PANT.195.E

The measuring pantograph is designed to provide the measurement of the interaction forces and vertical accelerations while constantly monitoring height and stagger of the catenary wire. The pantograph can also work in sync with other catenary measurement systems.

PANTOGRAPH DIMENSIONS

LENGTH	410 mm
HEIGHT	320 mm
TOTAL WIDTH	1950 mm
CARBON PADS WIDTH	1020 mm
WEIGHT	20 kg
PITCH OR SPACING OF CARBON PADS	330 mm

CONFIGURATION

- Main structure made of aluminum, complete with sensors and support for attachments of the mast
- Contact wire/cable sliding areas equipped with white or black polyamide pads
- Includes pantograph support with mounting bracket for fastening on the mast crossbar, model F195.15.140.EP, suitable for installing zig-zag wire control sensors
- Electro-hydraulically operated and powered by the customer's vehicle
- Main fixed structure made of 150 mm section tube, height 1800 mm, equipped with a 690x160 mm base plate with holes suitable for fastening to the customer's vehicle platform
- First shaft: 125 mm section, 1400 mm stroke
- Second shaft: 50 mm section, 1025 mm stroke, equipped with a crossbar suitable for pantograph attachment

MAST DIMENSIONS

MAX HEIGHT FROM RAIL LEVEL (FULLY EXTENDED)	5800 mm*
MIN HEIGHT FROM RAIL LEVEL (FULLY RETRACTED)	3375 mm*
FLOOR HEIGHT FROM RAIL	1200 mm
COUNTERWEIGHT CONTACT FORCE ON PANTOGRAPH	da 5 a 20 daN
CYLINDER PUSHING FORCE	100 kg

* (5800 - 1200 = 4600 mm from vehicle floor; reaches 4700 mm)
* (3375 - 1200 = 2175 mm from vehicle floor)

OPTIONAL DEVICES

CARB.P Carbon plate pair designed to enhance linear sliding velocity over the contact wire, allowing operation at speeds greater than 20 km/h

DY.EN Contact wire height display device, equipped with a large-size display for easy reading even from a distance. The system integrates an SIPI SE 308-G series electronic weighing unit and a socket for remote connection of function buttons, which can also be operated via infrared remote control. Supplied complete with wire-actuated linear encoder

SENS.ZIG Device with linear sensors designed to detect the stagger (zig-zag) of the contact wire as it slides over the nylon or carbon (Carbon Plate) collector strips of the pantograph. The system consists of 8 Balluff sensors, pre-wired to a connector that allows the customer to connect a cable for data transmission to a PC or other acquisition and recording systems

DEG.PANT Display unit for visualization, recording, and storage of the measurements acquired by the previously described sensors, with data downloadable to a removable SD card. The device is designed for direct installation into the customer's machine panel or, upon request, can be supplied in a stainless steel enclosure with door, equipped with a socket for connection to a 10-meter cable

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.