

# F110.AF.140.22

max pull-tension 140 kN (2 x 70 kN)



Hydraulic machine designed to operate both as a tensioner and as a puller, fit to string one or two ropes or conductors. Two hydraulic circuits let to tension at constant force even varying the speed of stringing. The two circuits can be used independently or simultaneously, with automatic forces partition. In puller mode, 2 closed hydraulic circuits allow to vary the speed in both directions, allowing to use one of the hydraulic circuits or both of them matched.

FEATURES		ENGINE		PULL PERFORMANCES	
Capstans	4 x Ø 1800 mm	Feeding	diesel	Max pull	1 x 140 kN or 2 x 70 kN
Capstan grooves	12	Power	176 hp / 130 kW 176 hp / 130 kW *	Speed at max pull	1,9 km/h 1,9 km/h *
Max conductor diameter	2 x 46 mm	Cooling	water	Max speed	4,5 km/h 4,5 km/h *
Max rope diameter	28 mm	Electric plant	24 V	Pull at max speed	70 kN
Dimensions LxWxH	4,60x2,50x3,00 m				
Weight	9500 kg				

TENSION PERFORMANCES	
Max tension force	1 x 140 kN or 2 x 70 kN
Max speed	5 km/h

## CONFIGURATION

- Two pairs of steel capstans lined with multi-grooved nylon sectors.
- Machine control panel equipped with 2 built-in electronic instrument DEG 4.0 featuring a 7" large graphic colour display and a USB port.
- **Maintenance-free load cell reading system.**
- **Electronic instrument by-pass.**
- **Self-recovery device for sagging operations.**
- In puller mode, device for pull-force setting, which allows to maintain the pre-set force even at speed "0".
- Freewheeling disconnection (neutral) of capstans.
- Two safety negative hydraulic brakes.
- Back fix conductor-driver with nylon rollers for 2 cond.
- Chassis with rigid axle, manual brake and detachable drawbar for towing at low speed in job-site.
- Hydraulic front plough and back stabilisers.
- Attachments for anchoring and for lifting.
- Oil cooling system.
- Devices for coupling the two pairs of the capstans.
- Two auxiliary hydraulic circuits for additional equipment (1 or 2 reel-winders or reel-stands).
- Grounding connection point.

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

## OPTIONAL DEVICES

- 005.1 Chassis with 2 damped axles (tandem), air braking system and lights.
- 008 Damped axle, air braking system, drawbar and lights.
- 006.4 Arrangement of the chassis for circulation on road (homologation excluded).
- 012 Hydraulic circuit to feed a press for high pressure joints (max. 700 bar).
- 014 Reel-winder arm fit for a 1600-mm-dia. reel (1 or 2).
- 028.7 Device to start the diesel engine and the hydraulic circuit at low temperatures (up to -30°C).
- 037 Remote control by cable, with 10 m of cable.
- 038 Radio-control (max distance 100 m).
- 045.2 Automatic clamp for 2 ropes/conductors.
- 045.3 Manual clamp for 2 ropes/conductors.
- 069.5 Printer for the electronic recorder, with accessories.
- 119 Capstans with steel grooves chemically treated.
- 174.2 Synchronising device for the connection of 2 machines, complete with remote control by cable (20 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.