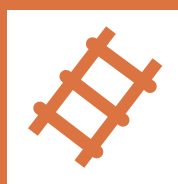


# RAILWAY LINE STRINGING

MACHINES AND EQUIPMENT



THE LINK I LIKE

**OMAC**  
ITALY  
SINCE 1954







# INDEX

|    |   |    |
|----|---|----|
| 01 | OLS - OMAC LINK SYSTEM                                  | 5  |
| 02 | TENSIONING TAIL-STOCK REEL STAND CATENARY WIRING SYSTEM | 9  |
| 03 | RECOVERING TAIL-STOCK REEL STAND CATENARY WIRING SYSTEM | 25 |
| 04 | CAPSTANS CATENARY WIRING SYSTEM                         | 33 |





# OLS - OMAC LINK SYSTEM

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REMOTE  
MONITORING &  
DIAGNOSTICS



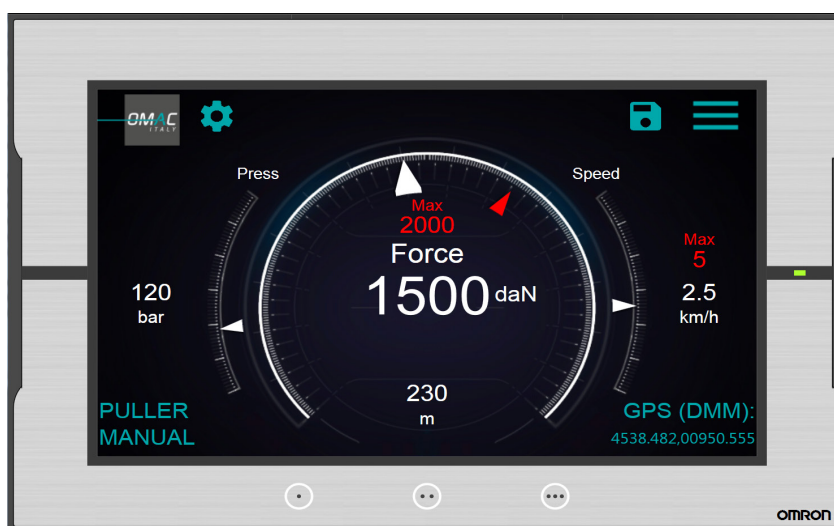
REMOTE  
PARAMETERS  
SETTING



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

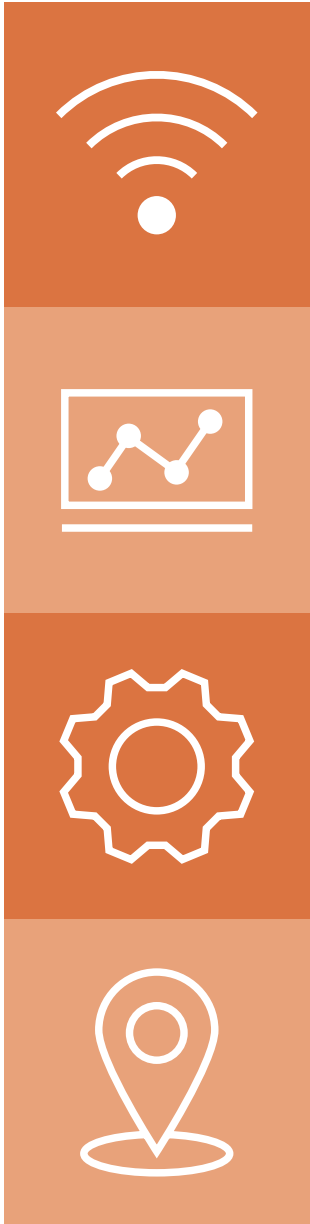
USB PORT FOR DATA DOWNLOADING/UPLOADING

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





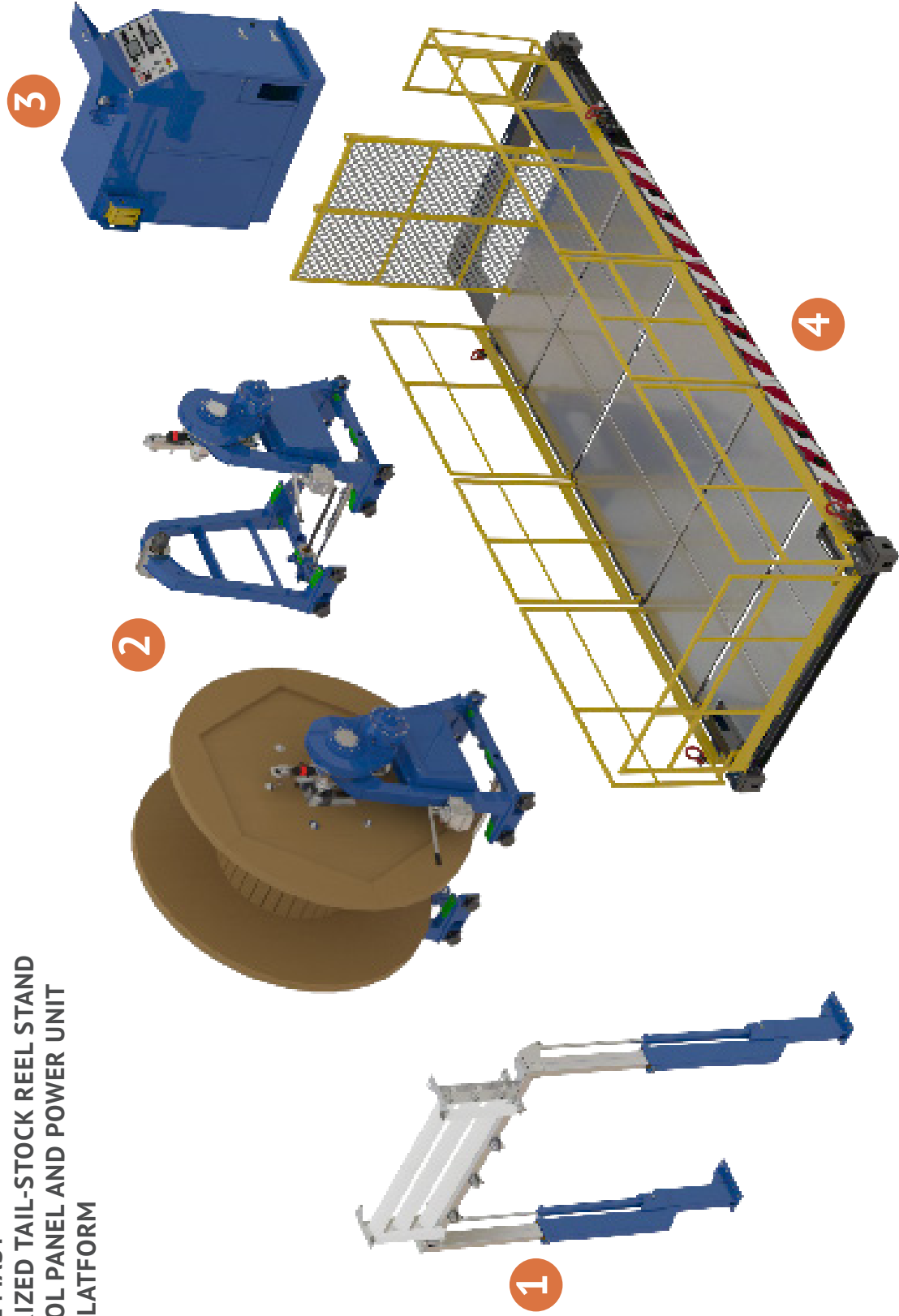
# TENSIONING TAIL-STOCK REEL STAND CATENARY WIRING SYSTEM

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# 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 ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) 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 ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) positions                               |
| 439.2 | Reel stand rotation: hydraulic device activated by manual pump device for rotating the stand ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) 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 ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) positions                        |
| 439.2 | Reel stand rotation: hydraulic device activated by manual pump for rotating the stand ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) 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 ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) positions                        |
| 439.2 | Reel stand rotation: hydraulic device activated by manual pump for rotating the stand ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) 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.

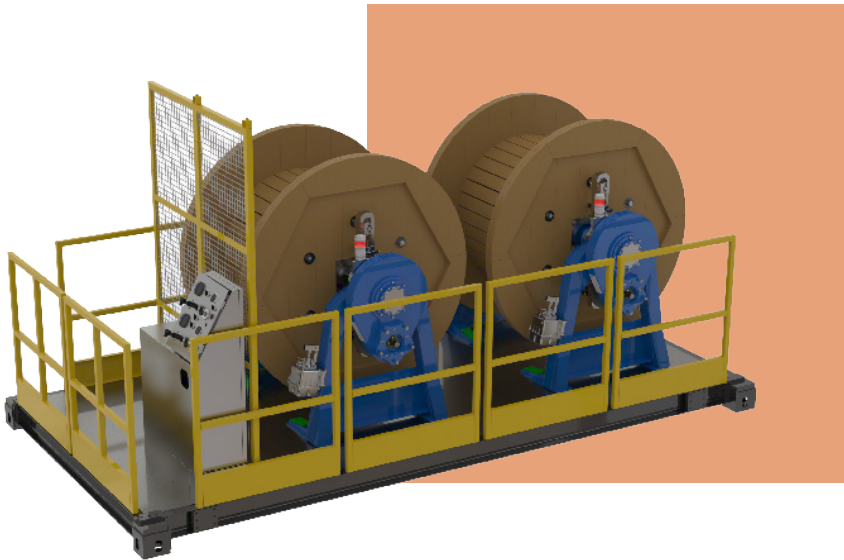




# TRN22.2

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 ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) positions                         |
| 439.2 | Reel stand rotation: hydraulic device activated by manual pump for rotating the stand ( $\pm 45^\circ$ ) with mechanical stops on 3 (each $15^\circ$ ) 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.



# 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.





# 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 scale |

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.<br>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

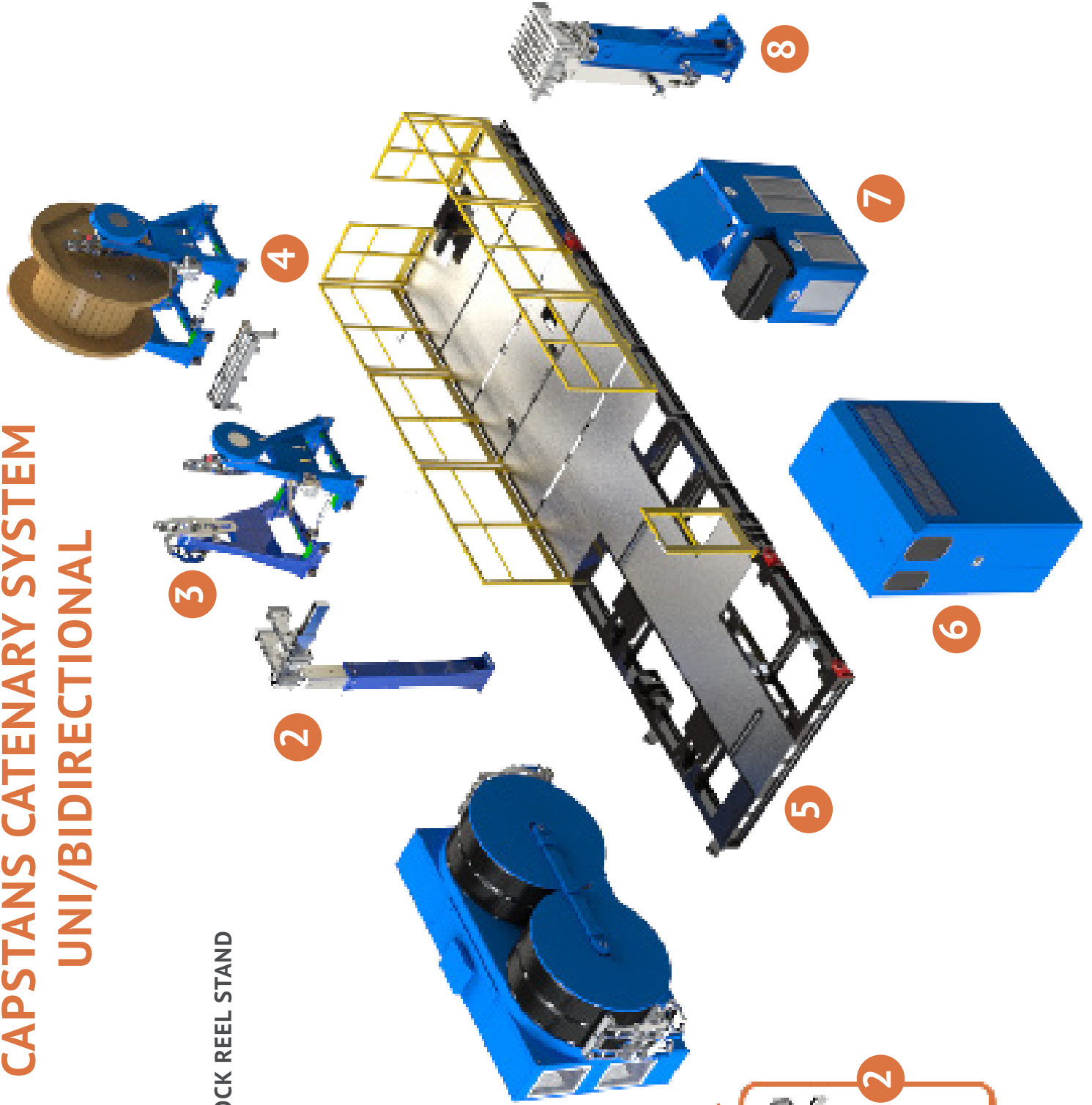
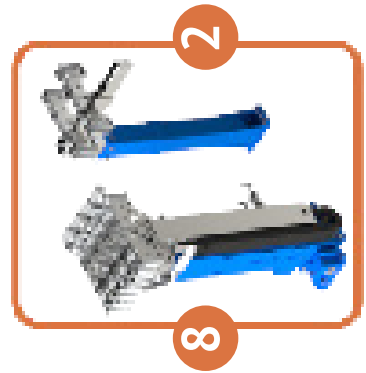
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# CAPSTANS CATENARY SYSTEM UNI/BIDIRECTIONAL

- 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

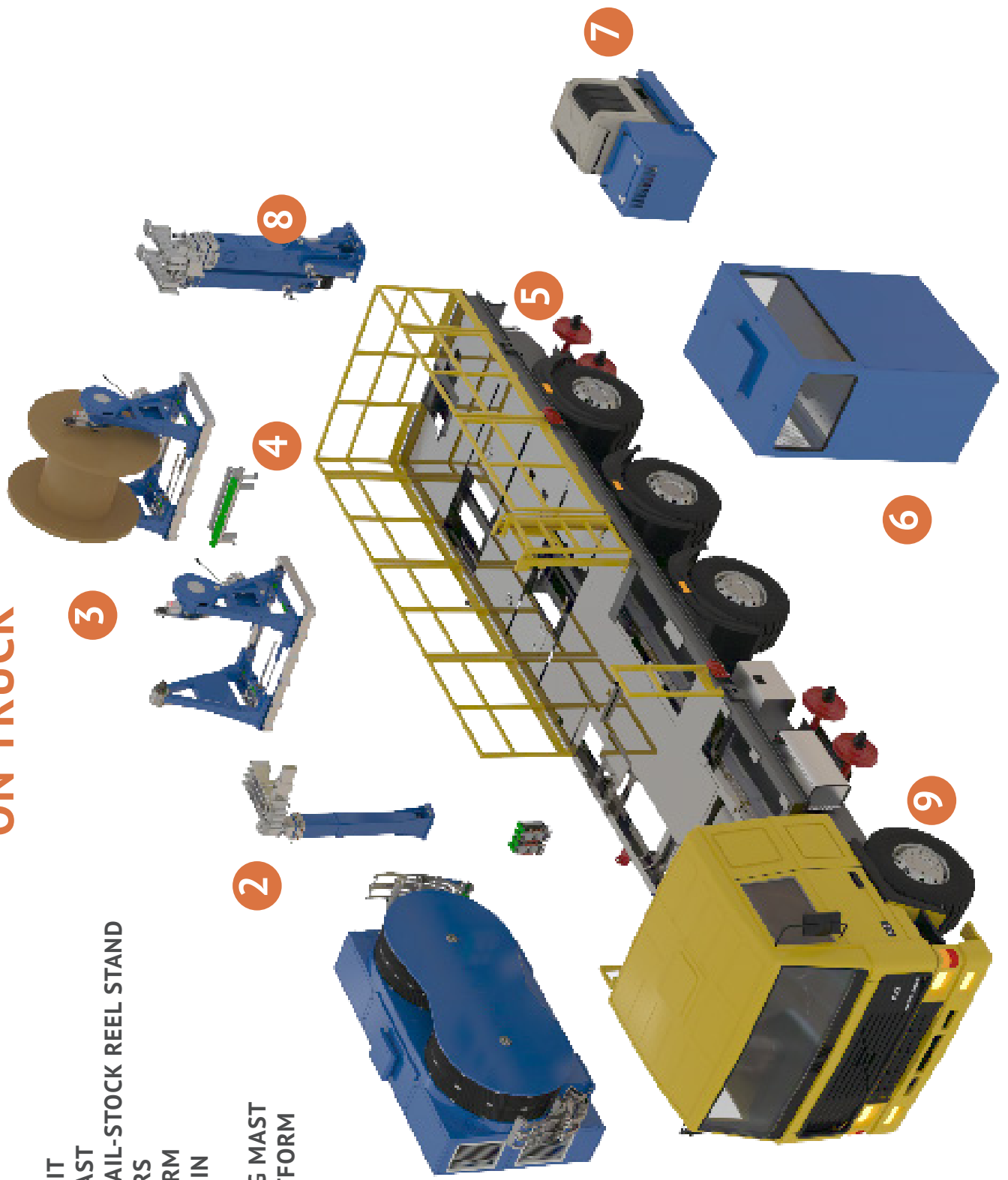
BIDIRECTIONAL





# 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







# 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 $\pm 1\%$ - $\pm 5\%$ on the full-scale value                                      |
| 020.1   | Extra numbers of grooves for the circuit (since 10 grooves)  |
| 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 groove 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 $\pm 1\%$ - $\pm 5\%$ on the full-scale value                                     |
| 020.1   | Extra numbers of grooves for the circuit (since 10 grooves)   |
| 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 $\pm 1\%$ - $\pm 5\%$ 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 $\pm 1\%$ - $\pm 5\%$ 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 $\pm 1\%$ - $\pm 5\%$ 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 $\pm 1\%$ - $\pm 5\%$ 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.<br>(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.<br>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 |
|-------|---------------------------------|

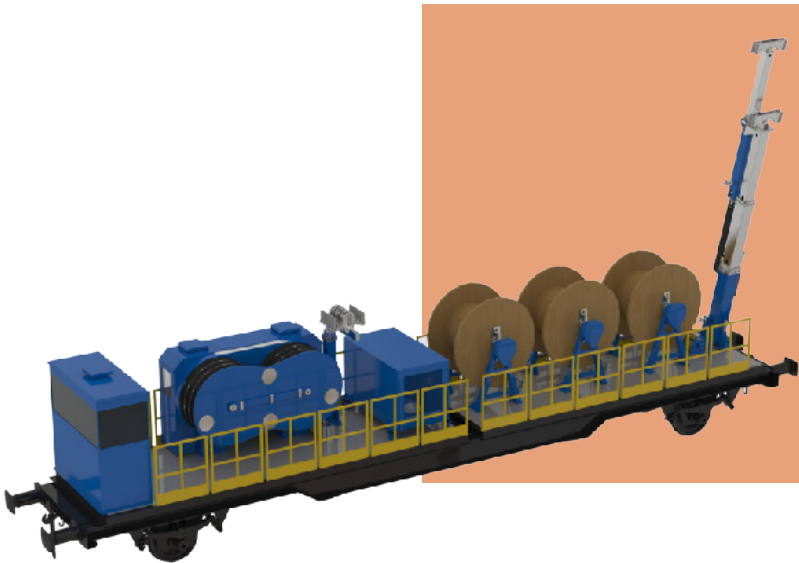
Performances of the machine without optional devices, at sea level and temperature 20°C.  
Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.



# 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 $\pm 1\%$ - $\pm 5\%$ 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.

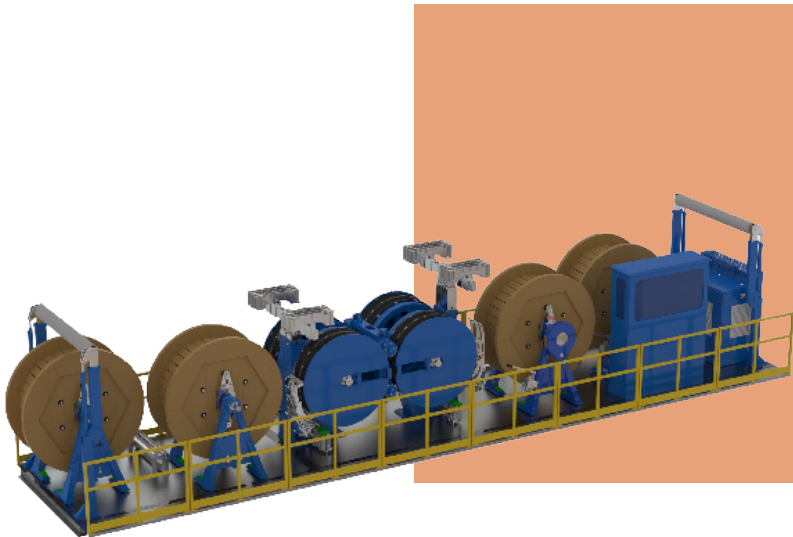




# CT120.4

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 $\pm 1\%$ - $\pm 5\%$ 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 |
|-------|---------------------------------|

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.



# CT60.15.3

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.  
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 $\pm 1\%$ - $\pm 5\%$ 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 |
|--------|---|

CAB AND CONTROL PANEL

|             |  |
|-------------|--|
| 107 + 107.1 | GPS transmission 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            |
| 131.1.2  | 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.





### THE LINK I LIKE



Blank lined area for writing, consisting of 20 horizontal orange lines.





Blank lined area for writing, consisting of 20 horizontal orange lines.





Blank lined area for writing, consisting of 20 horizontal orange lines.



Blank lined area for writing, consisting of 20 horizontal orange lines.



Blank lined area for writing, consisting of 20 horizontal orange lines.



Blank lined area for writing, consisting of 20 horizontal orange lines.







Blank lined area for writing, consisting of 20 horizontal orange lines.



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