



Up to 3,5 T

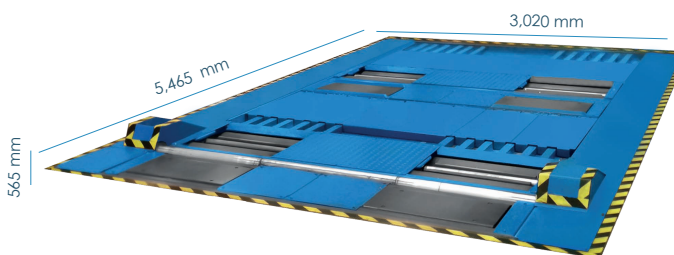


Description

The **Inspection Lane TANDEM**, is composed of a side slip tester (integrated in a separated frame) and two pairs of benches for the suspension and brake test, one fixed and the other mobile, which is adjusted to the vehicle before starting the test. **The positioning is very precise due to a transducer that constantly sends the position of the mobile bench to the machine's electronic control and management system.**



With this revolutionary inspection lane and with proper vehicle flow management, it is possible to reduce the time of the test by more than 50%, and consequently increase the productivity of the inspection lane by more than 100%.



Optional Equipment

Optional equipment



Voltage stabilizer

Delayed static retarder

Delayed static retarder 230 V

230 V Threephasic Power supply

60 Hz Power supply



Pedal dynamometer + receptor



Hand dynamometer + receptor



4x4 free rollers



Software and kit to perform the test on motor-bikes



Rollers cover platform



Calibration weight 10 kg

Calibration weight 30 kg



Calibration lever for light vehicles

End-of-lane console (consult)

Standard Equipment

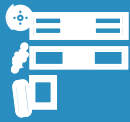
- ✓ 2 sets of suspension benches
- ✓ 2 sets of brake tester benches
- ✓ Self-locking rollers for easy exit
- ✓ Electronico control and SMRW software
- * Standard side slip tester on a separated frame

Technical Data and Dimensions

Max laod per axle	3.5 T
Track width min / max	880 - 2,175 mm
Voltage	400 V - 50 Hz
Protection fuse	3 x 50 A
Thermal protector	4 x 9 - 12.5 A
Wheelbase min / max	2,300 - 3,300 mm
Dimensions and weight	3,100 x 5,530 x 565 mm 4 T
Consumption	18.4 kW
Suspensions bench	
Engine power	2 engines of 3 kW on each frame
Excitation frequency	16 Hz
Three valuation levels	A. Amplitude B. Efficiency C. Graphic
Brake tester	
Rollers diameter	Front: 155 mm Rear: 208 mm
Rollers length / usable	684 (647) mm
Distance between ceneters	400 mm
Test speed	3.5 km/h
Engines	4.8 kW
Friction coefficient	0.9 dry - 0.7 wet
Measurement range	0 - 6 kN
Range of measurement	0.01 kN
Measurement error	1 %
Side slip tester (integrated in a separated frame)	
Step speed	5 - 10 km/h
Measurement range	0.1 mm/m - 0.1 m/km
Range of measurement	-20 to +20 mm/m

Three valuation levels

a) m/km
b) Degrees and minutes
c) Graphic/bar



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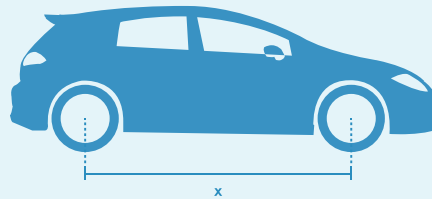
Automatic adaptation to the vehicle wheelbase

The **Inspection Lane TANDEM**, automatically adjusts the distance between benches (fixed and mobile) according to the **vehicle information entered by the inspector**. These distances are specific for each model, and a transducer continuously monitors the position between benches, sending data from the electronic part to the machinery.

Initial lane position

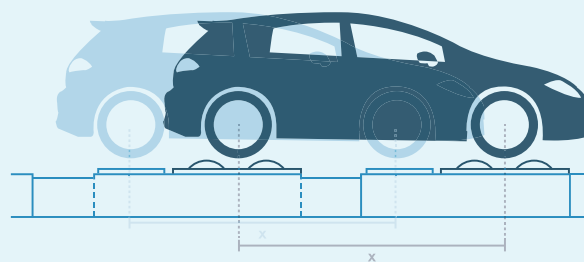


Receives the information of the vehicle wheelbase



x = vehicle wheelbase

Final lane position adjusted to the vehicle wheelbase

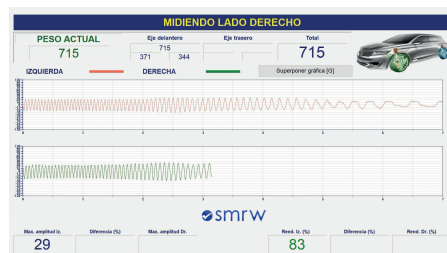


■ = suspension bench position
■ = brake tester position

After the test of the **side slip tester (1)**, the vehicle enters the TANDEM lane for the test on the double **suspension bench (2)**, where the suspension efficiency is measured and both axles are weighed. Finally, the **brake tester test (3)** is performed, recording the ovality and braking values, with a retaining roller that secures the rear tires more safely and safely.



SIDE SLIP TESTER SOFTWARE



SUSPENSION BENCH SOFTWARE



BRAKE TESTER SOFTWARE