



Designed for installation in Mobile Inspection Units

Up to 20 T

Description

The **FRU P Heavy Vehicle Brake Tester** is designed to check the brake condition of vehicles **with a maximum axle load of up to 20 T per axle**.

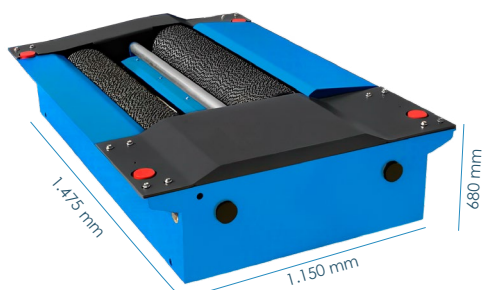
The braking force is obtained from the electrical signal provided by a strain gauge to the data acquisition system **in a 2-bench structure**. The FRU P is designed to be equipped in Universal Mobile Units.

The most significant information obtained is:

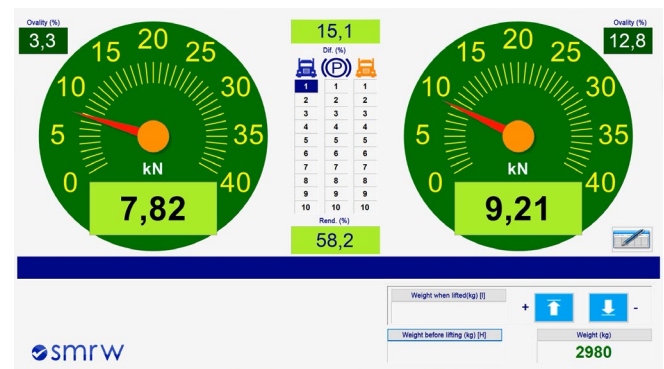
- ✓ Braking force on manual and pedal brakes
- ✓ Rolling resistance
- ✓ Ovality and weight measurement op*
- ✓ Pedal effort op*
- ✓ Braking performance

Technical data and Dimensions

Max load	20 T
Engine power (independent)	2 x 11 kW
Test speed	2,70 km/h
Max/min track width (2 possible arrangements)	2.994 / 700 mm 3.294 / 1.000 mm
Voltage	400 V - 50 Hz
Protection fuse	3 x 63 A
Thermal protector	2 x 18 - 25 A
Roller Diameter / Length	282 / 1.135 (usable 1.135) mm
Distance between center	485 mm
Rear roller lift	50 mm
Dimensions and weight (per frame)	1.875 x 1.150 x 680 mm 925 kg
Adhesion coefficient	0,9 dry 0,7 wet
Measurement scale	0 - 8 kN / 0 - 40 kN
Step / measurement error	0,01 kN / 1%
Consumption	22 / 25 kW



Software



Optional Equipment

- ✓ Brake Tester
- ✓ Electronic control console + wireless controller
- ✓ Analog display console
- ✓ Electronic control and SMRW software
- ✓ Motor soft starter
- ✓ Self-locking rollers for easy exit

Optional Equipment

Ref.	Optional Equipment
ALU-02-00000	Side Slip Tester Integration kit
COM-04-12003	Voltage stabilizer
FRS-BAS	Axle weighing scale (8 load cells)
GEN-230	230 V Power supply Three-phase
GEN-60	60 Hz Power supply
ACU-05-99201	Hydraulic Group Cabinet
ACU-05-00001	Standard lifting system
ACU-11-RY450	Tensile load simulation
ACU-05-00001	Foot pedal dynamometer + receiver
ACL-03-00000	4x4 freewheels
COM-05-01001	Wireless pressure transducer 1 - 4 pcs.
COM-05-01002	USB receiver compatible with 15 devices
ACU-10-00000	Sensor base/charger with alert
ACU-12-00000	Roller covers
CAL-04-00000	Calibration weight 10 kg
CAL-01-00000	Calibration weight 30 kg
CAL-03-00000	Heavy vehicles calibration lever