OMAC
ITALY
SINCE 1954

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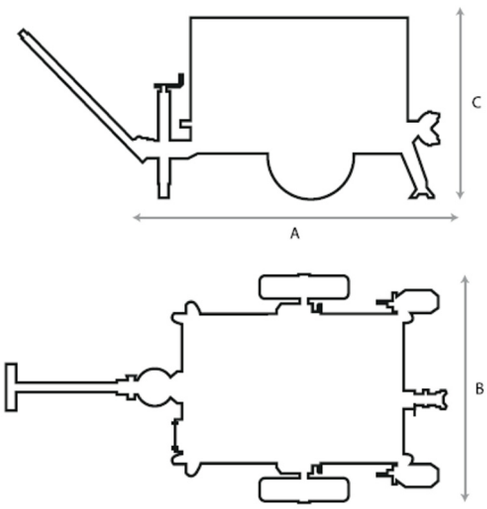
HYDRAULIC PULLERS FOR LAYING UNDERGROUND CABLES AND **EQUIPMENT FOR MACHINES**

HYDRAULIC PULLER

F265.P.15 max pull 15 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables and optics fibre cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel with control instruments.
- Dynamometer and preselector of max pull force.
- Mechanical metercounter.
- Safety negative hydraulic brake.
- Demountable axle with tires and drawbar for towing at low speed in the job-site.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

003	Damped axle for towing on road, with mechanical brake (homologation excluded).
027	Metallic coverage with doors.
028.3	Air-cooled diesel engine (it adds 50 kg to the machine weight).
067	Telescopic rod to lay underground cables (art. F277).
069.2	Electronic device with USB port, to save the pulling data supplied in a separate case.
069.3	Arrangement for electronic instrument opt. 069.2.
069.5	Printer with accessories.

FEATURES	
Capstans	2 x Ø 185 mm
Max rope diameter	8 mm
ENGINE	
Feeding	gasoline
Power	18 hp / 13 kW
Cooling	air
Starting	electric with battery 12 V
PULL PERFORMANCES	
Max pull	15 kN
Speed at max pull	20 m/min
Max speed	65 m/min
Pull at max speed	3 kN
REEL	
Type	extractable
Capacity of steel rope Ø 8 mm	550 m
DIMENSIONS AND WEIGHT	
without axle or drawbar	
Dimensions	1,30 x 0,80 x 0,70 m
Weight (without rope)	410 kg
with optional non-demountable axle and drawbar (opt.003)	
Dimensions	1,55 x 1,20 x 1,10 m
Weight (without rope)	520 kg

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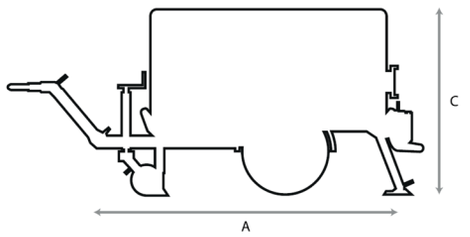
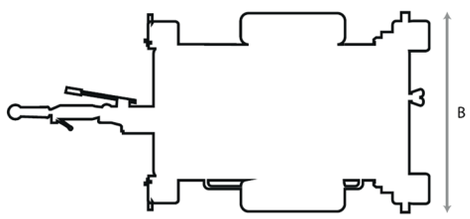
HYDRAULIC PULLER

F215.P.30 max pull 30 kN





Hydraulic puller fit to pull one rope in laying underground transmission cables and optics fibre cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with dumped axle, tires, overrun brake, manual brake and drawbar for towing in the job-site.
- Metallic coverage with doors.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.4 Arrangement of the chassis for circulation on road (homologation excluded).
037 Remote control by cable, with 10 m of cable.
038 Radio-control (max distance 50 m).
051.3 Motorised rubber caterpillars.
038.C Radio-control for caterpillars.
067 Telescopic rod to lay underground cables (art. F277).
069.5 Printer with accessories.

FEATURES	
Capstans	2 x Ø 200 mm
Max rope diameter	10 mm
Dimensions AxBxC	2,10x1,30x1,30 m
Weight (without rope)	1000 kg
ENGINE	
Feeding	diesel
Power	27,2 hp / 20 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	30 kN
Speed at max pull	16 m/min
Max speed	80 m/min
Pull at max speed	5 kN
REEL	
Type	extractable
Diameter	600 mm
Capacity of steel rope: Ø 8 mm Ø 10 mm	 1000 m 650 m

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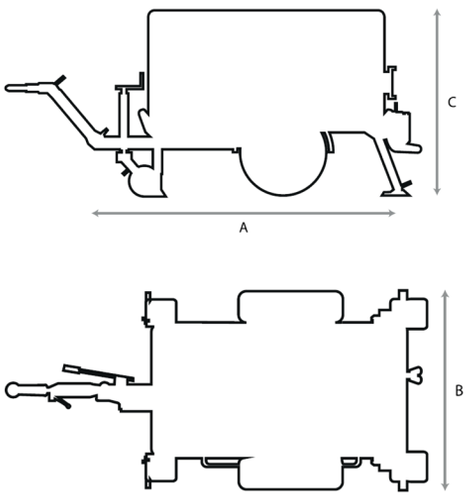
HYDRAULIC PULLER

F275.P.50 max pull 50 kN



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One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with dumped axle, tires, overrun brake, manual brake and drawbar for towing in the job-site.
- Metallic coverage with doors.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.4	Arrangement of the chassis for towing on road (homologation excluded).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067	Telescopic rod to lay underground cables (art. F277).
069.5	Printer with accessories.
082	Device for pull force setting, which allows to maintain the pre-set even at speed '0' (fit for pipe refurbishing).

FEATURES	
Capstans	2 x Ø 280 mm
Max rope diameter	14 mm
Dimensions AxBxC	3,10x1,70x1,75 m
Weight (without rope)	1900 kg
ENGINE	
Feeding	diesel
Power	35 hp / 26 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	50 kN
Speed at max pull	13 m/min
Max speed	60 m/min
REEL	
Type	extractable
Diameter	520 mm
Capacity of steel rope: Ø 14 mm Ø 12 mm Ø 10 mm	 750 m 1000 m 1200 m

ALSO AVAILABLE F275.P.40	
max pull force	40 kN
speed at max pull	16 m/min
max speed	60 m/min
steel rope ø 12 mm	1000 m
steel rope ø 10 mm	1200 m

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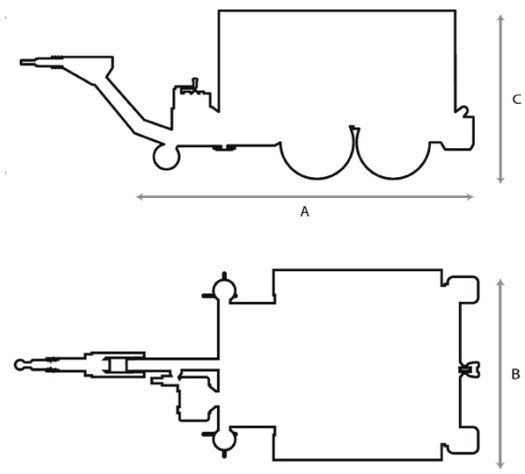
Performances of the machine without optional devices, at sea level and temperature 20°C. Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.

HYDRAULIC PULLER

F285.P.60 max pull 60 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables and optics fibre cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with two damped axles (tandem), tires, overrun brake, manual brake and drawbar for towing in the job-site.
- Metallic coverage with doors.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.4	Arrangement of the chassis for towing on road (homologation excluded).
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067.1	Telescopic rod for underground operations (art. F276).
069.5	Printer with accessories.
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

FEATURES	
Capstans	2 x Ø 300 mm
Max rope diameter	16 mm
Dimensions AxBxC	3,10x1,85x1,65 m
Weight (without rope)	2000 kg
ENGINE	
Feeding	diesel
Power	45,5 hp / 33,5 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	60 kN
Speed at max pull	15 m/min
Max speed	65 m/min
Pull at max speed	18 kN
REEL	
Type	extractable
Diameter	850 mm
Capacity of steel rope: Ø 16 mm Ø 14 mm Ø 12 mm	 850 m 1100 m 1500 m

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HYDRAULIC PULLER

F285.P.100 max pull 100 kN

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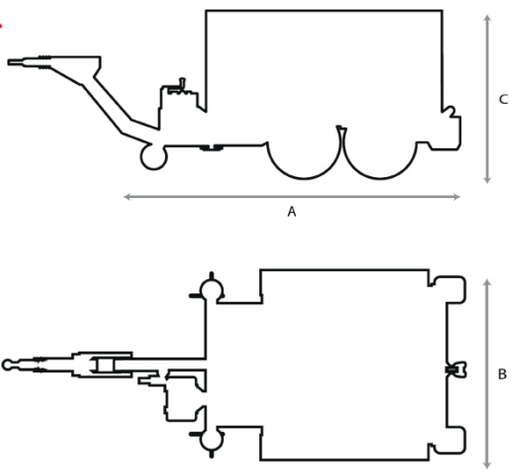

Hydraulic puller fit to pull one rope in laying underground transmission cables and optics fibre cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with two damped axles (tandem), tires, overrun brake, manual brake and drawbar for towing in the job-site.
- Metallic coverage with doors.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.4	Arrangement of the chassis for towing on road (homologation excluded).
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067.1	Telescopic rod for underground operations (art. F276).
069.5	Printer with accessories.
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

FEATURES	
Capstans	2 x Ø 300 mm
Max rope diameter	16 mm
Dimensions AxBxC	3,10x1,85x1,65 m
Weight (without rope)	2100 kg
ENGINE	
Feeding	diesel
Power	45,5 hp / 33,5 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	100 kN
Speed at max pull	11 m/min
Max speed	55 m/min
Pull at max speed	20 kN
REEL	
Type	extractable
Diameter	850 mm
Capacity of steel rope: Ø 16 mm Ø 14 mm Ø 12 mm	 850 m 1100 m 1500 m

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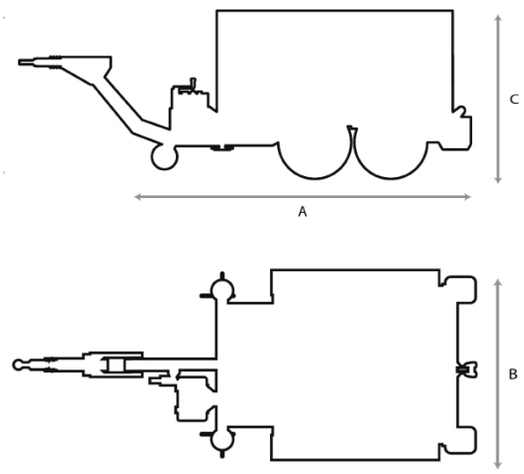
HYDRAULIC PULLER

F280.P.150 max pull 150 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with two damped axles (tandem), tires, overrun brake, manual brake and drawbar for towing in the job-site.
- Metallic coverage with doors.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.4	Arrangement of the chassis for towing on road (homologation excluded).
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067.1	Telescopic rod for underground operations (art. F276).
069.5	Printer with accessories.
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

FEATURES	
Capstans	2 x Ø 350 mm
Max rope diameter	18 mm
Dimensions AxBxC	3,50x1,95x1,70 m
Weight (without rope)	3000 kg
ENGINE	
Feeding	diesel
Power	68 hp / 50 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	150 kN
Speed at max pull	10 m/min
Max speed	30 m/min
Pull at max speed	40 kN
REEL	
Type	extractable
Diameter	950 mm
Capacity of steel rope: Ø 18 mm Ø 16 mm	 600 m 1000 m

ALSO AVAILABLE F280.P.100	
max pull force	100 kN
speed at max pull	14 m/min
max speed	35 m/min
steel rope ø 16 mm	1000 m
steel rope ø 14 mm	1500 m

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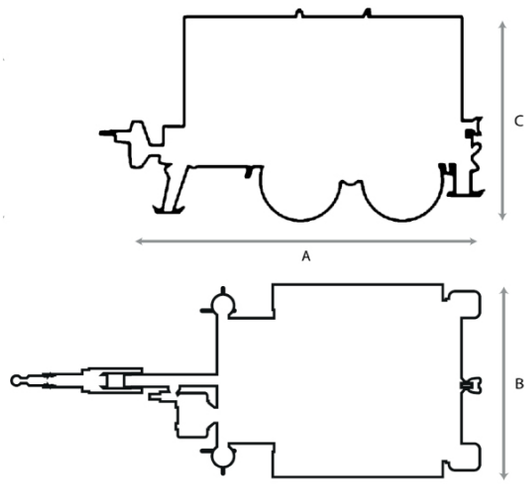
HYDRAULIC PULLER

F290.P.200 max pull 200 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with two rigid axles (tandem), tires and drawbar for towing at low speed in job-site.
- Metallic coverage with doors.
- Mechanical stabilisers on pull side and jack-arm with wheel on drawbar side.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.3	Pneumatic braking system and ABS.
006.4	Arrangement of the chassis for towing on road (homologation excluded).
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067.1	Telescopic rod for underground operations (art. F276).
069.5	Printer with accessories.
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).
097.1	Device to get a max loadless speed of 45 m/min.

FEATURES	
Capstans	2 x Ø 380 mm
Max rope diameter	22 mm
Dimensions AxBxC	3,90x2,20x1,90 m
Weight (without rope)	4200 kg
ENGINE	
Feeding	diesel
Power	84 hp / 62 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	200 kN
Speed at max pull	10 m/min
Max speed	25 m/min
Pull at max speed	80 kN
REEL	
Type	extractable
Diameter	1100 mm
Capacity of steel rope: Ø 22 mm Ø 18 mm	 1000 m 1500 m

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Performances of the machine without optional devices, at sea level and temperature 20°C. Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.

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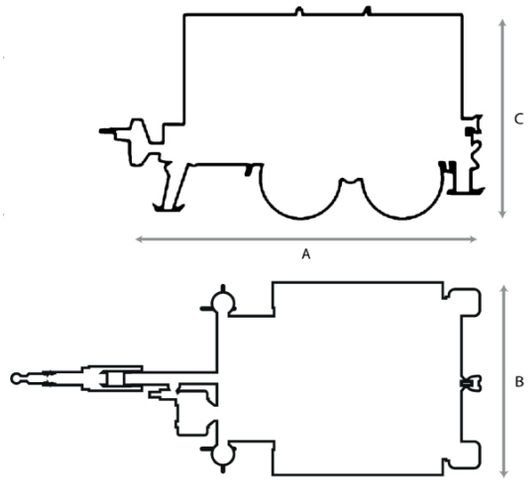
HYDRAULIC PULLER

F260.P.600 max pull 600 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables and pipe refurbishing works.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope, with anti-fleeting rollers.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with two rigid axles (tandem), tires and drawbar for towing at low speed in jobsite.
- Metallic coverage with doors.
- Hydraulic back stabilisers and manual front stabilisers.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Built-in reel-winder with automatic rope-winder and extractable reel.

OPTIONAL DEVICES

006.3	Pneumatic braking system and ABS.
006.4	Arrangement of the chassis for towing on road (homologation excluded).
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
069.5	Printer with accessories.
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

FEATURES	
Capstans	2 x Ø 580 mm
Max rope diameter	38 mm
Dimensions AxBxC	5,60x2,50x2,60 m
Weight (without rope)	10500 kg
ENGINE	
Feeding	diesel
Power	131 hp / 96 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	600 kN
Speed at max pull	4,5 m/min
Max speed	28 m/min
Pull at max speed	100 kN
REEL	
Type	extractable
Capacity of the standard reel: 1000 m of steel rope Ø 38 mm	
Capacity of the optional reel: 1200 m of steel rope Ø 38 mm	

ALSO AVAILABLE F260.P.400	
max pull force	400 kN
speed at max pull	4,5 m/min
max speed	80 m/min

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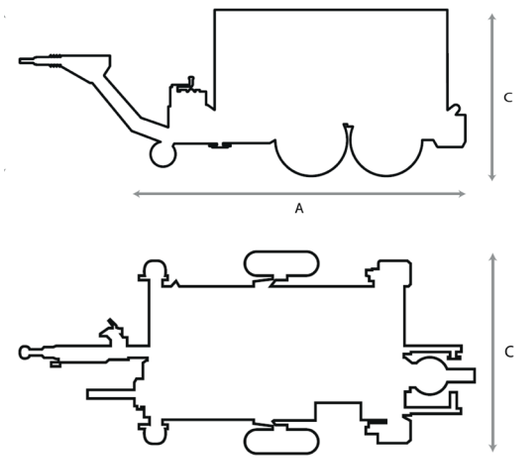
HYDRAULIC PULLER

F420.100.C max pull 100 kN



Cable recovery winch designed to remove old or redundant armored telephone cables of up to 80 mm in diameter, mainly for duct reclamation allowing installation of fibre optic cables, but also for recovering old cables for recycling. The winch is driven by a diesel hydraulic power-pack which is totally enclosed within a coverage thereby limiting noise emission. The machine is mounted on damped trailer and it is complete with stabilizing jacks.

- Diesel engine, water cooled, electric starting with 12 V battery.
- Large-groove steel capstan, with anti-slipping.
- Command panel with instruments for controlling the hydraulic circuit and the diesel engine.
- Dynamometer for checking pulling values.
- Preselector of maximum wanted pull force to stop the puller in case of overpull.
- Hydrostatic circuit that allows to vary in continue way the speed of the capstan in both sense of rotation operating only one command.
- Hydraulic emergency negative brake auto-operating in central position of command lever or in case of hydraulic breakdown (not fit for lifting).
- Chassis with damped axle, tires, overrun brake, manual brake and drawbar for towing in the job-site.
- Metallic coverage with doors.
- Mechanical front and back stabilisers.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Back-tension rollers with hydraulic drive.

FEATURES	
Capstans	Ø 650 x 350 mm
Max rope diameter	80 mm
Dimensions AxBxC	4,00x2,20x1,80 m
Weight (without rope)	2600 kg
ENGINE	
Feeding	diesel
Power	33 hp / 24,6 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	100 kN
Continuous pull	100 kN @ 5 m/min 50 kN @ 14 m/min

OPTIONAL DEVICES

005.2 Tandem axle with torsion bar suspensions, overrun braking system and lights (homologation excluded),
006.4 Arrangement of the chassis for towing on road (homologation excluded).
011.4 Arrangement of an auxiliary hydraulic circuit, capacity 25 l/min, pressure 200 bar, with 3 outputs for feeding a hydraulic cutter, a water pump and a hydraulic cylinder for the boom.
037 Remote control by cable, with 10 m of cable.
038 Radio-control (max distance 50 m).
044 Mechanical metercounter for measuring the recovered cables length.
067 Telescopic rod to lay underground cables (art. F277).
068.3 Support with chain-hoist for lifting and lowering the boom.
069.5 Printer with accessories.
069.2 Electronic device with USB port, to save the pulling data.

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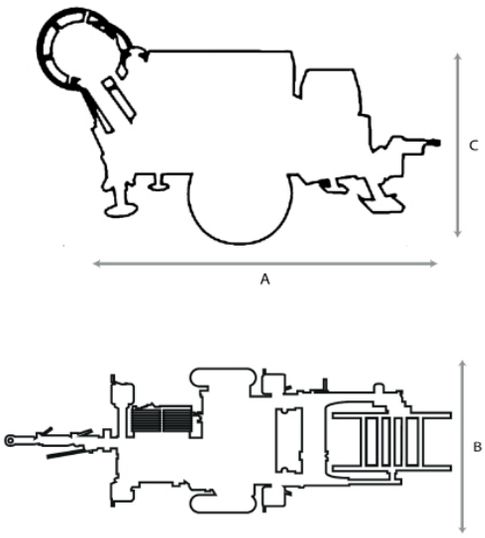
HYDRAULIC PULLER

F380.20.P max pull 20 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in workplace.
- Mechanical front and back stabilisers.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for reels dia. 1100 mm, with automatic ropewinder.

FEATURES	
Capstans	2 x Ø 220 mm
Max rope diameter	10 mm
Dimensions AxBxC	2,45x1,33x1,17 m
Weight (without rope)	750 kg
ENGINE	
Feeding	diesel
Power	27 hp / 20 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	20 kN
Speed at max pull	18 m/min
Max speed	65 m/min
Pull at max speed	6 kN

OPTIONAL DEVICES

007	Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded).
026	PVC cloth cover.
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067	Telescopic rod to lay underground cables (art. F277).
069.5	Printer with accessories.

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Performances of the machine without optional devices, at sea level and temperature 20°C. Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.

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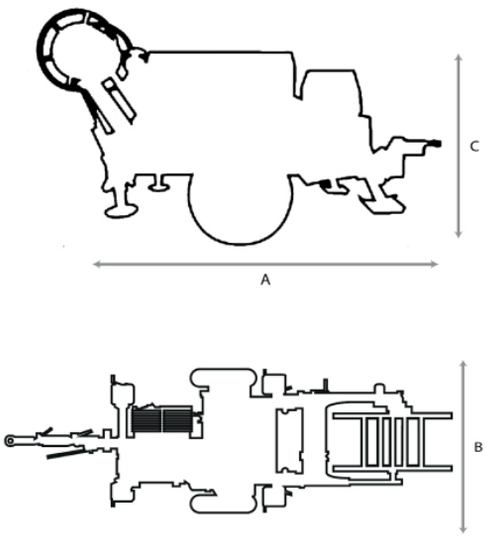
HYDRAULIC PULLER

F275.30.P max pull 30 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- Safety negative hydraulic brake.
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site.
- Mechanical front and back stabilisers.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for a 1400-mm-dia reel, with automatic ropewinder.

FEATURES	
Capstans	2 x Ø 250 mm
Grooves on the capstans	7 + 7
Max rope diameter	13 mm
Max joint diameter	40 mm
Dimensions AxBxC	1,95x1,45x1,35 m
Weight (without rope)	1200 kg
ENGINE	
Feeding	diesel
Power	35 hp / 25,7 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	30 kN
Speed at max pull	20 m/min
Max speed	60 m/min
Pull at max speed	12 kN

OPTIONAL DEVICES

007	Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded).
026	PVC cloth cover.
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067	Telescopic rod to lay underground cables (art. F277).
069.5	Printer with accessories.
047	Hydraulic front stabilisers.

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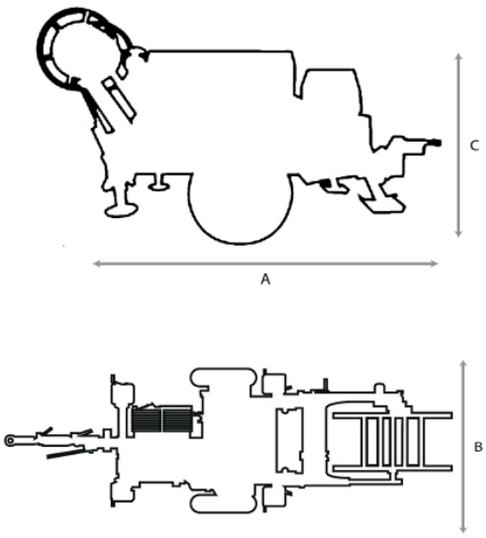
HYDRAULIC PULLER

F280.40.P max pull 40 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- 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.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for a 1400-mm-dia reel, with automatic ropewinder.

FEATURES	
Capstans	2 x Ø 325 mm
Grooves on the capstans	7 + 7
Max rope diameter	16 mm
Max joint diameter	45 mm
Dimensions AxBxC	2,15x1,60x1,55 m
Weight (without rope)	1200 kg
ENGINE	
Feeding	diesel
Power	35,2 hp / 26 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	40 kN
Speed at max pull	18 m/min
Max speed	60 m/min
Pull at max speed	12 kN

OPTIONAL DEVICES

007	Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded).
026	PVC cloth cover.
037 -	Remote control by cable, with 10 m of cable.
038 -	Radio-control (max distance 50 m).
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
067	Telescopic rod to lay underground cables (art. F277).
069.5	Printer with accessories.
047	Hydraulic front stabilisers.

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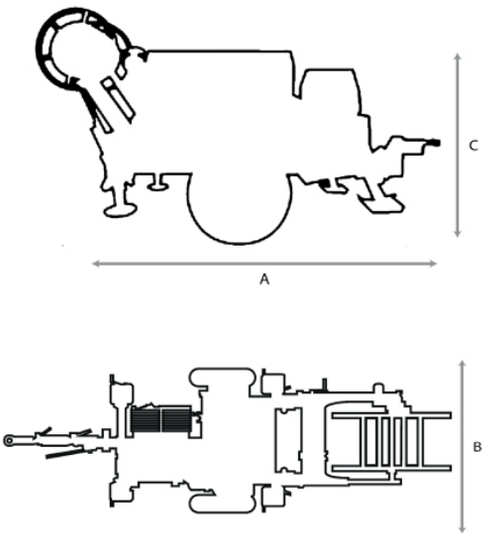
HYDRAULIC PULLER

F230.60.P max pull 60 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- 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.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder.

FEATURES	
Capstans	2 x Ø 400 mm
Grooves on the capstans	8 + 8
Max rope diameter	18 mm
Max joint diameter	50 mm
Dimensions AxBxC	3,20x1,95x2,00 m
Weight (without rope)	2300 kg
ENGINE	
Feeding	diesel
Power	63 hp / 47 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	60 kN
Speed at max pull	20 m/min
Max speed	70 m/min
Pull at max speed	25 kN

OPTIONAL DEVICES

007	Chassis with damped axle, overrun brake and drawbar for towing on road (homologation excluded).
026	PVC cloth cover.
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
047	Hydraulic front stabilisers.
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
069.5	Printer with accessories.
067.1	Telescopic rod for underground operations (art. F276).

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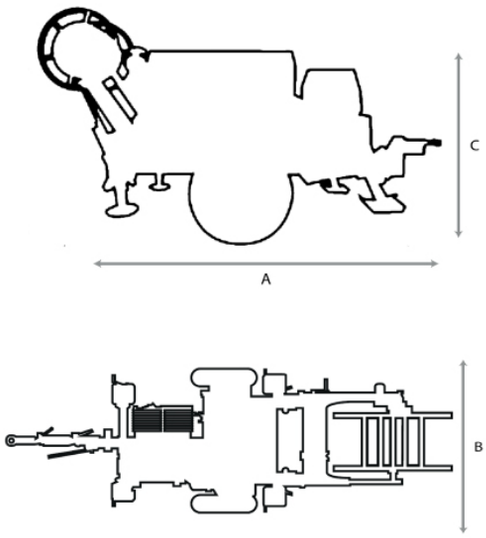
HYDRAULIC PULLER

F235.130.P max pull 130 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- 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.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder.

OPTIONAL DEVICES

008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tyres and lights for towing on the road at 60 km/h (homologation excluded).
026	PVC cloth cover.
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
047	Hydraulic front stabilisers.
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
069.5	Printer with accessories.
084	Bigger reelwinder fit for a 1800-mm-dia reel.
067.1	Telescopic rod for underground operations (art. F276)
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

FEATURES	
Capstans	2 x Ø 450 mm
Grooves on the capstans	9 + 9
Max rope diameter	24 mm
Max joint diameter	60 mm
Dimensions AxBxC	3,70x2,15x2,10 m
Weight (without rope)	2300 kg
ENGINE	
Feeding	diesel
Power	95 hp / 70 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	130 kN
Speed at max pull	18 m/min
Max speed	55 m/min
Pull at max speed	40 kN

ALSO AVAILABLE F235.100.P	
max pull force	100 kN
speed at max pull	22 m/min
max speed	55 m/min
pull at max speed	45 kN

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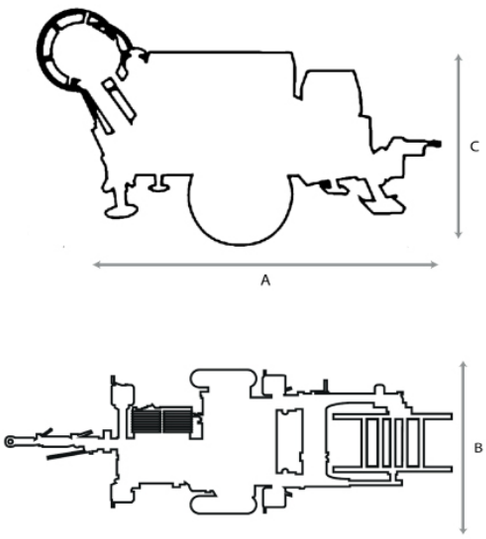
HYDRAULIC PULLER

F260.160.P max pull 160 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multi-grooved high resistance steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- 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.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder.

FEATURES	
Capstans	2 x Ø 600 mm
Grooves on the capstans	10 + 10
Max rope diameter	24 mm
Max joint diameter	60 mm
Dimensions AxBxC	3,95x2,40x2,20 m
Weight (without rope)	5000 kg
ENGINE	
Feeding	diesel
Power	115 hp / 85 kW
Cooling	water
Electric system	12 V
PULL PERFORMANCES	
Max pull	160 kN
Speed at max pull	18 m/min
Max speed	55 m/min
Pull at max speed	50 kN

OPTIONAL DEVICES

006	Lights and pneumatic brake system for towing on the road at max 30 km/h max.
008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tyres and lights for towing on the road at 60 km/h (homologation excluded).
026	PVC cloth cover.
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
047	Hydraulic front stabilisers.
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
069.5	Printer with accessories.
084	Bigger reelwinder fit for a 1800-mm-dia reel.
067.1	Telescopic rod for underground operations (art. F276).
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

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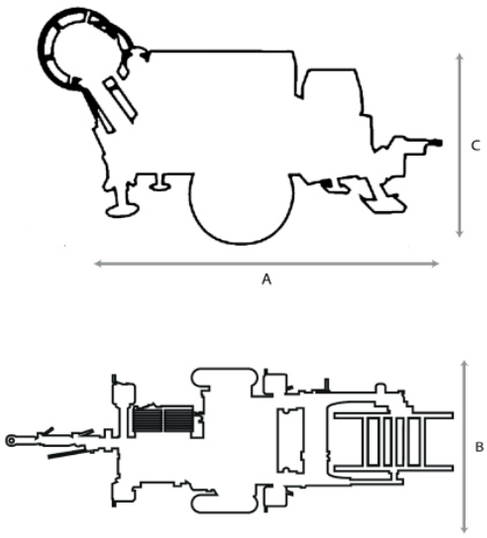
HYDRAULIC PULLER

F260.250.P max pull 250 kN



Hydraulic puller fit to pull one rope in laying underground transmission cables.
One hydraulic circuit allows to continuously vary the speed in both directions by operating one control device.

- One pair of multigrooved high resistance steel capstans fit for stringing one steel rope.
- Machine control panel equipped with built-in electronic instrument featuring a large graphic colour display and a USB port. Main functions include display of pull-force, speed and length of cable in real time, max pull force setting, display of working hours, data recording and storage on a pen-drive (data processing software provided).
- 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.
- Attachments for anchoring and for lifting.
- Heat exchanger to cool the oil in the hydraulic circuit.
- Pulley for rope arranged for telescopic rod.
- Reelwinder fit for a 1600-mm-dia reel, with automatic ropewinder.

FEATURES	
Capstans	2 x Ø 600 mm
Grooves on the capstans	10 + 10
Max rope diameter	24 mm
Max joint diameter	60 mm
Dimensions AxBxC	3,95x2,40x2,20 m
Weight (without rope)	6500 kg
ENGINE	
Feeding	diesel
Power	133 hp / 95 kW
Cooling	water
Electric system	24 V
PULL PERFORMANCES	
Max pull	250 kN
Speed at max pull	12 m/min
Max speed	40 m/min
Pull at max speed	70 kN

ALSO AVAILABLE F260.200.P	
max pull force	200 kN
speed at max pull	18 m/min
max speed	45 m/min
pull at max speed	80 kN

OPTIONAL DEVICES

006	Lights and pneumatic brake system for towing on the road at max 30 km/h max.
008	Axle with leaf spring suspensions, drawbar, pneumatic braking system, tyres and lights for towing on the road at 60 km/h (homologation excluded).
026	PVC cloth cover.
028.7	Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
037	Remote control by cable, with 10 m of cable.
038	Radio-control (max distance 50 m).
047	Hydraulic front stabilisers.
051.3	Motorised rubber caterpillars.
038.C	Radio-control for caterpillars.
069.5	Printer with accessories.
084	Bigger reelwinder fit for a 1800-mm-dia reel.
067.1	Telescopic rod for underground operations (art. F276).
082	Device for pull force setting, which allows to maintain the pre-set force even at speed '0' (fit for pipe refurbishing).

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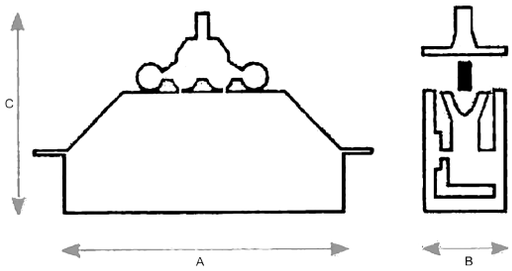
CABLE-PUSHER

cable-pusher machines

F224 pushing force 0-8 kN



F306.08.SP **F224.08**

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.

CABLE-PUSHER UNIT

- Cable-pusher unit made of electro-welded steel frame with fittings for anchoring and lifting.
- One pair of tracks ("V-placed") with upper rollers operated by hand, with reaction spring to press the cable against the tracks for a more efficient push.
- Reversible hydraulic motor for operating the tracks. The motor is fitted with quick couplings to connect the power unit through flexible hoses.

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.

OPTIONAL

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.
RCI–1	Hydraulic device controlling the pressure of the upper rollers over the cable, controlled by the power unit.
CAV-1	Adaptation machine for push cable diameters up to Ø150 mm.
POT-1	Thrust force / traction increased up to 12 kN, speed 0 – 17 m/min.

CABLE-PUSHER UNIT F224.08	
Pushing force	0–8 kN
Pushing speed	0–20 m/min
Cable diameter (min - max)	40-135 mm
Track length	800 mm
Hoses length	5 m
Dimensions AxBxC	1,30x0,35x0,80 m
Weight of cable-pusher unit	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 of power unit	0,75x0,50x0,60 m
Weight of power unit	65 kg

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MACHINE ACCESSORIES

digital built-in data read-out

DEG

NEW

Electronic instrument for monitoring the working values. Fit for OMAC pullers, tensioners and puller-tensioners.

A must-have device installed on all OMAC machines as a standard.

FEATURES

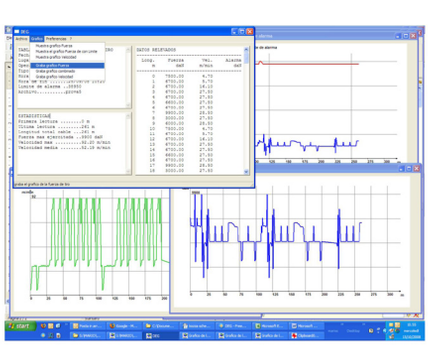
- Large screen (4,3”), allowing for excellent visibility from any angle.
- Graphic, color display.
- Integrated into the main control panel.
- High Capacity memory: over 200 km of line.
- High Accuracy and Reliability thanks to the load cells and encoder system.
- Equipped with USB port.
- Ease of use.

FUNCTIONS

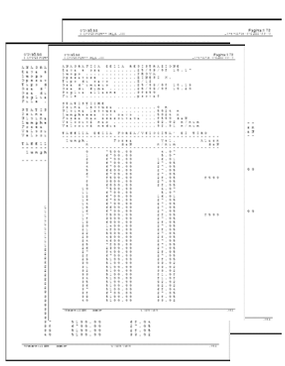
- Reads and displays the pull-force, the speed and the length of cable in real time.
- Max-pull force setting.
- Display of working hours.
- Data recording.
- Data storage on a pen-drive.
- Software provided allows for handling the data stored.

OPTIONAL 069.5

Portable printer c/w connection cable to be plugged to the machine. Fit for printing the recorded data directly in the job-site. Supplied in aluminium case.



Our software helps analyse and page the data monitored



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remote controls

REC remote control by cable

REC.1

Compact remote control by cable. Fit for "puller" machines with 1 hydraulic circuit. Pull/release buttons and emergency stop button. 10 m of connection cable.

REC.2

Remote control by cable. Fit for "puller" machines with 1 hydraulic circuit.

The control is complete with:

- mini joystick for controlling the rotation of the capstans
- speed-adjustment control
- emergency stop button
- 10 m of the connection cable

OPTIONAL

01 Dynamometer to read the pulling force, metercounter and speedometer.
02 Engine start/stop.
03 Engine accelerator.

RER.1 remote radio-control

Remote radio-control fit for single circuit machines. Max operative distance: up to 100 m.

The radio-control is complete with:

- mini joystick for controlling the rotation of the capstans
- speed-adjustment control
- emergency stop button
- back-up cable for connecting the control to the machine in case of emergency.

OPTIONAL

01 Dynamometer to read the pulling force, metercounter and speedometer.
02 Engine start/stop.
03 Engine accelerator.

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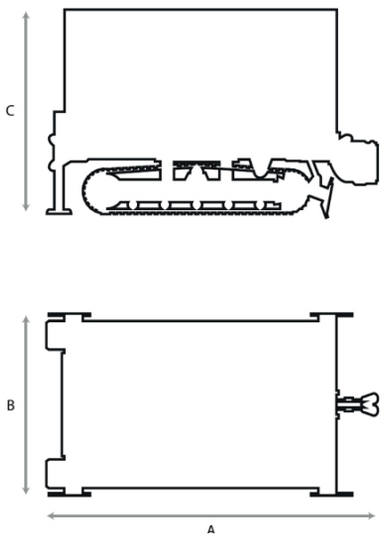
opt. 051.3 caterpillar for puller



Caterpillar for puller. High-resistance rubber caterpillars.

- 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.

PERFORMANCES	
Moving speed	adjustable
Max speed	2 km/h
Max inclination	80%
Minimum turning radius	4,50 m
Ground loading	0,26 kg/cm3
SAMPLES OF APPLICATION (1)	
puller F275.P.40	
Dimensions AxBxC	2,15 x 1,80 x 1,40 m
Total weight	1800 kg
puller F280.P.100	
Dimensions AxBxC	2,86 x 1,85 x 1,87 m
Total weight	3600 kg
puller F260.P.400	
Dimensions AxBxC	4,50 x 2,20 x 2,60 m
Total weight	12500 kg
puller F275.30.P	
Dimensions AxBxC	1,95 x 1,45 x 1,40 m
Total weight	1500 kg
puller F280.40.P	
Dimensions AxBxC	2,20 x 1,60 x 1,60 m
Total weight	2300 kg
puller F230.60.P	
Dimensions AxBxC	3,20 x 1,95 x 2,00 m
Total weight	3000 kg

(1) dimensions and weight of standard machines with caterpillar, with no other optional devices or rope. For performances and features of the machines, please refer to their data sheet

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telescopic rods for pits

F276.200

F276.60
F276.100

F278.20
F278.40

F277.20
F277.40

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.

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

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 e F278).
205 Telescopic strut with pulley to space the puller from the manhole.
206 Hydraulic control of the rod extension (only for mod. F276 e 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

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