reel-winder side
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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

HYDRAULIC PULLER



P50.U

MAX PULL 50 kN

Hydraulic puller 50 kN. Fit to pull one rope in laying underground transmission cables and fibre optic wires.

	MAX PULL 50 kN
	MAX SPEED 60 m/min
	MAX ROPE 16 m/min
	CAPSTANS 2 x Ø 325 mm



FEATURES

CAPSTANS	2 x Ø 325 mm
CAPSTANS GROOVES	7
MAX ROPE DIAMETER	16 mm
MAX JOINT DIAMETER	45 mm
DIMENSIONS L x W x H	3590 x 1640 x 1830 mm
WEIGHT (WITHOUT ROPE)	1500 Kg

PULL PERFORMANCES

MAX PULL	50 kN
SPEED AT MAX PULL	14 m/min / 19 m/min *
MAX SPEED	60 m/min
PULL AT MAX SPEED	12 kN / 15 kN *

ENGINE

FEEDING	diesel
POWER	29 kW / 36 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 1400 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- N° 2 mechanical stabilisers on the pulling side
- N° 2 hydraulic stabilisers on the reel-winder side
- Anchoring and lifting points

OPTIONAL DEVICES

- 007** Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded).
- 037.2** Compact remote control by cable. Cable length = 10 m
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories.
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 047** N° 2 hydraulic stabilisers on the pulling-side
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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

HYDRAULIC PULLER

P100.U MAX PULL 100 kN

Hydraulic puller 100 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

-  **MAX PULL**
100 kN
-  **MAX SPEED**
65 m/min
-  **MAX ROPE**
20 mm
-  **CAPSTANS**
2 x Ø 400 mm



FEATURES

CAPSTANS	2 x Ø 400 mm
CAPSTANS GROOVES	8
MAX ROPE DIAMETER	20 mm
MAX JOINT DIAMETER	50 mm
DIMENSIONS L x W x H	4345 x 2165 x 2000 mm
WEIGHT (WITHOUT ROPE)	2750 Kg

PULL PERFORMANCES

MAX PULL	100 kN
SPEED AT MAX PULL	15 m/min / 15 m/min *
MAX SPEED	65 m/min
PULL AT MAX SPEED	23 kN / 23 kN *

ENGINE

FEEDING	diesel
POWER	51 kW / 51 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 1600 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- N° 2 mechanical stabilisers on the pulling side
- N° 2 hydraulic stabilisers on the reel-winder side
- Anchoring and lifting points

OPTIONAL DEVICES

- 007** Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded).
- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories.
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 047** N° 2 hydraulic stabilisers on the pulling-side
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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

HYDRAULIC PULLER

P150.U

MAX PULL 150 kN

Hydraulic puller 150 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.



FEATURES

CAPSTANS	2 x Ø 525 mm
CAPSTANS GROOVES	9
MAX ROPE DIAMETER	24 mm
MAX JOINT DIAMETER	60 mm
DIMENSIONS L x W x H	4650 x 2200 x 2400 mm
WEIGHT (WITHOUT ROPE)	4700 kg

PULL PERFORMANCES

MAX PULL	150 kN
SPEED AT MAX PULL	15 m/min
MAX SPEED	55 m/min
PULL AT MAX SPEED	50 kN

ENGINE

FEEDING	diesel
POWER	75 kW / 75 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 1600 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- N° 2 mechanical stabilisers on the pulling side
- N° 2 hydraulic stabilisers on the reel-winder side
- Anchoring and lifting points

OPTIONAL DEVICES

- 084** Bigger reel-winder arm fit for Ø 1900 mm steel reel. Load capacity = 2000 kg.
- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories.
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring, diagnostics.

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

**HYDRAULIC PULLER****P200.U** MAX PULL 200 KN

Hydraulic puller 200 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

**MAX PULL**

200 kN

**MAX SPEED**

40 m/min

**MAX ROPE**

24 mm

**CAPSTANS**

2 x Ø 600 mm

**FEATURES**

CAPSTANS	2 x Ø 600 mm
CAPSTANS GROOVES	10
MAX ROPE DIAMETER	24 mm
MAX JOINT DIAMETER	70 mm
DIMENSIONS L x W x H	5700 x 2240 x 2220 mm
WEIGHT (WITHOUT ROPE)	6800 kg

PULL PERFORMANCES

MAX PULL	200 kN
SPEED AT MAX PULL	13 m/min / 15 m/min *
MAX SPEED	40 m/min
PULL AT MAX SPEED	69 kN / 75 kN *

ENGINE

FEEDING	diesel
POWER	97 kW / 105 kW *
COOLING	water
STARTING	12 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 1600 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- N° 4 hydraulic stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 084** Bigger reel-winder arm fit for Ø 1900 mm steel reel.
Load capacity = 2000 kg.
- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment.
Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories.
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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

HYDRAULIC PULLER



P400.U MAX PULL 400 KN

Hydraulic puller 400 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.



-  **MAX PULL**
400 kN
-  **MAX SPEED**
40 m/min
-  **MAX ROPE**
32 mm
-  **CAPSTANS**
2 x Ø 600 mm

FEATURES

CAPSTANS	2 x Ø 600 mm
CAPSTANS GROOVES	11
MAX ROPE DIAMETER	32 mm
MAX JOINT DIAMETER	65 mm
DIMENSIONS L x W x H	6025 x 2430 x 2275 mm
WEIGHT (WITHOUT ROPE)	7700 kg

PULL PERFORMANCES

MAX PULL	400 kN
SPEED AT MAX PULL	10 m/min / 10 m/min *
MAX SPEED	40 m/min
PULL AT MAX SPEED	90 kN / 90 kN *

ENGINE

FEEDING	diesel
POWER	130 kW / 130 kW *
COOLING	water
STARTING	24 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 2200 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- N° 4 hydraulic stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories.
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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

HYDRAULIC PULLER

P600.U MAX PULL 600 KN

Hydraulic puller 600 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing.

-  **MAX PULL**
600 kN
-  **MAX SPEED**
40 m/min
-  **MAX ROPE**
36 mm
-  **CAPSTANS**
2 x Ø 600 mm



FEATURES

CAPSTANS	2 x Ø 600 mm
CAPSTANS GROOVES	11
MAX ROPE DIAMETER	36 mm
MAX JOINT DIAMETER	70 mm
DIMENSIONS L x W x H	7480 x 2450 x 2645 mm
WEIGHT (WITHOUT ROPE)	11500 kg

PULL PERFORMANCES

MAX PULL	600 kN
SPEED AT MAX PULL	6 m/min / 6 m/min *
MAX SPEED	40 m/min / 40 m/min *
PULL AT MAX SPEED	80 kN

ENGINE

FEEDING	diesel
POWER	130 kW / 130 kW *
COOLING	water
STARTING	24 V

CONFIGURATION

- Multi-grooved steel capstans
- Control panel equipped with built-in electronic instrument DEG 4.0 - 7" large graphic colour display and a USB port
- Metallic protection cover on the engine and hydraulic parts
- Electronic instrument by-pass
- Maintenance-free load cell reading system
- Safety negative hydraulic brake
- Oil cooling system
- Front guide rope pulley fit for pulling underground cables
- Reel-winder arms with automatic rope-winder and hydraulic lifting system fit for reel upto max. Ø 2200 mm
- Single rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site
- N° 4 hydraulic stabilisers
- Anchoring and lifting points

OPTIONAL DEVICES

- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable
- 069.5** Printer with accessories.
- 082** Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 051.3** Motorised rubber crawler system, complete with front hydraulic plough and radio-remote control for the crawler system and the machine pulling operations
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics.

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





HYDRAULIC PULLER



UPR100 MAX PULL 100 KN

Hydraulic puller 100 kN. Fit to remove old or redundant armored telephone cables up to Ø 80 mm diameter.



-  **MAX PULL**
100 kN
-  **MAX SPEED**
19 m/ min
-  **MAX CABLE**
Ø 80 mm
-  **CAPSTANS**
1 x Ø 350-650 mm

FEATURES

CAPSTANS	1 x Ø 350 - 650 mm
MAX CABLE DIAMETER	80 mm
DIMENSIONS L x W x H	4000 x 2200 x 1800 mm
WEIGHT (WITHOUT ROPE)	2700 kg

PULL PERFORMANCES

MAX PULL	100 kN
SPEED AT MAX PULL	12 m/min / 17 m/min*
MAX SPEED	19 m/min
PULL AT MAX SPEED	60 kN / 90 kN*

ENGINE

FEEDING	diesel
POWER	42 kW / 55 kW*
COOLING	Water
STARTING	12 V

CONFIGURATION

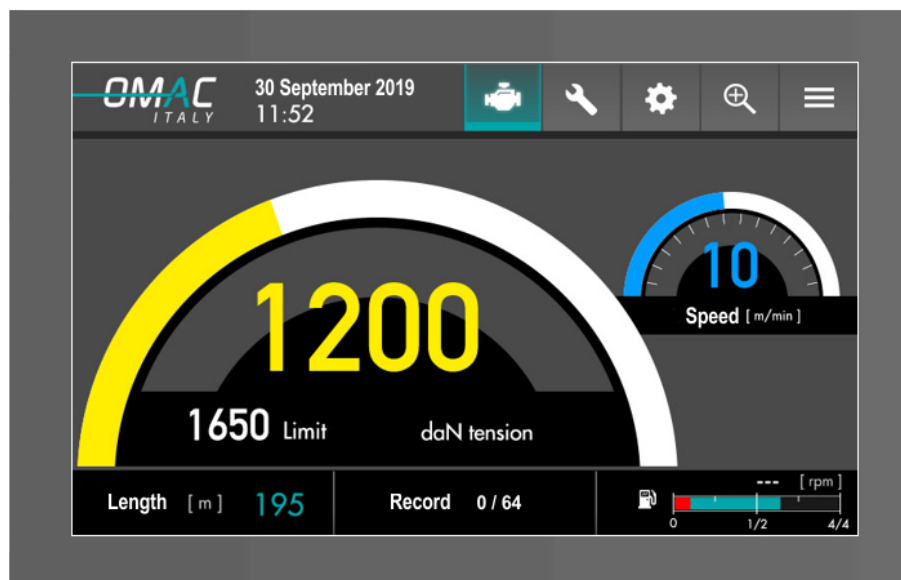
- Large groove steel capstan with anti-slipping devices.
- Control panel equipped with dynamometer, preselector of max pull force and meter-counter.
- Metallic cover.
- Safety negative hydraulic brake.
- Oil cooling system
- N° 2 hydraulic back-tension rollers.
- Tandem rigid axle, adjustable towing bar and manual parking brake fit for towing at low speed on the job-site.
- N° 4 mechanical stabilisers.
- Anchoring and lifting points.

OPTIONAL DEVICES

- 005.2** Chassis with tandem damped axle, overrun brake and drawbar for towing on road (homologation excluded).
- 011.4** Auxiliary hydraulic circuit.. Complete with N° 3 outputs for feeding a hydraulic cutter, a water pump and a hydraulic cylinder for the boom. Flow rate = 25 l/min - Working Pressure = 200 bar.
- 037** Remote control by cable. Complete with electric joystick to control the pulling direction and potentiometer for speed adjustment. Cable length = 10 m.
- 038.1** Radio remote control. Complete with display and 5 m long back-up cable.
- 067** Telescopic boom to recover the cable. Complete with upper and lower roller quadrant.
- 068.3** Support complete with chain-hoist. Fit for lifting and lowering the telescopic boom (Opt. 067).
- 069.2** Electronic instrument DEG 4.0. Featuring a large graphic color display and a USB port to record the working parameters.
- 069.5** Printer with accessories.

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

DIGITAL BUILT-IN DATA READ-OUT



DIGITAL RECORDER BUILT-IN ALL THE MACHINES AS A STANDARD

FEATURES

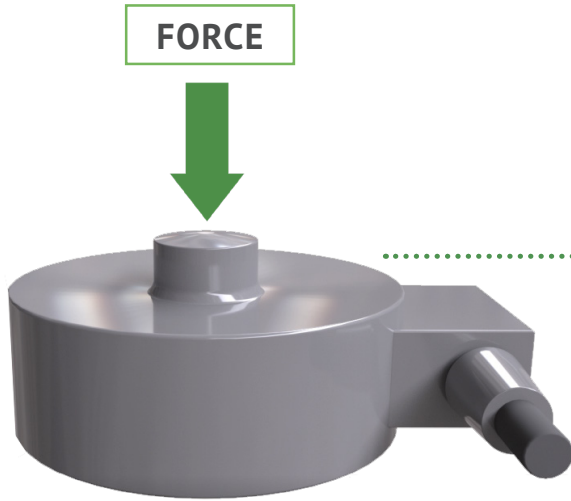
- Large-sized (7") color graphic display, built in the main control panel
- Resistive type glove-friendly touch-screen, intuitive as well as easy in setting-up and browsing through
- High capacity memory: over 200 km of line
- High accuracy and reliability by means of the load cell and encoder system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

FUNCTIONS

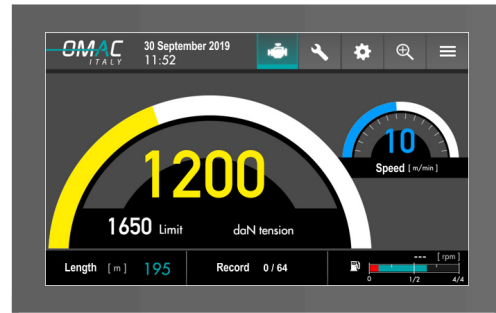
- Real-time reading and recording pulling force, max pull alarm, speed and length of cable/conductor
- ZOOM mode
- Max pull force setting
- Display of working parameters (force, speed, distance covered and time elapsed)
- Help page on board
- Fuel level
- Electronic engine parameters
- Maintenance schedules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

FORCE READING SYSTEM LOAD CELL

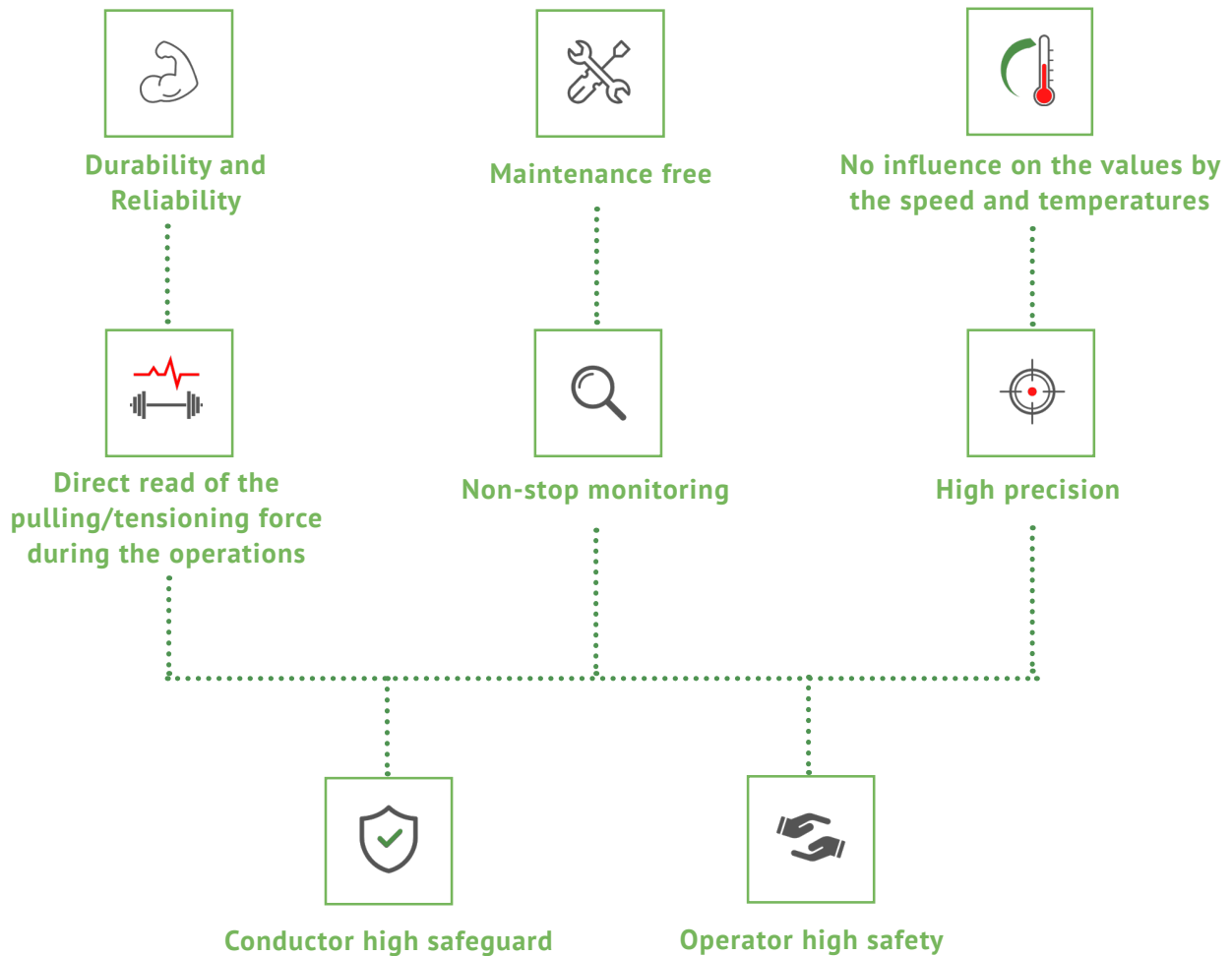
OMAC
ITALY



Electronic Load Cell



Omac Digital built-in data read out



STANDARD DEVICES

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OLS - OMAC LINK SYSTEM

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



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 LOCAL WI-FI CONNECTIONS



REMOTE MONITORING & DIAGNOSTICS

- 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



REMOTE MAINTENANCE & TROUBLESHOOTING

- REMOTE ACCESS TO MACHINE MAINTENANCE SCHEDULES
- MAINTENANCE ALERTS
- REMOTE ENABLING OR DISABLING OF SPECIFIC FUNCTIONS
- OLS WILL BE SUPPLIED ON ALL NEW 4.0 OMAC MACHINES AS WELL AS ON THE EXISTING MACHINES (ON REQUEST)



GPS GEOLOCATION

- BUILT-IN GPS ALLOWS REMOTE ACCESS TO REAL-TIME FLEET POSITION
- CUT INSURANCE COSTS
- LESS THEFT RISK

REMOTE CONTROLS

CABLE REMOTE CONTROL



037.2

Compact remote control by cable. Fit for "puller" machines.
Pull/release buttons and emergency stop button. 10-m connection cable.



037

Remote control by cable. Fit for "puller" machines.

The control is complete with:

- Mini joystick for controlling the rotation of the capstans
- Speed adjustment control
- Emergency stop button
- 10-m the connection cable

OPTIONAL DEVICES

- 01 Display to read the pulling force, metercounter and speedometer.
- 02 Engine start/stop.
- 03 Engine accelerator.
- 04 Tension force adjustment control (only with machine opt.082).

RADIO REMOTE CONTROL



038.1

Radio remote control fit for "puller" machines. Max operational distance: up to 100 m.

The radio-control is complete with:

- Two buttons for controlling the capstans rotation
- Speed-adjustment control
- Emergency stop button
- Back-up cable for connect radio control to the machine in case of radio-failure
- Display to read the pulling force, metercounter and speedometer.

(Not compatible with machine opt. 082).



038

Radio remote control fit for "puller" machines. Max operational distance: up to 100 m.

The radio-control is complete with:

- Mini joystick for controlling the capstans rotation
- Speed-adjustment control
- 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 (only with machine opt.082).

CATERPILLAR FOR PULLER

051.3

Caterpillar for puller. High-resistance rubber caterpillars.



PERFORMANCES

MOVING SPEED	Adjustable
MAX SPEED	1,5 km/ h
MAX INCLINATION	75 %
MINIMUM TURNING RADIUS	4,5 m
GROUND LOADING	0,26 kg/cm ³

	DIMENSIONS LxWxH	TOTAL WEIGHT
P30.U	2550 x 1650 x 1450 mm	1920 kg
P50.U	2600 x 1300 x 1600 mm	2025 kg
UP100	3200 x 1700 x 1900 mm	4130 kg
P100.U	4200 x 2100 x 1950 mm	5330 kg
P150.U	4650 x 2200 x 2400 mm	8360 kg

FEATURES

- The caterpillar system allows to travel over steeply sloping ground, to turn in tight space.
- The power transmission is granted by the hydraulic circuit of the puller.
- Self-acting negative parking brakes.
- Reversible movement.
- Radio-control.
- Hydraulic controlled share on the pull side, for anchoring the machine.
- Back stabilizers.
- Front and back hooks for towing the machine.

TELESCOPIC RODS FOR PITS

F276 - F277 - F278

Telescopic rods for laying underground cables. Mounted on pullers properly arranged, they permit to pull the wire rope inside the manholes. Made with galvanised/painted steel, the rods are easily demountable to facilitate the transport. Telescopic rod for pulling the wire rope inside the pits. Guide system with 360° swivelling pulley.



F276

Telescopic rod for pulling the wire rope inside the pits. Guide system with 360° swivelling pulley.

F277

Telescopic rod for pulling the wire rope inside the pits. Guide system with 360° swivelling pulley. Equipped with demountable centerings fit for pipes diameter 80, 100, 120 and 150 mm.

F278

Telescopic rod for guiding the wire rope inside the pits. Guide system with 360° swivelling pulley. Equipped with rollers device for obtaining a reserve of cable, and demountable centerings fit for pipes diameter 80, 100, 120 and 150 mm.

OPTIONAL DEVICES

- 201 Supplementary reaction upper arm.
- 202 Reaction arm (90° respect to the pull line).
- 204 Interchangeable, demountable and openable centerings for pipes diam. 80, 100, 120 and 150 mm (standard for mod. F277 and F278).
- 205 Telescopic strut with pulley to space the puller from the manhole.
- 206 Hydraulic control of the rod extension (only for mod. F276 and F277).

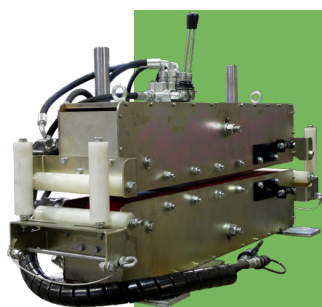
	MAX PULL FORCE	PIT DEPTH (A min/max)	DISTANCE FROM THE PIPE (B min/max)	ROD WIDTH (C)	ROD WEIGHT	RESERVE OF CABLE
	daN	mm	mm	mm	kg	m
F276.60	6000 / 10000	500 / 2000	1000 / 1500	120	150	-
F276.100	10000 / 15000	500 / 2000	1400 / 1800	150	200	-
F276.200	20000	1000 / 2000	1500 / 2000	200	350	-
F277.20	2000	0 / 1500	400 / 700	60	55	-
F277.40	3000 / 4000	0 / 1500	400 / 700	80	50	-
F278.20	2000	0 / 1500	1000 / 1400	60	55	2,5
F278.40	3000 / 4000	100 / 2000	1000 / 1500	80	100	3,0

CABLE-PUSHER MACHINES

F224 PULLING FORCE 0-8 kN

Cable-pusher machine powered by hydraulic unit. Fit for laying underground cables in long conducts and in harsh conditions.

When working in combination with a puller, it reduces the stress on the cable. Longer distances can be covered by using more than one cable-pusher machines. This compact machine can be placed in small rooms and can be remote-controlled (up to 15 m) thanks to the separated power unit connected by hoses.



F224.08



F306.08.SP

CABLE-PUSHER UNIT F224.08

PUSHING FORCE	0-8 kN
PUSHING SPEED	0-20 m/min
CABLE DIAMETER (MIN-MAX)	40-150 mm
TRACK LENGTH	800 mm
HOSES LENGTH	5 m
DIMENSIONS LxWxH	1,30x0,35x0,80 m
WEIGHT	200 kg

POWER UNIT F306.08.SP

FEEDING	gasoline
POWER	5,88 kW / 8 HP
COOLING	air
STARTING	by rope
MAX OIL FLOW	20 l/min
MAX PRESSURE	150 bar
DIMENSIONS LxWxH	0,75x0,50x0,60 m
WEIGHT	65 kg

CABLE-PUSHER UNIT

- Cable-pusher unit made of electro-welded steel frame with fittings for anchoring and lifting.
- One pair of tracks with upper tracks operated by hydraulic cylinders.
- Reversible hydraulic motor for operating the tracks. The motor is fitted with quick couplings to connect the power unit through flexible hoses.

OPTIONAL DEVICES

- 090 Power unit equipped with monophase electric motor 220 V.
- 090.1 Power unit equipped with three-phase electric motor 380 V.
- 028.3 Power unit with air-cooled diesel engine.
- 418 Cable-pusher unit complete with wheels for easy moving.
- 078.1 Flexible hoses 10-m long.
- POT-1 Thrust force / traction increased up to 12 kN, speed 0 – 17 m/min.

POWER UNIT

- Hydraulic power unit, with gasoline engine and hydraulic circuit, that permits to adjust, by a control valve, the pushing force (0 to max), and the pushing speed. Complete with wheels and handles.
- Flexible hoses 5-m long to connect the cable-pusher unit to the power unit.

CABLE PUSHERS SYNCHRONIZATION SYSTEM

F224

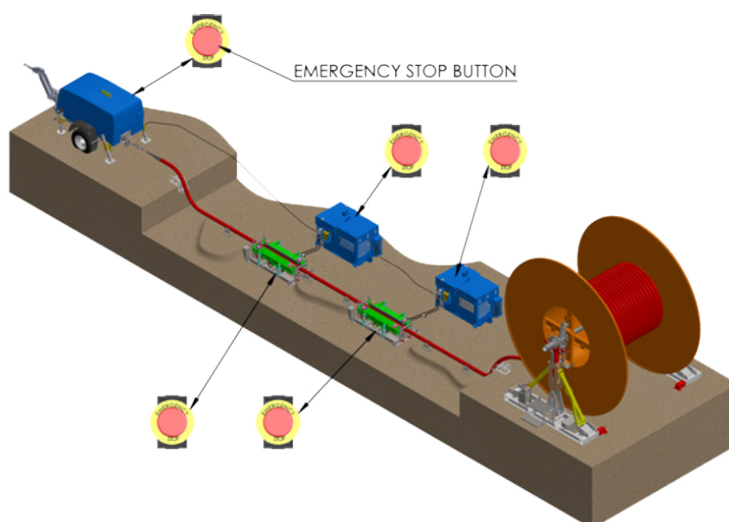
The F224 cable pusher is fed by a separate hydraulic power pack F306.08.SP.

The hydraulic power packs F306.08.SP can be electrically connected and synchronized each other and with the puller machine by means of a synchronization system.

The puller machine is the "Master" in the synchronization system.

Once the cable pushers are ready and connected, the puller machine starts and stops the cable pushers and the cable pushers speed is adjusted in function of the puller machine speed.

The synchronization system is equipped with emergency buttons, one on each hydraulic power pack, in order to stop the complete system (puller machine + cable pushers) in case of emergency.



The synchronization system is composed by:

- N°01 Synchronization kit mounted on the puller machine (Master) – Opt. PSI
- The puller machine must be equipped with "Mooring" device for pipe refurbishing fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min – Opt. 082
- N°01 synchronization block valve between each cable pushers F224 and its hydraulic power pack F306.08.SP – Opt. PPS
- N°01 electric connection cable between the puller machine and the 1st hydraulic powerpack and between all the hydraulic power packs. (Cable lengths to be confirmed by the Customer) – Opt. CAV-2
- N°01 Emergency button on each hydraulic power pack.

A hydraulic manometer can be mounted on each cable pusher to read the pressure of the pushing system on the cable.

