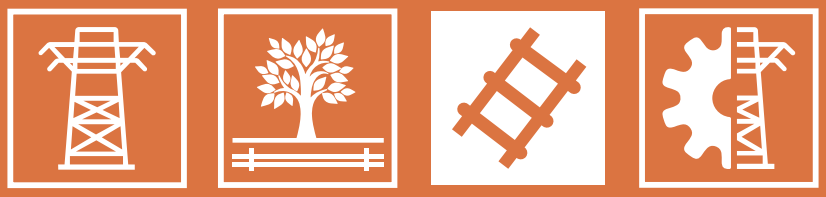
RAILWAY LINE STRINGING

MACHINES AND EQUIPMENT



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INDEX

OLS - OMAC LINK SYSTEM

REMOTE MONITORING & DIAGNOSTICS

REMOTE PARAMETERS SETTING

REMOTE MAINTENANCE & TROUBLESHOOTING

GPS GEOLOCATION

FEATURES

- LARGE-SIZED (9") 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

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

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)

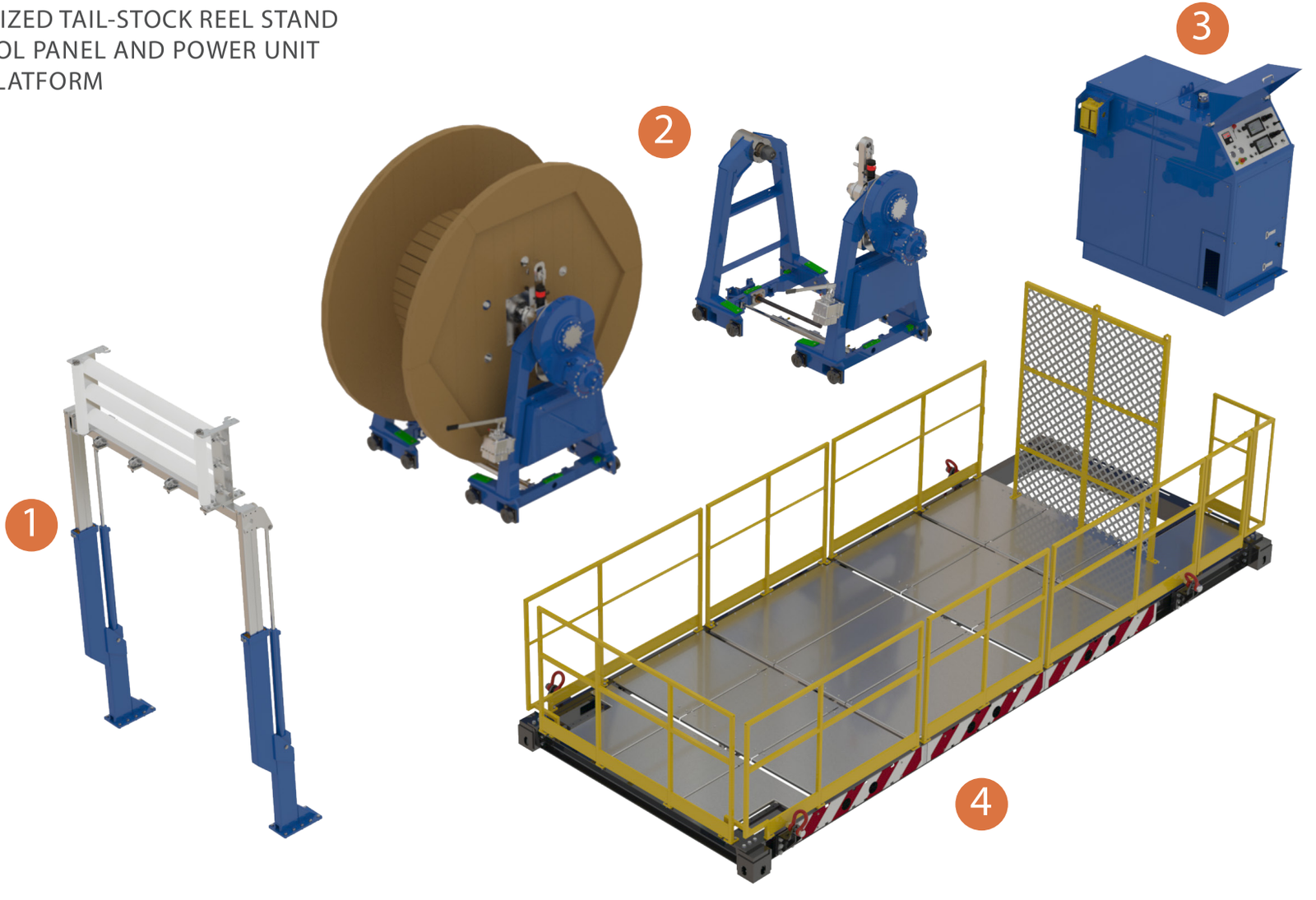
GPS GEOLOCATION

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

TENSIONING
TAIL-STOCK REEL STAND
CATENARY WIRING SYSTEM

TAIL-STOCK REEL STAND CATENARY WIRING SYSTEM

1 - PORTAL MAST
2 - MOTORIZED TAIL-STOCK REEL STAND
3 - CONTROL PANEL AND POWER UNIT
4 - BASE PLATFORM



TRN5.1

MAX STRINGING FORCE 5 KN

Automatic tensioning/recovering unit for 1 (one) catenary or contact wire, not autonomous (no diesel engine installed): an external hydraulic power and electrical (12/24V) sources must be supplied by the client.

MAX PULL
5 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 2000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	1800 mm
MAX REEL WIDTH	1150 mm
MAX REEL WEIGHT	2000 kg

TENSION PERFORMANCES

TOTAL FORCE	5 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	5 kN
MAX SPEED	3 km/h

ENGINE

TYPE	NA
POWER	NA
COOLING	NA
VOLTAGE	12/24 V

UNIT WEIGHT

WEIGHT (without reel)	1600 kg

UNIT DIMENSIONS

LENGTH	2450 mm
WIDTH	2450 mm
HEIGHT	1200 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
439.1	Reel-stand rotation: mechanical device for rotating the stand (±45°) with mechanical stops on 3 (each 15°) positions

CAB AND CONTROL PANEL

069.4	Digital instrument dashboard 7 "DEG 4.0 for setting measuring and save all force parameters and download all datas via USB port (alternative to standard analogical instruments)
037.D	10 m cable remote control for managing the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length

TELESCOPIC MAT AND MAST

131.7.TR	Portal Mast telescopic with rollers for guiding the wire or the cable during stringing and recovering operation. Minimum height position: 2400 mm, Max height position: 3600 mm
131.1.TR	Single swinging MAST (+/- 600 mm from centre of the rail). All closed height from platform base: 2600 mm, stroke 2400 mm, max open height 5000 mm

OTHER OPTIONS

052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour), barriers height 1 or 1,1 m

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.

TR5.1

MAX STRINGING FORCE 5 KN

Automatic tensioning/recovering unit to install 1 (one) catenary or contact wire.

MAX PULL
5 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 3500 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2000 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	5 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	5 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	18 kW (24,5 HP)
COOLING	Water
VOLTAGE	12/24 V

UNIT WEIGHT

WEIGHT (without rope)	1950 kg

UNIT DIMENSIONS

LENGTH	3300 mm
WIDTH	2000 mm
HEIGHT	2500 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
439.1	Reel-stand rotation: mechanical device for rotating the stand (±45°) with mechanical stops on 3 (each 15°) positions
439.2	Reel stand rotation: hydraulic device activated by manual pump device for rotating the stand (±45°) with mechanical stops on 3 (each 15°) position

CAB AND CONTROL PANEL

069.4	Digital instrument dashboard 7 "DEG 4.0 for setting measuring and save all force parameters and download all datas via USB port (alternative to standard analogical instruments)
037.D	10 m cable remote control for managing the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length
CAB.TR	Control Cab (including control panel) completed by door, windows, internal light, air ventilation (dimension 800 x 800 x 2000 mm)

TELESCOPIC MAT AND MAST

131.7.TR	Telescopic Portal Mast with rollers for guiding the wire or the cable during stringing and recovering operation. Minimum height position: 2400 mm, Max height position: 3600 mm
131.1.TR	Single swinging MAST (+/- 600 mm from centre of the rail). All closed height from platform base: 2600 mm, stroke 2400 mm, max open height 5000 mm

OTHER OPTIONS

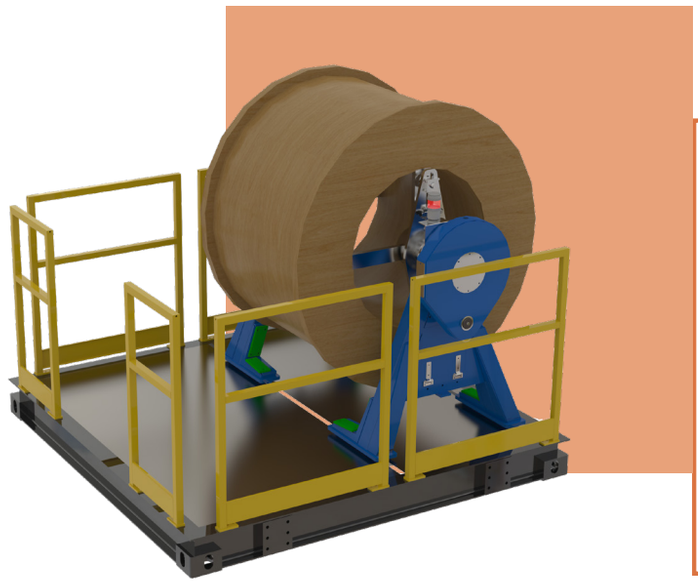
052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour) barriers height 1 or 1,1 m

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.

TRN10.1

MAX STRINGING FORCE 10 KN

Automatic tensioning/recovering unit to install 1 (one) catenary or contact wire.



MAX PULL
10 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 4000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2000 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	4000 kg

TENSION PERFORMANCES

TOTAL FORCE	10 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	10 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	N/A
POWER	N/A
COOLING	N/A
VOLTAGE	12/24 V

UNIT WEIGHT

WEIGHT	2200 kg

UNIT DIMENSIONS

LENGTH	3300 mm
WIDTH	2000 mm
HEIGHT	2500 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
439.1	Reel-stand rotation: mechanical device for rotating the stand (±45°) with mechanical stops on 3 (each 15°) positions
439.2	Reel stand rotation: hydraulic device activated by manual pump for rotating the stand (±45°) with mechanical stops on 3 (each 15°) position

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.

TR10.1

MAX STRINGING FORCE 10 KN

Automatic tensioning/recovering unit to install 1 (one) catenary or contact wire.

MAX PULL
10 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 4000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2000 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	4000 kg

TENSION PERFORMANCES

TOTAL FORCE	10 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	10 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	18 kW (24,5 HP)
COOLING	Water
VOLTAGE	12/24 V

UNIT WEIGHT

WEIGHT	2200 kg

UNIT DIMENSIONS

LENGTH	3300 mm
WIDTH	2000 mm
HEIGHT	2500 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
439.1	Reel-stand rotation: mechanical device for rotating the stand (±45°) with mechanical stops on 3 (each 15°) positions
439.2	Reel stand rotation: hydraulic device activated by manual pump for rotating the stand (±45°) with mechanical stops on 3 (each 15°) position

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.

TR10.2

MAX STRINGING FORCE 10 KN

Automatic tensioning/recovering unit for 2 (two) catenary or contact wires simultaneously or independently.

MAX PULL
10 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 3500 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2200 mm
MAX REEL WIDTH	1150 mm
MAX REEL WEIGHT	4000 kg

TENSION PERFORMANCES

TOTAL FORCE	10 kN = 5 +5 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	10 kN = 5 + 5 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	26 kW (35 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	3500 kg

UNIT DIMENSIONS

LENGTH	6000 mm
WIDTH	2250 mm
HEIGHT	2300 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND (FOR EACH REEL-STAND)

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
410.1	Manual disk brake to control the wiring releasing in case of hydraulic failure

CAB AND CONTROL PANEL

069.4	1 x Digital instrument dashboard 7 "DEG 4.0 for setting measuring and save all force parameters and download all datas via USB port (alternative to standard analogical instruments)
37.2.20.RT	10 m cable remote control for controlling the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length
CAB.TR	Control Cab (including control panel) completed by door, windows, internal light, air ventilation (dimension 800 x 800 x 2000 mm)

TELESCOPIC MAT AND MAST

131.7.TR	Telescopic Portal Mast with rollers for guiding the wire or the cable during stringing and recovering operation. Minimum height position: 2400 mm, Max height position: 3600 mm
131.1.TR	Single swinging MAST (+/- 600 mm from centre of the rail). All closed height from platform base: 2600 mm, stroke 2400 mm, max open height 5000 mm

OTHER OPTIONS

052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour) barriers height 1 or 1,1 m

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.

TRN22.2

MAX STRINGING FORCE 22 KN

Automatic tensioning/recovering unit for 2 (two) catenary or contact wires simultaneously or independently, not autonomous (no diesel engine installed): external power and electrical sources supplied by the client.

MAX PULL
22 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 2000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	1700 mm
MAX REEL WIDTH	1000 mm
MAX REEL WEIGHT	2000 kg

TENSION PERFORMANCES

TOTAL FORCE	22 kN = 11 + 11 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	22 kN = 11 + 11 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	NA
POWER	NA
COOLING	NA
VOLTAGE	12/24 V

UNIT WEIGHT

WEIGHT	1800 kg

UNIT DIMENSIONS

LENGTH	4700 mm
WIDTH	2250 mm
HEIGHT	1200 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND (FOR EACH REEL-STAND)

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
439.1	Reel-stand rotation: mechanical device for rotating the stand (±45°) with mechanical stops on 3 (each 15°) positions
439.2	Reel stand rotation: hydraulic device activated by manual pump for rotating the stand (±45°) with mechanical stops on 3 (each 15°) positions

CAB AND CONTROL PANEL

069.4	1 x Digital instrument dashboard 7 "DEG 4.0 for setting measuring and save all force parameters and download all datas via USB port (alternative to standard analogical instruments)
37.2.20.RT	10 m cable remote control for controlling the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length
CAB.TR	The Control Cab (including control panel) completed by door, windows, internal light, air ventilation (dimension 800 x 800 x 2000 mm)

TELESCOPIC MAT AND MAST

131.7.TR	Telescopic Portal Mast with rollers for guiding the wire or the cable during stringing and recovering operation. Minimum height position: 2400 mm, Max height position: 3600 mm
131.1.TR	Single swinging MAST (+/- 600 mm from centre of the rail). All closed height from platform base: 2600 mm, stroke 2400 mm, max open height 5000 mm

OTHER OPTIONS

052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour), barriers height 1 or 1,1 m

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.

TR30.2

MAX STRINGING FORCE 30 KN

Automatic recovering/tensioning unit to install 2 (two) catenary or contact wires simultaneously or independently.

MAX PULL
30 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 5000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2400 - 1900 mm
MAX REEL WIDTH	1000 - 1300 mm
MAX REEL WEIGHT	5000 kg

TENSION PERFORMANCES

TOTAL FORCE	30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	20 - 30 kN
MAX SPEED	3 km/h

ENGINE

TYPE	Diesel
POWER	42 kW (57 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	4740 kg

UNIT DIMENSIONS

LENGTH	5950 mm
WIDTH	2290 mm
HEIGHT	2500 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND (FOR EACH REEL-STAND)

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
410.1	Manual disk brake to control the wiring releasing in case of hydraulic failure
060	Conical openable side steel reel suitable for recovering different wires and fittings at the max force
060.2	Cylindrical openable side steel reel with retractable arms to facilitate the wire/cable unloading operations

CAB AND CONTROL PANEL

37.2.20.RT	10 m cable remote control for managing the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length
CAB.TR	Control Cab (including control panel) completed by door, windows, internal light, air ventilation (dimension 800 x 800 x 2000 mm)

TELESCOPIC MAT AND MAST

131.7.TR	Telescopic Portal Mast with rollers for guiding the wire or the cable during stringing and recovering operation. Minimum height position: 2400 mm, Max height position: 3600 mm

OTHER OPTIONS

052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour) barriers height 1 or 1,1 m
093.3	Reticular high security perimeter protection of the reel with two sliding gates (with safety micro switches to control the closing consent) for avoiding excessive crane height lifting during the unloading of the full reel

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 TAIL-STOCK REEL STAND CATENARY WIRING SYSTEM

RT20.1

MAX STRINGING FORCE 20 KN

Automatic recovering/tensioning unit of 1 (one) catenary or contact wire.

MAX PULL
20 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 5000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2250 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	5000 kg

TENSION PERFORMANCES

TOTAL FORCE	20 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	20 kN
MAX SPEED	2,5 km/h

ENGINE

TYPE	Diesel
POWER	42 kW (57 HP)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	4800 kg

UNIT DIMENSIONS

LENGTH	4500 mm
WIDTH	2280 mm
HEIGHT	2500 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND

060	Conical openable side steel reel suitable for recovering different wires and fittings at the max force
060.2	Cylindrical openable side steel reel with retractable arms to facilitate the wire/cable unloading operations
439R	Hydraulic 90° reel-stands rotation device actuated from the cab to facilitate reel installation and removal
446	Additional Hydraulic circuit fit for working in both running directions. It is necessary for a BI-DIRECTIONAL System (Opt. 046.4 is mandatory)

HYDRAULIC GROUP AND DIESEL ENGINE

114	Electronic device for setting and maintaining automatically the preset tension value independently from the speed. Complete with memory card. Max. Reading System Error = +/- 8% on the full scale
102	High-precision detection device of the recovery / braking force with electronic load cell to detect the real force, regardless of the winding diameter of the cable on the reel. Error of 1% in dynamic mode on the full seale

CAB AND CONTROL PANEL

037	Cable remote control with 10 m cable to command reels and mast functions
038	Radio remote control with 5 m emergency backup cable to manage reels and mast functions
046.4	Additional telescopic MAST oscillating fit for working in both running directions (Opt. 446 is mandatory. It is necessary for a BI-DIRECTIONAL System)

OTHER OPTIONS

093.2	Protection barriers around the platform, height 1.100 mm on 4 (four) sides
093.3	Reticular high security perimeter protection of the reel with two sliding gates (with safety micro switches to control the closing consent) for avoiding excessive crane lifting in height during the unloading of the full reel
136	Service hydraulic winch, 1 ton capacity, with 50 m of cable rope 10 mm dia
052.2	Lights for night work

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.

RT30.2

MAX STRINGING FORCE 30 KN

Automatic recovering/tensioning unit to install 2 (two) catenary or contact wires simultaneously or independently.

MAX PULL
30 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 5000 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2400 - 1900 mm
MAX REEL WIDTH	1000 - 1300 mm
MAX REEL WEIGHT	5000 kg

TENSION PERFORMANCES

TOTAL FORCE	20 -30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	20 - 30 kN
MAX SPEED	3 km/h

ENGINE

TYPE	Diesel
POWER	42 kW (57 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	4740 kg

UNIT DIMENSIONS

LENGTH	5950 mm
WIDTH	2290 mm
HEIGHT	2500 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND (FOR EACH REEL-STAND)

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
410.1	Manual disk brake to control the wiring releasing in case of hydraulic failure
060	Conical openable side steel reel suitable for recovering different wires and fittings at the max force
060.2	Cylindrical openable side steel reel with retractable arms to facilitate the wire/cable unloading operations

CAB AND CONTROL PANEL

37.2.20.RT	10 m cable remote control for managing the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length
CAB.TR	Control Cab (including control panel) completed by door, windows, internal light, air ventilation (dimension 800 x 800 x 2000 mm)

TELESCOPIC MAT AND MAST

131.7.TR	Telescopic Portal Mast with rollers for guiding the wire or the cable during stringing and recovering operation. Minimum height position: 2400 mm, Max height position: 3600 mm

OTHER OPTIONS

052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour) barriers height 1 or 1,1 m
093.3	Reticular high security perimeter protection of the reel with two sliding gates (with safety micro switches to control the closing consent) for avoiding excessive crane height lifting during the unloading of the full reel

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.

RT60.2

MAX STRINGING FORCE 60 KN

Automatic recovering/tensioning unit to install 2 (two) catenary or contact wires simultaneously or independently.

MAX PULL
60 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 6500 kg

REEL DIMENSIONS

MAX REEL DIAMETER	2200 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	6500 kg

TENSION PERFORMANCES

TOTAL FORCE	60 kN = 30 + 30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	60 kN = 30 + 30 kN
MAX SPEED	5 km/h

ENGINE

TYPE	Diesel
POWER	105 kW (145 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	9000 kg

UNIT DIMENSIONS

LENGTH	9000 mm
WIDTH	2500 mm
HEIGHT	2200 mm

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.

OPTIONAL DEVICES

TAIL STOCK REEL STAND (FOR EACH REEL-STAND)

404	Cylindrical bushes for centring the conductor drum holes and spacer bush with specific client diameter to be specified
410.1	Manual disk brake to control the wiring releasing in case of hydraulic failure
060	Conical openable side steel reel suitable for recovering different wires and fittings at the max force
060.2	Cylindrical openable side steel reel with retractable arms to facilitate the wire/cable unloading operations
439R	90' rotation device of the reel-stand, fit to facilitate the download of the reel
102	Device with load cell fit for monitoring the actual pull/tension force, independently of the diameter reached by the cable winding on the reel

CAB AND CONTROL PANEL

37.2.20.RT	10 m cable remote control for managing the reel-stand (in stringing and recovering mode) and MAST, complete of display
038	Radio remote control equipped with braking force command, brake operation and emergency button, complete with back-up cable 10 meters length

OTHER OPTIONS

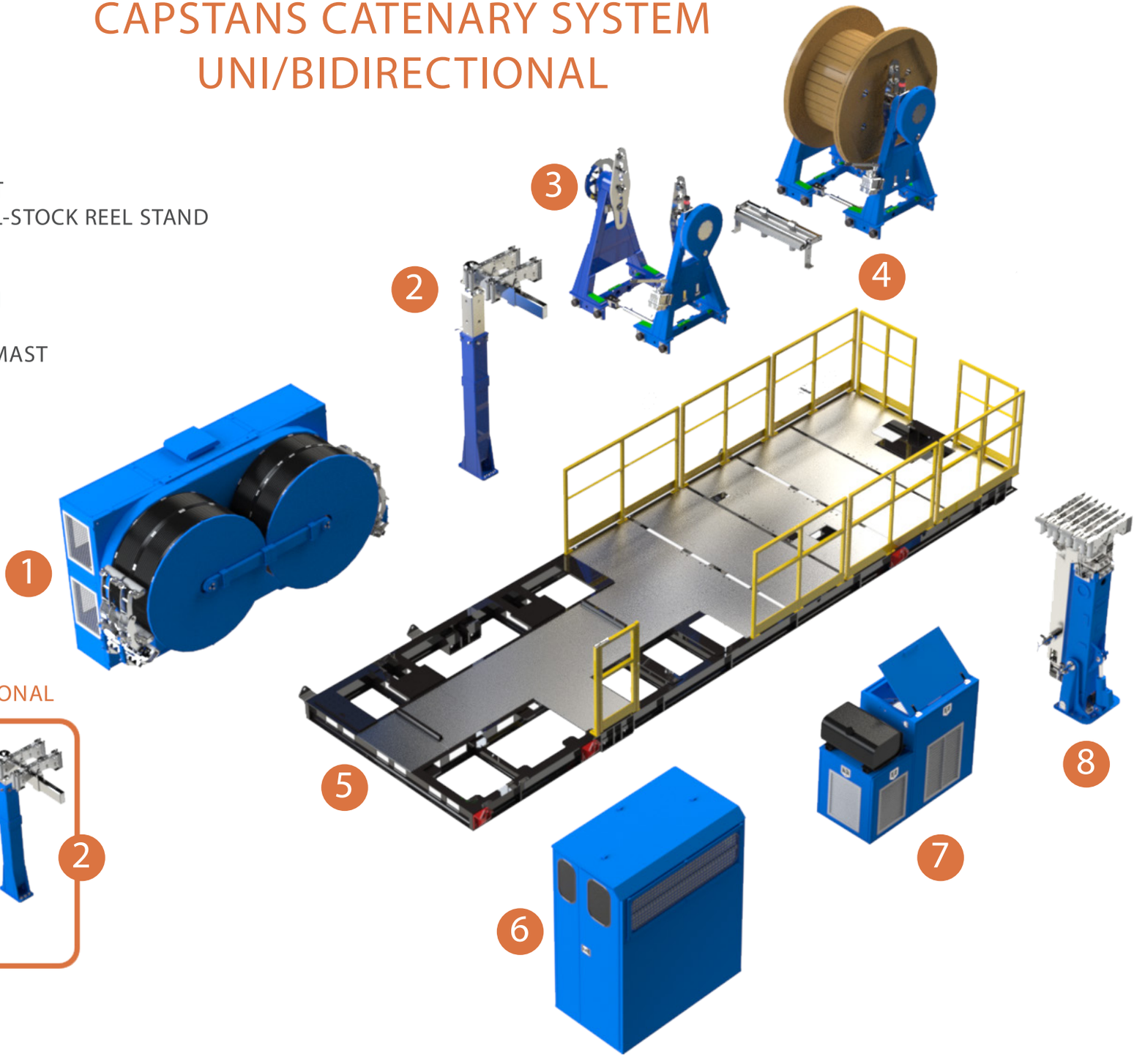
052.2	Light System fit for Night-Work
093.2	Protective barriers on machine perimeter including openable entrance. Painted (as per requested colour) barriers height 1 or 1,1 m
093.3	Reticular high security perimeter protection of the reel with two sliding gates (with safety switches to control the closing consent) for avoiding excessive crane height lifting during the unloading of the full reel

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.

CAPSTANS CATENARY WIRING SYSTEM

CAPSTANS CATENARY SYSTEM
UNI/BIDIRECTIONAL

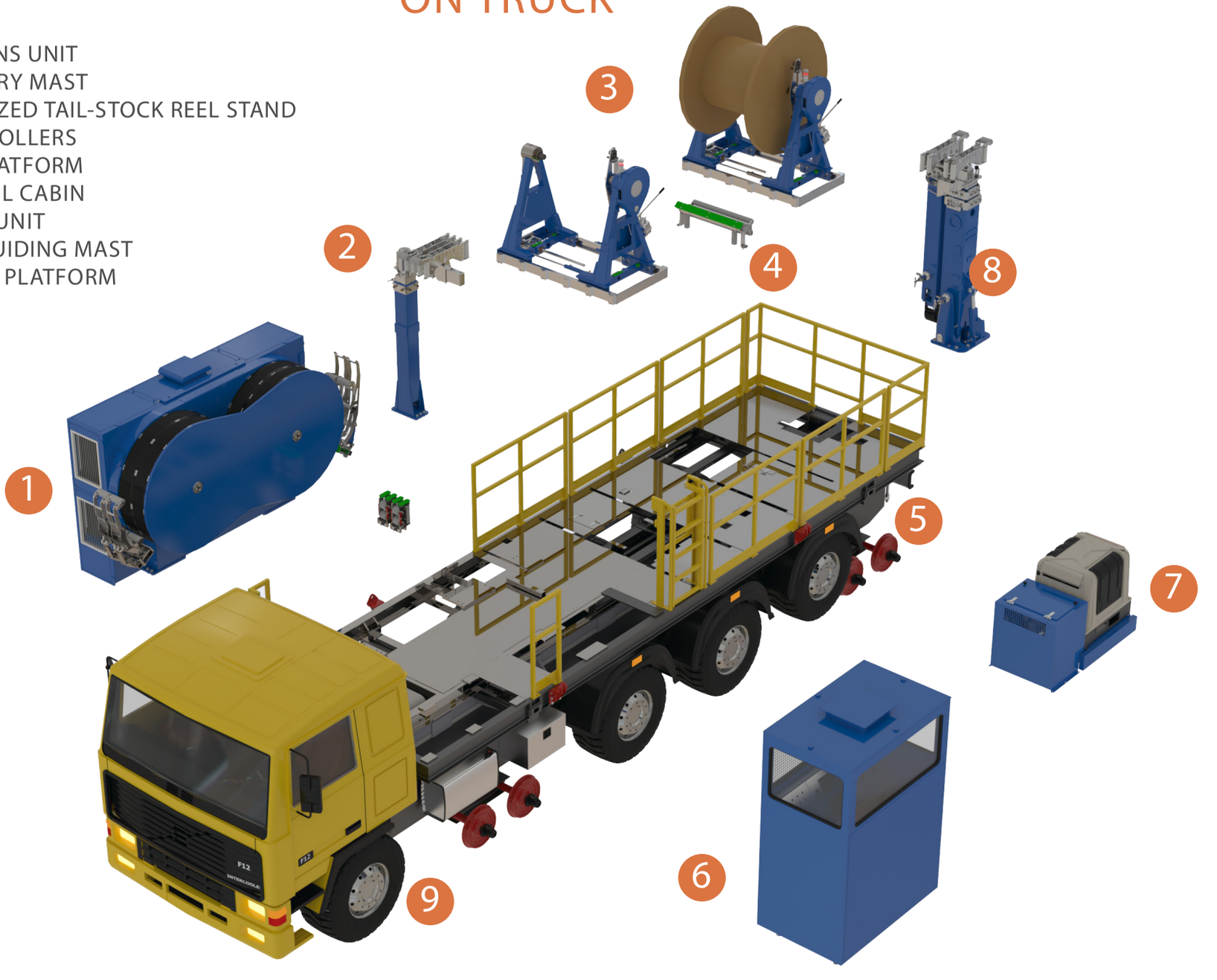
1 - CAPSTANS UNIT
2 - AUXILIARY MAST
3 - MOTORIZED TAIL-STOCK REEL STAND
4 - GUIDE ROLLERS
5 - BASE PLATFORM
6 - CONTROL CABIN
7 - POWER UNIT
8 - MAIN GUIDING MAST



BIDIRECTIONAL

UNIDIRECTIONAL CAPSTANS CATENARY SYSTEM ON TRUCK

1 - CAPSTANS UNIT
2 - AUXILIARY MAST
3 - MOTORIZED TAIL-STOCK REEL STAND
4 - GUIDE ROLLERS
5 - BASE PLATFORM
6 - CONTROL CABIN
7 - POWER UNIT
8 - MAIN GUIDING MAST
9 - VEHICLE PLATFORM



CTV15.1.11

MAX STRINGING FORCE 15 KN

Constant tensioning/recovering unit suitable to install 1 (one) suspension/contact wire with 1 (one) hydraulic circuit, equipped with 1 (one) tail stock reel stands.

MAX PULL
15 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 2500 kg

CAPSTANS
2 x 1100 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	2500 kg

TENSION PERFORMANCES

TOTAL FORCE	15 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	15 kN
MAX SPEED	1 km/h

ENGINE

TYPE	Diesel
POWER	18,8 kW
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	4800 kg (without optionals)

UNIT DIMENSIONS

LENGTH	5500 mm
WIDTH	2300 mm
HEIGHT	2350 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.1	Automatic hydraulic presser-rollers on the capstans grooves
045.3.1	Manual presser-rollers on the capstans grooves
118.1	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.1	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
020.1	Extra numbers of grooves for the circuit (since 10 groves)
142.1	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.1	Mandatory opt. 142.1, allows to complete stringing operation with about 500 daN wire tensioning force
160	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable
136	Service auxiliary large grove hydraulic winch fed by the hydraulic circuit of the machine, max pull 1,5 ton or 3 ton, capacity 80 m of rope 12 mm

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

CT20.1

MAX STRINGING FORCE 20 KN

Constant tensioning/recovering unit suitable to install 1 (one) suspension/contact wire with 1 (one) hydraulic circuit, equipped with 1 (one) tail stock reel stands.

MAX PULL
20 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 2500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	2500 kg

TENSION PERFORMANCES

TOTAL FORCE	20 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	20 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	18 kW (24,5 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	6900 kg

UNIT DIMENSIONS

LENGTH	6500 mm
WIDTH	2250 mm
HEIGHT	2300 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.1	Automatic hydraulic presser-rollers on the capstans grooves
045.3.1	Manual presser-rollers on the capstans grooves
118.1	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.1	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
020.1	Extra numbers of grooves for the circuit (since 10 groves)
142.1	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.1	Mandatory opt. 142.1, allows to complete stringing operation with about 500 daN wire tensioning force
160	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable
136	Service auxiliary large grove hydraulic winch fed by the hydraulic circuit of the machine, max pull 1,5 ton or 3 ton, capacity 80 m of rope 12 mm

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

CT30.1

MAX STRINGING FORCE 30 KN

Constant tensioning/recovering unit suitable to install 1 (one) suspension/contact wire with 1 (one) hydraulic circuit, equipped with 1 (one) tail stock reel stands.

MAX PULL
30 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
1 x 3500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	30 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	36 kW (49 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	7500 kg

UNIT DIMENSIONS

LENGTH	6500 mm
WIDTH	2250 mm
HEIGHT	2300 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.1	Automatic hydraulic presser-rollers on the capstans grooves
045.3.1	Manual presser-rollers on the capstans grooves
118.1	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.1	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
020.1	Extra numbers of grooves for the circuit (since 10 groves)
142.1	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.1	Mandatory opt. 142.1, allows to complete stringing operation with about 500 daN wire tensioning force
160	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable
136	Service auxiliary large grove hydraulic winch fed by the hydraulic circuit of the machine, max pull 1,5 ton or 3 ton, capacity 80 m of rope 12 mm

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

CTV40.2

MAX STRINGING FORCE 40 KN

Constant tensioning/recovering unit suitable to install 2 (two) suspension/contact wires simultaneously or independently with 2 (two) hydraulic circuits, equipped with 2 (two) tail stock reel stands.

MAX PULL
40 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 2200 kg

CAPSTANS
2 x 1300 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1600 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	2200 kg

TENSION PERFORMANCES

TOTAL FORCE	40 kN = 20 + 20 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	40 kN = 20 + 20 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	36 kW (49 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	7400 kg

UNIT DIMENSIONS

LENGTH	7100 mm
WIDTH	2450 mm
HEIGHT	2700 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.2	Automatic hydraulic presser-rollers on the capstans grooves
045.3.2	Manual presser-rollers on the capstans grooves
118.2	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.2	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.2	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.2	Mandatory opt. 142.1, allows to complete stringing operation with about 500 daN wire tensioning force
160.2	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab
038	Radio remote control for all the main function of the tensioning system (max 50 m)
CAB2	2.000 mm cab length (Alternative to standard 1.400 mm cab)
CAB3	2.400 mm cab length (Alternative to standard 1.400 mm cab)

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5	Extension 1.375 mm, for opt 131.1 with guide rollers for 1 wire/cable, height all open 6.625 mm. Swinging from the centre +/- 800 mm
131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5.2	Extension with guide roller for two (2) wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm, suitable for two groups working
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

CT40.2

MAX STRINGING FORCE 40 KN

Constant tensioning/recovering unit suitable to install 2 (two) suspension/contact wires simultaneously or independently with 2 (two) hydraulic circuits, equipped with 2 (two) tail stock reel stands.

MAX PULL
40 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 3500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	40 kN = 20 + 20 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	40 kN = 20 + 20 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	36 kW (49 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	10500 kg

UNIT DIMENSIONS

LENGTH	8550 mm
WIDTH	2450 mm
HEIGHT	2600 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.2	Automatic hydraulic presser-rollers on the capstans grooves
045.3.2	Manual presser-rollers on the capstans grooves
118.2	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.2	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.2	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.2	Mandatory opt. 142.1, allows to complete stringing operation with about 500 daN wire tensioning force
160.2	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab
038	Radio remote control for all the main function of the tensioning system (max 50 m)
CAB2	2.000 mm cab length (Alternative to standard 1.400 mm cab)
CAB3	2.400 mm cab length (Alternative to standard 1.400 mm cab)

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5	Extension 1.375 mm, for opt 131.1 with guide rollers for 1 wire/cable, height all open 6.625 mm. Swinging from the centre +/- 800 mm
131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5.2	Extension with guide roller for two (2) wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm, suitable for two groups working
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

CT60.2

MAX STRINGING FORCE 6 0 KN

Constant tensioning/recovering unit suitable to install 2 (two) suspension/contact wires simultaneously or independently with 2 (two) hydraulic circuits, equipped with 2 (two) tail stock-reel stands.

MAX PULL
60 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 3500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	60 kN = 30 + 30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	60 kN = 30 + 30 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	55 kW (75 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	11500 kg

UNIT DIMENSIONS

LENGTH	8550 mm
WIDTH	2450 mm
HEIGHT	2600 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.2	Automatic hydraulic presser-rollers on the capstans grooves
045.3.2	Manual presser-rollers on the capstans grooves
118.2	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.2	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.2	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.2	Mandatory opt. 142.1, allows to complete stringing operation with about 500 daN wire tensioning force
160.2	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab
038	Radio remote control for all the main function of the tensioning system (max 50 m)
CAB2	2.000 mm cab length (Alternative to standard 1.400 mm cab)
CAB3	2.400 mm cab length (Alternative to standard 1.400 mm cab)

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5	Extension 1.375 mm, for opt 131.1 with guide rollers for 1 wire/cable, height all open 6.625 mm. Swinging from the centre +/- 800 mm
131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5.2	Extension with guide roller for two (2) wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm, suitable for two groups working
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

CT60.4

MAX STRINGING FORCE 6 0 KN

Constant tensioning/recovering unit suitable to install 2 (two) suspension/contact wires simultaneously or independently with 2 (two) hydraulic circuits, equipped with 4 (four) tail stock reel stands.

MAX PULL
60 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
4 x 3500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	60 kN = 30 + 30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	60 kN = 30 + 30 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	55 kW (75 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	18000 kg

UNIT DIMENSIONS

LENGTH	13700 mm
WIDTH	2450 mm
HEIGHT	2600 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.2	Automatic hydraulic presser-rollers on the capstans grooves
045.3.2	Manual presser-rollers on the capstans grooves
118.2	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.2	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.2	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.2	Mandatory opt. 142.2, allows to complete stringing operation with about 500 daN wire tensioning force
160.2	Compensator device to keep in tension the last length of the cable by means of a winch with 60 m of wire Rope. (bidirectionality – opt. 118.2 – possible to install two opt 160.2 for each extremity of the group)

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab
038	Radio remote control for all the main function of the tensioning system (max 50 m)
CAB2	2.000 mm cab length (Alternative to standard 1.400 mm cab)
CAB3	2.400 mm cab length (Alternative to standard 1.400 mm cab)

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1	Main guiding telescopic and swinging mast with nylon rollers for (1) wire. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5	Extension 1.375 mm, for opt 131.1 with guide rollers for 1 wire/cable, height all open 6.625 mm. Swinging from the centre +/- 800 mm
131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5.2	Extension with guide roller for two (2) wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm, suitable for two groups working
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

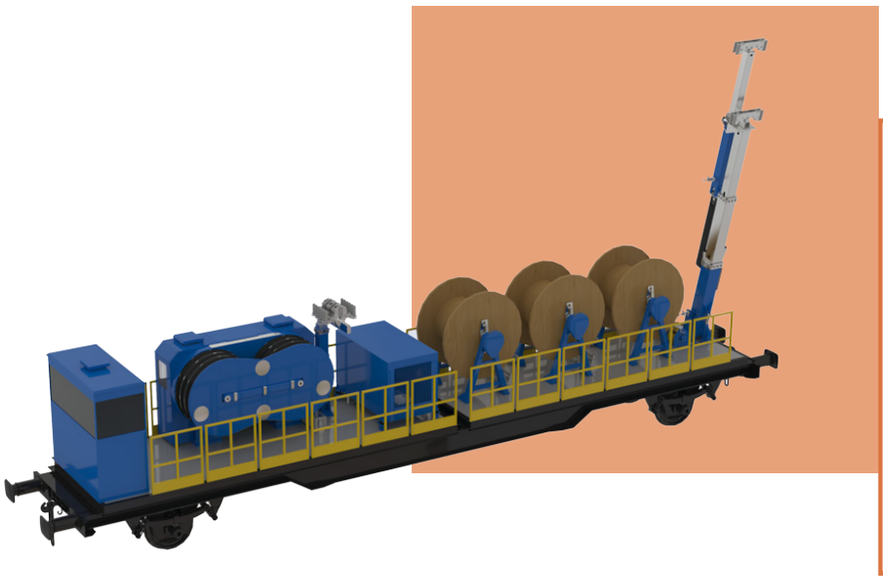
052.2	Light System fit for Night-Work

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.

CT90.3

MAX STRINGING FORCE 90 KN

Constant tensioning/recovering unit suitable to install 3 (three) suspension/contact wires simultaneously or independently with 3 (three) hydraulic circuits, equipped with 3 (three) tail stock reel stands.



MAX PULL
90 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
3 x 3500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	90 kN = 30 + 30 + 30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	90 kN = 30 + 30 + 30 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	75 kW (102 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	15000 kg

UNIT DIMENSIONS

LENGTH	14000 mm
WIDTH	2450 mm
HEIGHT	2600 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.2	Automatic hydraulic presser-rollers on the capstans grooves
045.3.2	Manual presser-rollers on the capstans grooves
118.3	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.3	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.3	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.3	Mandatory opt. 142.3, allows to complete stringing operation with about 500 daN wire tensioning force
160.3	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab
038	Radio remote control for all the main function of the tensioning system (max 50 m)
CAB2	2.000 mm cab length (Alternative to standard 1.400 mm cab)
CAB3	2.400 mm cab length (Alternative to standard 1.400 mm cab)

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5	Extension with guide roller for 1 wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

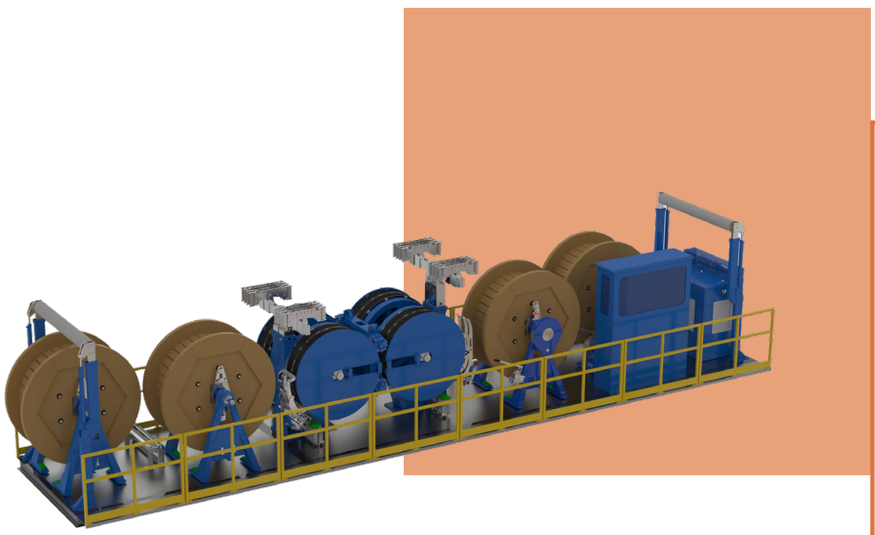
052.2	Light System fit for Night-Work

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.

CT120.4

MAX STRINGING FORCE 120 KN

Constant tensioning/recovering unit suitable to install 4 (four) suspension/contact wires simultaneously or independently with 4 (four) hydraulic circuits, equipped with 4 (four) tail stock reel stands.



MAX PULL
120 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
4 x 3500 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	120 kN = 4 x 30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	120 kN = 4 x 30 kN
MAX SPEED	1,5 km/h

ENGINE

TYPE	Diesel
POWER	105 kW (143 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	21000 kg

UNIT DIMENSIONS

LENGTH	18000 mm
WIDTH	2450 mm
HEIGHT	2400 mm

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.

OPTIONAL DEVICES

CAPSTANS GROUP

045.2.2	Automatic hydraulic presser-rollers on the capstans grooves
045.3.2	Manual presser-rollers on the capstans grooves
118.4	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.4	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.4	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.4	Mandatory opt. 142.4, allows to complete stringing operation with about 500 daN wire tensioning force
160.4	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

CAB AND CONTROL PANEL

107 + 107.1	GPS connection system for remote check-up of the machine
108	Air conditioner in the cab
108.1	Heating system for the cab
108.2	Air condition and heating system for the cab
038	Radio remote control for all the main function of the tensioning system (max 50 m)
CAB2	2.000 mm cab length (Alternative to standard 1.400 mm cab)
CAB3	2.400 mm cab length (Alternative to standard 1.400 mm cab)

TELESCOPIC MAT AND MAST

207.2	Telescopic arm with guide rollers. Closed height: 2.230 mm, extension 1.200 mm from the base platform
131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5.2	Extension with guide roller for two (2) wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm, suitable for two groups working
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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CT60.15.3

MAX STRINGING FORCE 60 KN - MAX RECOVERY FORCE 15 KN

Constant tensioning/recovering unit suitable to install 2 (two) suspension or contact wire simultaneously or independently and 1 (one) motorized reel stand for recovering simultaneously old wires.

MAX PULL
60 + 15 kN

MAX SPEED
5 km/h

TAIL-STOCK REEL-STAND
2 x 3500 kg - 1 x 5000 kg

CAPSTANS
2 x 1500 mm

REEL DIMENSIONS

MAX REEL DIAMETER	1900 mm
MAX REEL WIDTH	1100 mm
MAX REEL WEIGHT	3500 kg

TENSION PERFORMANCES

TOTAL FORCE	60 kN = 30 x 30 kN
MAX SPEED	5 km/h

RECOVERY PERFORMANCES

TOTAL FORCE	15 kN
MAX SPEED	3 km/h

ENGINE

TYPE	Diesel
POWER	75 kW (105 Hp)
COOLING	Water
VOLTAGE	24 V

UNIT WEIGHT

WEIGHT	18000 kg

UNIT DIMENSIONS

LENGTH	12600 mm
WIDTH	2450 mm
HEIGHT	2600 mm

Performances of the machine without optional devices, at sea level and temperature 20°C.
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OPTIONAL DEVICES

CAPSTANS GROUP

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045.3.2	Manual presser-rollers on the capstans grooves
118.2	Bi-Directionality: Hydraulic tensioning circuits suitable to tension in both directions
114.2	Electronic stringing force reading system, tensioning precision ± 1% - ± 5% on the full-scale value
142.2	Device to complete stringing operation also in case of diesel engine breakdown, with freewheel capstans
143.2	Mandatory opt. 142.2, allows to complete stringing operation with about 500 daN wire tensioning force
160.2	Compensator device to keep in tension the last lenght of the cable by means of winch with 60 m of cable

TAIL STOCK REEL STAND

455	Automatic translation of the reel-stand, for reducing the angle of the cable from the reel to capstan

HYDRAULIC GROUP AND DIESEL ENGINE

A.RIG.	Engine with self-automatic regeneration of exhaust system DPF – Stage V

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131.1.2	Main guiding telescopic and swinging mast with nylon rollers for (2) wires. Closed height: 2.480 mm, open height: 5.250 mm (from the base platform). Swinging from the centre of rail +/- 500 mm
131.5	Extension 1.375 mm, for opt 131.1 with guide rollers for 1 wire/cable, height all open 6.625 mm. Swinging from the centre +/- 800 mm
131.5.2	Extension with guide roller for two (2) wire/cable, 1.375 mm for the opt. 131.1.2: total height all open 6.625 mm (mandatory 131.1.2) Swinging from the centre +/- 800 mm, suitable for two groups working
131.7	Telescopic Portal Mast with of two (2) cylinders and two (2) horizontal rollers. Height all closed 2.600 mm, height all open 4.100 mm (from the base of platform)
038.9.A1	Radio remote control for the Telescopic Mast operations with 10 meters back up cable

OTHER OPTIONS

052.2	Light System fit for Night-Work

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.

NOTES

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