

# UNDERGROUND CABLE AND PIPES LINES

MACHINES AND EQUIPMENT









# INDEX

## MACHINES

01	FULL-ELECTRIC PULLER	11
02	HYDRAULIC PULLERS	15
03	ULTRA DISTANCE HYDRAULIC PULLERS	27
04	RECOVERING HYDRAULIC PULLER	37
05	STANDARD DEVICES	39
06	ADDITIONAL DEVICES	43
07	HYDRAULIC CABLE PUSHER	49







## INDEX

### EQUIPMENT

01	REEL-STANDS AND TRAILERS	55
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02	HYDRAULIC POWER UNITS	67
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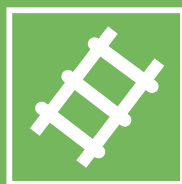
03	REELS AND ROPES	71
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04	ACCESSORIES	77
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# MACHINES







# SUMMARY

## FULL-ELECTRIC PULLER

### CABLE LAYING

MODEL	CAPACITY
UP50-E	50 kN

## HYDRAULIC PULLERS

### CABLE LAYING

MODEL	CAPACITY
UP30	30 kN
UP40	40 kN
UP50	50 kN

### CABLE LAYING & PIPE RENEWAL

MODEL	CAPACITY
UP100.B	100 kN
UP100	100 kN
UP150	150 kN
UP200	200 kN
UP220 + 051.3	220 kN
UP400	400 kN
UP600	600 kN

## ULTRA DISTANCE HYDRAULIC PULLERS

### CABLE LAYING

MODEL	CAPACITY
P20.U	20 kN
P30.U	30 kN
P50.U	50 kN

### CABLE LAYING & PIPE RENEWAL

MODEL	CAPACITY
P100.U	100 kN
P150.U	150 kN
P200.U	200 kN
P220.U	220 kN
P400.U	400 kN
P600.U	600 kN

## RECOVERING HYDRAULIC PULLER

### CABLE RECOVERING

MODEL	CAPACITY
UPR100	100 kN

## HYDRAULIC CABLE PUSHER

### CABLE LAYING

MODEL	CAPACITY
F224	8 - 12 kN
F224.25.150	0-25 kN





# FULL-ELECTRIC PULLER

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# UP50-*E*

Full Electric Underground Puller

A blue cloud-like shape containing the text "CO<sub>2</sub>".

CO<sub>2</sub>

**ZERO EMISSIONS**

A blue oil barrel with a yellow warning triangle on top and a white oil drop on its side.

**ZERO POLLUTION**

A bar chart with several vertical bars of varying heights, colored in shades of blue and black.

**ZERO NOISE**

A green and white globe with a small green plant sprout growing from the top right.

**100% GREEN**

A blue wrench and a blue gear with an orange hexagonal center.

**ZERO MAINTENANCE**

A green shield with a white checkmark inside.

**100% SAFE**



# UP50-E MAX PULL 50 KN

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

-  **MAX PULL**  
50 kN
-  **MAX SPEED**  
50 m/min
-  **MAX ROPE**  
14 mm
-  **CAPSTANS**  
2 x Ø250 mm



## FEATURES

CAPSTANS	2 x Ø 250 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 <sub>4</sub> )
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.

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 PULLERS

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# UP30 MAX PULL 30 KN

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

-  **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

## REEL

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

## PULL PERFORMANCES

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

## ENGINE

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

## 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.

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.





# UP40 MAX PULL 40 KN

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

-  **MAX PULL**  
40 kN
-  **MAX SPEED**  
65 m/min
-  **MAX ROPE**  
12 mm
-  **CAPSTANS**  
2 x Ø 250 mm



## FEATURES

CAPSTANS	2 x Ø 250 mm
MAX ROPE DIAMETER	12 mm
DIMENSIONS L x W x H	3880 x 1820 x 1640 mm
WEIGHT (WITHOUT ROPE)	1700 kg

## PULL PERFORMANCES

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

## REEL

CAPACITY OF STEEL ROPE:	
Ø 8 mm	2000 m
Ø 10 mm	1500 m
Ø 12 mm	1000 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

- 027.2 Fully openable cover in composite material
- 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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# UP50 MAX PULL 50 KN

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

- **MAX PULL**  
50 kN
- **MAX SPEED**  
80 m/min
- **MAX ROPE**  
14 mm
- **CAPSTANS**  
2 x Ø 250 mm



## FEATURES

CAPSTANS	2 x Ø 250 mm
MAX ROPE DIAMETER	14 mm
DIMENSIONS L x W x H	3880 x 1820 x 1640 mm
WEIGHT (WITHOUT ROPE)	1700 kg

## REEL

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

## PULL PERFORMANCES

MAX PULL	50 kN
SPEED AT MAX PULL	13 m/min / 20 m/min*
MAX SPEED	80 m/min
PULL AT MAX SPEED	8 kN

## ENGINE

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

## OPTIONAL DEVICES

- 027.2 Fully openable cover in composite material
- 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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# UP100.B

 MAX PULL 100 kN

Hydraulic puller 100 kN. Fit to pull one rope in laying underground transmission cables and fibre-optic cables.

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



## FEATURES

<b>CAPSTANS</b>	2 x Ø 325 mm
<b>MAX ROPE DIAMETER</b>	16 mm
<b>DIMENSIONS L x W x H</b>	4385 x 1760 x 1615 mm
<b>WEIGHT (WITHOUT ROPE)</b>	2300 kg

## REEL

<b>CAPACITY OF STEEL ROPE:</b>	
<b>Ø 16 mm</b>	1000 m
<b>Ø 14 mm</b>	1400 m
<b>Ø 12 mm</b>	1900 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 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

## PULL PERFORMANCES

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

## ENGINE

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

## 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

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# UP100

 MAX PULL 100 kN

Hydraulic puller 100 kN. Fit to pull one rope in laying underground transmission cables and fibre-optic cables.



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

## FEATURES

<b>CAPSTANS</b>	2 x Ø 350 mm
<b>MAX ROPE DIAMETER</b>	18 mm
<b>DIMENSIONS L x W x H</b>	5140 x 1985 x 1975 mm
<b>WEIGHT (WITHOUT ROPE)</b>	3500 kg

## PULL PERFORMANCES

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

## REEL

<b>CAPACITY OF STEEL ROPE:</b>	
<b>Ø 18 mm</b>	1100 m
<b>Ø 16 mm</b>	1500 m

## ENGINE

<b>FEEDING</b>	Diesel
<b>POWER</b>	42 kW / 55 kW *
<b>COOLING</b>	water
<b>STARTING</b>	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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Performances of the machine without optional devices, at sea level and temperature 20°C.  
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# 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

<b>CAPSTANS</b>	2 x Ø 350 mm
<b>MAX ROPE DIAMETER</b>	18 mm
<b>DIMENSIONS L x W x H</b>	5140 x 1985 x 1975 mm
<b>WEIGHT (WITHOUT ROPE)</b>	3500 kg

## PULL PERFORMANCES

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

## REEL

<b>CAPACITY OF STEEL ROPE:</b>	
<b>Ø 18 mm</b>	1100 m
<b>Ø 16 mm</b>	1500 m

## ENGINE

<b>FEEDING</b>	Diesel
<b>POWER</b>	42 kW / 55 kW *
<b>COOLING</b>	water
<b>STARTING</b>	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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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.

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.



# 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

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

## PULL PERFORMANCES

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

## REEL

<b>CAPACITY OF STEEL ROPE:</b>	
<b>Ø 18 mm</b>	1500 m
<b>Ø 22 mm</b>	1000 m

## ENGINE

<b>FEEDING</b>	Diesel
<b>POWER</b>	55 kW / 55 kW *
<b>COOLING</b>	water
<b>STARTING</b>	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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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.

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.



# UP220 + 051.3 MAX PULL 220 kN

Hydraulic puller 220 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing. Puller with motorized rubber crawler system (optional 051.3.).



-  **MAX PULL**  
220 kN
-  **MAX SPEED**  
35 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	4200 x 2450 x 2400 mm
WEIGHT (WITHOUT ROPE)	8500 kg

## REEL

CAPACITY OF STEEL ROPE:	
Ø 18 mm	3000 m
Ø 22 mm	2000 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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

- 069.5 Printer with accessories
- 107 OLS - OMAC Link System. GPS geolocation +remote monitoring and diagnostics

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

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.

## PULL PERFORMANCES

MAX PULL	220 kN
SPEED AT MAX PULL	8 m/min
MAX SPEED	35 m/min
PULL AT MAX SPEED	50 kN

## ENGINE

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

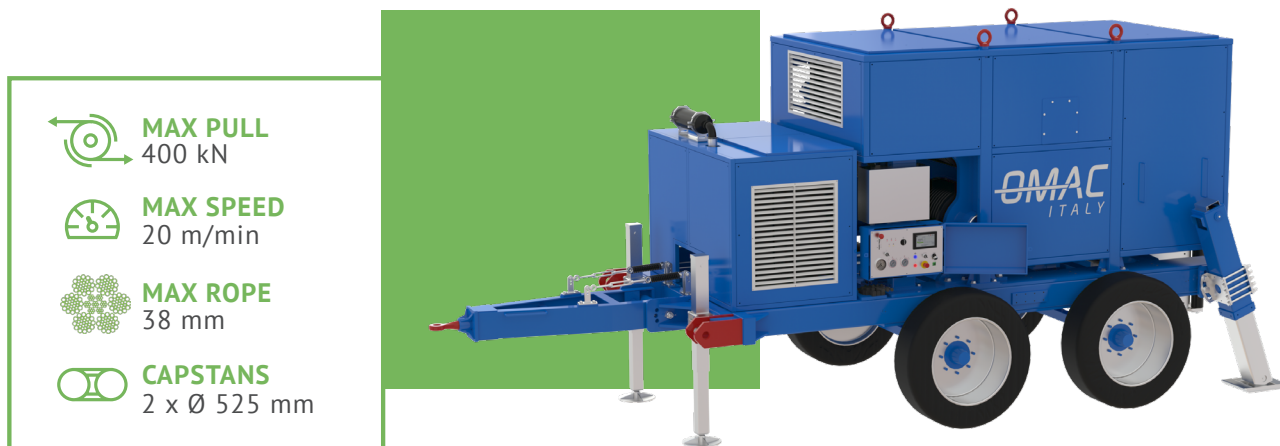
## CONFIGURATION - CRAWLER SYSTEM

- The crawler 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 for crawler system and puller
- Hydraulic controlled share on the pull side, for anchoring the machine
- Back stabilizers
- Front and back hooks for towing the machine



# 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

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

## PULL PERFORMANCES

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

## REEL

<b>CAPACITY OF STEEL ROPE:</b>	
<b>Ø 32 mm</b>	1000 m
<b>Ø 38 mm</b>	700 m

## ENGINE

<b>FEEDING</b>	Diesel
<b>POWER</b>	97 kW / 105 kW *
<b>COOLING</b>	water
<b>STARTING</b>	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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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

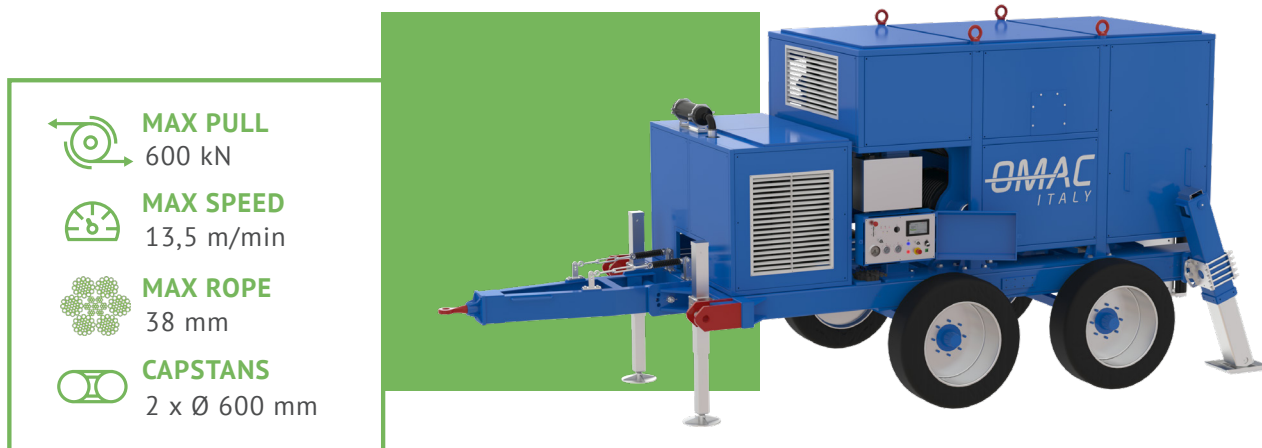
\* According to the EC directive 97/68/CE with subsequent amendments and additions.

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.



# UP600 MAX PULL 600 kN

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



	<b>MAX PULL</b> 600 kN
	<b>MAX SPEED</b> 13,5 m/min
	<b>MAX ROPE</b> 38 mm
	<b>CAPSTANS</b> 2 x Ø 600 mm

## FEATURES

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

## REEL

<b>CAPACITY OF STEEL ROPE:</b>	
<b>Ø 32 mm</b>	1000 m
<b>Ø 38 mm</b>	700 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min.
- 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

## PULL PERFORMANCES

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

## ENGINE

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

## 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
- 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.

Performances of the machine without optional devices, at sea level and temperature 20°C.  
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# ULTRA DISTANCE HYDRAULIC PULLERS

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# P20.U MAX PULL 20 KN

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

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



## FEATURES

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

## REEL

<b>TYPE</b>	extractable self-loading
<b>CAPACITY:</b>	
<b>NYLON ROPE Ø 12 mm</b>	700 m
<b>STEEL ROPE Ø 8 mm</b>	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

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

## ENGINE

<b>FEEDING</b>	gasoline
<b>POWER</b>	15 kW
<b>COOLING</b>	air
<b>STARTING</b>	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
- 014.3** 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



# P30.U MAX PULL 30 KN

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

-  **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.

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.





# P50.U MAX PULL 50 KN

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

-  **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.

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.



# P100.U MAX PULL 100 KN

Hydraulic puller 100 kN. Fit to pull one rope in laying underground transmission cables and fibre-optic cables.

-  **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
- 084** Bigger reel-winder arm fit for Ø 1900 mm steel reel  
Load capacity = 2000 kg
- 107** OLS - OMAC Link System. GPS geolocation + remote monitoring and diagnostics

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

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.



# P150.U 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**  
55 m/min
-  **MAX ROPE**  
24 mm
-  **CAPSTANS**  
2 x Ø 525 mm



## 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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.

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.



# 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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.

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.





# P220.U

 MAX PULL 220 KN

Hydraulic puller 220 kN. Fit to pull one rope in laying underground transmission cables and pipes refurbishing with high load reel-winder arm for high capacity of rope.

-  **MAX PULL**  
220 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 2600 mm
WEIGHT (WITHOUT ROPE)	8500 kg

## PULL PERFORMANCES

MAX PULL	220 kN
SPEED AT MAX PULL	12 m/min / 14 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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 up to max. Ø 2200 mm (load capacity 5000 kg)**
- 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
- 038** Radio-control (max distance 100 m)
- 069.5** Printer with accessories
- 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
- 008** Damped axle complete with air braking system, drawbar and lights
- 006.2** Pneumatic brake system for towing the machine on the road

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

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.



# 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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.

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.







# 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	120 kN / 120 kN*

## ENGINE

FEEDING	diesel
POWER	145 kW / 145 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
- Device for pipe refurbishing. Fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min
- 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
- 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.

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.



# RECOVERING HYDRAULIC PULLER

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# 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 650-350 mm

## FEATURES

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

## PULL PERFORMANCES

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

## ENGINE

<b>FEEDING</b>	diesel
<b>POWER</b>	42 kW / 55 kW*
<b>COOLING</b>	Water
<b>STARTING</b>	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

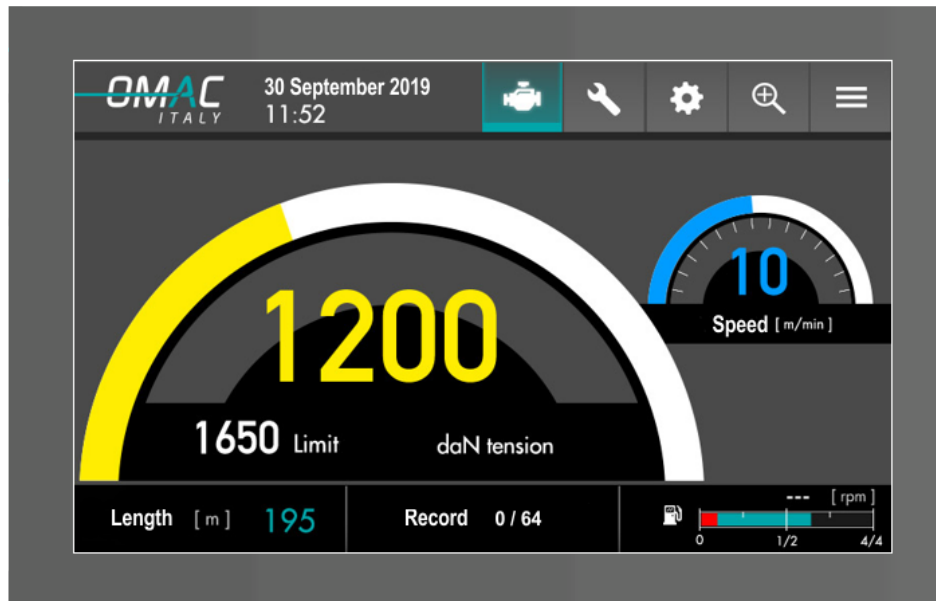
\* According to the EC directive 97/68/CE with subsequent amendments and additions.

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.



# STANDARD DEVICES

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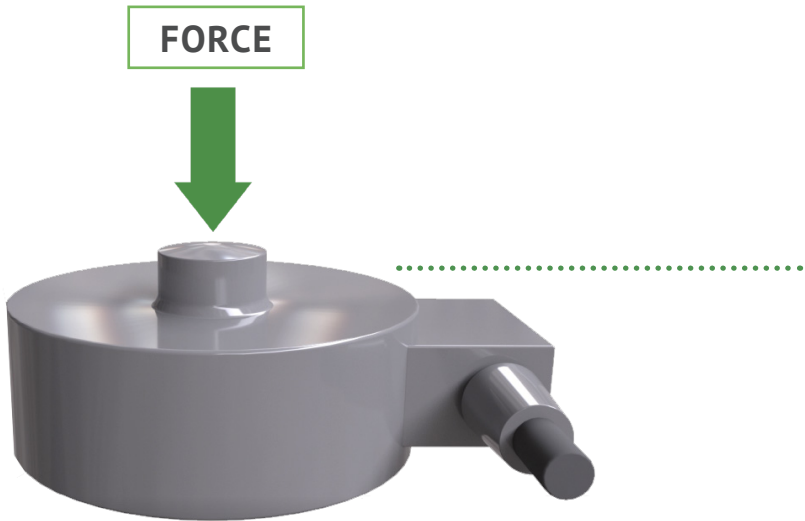
## DIGITAL RECORDER BUILT-IN ALL THE MACHINES AS A STANDARD

### FEATURES

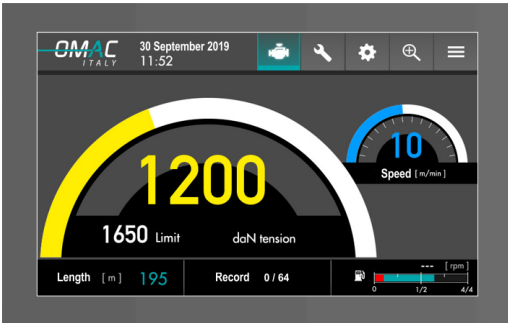
- Large-sized (7") color graphic display, built in the main control panel
- Resistive type glove-friendly touch-screen, intuitive as well as easy in setting-up and browsing through
- High capacity memory: over 200 km of line
- High accuracy and reliability by means of the load cell and encoder system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

### FUNCTIONS

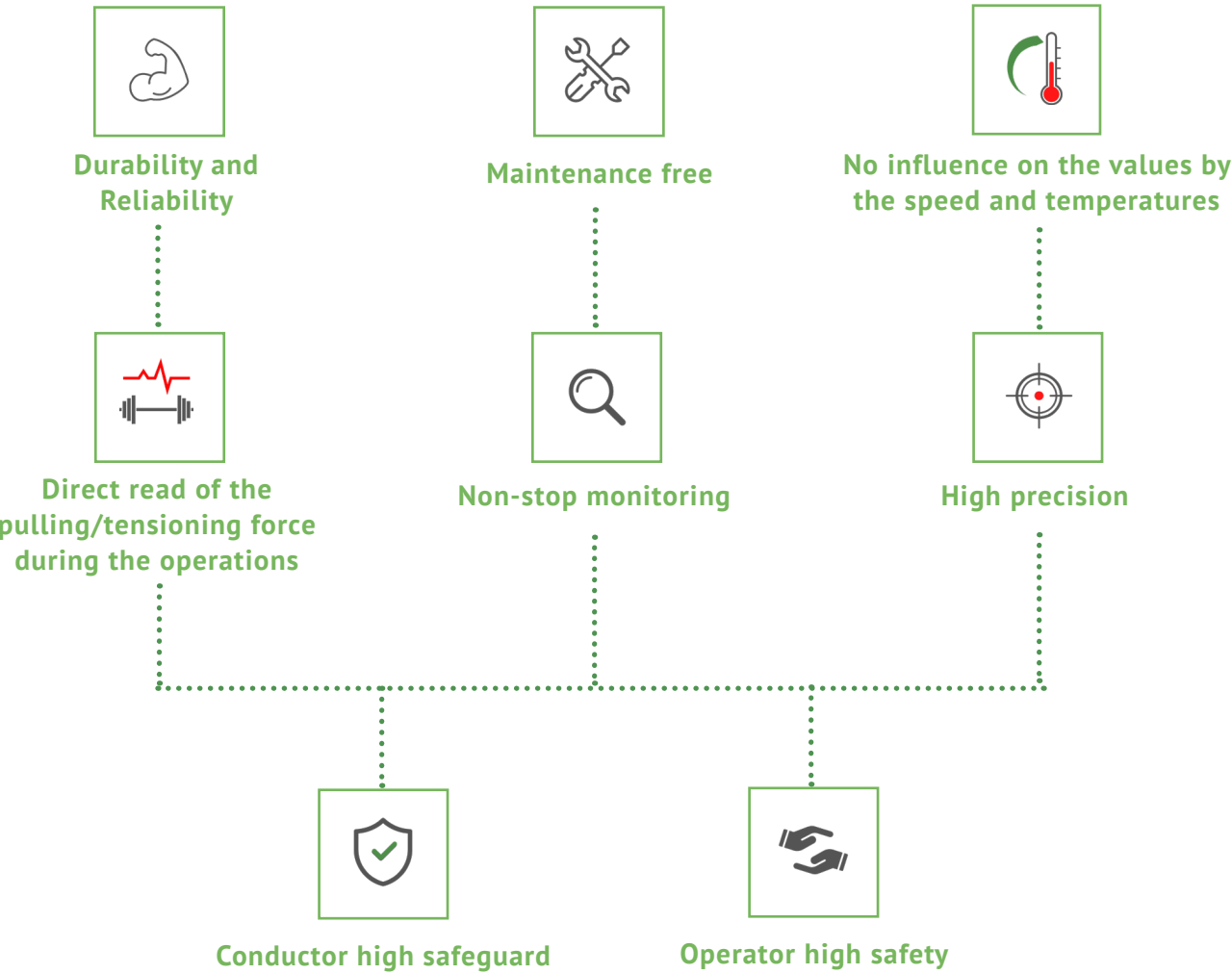
- Real-time reading and recording pulling force, max pull alarm, speed and length of cable/conductor
- ZOOM mode
- Max pull force setting
- Display of working parameters (force, speed, distance covered and time elapsed)
- Help page on board
- Fuel level
- Electronic engine parameters
- Maintenance schedules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



Electronic Load Cell



Omac Digital built-in data read out







# ADDITIONAL DEVICES

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**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**



## CABLE REMOTE CONTROL



### 037.2

Compact remote control by cable. Fit for “puller” machines.  
Pull/release buttons and emergency stop button. 6-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)



# 051.3

Motorised rubber crawler system for puller.

## PERFORMANCES

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

## FEATURES

- The crawler 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

## 051.3 mod. P

MOD. P	DIMENSIONS LxWxH	TOTAL WEIGHT	ROPE (*)
P30.U	2550 x 1650 x 1450 mm	1920 kg	1
P50.U	2600 x 1300 x 1600 mm	2025 kg	1
P100.U	4200 x 2100 x 1950 mm	5330 kg	1
P150.U	4650 x 2200 x 2400 mm	8360 kg	1

(1) Weight without rope  
(2) Weight with rope

## 051.3 mod. UP

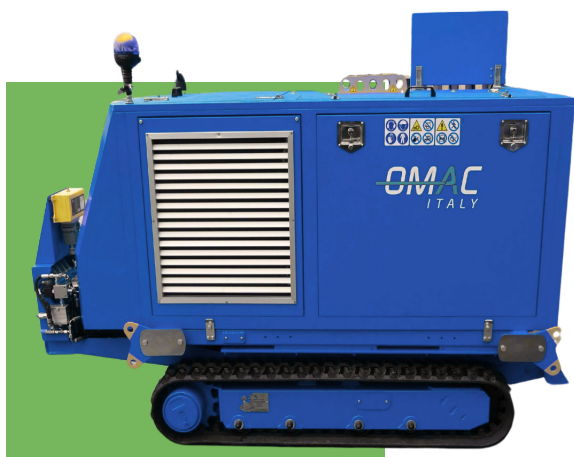
MOD. P	DIMENSIONS LxWxH	TOTAL WEIGHT	ROPE (*)
UP50	2350 x 1350 x 1600 mm	3200 kg	2
UP100.B	3200 x 1700 x 1800 mm	4100 kg	2
UP150	3500 x 1800 x 2000 mm	4800 kg	2

(1) Weight without rope  
(2) Weight with rope

## 051.3 mod. PT

MOD. P	DIMENSIONS LxWxH	TOTAL WEIGHT	ROPE (*)
PT50.2	4800x2000x2850 mm	6215 kg	1

(1) Weight without rope  
(2) Weight with rope



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.



# 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
<b>F276.60</b>	6000 / 10000	500 / 2000	1000 / 1500	120	150	-
<b>F276.100</b>	10000 / 15000	500 / 2000	1400 / 1800	150	200	-
<b>F276.200</b>	20000	1000 / 2000	1500 / 2000	200	350	-
<b>F277.20</b>	2000	0 / 1500	400 / 700	60	55	-
<b>F277.40</b>	3000 / 4000	0 / 1500	400 / 700	80	50	-
<b>F278.20</b>	2000	0 / 1500	1000 / 1400	60	55	2,5
<b>F278.40</b>	3000 / 4000	100 / 2000	1000 / 1500	80	100	3,0





# HYDRAULIC CABLE PUSHER

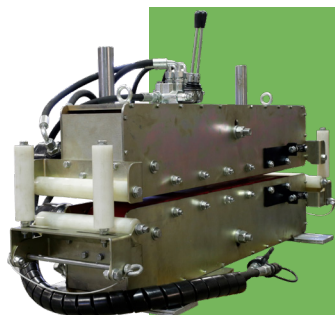
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# F224 PULLING FORCE 0-12 KN

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.



F224.12



F306

## CABLE-PUSHER UNIT F224.12

<b>PUSHING FORCE</b>	0-12 kN
<b>PUSHING SPEED</b>	0-20 m/min
<b>CABLE DIAMETER (MIN-MAX)</b>	40-150 mm
<b>TRACK LENGTH</b>	800 mm
<b>DIMENSIONS LxWxH</b>	1,30x0,35x0,80 m
<b>WEIGHT</b>	205 kg

## POWER UNIT

	F306.06.CA.ET	F306.13.CA.B	F306.10.CA.D
<b>FEEDING</b>	electric three phase 380 V	gasoline	diesel
<b>POWER</b>	4 kW	9,5 kW	7,5 kW
<b>COOLING</b>	air	air	air
<b>DIMENSIONS LxWxH</b>	0,7x0,5x0,57 m	0,7x0,5x0,57 m	0,85x0,6x0,65 m
<b>WEIGHT</b>	65 kg	67 kg	95 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

- 418** Cable-pusher unit complete with wheels for easy moving
- 078.1** Flexible hoses 10-m long

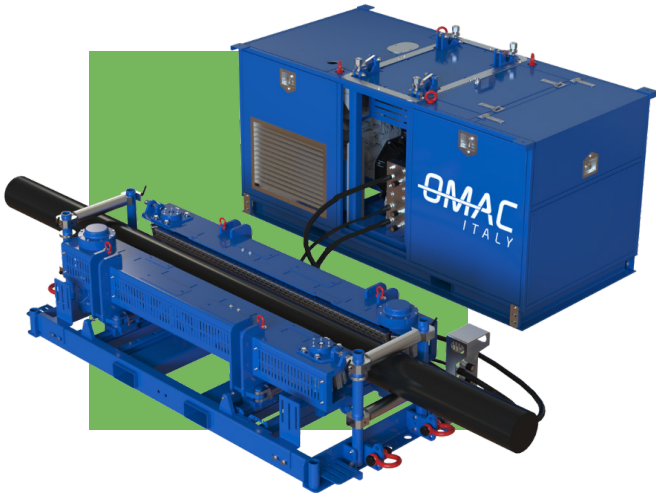
### POWER UNIT

- Power unit, with opened type 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



# F224.25.150 PULLING FORCE 25 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.



## CABLE-PUSHER UNIT F224.25.150

PUSHING FORCE	25 kN
PUSHING SPEED	0-20 m/min
CABLE DIAMETER (MIN-MAX)	80-200 m
TRACK LENGTH	1500 mm
DIMENSIONS LxWxH	2,10 x 0,95 x 0,70 m
WEIGHT	750 kg

## POWER UNIT

	F306.25.CC.SP
FEEDING	diesel
POWER	18,8 kW / 18,9 kW*
COOLING	water
DIMENSIONS LxWxH	1,90 x 1,00 x 1,00 m
WEIGHT	950 kg

### CABLE-PUSHER UNIT

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

### POWER UNIT

- Power unit, with closed type 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

### OPTIONAL DEVICES

- 040.1 Electronic instrument DEG 4.0 for reading the working parameters: pushing force, speed, meter-counter and compression force
- 038 Radio remote control c/w display fit for control and read the pushing parameters
- 078.1 Flexible hoses 10-m long

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

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.







# F224

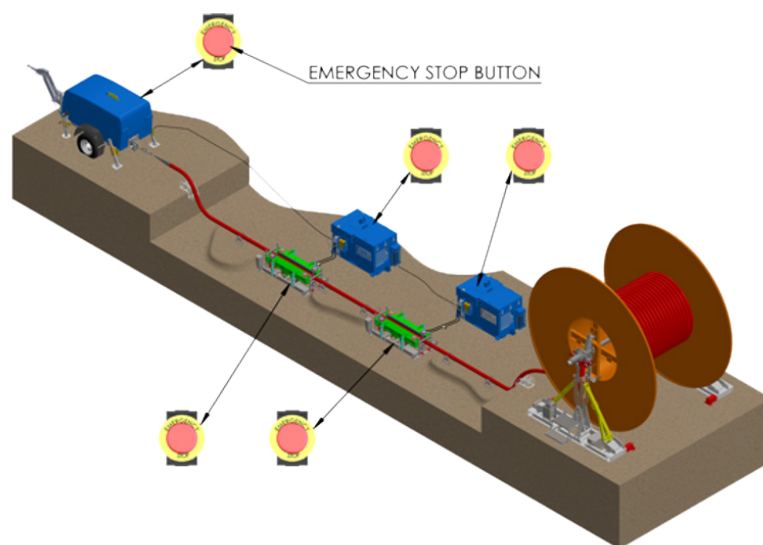
The F224 cable pusher is fed by a separate hydraulic power pack F306.

The hydraulic power packs F306 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.

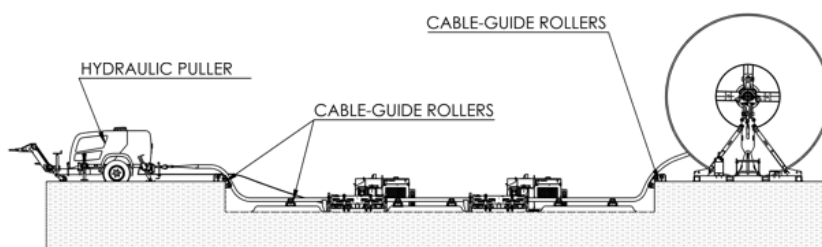
The synchronization system is equipped with emergency buttons, one on each hydraulic power pack, in order to stop the complete system (puller machine + cable pushers) in case of emergency.



The synchronization system is composed by:

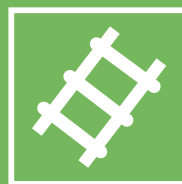
- N°01 Synchronization kit mounted on the puller machine (Master) – Opt. PSI
- The puller machine must be equipped with "Mooring" device for pipe refurbishing fit for setting the max. pull force which allows to maintain the force set even at speed 0 m/min – Opt. 082
- N°01 synchronization block valve between each cable pushers F224 and its hydraulic power pack F306 – 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.





# EQUIPMENT







# REEL-STANDS & TRAILERS

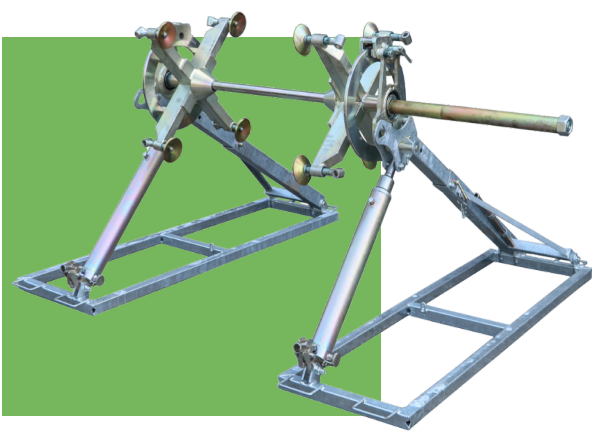
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# F155.B

MAX LOAD 40 TO 70 KN

- Suitable for conductor wooden drums or reels for aerial stringing operations and underground cabling
- Made in steel with foldable structure for ease of transport
- Drum lifting system by hydraulic jacks
- N°2 mechanical disc brakes to control and adjust the torque force pull, with replaceable brake pads
- Steel shaft on ball-bearings with adjustment wedges



OPTIONAL DEVICES

- 410.3 No. 1 or 2 disc brakes with hydraulic clamp controlled by manual pump
- 402.2 Mechanical safe-stops mounted on the jack arm

	Max load of the pair of reel-stands	Reel diameter min-max (*)	Reel max width	Spindle diameter	Braking torque with 2 brakes	Braking torque with 2 brake opt. 410.3	Dimensions of each reel-stand	Weight of the pair of re- el-stands (²)
	daN	daN m	daN m	mm	daN m	daN m	m (LxW)	kg
F155.040.B	4000	0,8 - 2,8	1,4	40	100	150	1,8 x 0,50	230
F155.070.B	7000	1,0 - 2,8	1,5	40	100	150	2,0 x 0,50	280

(\*) on demand we can supply stands fit for reels with bigger diameter  
(²) weight of a pair of standard stands, with no optional devices

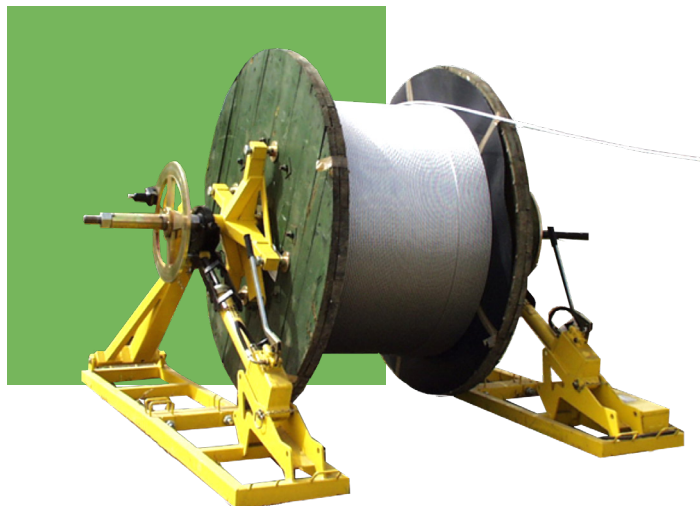




## F155 MAX LOAD 70 TO 200 KN

Stands fit for steel or wooden reels, used for lifting a reel and braking it while stringing the conductor/cable. The reel stands, as an option, can be hydraulically driven by a hydraulic power unit. Reel-stands are supplied in pairs.

- No. 1 self-braking disk brake
- Each stand can be raised or lowered independently by a hydraulic hand pump
- Mechanical safe-stops mounted on the jack arm
- Side supports with ball joints
- Spindle complete with accessories
- Conical bushes for wooden reels (diameter on demand)
- Welded and painted steel framework with attachments for anchoring
- Metallic tool box for the accessories
- Devices fit for steel reel and bushes to centre the reel hole (diameter on demand)

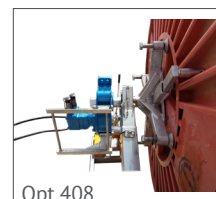


### OPTIONAL DEVICES

- 423** Additional disk brake (2 brakes in total)
- 410.3** No. 1 or 2 disc brakes with hydraulic clamp controlled by manual pump
- 408** Hydraulic drive to control the reel rotation, either recovering or releasing the conductor/cable (to be fed by hydraulic power unit)
- 078.1** Set of flexible hoses for feeding the drive unit (available lengths: 7, 10, 15 m)
- 411.1** N.1 driving arm with n. 2 pins "U" type fit for steel drums
- 419.1** Manual rope-winder, fit to stratify different diameters of rope (max reel width to be confirmed). Available for mod. F155.070 only
- 419.2** Automatic rope-winder, fit to stratify different diameters of rope (suitable for standard steel reels mod. F162 and F164). Available for mod. F155.160 and F155.200
- 419.3** Automatic rope-winder, fit to stratify different diameters of rope (max reel width to be confirmed). Available for mod. 155.070



Opt.410.3



Opt.408

	Reel diameter min-max <sup>(1)</sup>	Reel max width	Spindle diameter	Dimensions of each reel-stand	Weight of the pair of reel-stands <sup>(2)</sup>
	m	m	mm	m (LxW)	kg
<b>F155.070</b>	1,00–2,80	1,50	55	2,10 x 0,50	420
<b>F155.080</b>	1,20–3,20	1,70	70	2,40 x 0,60	560
<b>F155.100</b>	1,50–3,20	1,70	70	2,40 x 0,60	580
<b>F155.120</b>	1,50–3,60	2,00	85	2,60 x 0,60	900
<b>F155.160</b>	2,00–4,00	3,00	95	3,10 x 0,60	1350
<b>F155.200</b>	2,00–4,00	3,00	95	3,10 x 0,60	1400

(<sup>1</sup>) on demand we can supply stands fit for reels with bigger diameter - (<sup>2</sup>) weight of a pair of standard stands, with no optional devices.

	Max load of the pair of reel-stands	Braking torque with standard brake	Braking torque with 2 brakes opt. 423	Braking torque with brake opt. 410.3	Performances with drive opt. 408			Weight
					Max braking torque	Max recovery torque	Max speed <sup>(3)</sup>	
	daN	daN m	daN m	daN m	daN m	daN m	km/h	kg
<b>F155.070</b>	7000	150	300	—	225	200	5	65
<b>F155.080</b>	8000	230	460	—	450	400	5	120
<b>F155.100</b>	10000	230	460	800	450	400	5	130
<b>F155.120</b>	12000	280	560	800	450	400	5	140
<b>F155.160</b>	16000	280	560	1000	1400	1500	5	220
<b>F155.200</b>	20000	280	560	1200	1400	1500	5	220

(<sup>3</sup>) powered by hydraulic circuit of a tensioner and puller-tensioner or power unit.

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.



## F155.A MAX LOAD 300/500 KN

Stands fit for steel or wooden reels, used for lifting a reel and braking it while stringing the conductor/cable. The reel stands, as an option, can be hydraulically driven by a hydraulic power unit. Reel-stands are supplied in pairs.

- Each stand can be raised or lowered independently by a hydraulic hand pump
- Side supports with ball joints
- Spindle complete with accessories
- Conical bushes for wooden reels and cylindrical bushes for steel reels (diameter on demand)
- Welded and painted steel framework with attachments for anchoring
- Frame fit for being lifted by crane or fork
- Metallic tool box for the accessories
- Ladder and footboard for the operator
- Dials to close and drag steel and wooden reels, with detachable disk brake
- Disk brake with manual regulation
- Reel lifting/lowering system controlled by separate hydraulic circuit. Complete with flexible hoses 10 m long with quick couplings

ALSO AVAILABLE F155.A.400 (40 TON MAX LOAD)



### OPTIONAL DEVICES

- 402** Additional conical or cylindrical bushes for wooden or steel reels (diameter on demand)
- 408** Hydraulic drive to control the reel rotation, either recovering or releasing the conductor/cable (to be fed by hydraulic power unit)
- 408x2** Double hydraulic drive
- 078.1** Set of flexible hoses for feeding the drive unit (available lengths: 7, 10, 15 m)
- 409** Steel containers for transporting and stocking the stands (2 containers)
- 410.3** One disc brake with hydraulic clamp controlled by manual pump
- 419.3** Automatic rope-winder, fit to stratify different diameters of rope (max reel width to be confirmed)
- 423** Additional disk brake (2 brakes in total)
- SP2** Base to raise up the stand, fit for reels with diameter up to 6 m



Opt.408

	Reel diameter min-max	Reel width max <sup>(1)</sup>	Dimensions of each reel-stand	Spindle diameter	Weight of the pair of reel-stands <sup>(2)</sup>
	m	m	m (LxW)	mm	kg
<b>F155.A.300</b>	3,00 – 4,60	2,80	2,80 x 0,70	100 - 140	1600
<b>F155.A.500</b>	3,50 – 4,80	3,60	3,10 x 0,90	120 - 160	2400

<sup>(1)</sup> to be agreed - <sup>(2)</sup> weight of a pair of standard reel-stands, without optional devices.

	Max load of the pair of reel-stands	Braking torque with standard brake	Braking torque with 2 brakes opt. 423	Performances with drive opt. 408		
				Max braking torque	Max recovering torque	Max speed <sup>(3)</sup>
				opt.408	opt.408	
	daN	daN m	daN m	daN m	daN m	m/min
<b>F155.A.300</b>	30000	150	300	600	500	50
<b>F155.A.500</b>	50000	230	460	1600	1400	15

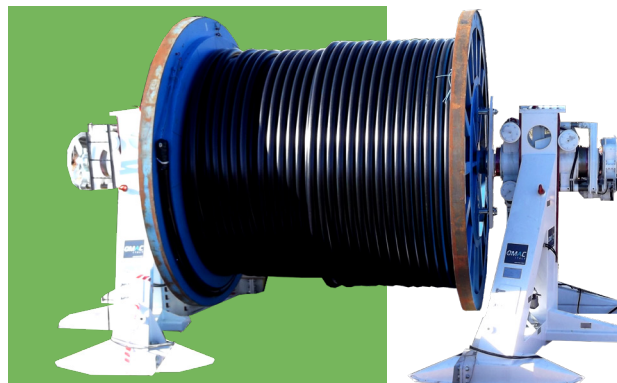
<sup>(3)</sup> powered by hydraulic power unit mod. F306.21.CC



## F155.C MAX LOAD 200/900 KN

Tail-stock stands fit for steel reels, used for lifting a reel and braking it while stringing the conductor/cable. The reel stands, as an option, can be hydraulically driven by a hydraulic power unit. Reel-stands are supplied in pairs.

- Each stand can be raised or lowered independently by a hydraulic hand pump
- Tail-stocks for sustaining the reel
- Steel frame with detachable feet for reduced overall dimensions
- Frame fit for being lifted by crane or fork
- Pair of bushes for centring the reel hole (reel hole diameter to be specified)
- Reel lifting/lowering system controlled by separate hydraulic circuit. Complete with flexible hoses 10 m long with quick couplings
- One disc brake with hydraulic control and manual pump



### OPTIONAL DEVICES

<b>402</b>	Additional conical or cylindrical bushes for wooden or steel reels (diameter on demand)	<b>410.3 x 2</b>	Additional hydraulic disk brake (2 brakes in total)
<b>408</b>	Hydraulic drive to control the reel rotation, either recovering or releasing the conductor/cable (to be fed by hydraulic power unit)	<b>464</b>	Sliding tailstock controlled by hydraulic cylinder with hand pumps (the weight increases by 650 kg)
<b>408x2</b>	Double hydraulic drive	<b>SP2</b>	Base to raise up the stand, fit for reels with diameter up to 6 m
<b>078</b>	Set of flexible hoses (10 m long) for feeding the drive unit by separate hydraulic power unit		

	Max load of the pair of reel-stands	Reel diameter min-max (*)	Reel width max	Dimensions of each reel-stand	Tail-stocks diameter	Weight of each stand ( <sup>2</sup> )
	daN	m	m	m (LxWxH)	mm	kg
<b>F155.C.200</b>	20.000	2,80 – 4,50	Infinite	3,00 x 1,40 x 2,60	100	1800
<b>F155.C.300</b>	30.000	3,00 – 4,60	Infinite	3,00 x 1,50 x 2,70	120	2100
<b>F155.C.500</b>	50.000	3,60 – 5,30	Infinite	4,05 x 1,80 x 3,20	150	4500
<b>F155.C.700</b>	70.000	3,60 – 5,30	Infinite	4,05 x 1,80 x 3,20	150	4600
<b>F155.C.900</b>	90.000	3,60 – 5,20	Infinite	4,70 x 2,40 x 3,40	250	9500

(\*)on demand we can supply stands fit for reels with bigger diameter - (<sup>2</sup>) weight with no optional devices.

	Braking torque		Performances with drive opt. 408 ( <sup>3</sup> )			
	with 1 brake (standard)	with 2 brakes (opt.423)	Braking		Recovering	
			Max torque	Speed	Max torque	Speed
	daN m	daN m	daN m	m/min	daN m	m/min
<b>F155.C.200</b>	200	400	700	25	600	15
<b>F155.C.300</b>	200	400	700	25	600	15
<b>F155.C.500</b>	200	400	1600	25	1400	15
<b>F155.C.700</b>	200	400	1600	25	1400	15
<b>F155.C.900</b>	350	700	3000	25	2500	12

(<sup>3</sup>)powered by hydraulic unit mod. F306.21.CC





## F600 MAX LOAD 500/900 KN

Steel frame fit for unwinding/winding cable drums with the possibility to drive hydraulically the reel by means of the power supplied by a hydraulic power unit.

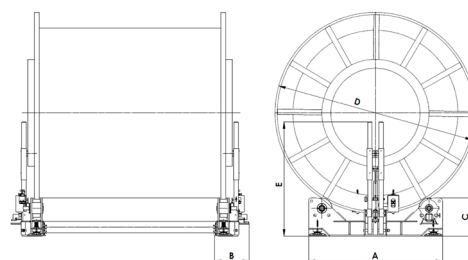
- No. 2 welded steel frames
- No. 4 supporting rollers on bearings
- Base-Frame arranged for the connection crossbars (See Opt. 950).
- Anchoring and /or fixing points
- No.4 adjustable stabilisers to level the frames (adjustable stroke up to 80 mm)

**On request it is possible to change the characteristics of the base-frames.**



### OPTIONAL DEVICES

- 424x2** No.2 hydraulic motorizations mounted on the rollers (to be fed by hydraulic power unit F306.18.CC)
- 950** Fixed-type crossbars for the connection of the base-frames, suitable for max. 6 - meter wide drums
- 951** Telescopic-type crossbars for the connection of the base-frames, controlled by hydraulic power unit
- 951.1.1** Pair of extensions allowing to adapt the telescopic device to wider drums. Extension length (standard) = 1 m
- 951.1.2** Pair of extensions allowing to adapt the telescopic device to wider drums. Extension length = 2 m
- 955** Device to press the drum sides on the motorized rollers to grant a higher grip. Opt. 424x2 needed. Max drum width 6 m and max drum hole diameter 200 mm



	Reel diameter (D) min – max	Reel width max <sup>(1)</sup>	Dimensions of each frames (A x B x C)	Weight for each base-frame <sup>(2)</sup>
	m	m <sup>(1)</sup>	m	kg
<b>F600.500</b>	3,50 – 4,50	-	3,50 x 0,70 x 0,70	2200
<b>F600.900</b>	3,50 - 6,00	-	4,50 x 1,00 x 0,90	4500

<sup>(1)</sup> Max drum width without Opt. 950/951: unlimited. <sup>(2)</sup> Weight without optional devices.

	Max. Capacity (Pair of base-frames)	Braking force <sup>(3)</sup>	On drum diameter
	daN/Ton	daN <sup>(*)</sup>	mm
<b>F600.500</b>	50000 / 50	4000	3500
<b>F600.900</b>	90000 / 90	5000	3500

<sup>(3)</sup> powered by hydraulic power units. <sup>(\*)</sup> Indicative values, granted only with opt. 955 and 424x2.



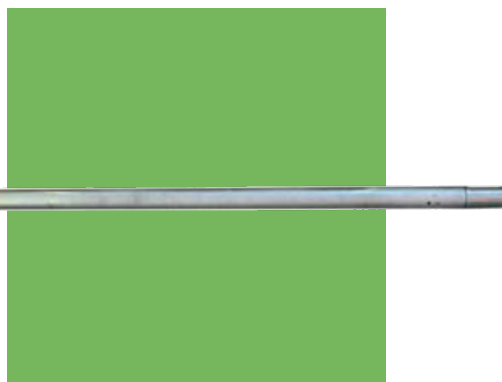
## C141



Reel-stand with hydraulic lifting system controlled by pedal.  
The stands are supplied in pairs.

	Max load	Reel diameter	Base	Shaft Ø	Weight
	kg	mm	mm	mm	kg
<b>C141.18</b>	1800	700-2000	42x30	60	24
<b>C141.30</b>	3000	800-2500	54x34	75	55
<b>C141.50</b>	5000	1000-3200	80x40	75	88
<b>C141.100</b>	10000	1350-3600	100x50	90	100

## C141.A



Shaft made of galvanised steel tubular with ball bearings.

	Diameter	Length	Max load	Weight
	mm	mm	kg	kg
<b>C141.A60.15</b>	60	1500	1800	18,0
<b>C141.A75.15</b>	75	1500	5000	14,6
<b>C141.A75.18</b>	75	1800	5000	18,5
<b>C141.A90.15</b>	90	1500	10000	19,6
<b>C141.A90.18</b>	90	1800	10000	18,5
<b>C141.A90.20</b>	90	2050	10000	22,2

## C141.B



Pairs of galvanised steel collars.

	for shaft Ø	Weight
	mm	kg
<b>C141.B60</b>	60	1,2
<b>C141.B75</b>	75	1,5
<b>C141.B90</b>	90	1,7

## C141.C



Pairs of centering cone.

	for shaft Ø	for reel hole Ø	Weight
	mm	mm	kg
<b>C141.C60</b>	60	65-115	3
<b>C141.C75</b>	75	85-130	7
<b>C141.C90</b>	90	110-150	8,5



# F10.50

Trailer fit to transport and unwind reels of cable weighing up to 4000 kg.



## FEATURES

<b>DIMENSIONS</b>	6,40x2,50x2,60 m
<b>TOTAL WEIGHT WITH DRUM</b>	5000 kg
<b>DRUM MAX DIAMETER</b>	3000 mm
<b>DRUM MAX WIDTH</b>	1400 mm
<b>PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)</b>	
<b>PULLING FORCE</b>	0 - 9 kN
<b>PULLING SPEED</b>	0 - 60 m/min

ALSO AVAILABLE TRAILERS WITH DIFFERENT CAPACITY

## CONFIGURATION

- Spindle rotating on ball joints, with arm for close and drag the reel, and collars for wooden reel
- Safe mechanical locking in working position
- Mechanical locking of the spindle rotation for safe transport
- Hydraulic reel lift with hand pump
- Single rigid axle and rigid towing assembly
- Towing speed 40 Km/h
- 12V light system
- Hand parking brake for trailer
- Front support

## OPTIONAL DEVICES

- 425** Mechanical back supports
- 007-A** Damped single axle, towing speed 60 km/h. Complete with ABS system
- 007-B** Damped single axle, towing speed 80 km/h. Complete with ABS system and pneumatic suspensions
- 018.11** Framework made of 3 steel sections
- 029.2** Electric start of the diesel/gasoline engine, with battery
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 408.5** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel engine
- 410.1** Disk brake with manual regulation of the braking to keep under control the unwinding



# F10.100

Trailer fit to transport and unwind reels of cable weighing up to 8000 kg.



## FEATURES

<b>DIMENSIONS</b>	7,30x2,50x2,70 m
<b>TOTAL WEIGHT WITH DRUM</b>	10000 kg
<b>DRUM MAX DIAMETER</b>	3200 mm
<b>DRUM MAX WIDTH</b>	1500 mm
<b>PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)</b>	
<b>PULLING FORCE</b>	0 - 9 kN
<b>PULLING SPEED</b>	0 - 60 m/min

ALSO AVAILABLE TRAILERS WITH DIFFERENT CAPACITY

## CONFIGURATION

- Spindle rotating on ball joints, with arm for close and drag the reel, and collars for wooden reel
- Safe mechanical locking in working position
- Mechanical locking of the spindle rotation for safe transport
- Hydraulic reel lift with hand pump
- Single rigid axle and rigid towing assembly
- Towing speed 40 Km/h
- 12V light system
- Hand parking brake for trailer
- Front support

## OPTIONAL DEVICES

- 425** Mechanical back supports
- 005.1** Damped tandem axle, towing speed 60 km/h. Complete with ABS system
- 005.3** Damped tandem axle, towing speed 80 km/h. Complete with ABS system and Pneumatic suspensions
- 018.11** Framework made of 3 steel sections
- 029.2** Electric start of the diesel/gasoline engine, with battery
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 408.5** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel engine
- 410.1** Disk brake with manual regulation of the braking to keep under control the unwinding



# F10.120

Trailer fit to transport and unwind reels of cable weighing up to 10000 kg.



## FEATURES

<b>DIMENSIONS</b>	7,30x2,50x2,70 m
<b>TOTAL WEIGHT WITH DRUM</b>	12000 kg
<b>DRUM MAX DIAMETER</b>	3000 mm
<b>DRUM MAX WIDTH</b>	1600 mm
<b>PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)</b>	
<b>PULLING FORCE</b>	0 - 9 kN
<b>PULLING SPEED</b>	0 - 60 m/min

ALSO AVAILABLE TRAILERS WITH DIFFERENT CAPACITY

## CONFIGURATION

- Spindle rotating on ball joints, with arm for close and drag the reel, and collars for wooden reel
- Safe mechanical locking in working position
- Mechanical locking of the spindle rotation for safe transport
- Single rigid axle and rigid towing assembly
- Towing speed 40 Km/h
- Front support
- No brakes and No lights

## OPTIONAL DEVICES

- 006.1** 12V light system
- 006.6** Hand parking brake for trailer
- 425** Mechanical back supports
- 438** Hydraulic reel lift with hand pump.
- 005.1** Damped tandem axle, towing speed 60 km/h. Complete with ABS system
- 005.3** Damped tandem axle, towing speed 80 km/h. Complete with ABS system and Pneumatic suspensions
- 018.11** Framework made of 3 steel sections
- 029.2** Electric start of the diesel/gasoline engine, with battery
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 408.5** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and diesel engine
- 410.1** Disk brake with manual regulation of the braking to keep under control the unwinding



# F10.500

Trailer fit to transport and unwind reels of cable weighing up to 50000 kg.



## REEL CHARACTERISTICS

DRUM MAX DIAMETER	5000 m
DRUM MAX WIDTH	2700 mm
DRUM MAX WEIGHT	50000 kg
TOTAL WEIGHT OF THE TRAILER WITH REEL	59000
PERFORMANCES WITH OPTIONAL DRIVE (OPT.408.4 or 408.5)	
MAX BRAKING TORQUE	750 daN
MAX RECOVERING TORQUE	500 daN

## TRAILER CHARACTERISTICS

DIMENSIONS LxWxH	8,80x4,20x3,00 m
WEIGHT	9000 kg

## CONFIGURATION

- Framework made of welded steel sections
- Hydraulic cylinders operated by hand pump for lifting the reel (opt.447, drum lifting from hydraulic power pack)
- Spindle rotating on ball bearings, with arm for close and drag the reel
- Safe mechanical locking in working position
- Mechanical locking of the reel rotation for safe transport
- No. 6 rigid drive shafts, tires and drawbar for towing at low speed in the workplace max 15 km/h
- Mechanical stabiliser on towing side
- Manual parking brake of the truck
- Disc brake with manual regulation of the braking to keep under control the unwinding, complete with dragger for reels (max braking torque 150 daNm)

## OPTIONAL DEVICES

- 006** Lights and braking system of the trailer
- 008** Suspensions on semi-axes, and pneumatic braking system, tyres and lights for towing on the road at 20 km/h (homologation excluded)
- 401** Iron coil hole centering sleeves (coil hole Ø to be specified)
- 447** Diesel engine with control pump of the hydraulic circuit for lifting the reel
- 408.4** Hydraulic drive with quick connections for controlling the reel rotation both recovering and releasing cables, complete with power unit and gasoline engine
- 459** Device that allows to tighten the trailer to a width "B" on the trailer min 2.5 m
- 460** Trailer adjustments fit for transporting drums with max width 3500 mm
- 461** Tail-stocks system for supporting the drum (instead of the shaft system)
- 462** Swivel and adjustable towing bar to facilitate the trailer handing in limited spaces
- 463** Steerable towing assembly complete with axle, wheels and towing arm on fifth wheel





# HYDRAULIC POWER UNITS

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# F306.09.CA.B

Hydraulic power unit with one hydraulic circuit (open type) fit to feed various equipment.



## ENGINE

FEEDING	gasoline
POWER	9 hp / 6,6 kW
REVOLUTIONS PER MINUTE	2800 rpm
COOLING SYSTEM	air
STARTING	by rope
DIMENSIONS LXWXH	0,70x0,50x0,60 m
WEIGHT	68 kg

## PERFORMANCES

WORKING PRESSURE	150 bar
CAPACITY	20 L/min

## CONFIGURATION

- Control lever
- Manometer to control the pressure
- Quick couplings to connect hydraulic hoses
- Hydraulic oil tank
- Wheels with tow handle
- Protective frame

## OPTIONAL DEVICES

- 028** Air cooled diesel engine
- 034** Engine electric starting with battery
- 078.1** Set of flexible hoses (available lengths 7,10,15 m)
- 080** Oil cooling system (needed for operating in hot environments)
- 090** Monophase electric motor 220 V, 3kW
- 090.1** Three-phase electric motor 380 V, 3 kW



# F306.CA

Hydraulic power unit with one hydraulic circuit (open type) fit to feed various equipment.



## ENGINE

	F306.25.CA.B	F306.21.CA.D
FEEDING	gasoline	diesel
POWER	25 hp / 18,8 kW	21 hp / 15,4 kW
REVOLUTIONS PER MINUTE	2800 rpm	2800 rpm
COOLING SYSTEM	air	air
STARTING	electric	electric
DIMENSIONS LXWXH	110x70x85 cm	110x70x85 cm
WEIGHT	220 kg	270 kg

## PERFORMANCES

	F306.25.CA.B	F306.21.CA.D
WORKING PRESSURE	200 bar	200 bar
CAPACITY	45 L/min	40 L/min

## CONFIGURATION

- Control lever
- Manometer to control the pressure
- Quick couplings to connect hydraulic hoses
- Hydraulic oil tank
- Wheels with tow handle for manual control
- Protective frame unit

## OPTIONAL DEVICES

- 078.1 Set of flexible hoses for feeding the drive unit (available lengths: 7, 10, 15 m)
- 026 Pvc protection cover



# F306.CC

Hydraulic power unit with one hydraulic circuit (closed type) fit to feed reel-stands drive.



## ENGINE

	F306.18.CC.B	F306.21.CC.D
FEEDING	gasoline	diesel
POWER	18 hp / 13,2 kW	21 hp / 15,4 kW
COOLING	air	water
STARTING	12 V	12 V
DIMENSIONS LxWxH	1,20x0,90x0,95 m	1,40x1,10x1,10 m

## PERFORMANCES

	F306.18.CC.B	F306.21.CC.D
FIT FOR MOTORIZATIONS OF REEL-STANDS WITH CAPACITY	80-500 kN	150-500 kN
PUMP DELIVERY (VARIABLE)	0-28 cm <sup>3</sup>	0-40 cm <sup>3</sup>
WORKING PRESSURE	250 bar	210 bar

## CONFIGURATION

- Control panel with joystick for puller use, dynamometer and preselector of max pull force, valve to adjust the tension force and control for unlocking the negative brake
- Group of quick couplings to connect the hydraulic hoses
- Rigid axle, tires, hand brake and drawbar for towing at low speed in the job-site
- Metallic cover with doors
- Oil cooling system

## OPTIONAL DEVICES

- 011 Auxiliary hydraulic circuit for additional equipment (like hydraulic cylinders)
- 078.1 Set of flexible hoses (available lengths 7,10,15 m)



# REELS & ROPES

---



# 21.12

Anti-twisting galvanised steel rope specifically designed for stringing operations. Made up of 12 braided strands. High resistant to break, antitwisting, flexible, safe and easy to handle. The linear contact between the braided strands grants a low stress on the rope. Supplied wound up on steel or wooden reels.



	Nominal diameter	Breaking load	Weight	Standard Lengths (*)	
	mm	kN	kg	m	
<b>21.12.08</b>	8	44	0,22	1000	on steel reel Ø 1100 mm Mod. F162.110
<b>21.12.10</b>	10	72	0,35	1000	
<b>21.12.13</b>	13	105	0,55	1000	
<b>21.12.16</b>	16	163	0,80	1000	
<b>21.12.18</b>	18	235	1,07	800	on steel reel Ø 1400 mm Mod. F162.140
<b>21.12.20</b>	20	268	1,24	1000	
<b>21.12.22</b>	22	330	1,56	900	
<b>21.12.24</b>	24	380	1,80	800	
<b>21.12.28</b>	28	480	2,80	500	

(\*) other lengths on request

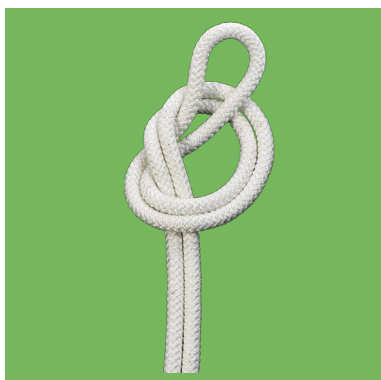
## HIGH RESISTANCE (18 strands)

	Nominal diameter	Breaking load	Weight	Standard Lengths (*)	
	mm	kN	kg	m	
<b>21.18.22</b>	22	402	1,86	900	on steel reel Ø 1400 mm Mod. F162.140
<b>21.18.24</b>	24	490	2,34	800	
<b>21.18.30</b>	30	720	3,25	400	

(\*) other lengths on request



## 22...1



Pilot rope made of an external polyester mesh stocking and a hi-tenacity nylon core. Double torsion. Highly resistant to wear and UV rays. white colour.  
Supplied wound up on wooden reels or in coils.

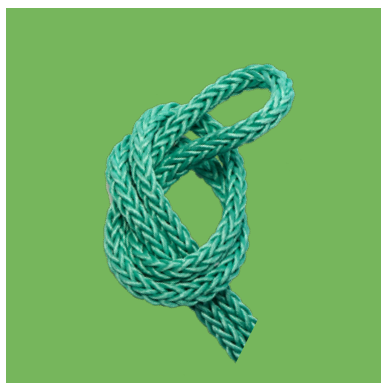
### OPTIONAL DEVICES

146.3 Sewn eyes (note: available up to Ø18 mm. The breaking load of the clamped eyes is the same as the breaking load of the rope)

	Nominal diameter	Elongation under tension		Breaking load	Weight	Standard Lengths (*)				
	mm	at 10 % BL <sup>(1)</sup>	at 30 % BL <sup>(2)</sup>	daN	kg/m	m				
22.06.1	6	4%	7,5%	750	0,027	500	1000	1500	2000	3000
22.08.1	8	4%	7,5%	1.200	0,045	500	1000	1500	2000	3000
22.10.1	10	4%	7,5%	2.000	0,073	500	1000	1500	2000	3000
22.12.1	12	4%	7,5%	3.500	0,115	500	1000	1500	2000	3000
22.14.1	14	4%	7,5%	4.300	0,142	500	1000	1500	2000	
22.16.1	16	4%	7,5%	5.000	0,195	500	1000	1500	2000	
22.18.1	18	4%	7,5%	5.800	0,240	500	1000	1500		
22.20.1	20	4%	7,5%	6.500	0,295	500	1000	1500		
22.22.1	22	4%	7,5%	8.300	0,350	500	900			
22.24.1	24	4%	7,5%	9.500	0,410	500	800			

<sup>(1)</sup> elongation rate at 10% of breaking load <sup>(2)</sup> elongation rate at 30% of breaking load

## 22...2



Pilot rope made of polypropylene and polyester hi-tenacity 12-fuses mesh.  
Light-weight, waterproof and UV resistant. Easy to splice without any special tool. Green colour. Supplied wound up on wooden reels or in coils.

### OPTIONAL DEVICES

146.2 Hand-spliced ends

	Nominal diameter	Elongation under tension	Breaking load	Weight	Standard Lengths (*)
	mm	at 50 % BL <sup>(1)</sup>	daN	kg/m	m
22.10.2	10	5%	1.500	0,040	1000
22.12.2	12	5%	2.300	0,060	1000
22.14.2	14	5%	2.800	0,075	1000
22.16.2	16	5%	3.300	0,088	1000
22.18.2	18	5%	4.500	0,120	1000
22.20.2	20	5%	5.500	0,150	1000
22.22.2	22	5%	6.200	0,165	800
22.24.2	24	5%	8.500	0,240	800



## 23...P



Rope with Dyneema-core and polyester covering. Supplied wound up on wooden reels or in coils.

### OPTIONAL DEVICES

- Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope)
- Hand-spliced eyes
- Head stocking-grip with eyes
- Steel reel Ø 1100, 1400 or 1600 mm

	Nominal diameter	Elongation under tension (*)	Breaking load	Weight	Standard Lengths (*)
	mm	%	daN	kg/m	m
<b>23.06.P</b>	6	3%	3.100	0,050	500 1000 1500 2000 3000
<b>23.08.P</b>	8	3%	5.480	0,064	500 1000 1500 2000 3000
<b>23.10.P</b>	10	3%	8.210	0,078	500 1000 1500 2000 3000
<b>23.12.P</b>	12	3%	11.860	0,120	500 1000 1500 2000
<b>23.14.P</b>	14	3%	16.430	0,139	500 1000 1500 2000
<b>23.16.P</b>	16	3%	20.990	0,200	500 1000

(\*) elongation rate at 8% of breaking load

## 23...D



High resistance dyneema rope. Light-weight and wear resistant. Supplied wound up on wooden reels or in coils.

### OPTIONAL DEVICES

- Clamped eyes with metallic collars at the ends (note: the clamped eyes have breaking load 30-35% lower than the rope)
- Hand-spliced eyes
- Head stocking-grip with eyes
- Steel reel Ø 1100, 1400 or 1600 mm

	Nominal diameter	Elongation under tension	Breaking load	Weight	Standard Lengths (*)
	mm	at 2 %	daN	kg/m	m
<b>23.06.D</b>	6	3%	4.000	0,02	500 1000 1500 2000 3000
<b>23.08.D</b>	8	3%	6.000	0,03	500 1000 1500 2000 3000
<b>23.10.D</b>	10	3%	9.000	0,05	500 1000 1500 2000 3000
<b>23.12.D</b>	12	3%	13.000	0,07	500 1000 1500 2000
<b>23.14.D</b>	14	3%	18.000	0,08	500 1000 1500 2000
<b>23.16.D</b>	16	3%	23.000	0,12	500 1000 1500 2000
<b>23.18.D</b>	18	3%	29.000	0,17	500 800 1000
<b>23.20.D</b>	20	3%	36.500	0,20	500 800 1000

(\*) elongation rate at 8% of breaking load

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.



## C02...AC

Bright steel rope 216 wires + steel core. Construction 6 (14+7/7+7+1)  
WS+WR. Right and left crossed.  
UNI 7297-74. Resistance of wires: 180 kg/mm<sup>2</sup>.

## OPTIONAL

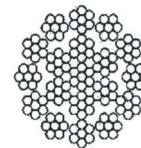
- Galvanization



Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
6	0,38	27,2	0,15
8	0,50	47,3	0,28
10	0,62	75	0,43
11	0,68	89	0,52
12	0,75	108	0,62
14	0,77	131	0,82
16	0,88	168	1,07
18	0,99	220	1,35
20	1,10	270	1,68
22	1,22	320	2,03
24	1,33	380	2,40
26	1,44	450	2,83
28	1,55	504	3,30
30	1,66	600	3,80
32	1,77	670	4,33

## C02...LR

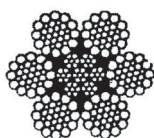
Bright steel rope 133 wires. Construction 19x7.  
Lang lay or regular lay. Resistance of wires 200 kg/mm<sup>2</sup>.



Rope diam.	Wires diam.	Sect.	Breaking load	Weight
mm	mm	mm <sup>2</sup>	kN	kg/m
Lang lay				
6	0,38	16,5	26	0,15
8	0,51	29,3	48,1	0,27
10	0,64	45,7	72,1	0,41
11	0,70	55,3	87,2	0,50
12	0,76	65,8	104	0,60
13	0,83	77,3	122	0,70
14	0,89	89,6	141	0,81
16	1,02	117	185	1,06
18	1,15	148	234	1,34
Regular lay				
20	1,27	183	288	1,66
22	1,40	221	349	2,01
24	1,53	263	415	2,39
26	1,65	309	487	2,81

## C02...AR

Bright steel rope 216 wires "compacted strands", high resistance, with metal core.  
Resistance of wires: 220 kg/mm<sup>2</sup>



Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
10	0,59	90,2	0,45
11	0,66	111	0,55
12	0,72	132	0,67
13	0,78	153	0,78
14	0,84	176	0,90
16	0,96	240	1,18
18	1,08	294	1,48
20	1,20	367	1,85
22	1,32	443	2,25
24	1,41	525	2,50
26	1,53	613	3,04
28	1,64	704	3,64
30	1,76	809	4,20

## C02...AT

Bright steel rope. Construction 35x7. Resistance of wires 220 kg/mm<sup>2</sup>.



Nominal diameter	Wires diameter	Breaking load	Weight
mm	mm	kN	kg/m
8	0,40	49,2	0,26
10	0,50	77	0,42
12	0,60	110,8	0,60
14	0,70	150,9	0,82
16	0,80	197,1	1,07
18	0,90	249,4	1,36
20	1,00	308	1,68
22	1,10	372,6	2,03
24	1,20	443,5	2,42
26	1,30	520,5	2,84
28	1,40	603,6	3,29
30	1,40	693	3,78





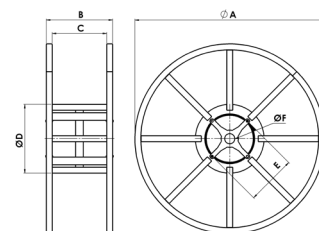
## F162

Welded and painted steel reel.

### OPTIONAL DEVICES

- 02 Pair of standard dials
- 03 Pair of dials equipped with ball bearings
- 04 Reinforced reel, made of square tubular (30% heavier than the standard version)

	Dimensions mm						Weight (without rope)
	A	B	C	D	E	F	kg
<b>F162.075</b>	750	530	460	245		50	38
<b>F162.110</b>	1100	560	460	570	420	50	66
<b>F162.140</b>	1400	560	460	570	420	50	105
<b>F162.160</b>	1600	560	460	570	420	50	120
<b>F162.190</b>	1900	560	460	570	420	50	140
<b>F162.220</b>	2200	1560	1400	1010	420	100	950



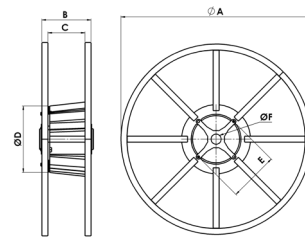
## F164

Welded and painted steel conical reel with openable side.

### OPTIONAL DEVICES

- 02 Pair of standard dials
- 03 Pair of dials equipped with ball bearings
- 05 Drum core covered with steel sheet

	Dimensions mm						Weight (without rope)
	A	B	C	D	E	F	kg
<b>F164.075</b>	750	530	460	245		50	50
<b>F164.110</b>	1100	560	460	570	420	50	85
<b>F164.140</b>	1400	560	460	570	420	50	115
<b>F164.160</b>	1600	560	460	570	420	50	130
<b>F164.190</b>	1900	560	460	570	420	50	220
<b>F164.220</b>	2200	1310	1170	1010	420	100	1050



REEL CAPACITY (meters of rope)						
Rope diameter (mm)	F162.060 F164.060	F162.110 F164.110	F162.140 F164.140	F162.160 F164.160	F162.190 F164.190	F162.220 F164.220
6	2000	6300	13000	17000	25000	-
7	1500	4500	9000	12000	18000	-
8	1200	3500	6000	5500	14000	-
9	900	2800	5400	7500	11000	-
10	800	2300	4400	6000	9000	33000
11	500	1900	3600	5000	7500	31000
12	450	1600	3000	4200	6000	22000
13	400	1400	2600	3600	5400	19000
14	300	1250	2200	3000	4600	16000
16	250	1000	1700	2400	3500	13000
18	-	800	1300	1900	2800	10000
20	-	650	1100	1600	2200	8000
22	-	500	900	1200	1900	6000
24	-	-	750	1000	1500	5000
26	-	-	650	900	1300	4500
28	-	-	560	800	1100	4000
30	-	-	490	700	1000	3500
32	-	-	430	600	850	3000



# ACCESSORIES

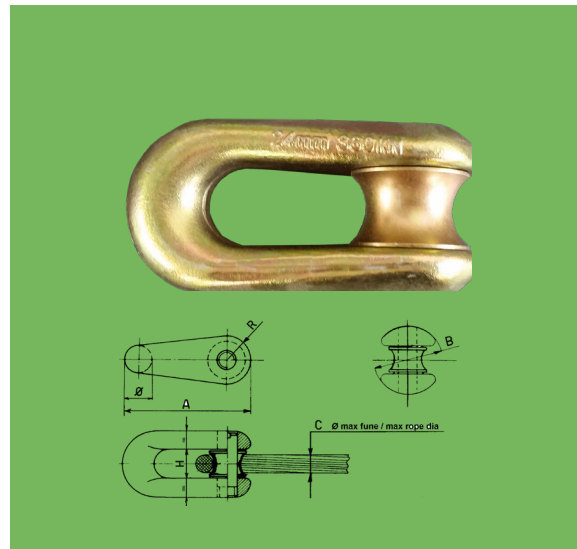
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## GF..00

Joint made of high tensile galvanised steel, fit to connect pilot rope lengths and pulling rope. Designed to pass on the capstan grooves of pullers or puller/tensioners.

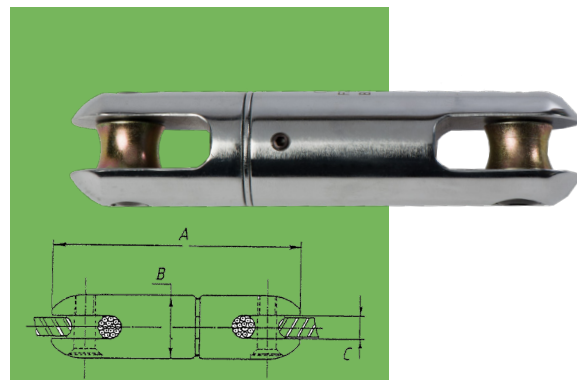
	Dimensions mm					for rope	W.L.L	Weight
	A	H	B	Ø	R	Ø mm	kN	kg
GF.10.00	68	14	36	17	13	10/12	23	0,20
GF.13.00	76	17	37	21	15	13/14	37	0,30
GF.16.00	96	19	50	22	20	16	53	0,60
GF.18.00	110	25	56	24	22	18/20	73	0,90
GF.24.00	125	26,5	60	28	24	22/24	120	1,30
GF.26.00	168	30	72	38	30	26/28	250	3,00
GF.32.00	178	35	80	44	34	28/32	280	3,50



## F250.R

Swivel joint for ropes and conductors. Designed to release the torsion efforts during the pulling operations. Made of galvanised steel, complete with an axial bearing for an easy rotation.

	Dimensions mm			for rope	W.L.L	Weight
	A	B	C			
<b>F250.R.06.1</b>	60	18	8,5	7	4	0,10
<b>F250.R.08.1</b>	96	24	12	9	8	0,22
<b>F250.R.12.1</b>	142	32	13	14	25	0,50
<b>F250.R.13.1</b>	152	39	17	16	40	1,00
<b>F250.R.16.1</b>	177	45	20	18	63	1,20
<b>F250.R.18.1</b>	243	52	22	22	80	2,60
<b>F250.R.24.1</b>	260	60	25	26	130	3,30
<b>F250.R.28.1</b>	322	77	31	28	260	7,00
<b>F250.R.32.1</b>	337	80	36	32	280	8,50





## C08

Dead end stocking for pulling underground cables.  
Long stocking type art. C08.L also available.



	Ø cable min - max	Length <sup>(1)</sup>	Stocking length <sup>(2)</sup>	Breaking load
	mm	mm	mm	kg
C08.01	10-15	600	900	2000
C08.02	15-20	600	900	2000
C08.03	20-25	600	1000	2500
C08.04	25-30	600	1200	3000
C08.05	30-40	700	1500	4500
C08.06	25-45	700	1500	5000
C08.07	40-50	800	1500	5000
C08.08	45-60	800	1600	5000
C08.09	60-80	800	1800	8000
C08.10	80-100	1000	2000	10000
C08.11	100-140	1200	2000	10000
C08.12	140-170	1200	2000	10000
C08.13	170-200	1200	2000	10000

## C09

Joining stocking for pulling underground cables.



	Ø cable min - max	Length	Breaking load
	mm	mm	kg
C09.01	10-15	1200	2000
C09.02	15-20	1200	2000
C09.03	20-25	1200	2500
C09.04	25-30	1200	3000
C09.05	30-40	1400	5000
C09.06	25-45	1400	5000
C09.07	40-50	1600	5000
C09.08	45-60	1600	5000
C09.09	60-80	1600	8000
C09.10	80-100	2000	10000
C09.11	100-140	2400	10000
C09.12	140-170	2400	10000
C09.13	170-200	2400	10000

## C10

Double eye stocking for pulling underground cables.



	Ø cable min - max	Length	Breaking load
	mm	mm	kg
C10.01	10-15	800	2000
C10.02	15-20	800	2000
C10.03	20-25	800	2500
C10.04	25-30	800	3000
C10.05	30-40	1000	4500
C10.06	25-45	1000	5000
C10.07	40-50	1000	5000
C10.08	45-60	1000	5000
C10.09	60-80	1000	8000
C10.10	80-100	1200	10000
C10.11	100-140	1400	10000
C10.12	140-170	1400	10000
C10.13	170-200	1400	10000

## C11

Double eye stocking with open sleeve for pulling underground cables.



	Ø cable min - max	Length	Breaking load
	mm	mm	kg
C11.01	10-15	800	2000
C11.02	15-20	800	2000
C11.03	20-25	800	2500
C11.04	25-30	800	3000
C11.05	30-40	1000	4500
C11.06	25-45	1000	5000
C11.07	40-50	1000	5000
C11.08	45-60	1000	5000
C11.09	60-80	1000	8000
C11.10	80-100	1200	10000
C11.11	100-140	1400	10000
C11.12	140-170	1400	10000
C11.13	170-200	1400	10000



### C108.A

Galvanised steel cable roller.



#### FEATURES

MAX LOAD	180 kg
MAX CABLE	Ø 120 mm
ROLLER	Ø 70/110 x 185 mm
DIMENSIONS	300 x 240 x 250 mm
WEIGHT	4,1 kg

### C108.A1

Heavy version with shielded bearings.



#### FEATURES

MAX LOAD	400 kg
MAX CABLE	Ø 200 mm
ROLLER	Ø 80/130 x 280 mm
DIMENSIONS	300 x 300 x 260 mm
WEIGHT	7,1 kg

### C108.B

Aluminium cable roller with galvanised steel base.



#### FEATURES

MAX LOAD	200 kg
MAX CABLE	Ø 120 mm
ROLLER	Ø 75/115 x 175 mm
DIMENSIONS	300 x 240 x 250 mm
WEIGHT	4,5 kg

### C108.C

Straight cable roller with 3 aluminium rollers.



#### FEATURES

MAX LOAD	200 kg
MAX CABLE	Ø 150 mm
ROLLER	Ø 50/60 x 100 mm
DIMENSIONS	250 x 250 x 250 mm
WEIGHT	4,9 kg

### C108.E

Galvanised horizontal cable roller.



#### FEATURES

MAX LOAD	400 kg
MAX CABLE	Ø 120 mm
ROLLER	Ø 75/110 x 800 mm
DIMENSIONS	850 x 250 x 250 mm
WEIGHT	13 kg

### C108.E1

Heavy version shielded bearings.



#### FEATURES

MAX LOAD	1000 kg
ROLLER	Ø 80 x 950 mm
DIMENSIONS	1000 x 250 x 250 mm
WEIGHT	22 kg

### C108.F

Galvanised cable guiding run-off frame.



#### FEATURES

MAX LOAD	300 kg
ROLLER	Ø 35 x 620 mm
DIMENSIONS	1050 x 470 x 520 mm
WEIGHT	14 kg

### C108.F1

Heavy version with shielded bearings.



#### FEATURES

MAX LOAD	1000 kg
ROLLER	Ø 80 x 700 mm
DIMENSIONS	1200 x 600 x 450 mm
WEIGHT	28 kg



## C109.A

**C109.A** Galvanised steel cable roller.

**C109.A1** Heavy version with shielded bearings



	max load	max cable	rollers	dimensions	weight
	kg	mm	mm	mm	kg
<b>C109.A</b>	300	Ø 120	Ø 83x200	370x330x420	17
<b>C109.A1</b>	1000	Ø 200	Ø 90x250	400x360x420	27

## C109.B

**C109.B** Galvanised steel corner roller

**C109.B1** Version with aluminium rollers

**C109.B2** Heavy version with shielded bearings



	max load	max cable	rollers	dimensions	weight
	kg	mm	mm	mm	kg
<b>C109.B</b>	300	Ø 120	Ø75/110x185	550x340x370	14
<b>C109.B1</b>	350	Ø 120	Ø70/130x170	550x340x370	17
<b>C109.B2</b>	1000	Ø 200	Ø80/130x280	600x400x420	31

## C109.C

Chain of rollers for bends made of 12 horizontal rollers and 6 vertical rollers. Made of galvanised steel.



	max load	rollers	dimensions	weight
	kg	mm	mm	kg
<b>C109.C</b>	200	Ø 32x180	230x1300	28

## C109.D

Galvanised chain rollers.



	max load	rollers	rollers	dimensions	weight
	kg	mm	n°	mm	kg
<b>C109.D.3</b>	100	Ø 32x185	3	420x230x120	4
<b>C109.D.4</b>	100	Ø 32x185	4	540x230x120	4,5
<b>C109.D.5</b>	100	Ø 32x185	5	670x230x120	5
<b>C109.D.6</b>	100	Ø 32x185	6	820x230x120	6

## C109.E

**C109.E** Galvanised roller guide with swivel angled base

**C109.E1** Heavy version in painted steel



	max load	rollers	dimensions	weight
	kg	mm	mm	kg
<b>C109.E</b>	120	Ø 75/110x130	350x250x210	5,8
<b>C109.E1</b>	200	Ø 135/205x80	315x250x230	18,2

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.



## C109.G

C109.G Galvanised triple guide roller for manholes  
C109.G1 Version with aluminium rollers



	rollers	dimensions	weight
	mm	mm	kg
<b>C109.G</b>	Ø75/110x180	500x220x400	13
<b>C109.G1</b>	Ø70/130x170	500x220x400	17

## C109.H

Adjustable boom with aluminium cable roller.



	rollers	boom length	weight
	mm	mm	kg
<b>C109.H.1</b>	Ø110/210x110	300-500	9,5
<b>C109.H.2</b>	Ø110/210x110	500-800	10
<b>C109.H.3</b>	Ø110/210x110	600-1000	13
<b>C109.H.4</b>	Ø110/210x110	1000-1500	16
<b>C109.H.5</b>	Ø110/210x110	1500-1800	18
<b>C109.H.6</b>	Ø110/210x110	1800-2400	23

## C109.I

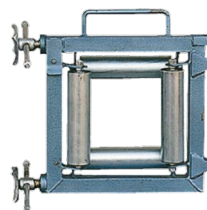
Adjustable boom with aluminium cable roller.



	rollers	boom length	weight
	mm	mm	kg
<b>C109.I.1</b>	Ø110/210x110	300-500	12
<b>C109.I.2</b>	Ø110/210x110	500-800	15
<b>C109.I.3</b>	Ø110/210x110	600-1000	19
<b>C109.I.4</b>	Ø110/210x110	1000-1500	24
<b>C109.I.5</b>	Ø110/210x110	1500-1800	27
<b>C109.I.6</b>	Ø110/210x110	1800-2400	30

## C109.L

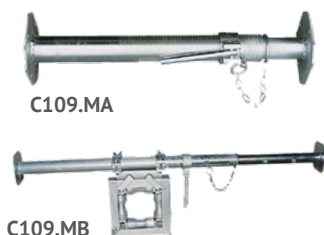
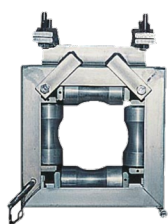
Cable guiding device with 4 protection rollers.



	passage between rollers	rollers	dimensions	weight
	mm	mm	mm	kg
<b>C109.L</b>	250	Ø 60	550x130x500	15

## C109.M

C109.M Cable guiding device with 4 protection rollers  
C109.MA Adjustable boom for cable guiding device C109.M  
C109.MB Cable guiding device with 4 protection rollers Ø 60 mm (C109.M), complete with adjustable boom (C109.MA)



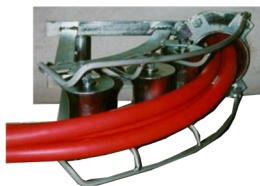
	passage between rollers	rollers	dimensions	weight
	mm	mm	mm	kg
<b>C109.M</b>	250	Ø 60	550x130x500	15

	boom length	weight		boom length	weight
	mm	kg		mm	kg
<b>C109.MA.1</b>	500-800	7	<b>C109.MB.1</b>	500-800	10
<b>C109.MA.2</b>	600-1000	10	<b>C109.MB.2</b>	600-1000	13
<b>C109.MA.3</b>	1000-1700	12	<b>C109.MB.3</b>	1000-1700	15
<b>C109.MA.4</b>	1400-2400	14	<b>C109.MB.4</b>	1400-2400	17



## C110.A

Galvanised steel cable and rope entrance device.



	bending radius	Ø socket	weight
	mm	mm	kg
<b>C110.A.07</b>	420	75	16,5
<b>C110.A.09</b>	420	90	17,0
<b>C110.A.10</b>	420	101	17,5
<b>C110.A.12</b>	420	114	18,0
<b>C110.A.15</b>	420	152	18,5
<b>C110.A.17</b>	420	168	19,0

## C110.B

Galvanised steel cable and rope entrance device.



	bending radius	Ø socket	weight
	mm	mm	kg
<b>C110.B.07</b>	1000	75	22,0
<b>C110.B.09</b>	1000	90	22,5
<b>C110.B.10</b>	1000	101	23,0
<b>C110.B.12</b>	1000	114	23,7
<b>C110.B.15</b>	1000	152	24,5
<b>C110.B.17</b>	1000	168	25,0

## C110.C

Galvanised spare socket for rope entrance devices C110.A and C110.B.



	Ø external	weight		Ø external	weight
	mm	kg		mm	kg
<b>C110.C.07</b>	75	1,0	<b>C110.C.12</b>	114	1,9
<b>C110.C.09</b>	90	1,5	<b>C110.C.15</b>	152	2,0
<b>C110.C.10</b>	101	1,7	<b>C110.C.17</b>	168	2,1

## C110.M

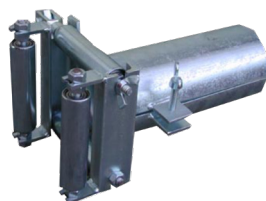
Galvanised cable protector with roller.



	Ø external	weight		Ø external	weight
	mm	kg		mm	kg
<b>C110.M.05</b>	51	4,0	<b>C110.M.10</b>	114	6,0
<b>C110.M.06</b>	61	4,2	<b>C110.M.12</b>	133	7,0
<b>C110.M.07</b>	75	4,5	<b>C110.M.13</b>	140	7,3
<b>C110.M.09</b>	89	5,0	<b>C110.M.15</b>	152	7,5

## C110.P

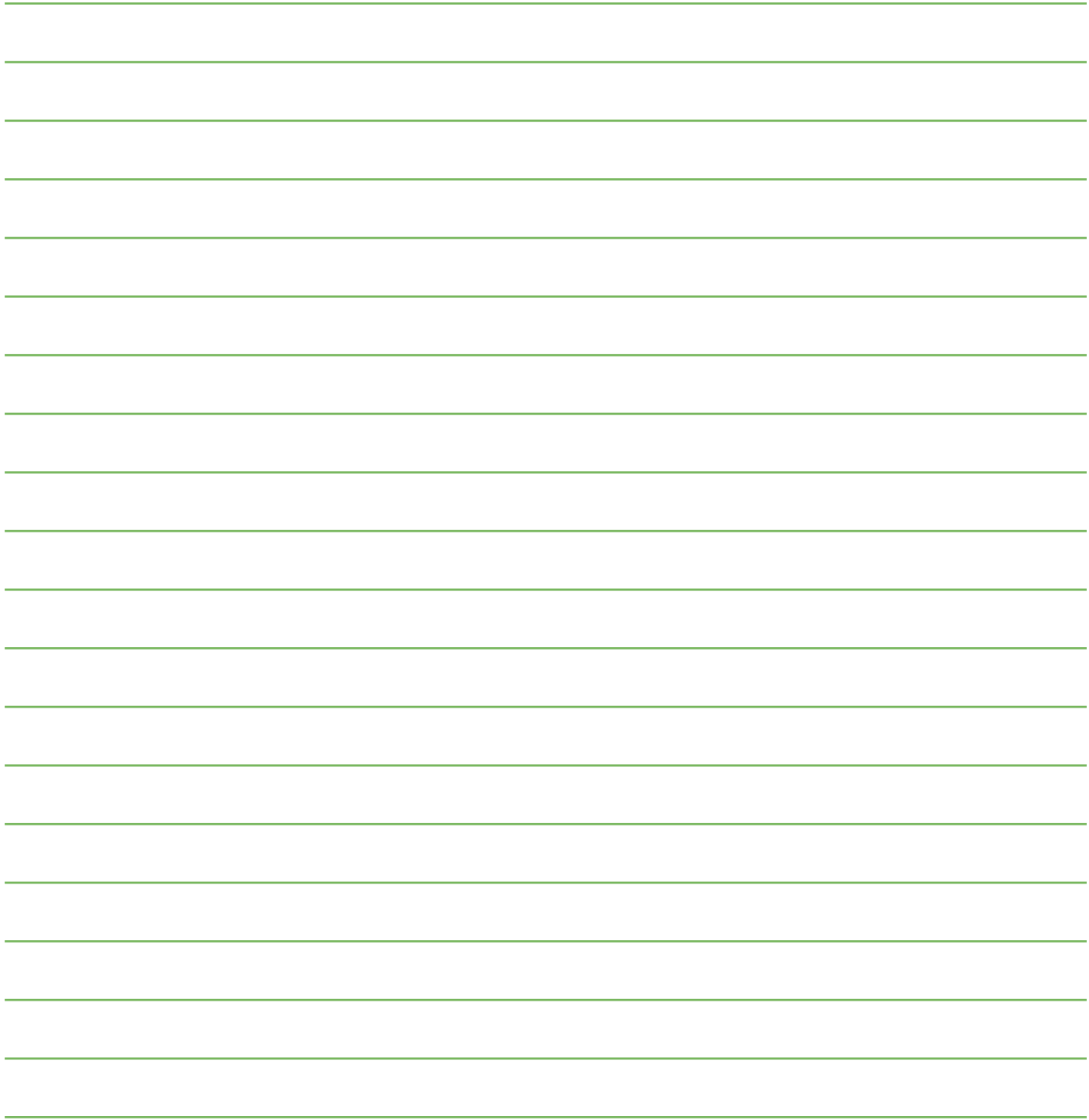
Galvanised cable entrance device with adjustable double protection.

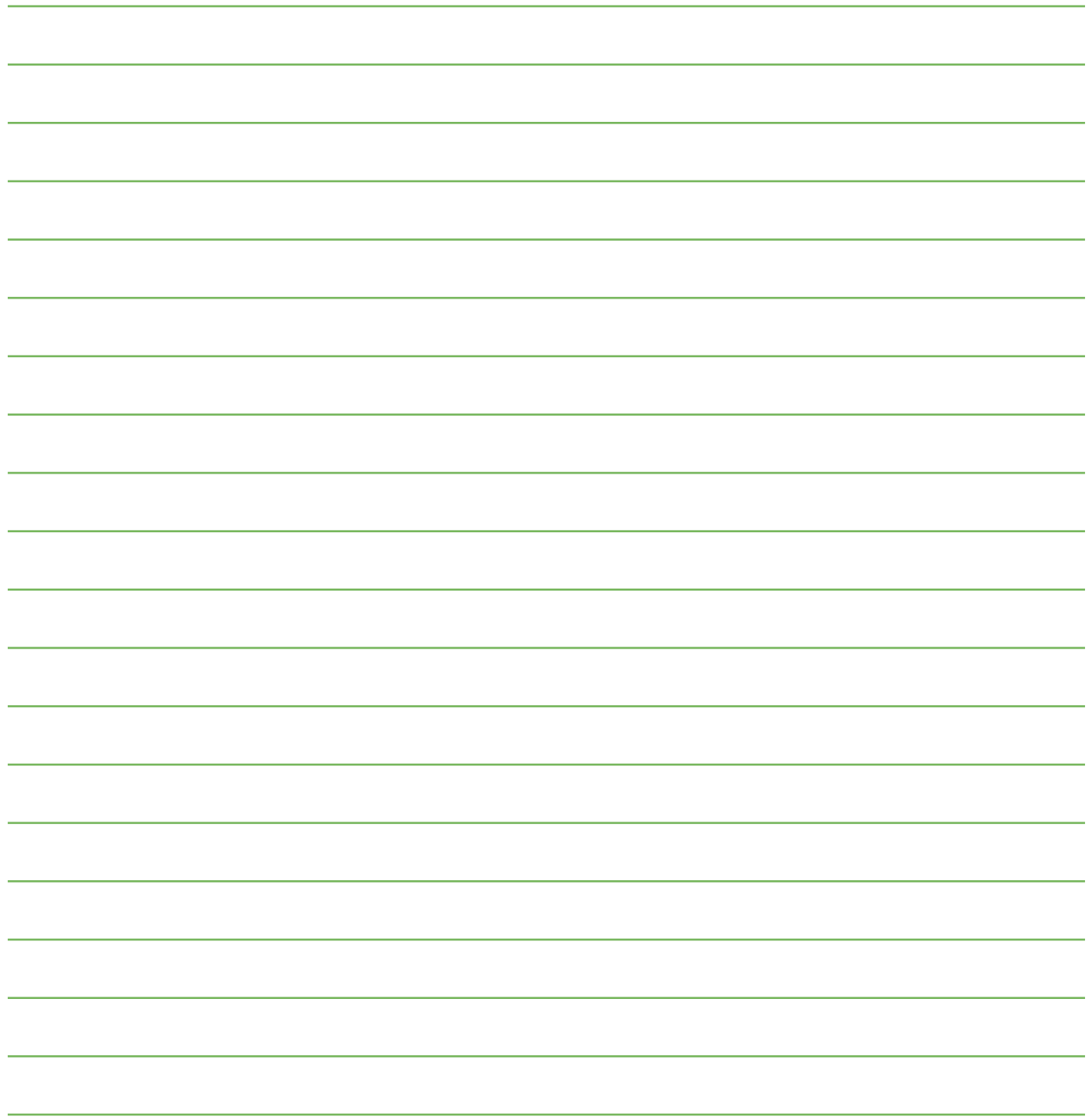


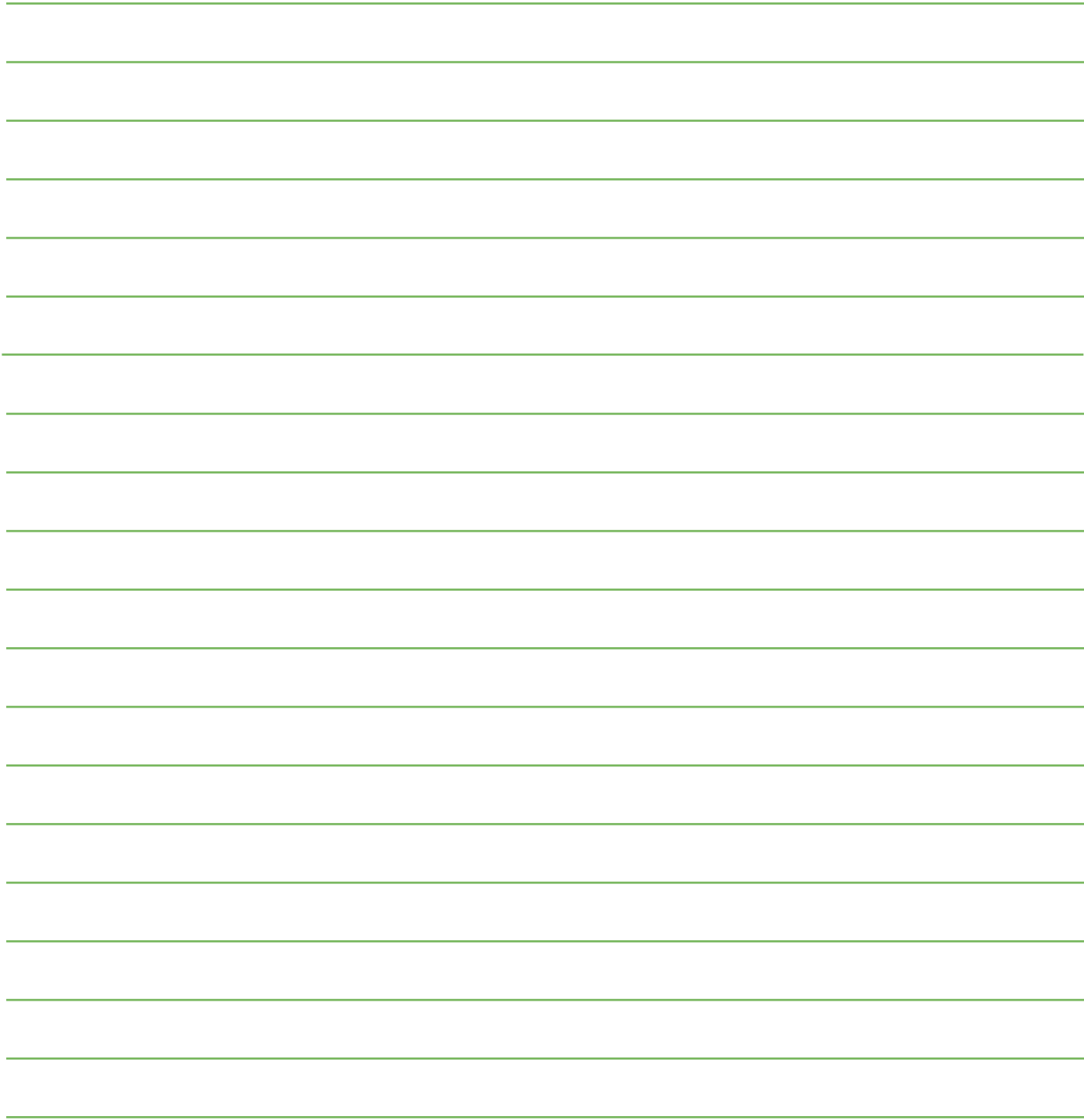
	Ø external	weight		Ø external	weight
	mm	kg		mm	kg
<b>C110.P.05</b>	51	2,5	<b>C110.P.13</b>	140	6,4
<b>C110.P.07</b>	76	3,5	<b>C110.P.15</b>	152	6,6
<b>C110.P.09</b>	89	4,2	<b>C110.P.17</b>	168	7,4
<b>C110.P.10</b>	114	5,0	<b>C110.P.20</b>	194	8,3
<b>C110.P.12</b>	133	6,2			

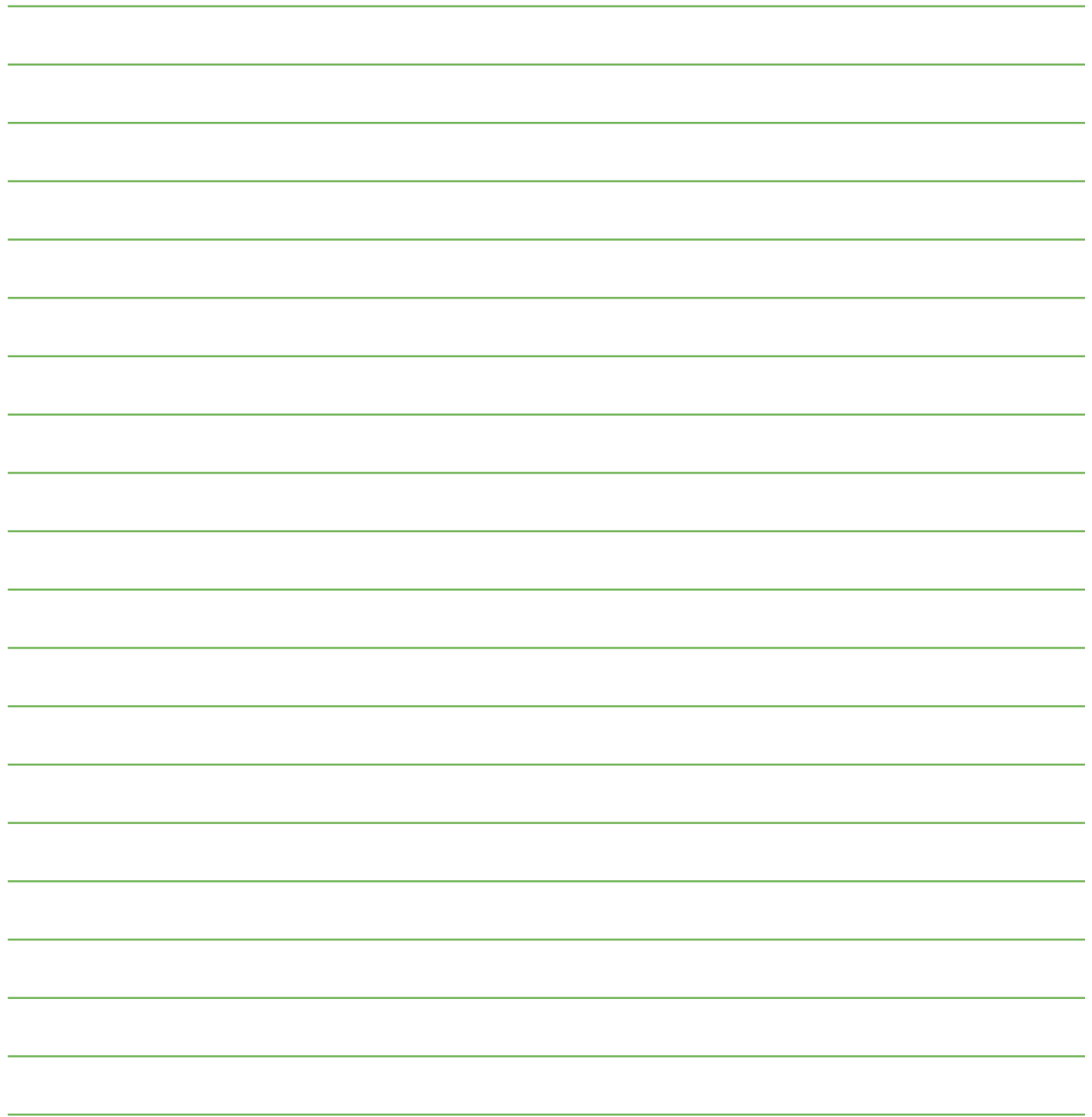


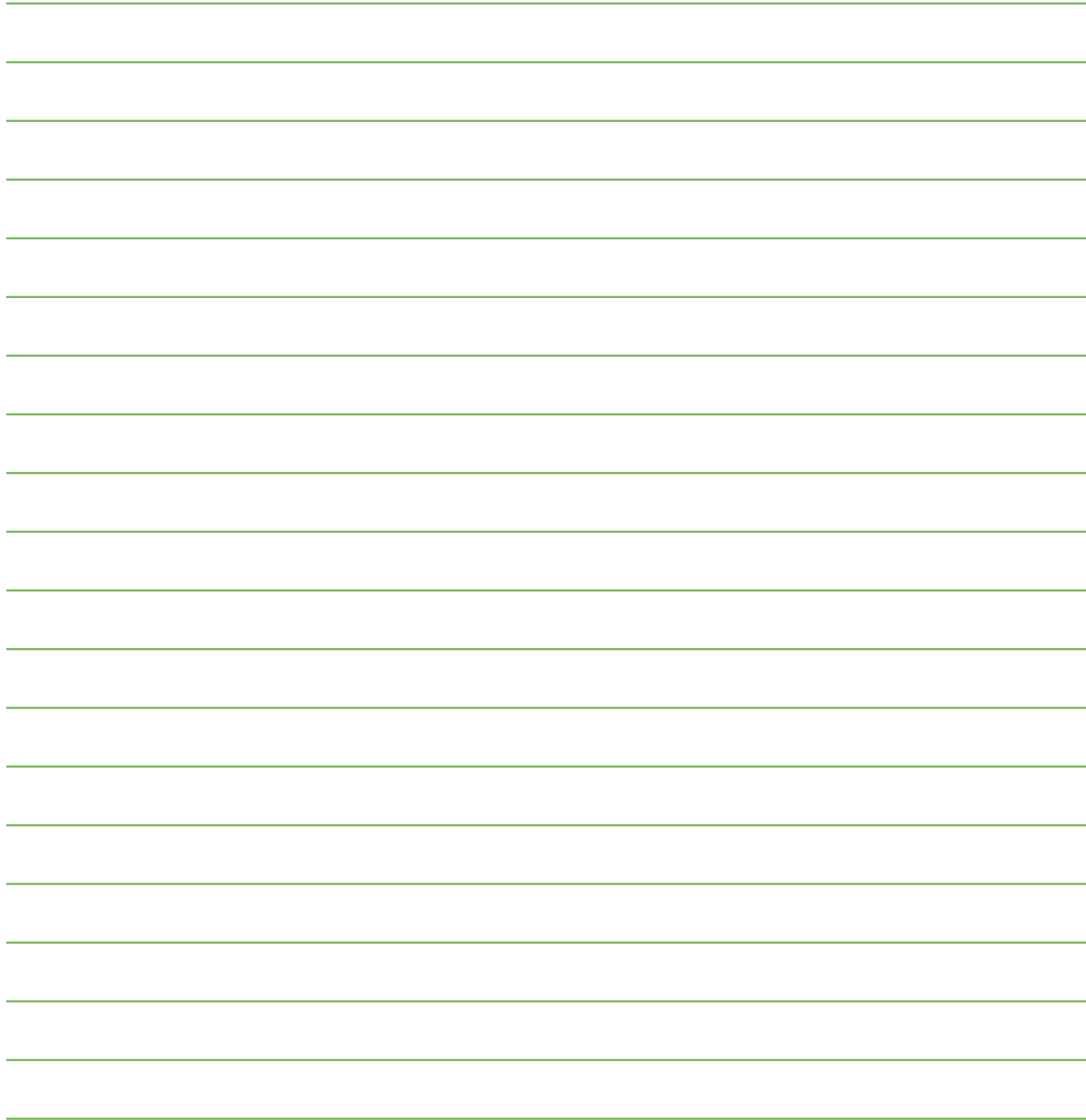
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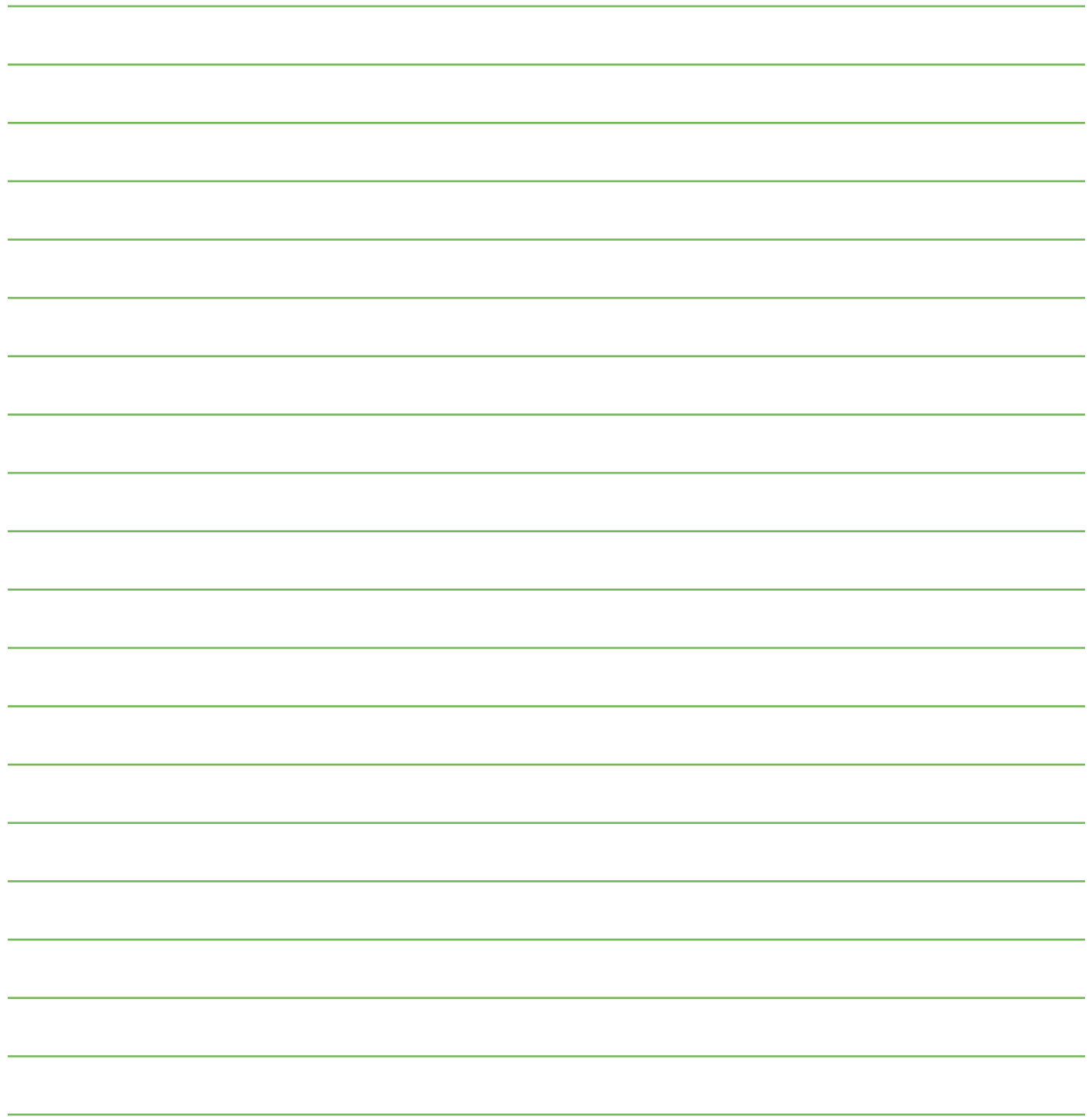


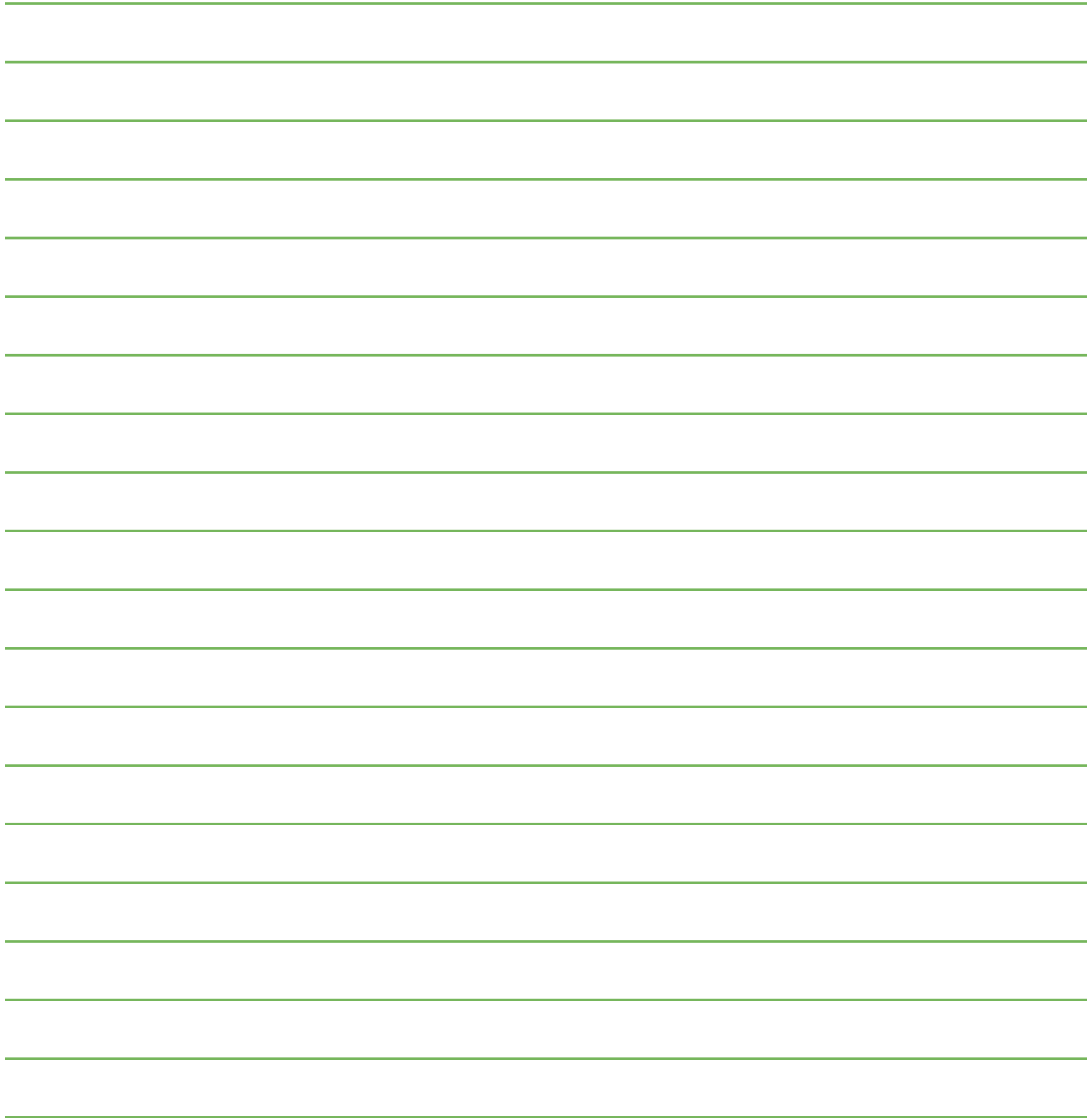


















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