

TEST LANE



THE COMMUNICATING TEST LANE BILANMATIC XG PL



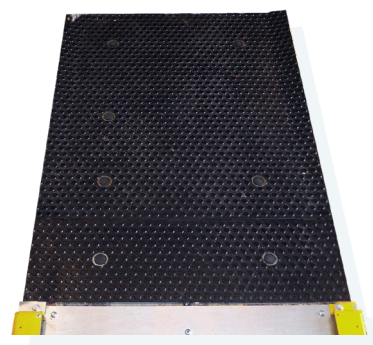


BILANMATIC XG HEAVY VEHICLES INSPECTION LANE

SIDE SLIP TESTER

Range AM10000RMX (44101-L for Vietnam)

The side slip bench is connected to the inspection lane measures front and rear wheel side slip and quickly diagnoses vehicle geometry. It allows precise and repeated measurements, thanks to its length and release plate. The optical detection located in front of the release plate is more reliable and does not have any mechanical contact.



CHARACTERISTICS	
Plate dimensions	750 x 1100 x 36 mm
Travel	+ / - 17 mm
Measurement range	+ / - 20 m/km
Axle load capacity	20 t
Plate coating	Rubber pad mats



HEAVY VEHICLES BRAKE TESTER

Range AM56400 (56400 for Vietnam) / AM44803 / AM44700 (44700 for Vietnam) / AM44750 LARGE

CHARACTERISTICS	AM56400	AM44803	AM44700	AM44750
Max. axle load	13 t	15 t	20 t	20 t
Roller diameter	209 mm	250 mm	250 mm	250 mm
Mini / maxi track	800 / 2800 mm	800 / 2800 mm	800 / 2800 mm	600 / 3100 mm
Test speed (mono speed)	2.2 km/h	2.2 km/h	2.2 km/h	2.2 km/h
Test speed (dual speed)	2.2 km/h	4.4 km/h	4.4 km/h	4.4 km/h
Brake motors (mono speed)	2 x 9 kW	2 x 11 kW	2 x 11 kW	2 x 11 kW
Brake motors (dual speed)	2 x 9 kW	2 x 15 kW	2 x 15 kW	2 x 15 kW
Max. braking force	2 x 3000 daN	2 x 4000 daN	2 x 4000 daN	2 x 4000 daN
Dry adherence coefficient	> 0.7	> 0.7	> 0.7	> 0.7
Wet adherence coefficient	> 0.6	> 0.6	> 0.6	> 0.6
Elevated rear rollers	30 mm	0 mm	35 mm	35 mm
Free passage between chassis frames	460 mm	500 mm	580 mm	380 mm
Dual speed management	no	Optional	Optional	Optional

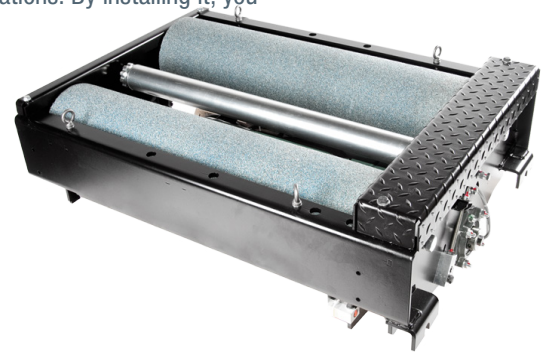
NOVA BENCH

Range AM50500



Nova Bench is a Universal Heavy Vehicles brake bench comprising a new universal flushmounting braking chassis. It can replace your current brake tester without requiring any structural alterations. By installing it, you will have access to the MULLER AUTOMOTIVE® technology.

- **Financial savings:** Low pit adaptation costs;
- **Time savings:** No prolonged down time, rapid assembly: 16 h;
- **Continued operation:** No operating loss



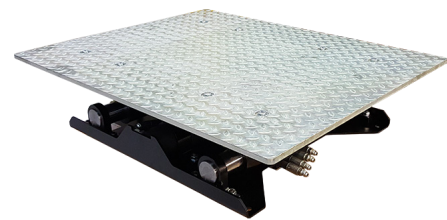
AXLE PLAY DETECTOR

Range AM56000 (44600 for Vietnam)

In accordance with European Directive 2014/45/EC, MULLER AUTOMOTIVE® Axle play detector plates allow an operator to carry out a visual inspection of the axle component clearances on a vehicle (stub axles, pivots, suspension mountings, joints, bearings, drive axle, etc.).

The axle play detector plates are remotely controlled (wired connection) using a control lamp equipped with switches. The switches control the movement of the plates transversally, longitudinally and as a combination of movements.

CHARACTERISTICS	
Dimensions	865 x 665 mm
Distance between plates	1770 mm
Min./Max. plate track	900 mm / 2630 mm
Min./Max. counter-plate track	1130 mm / 2390 mm
Travel plate weight	190 kg
Rated load per axle	15 t
Max. load per axle	20 t
Unladen thrust force	3000 daN
Fully laden thrust force	2700 daN



LOAD SIMULATOR

Range AM54700

According to the ISO 21069-1:2004 standard, heavy vehicles brake system tester should be performed when the vehicle is laden. Rather than loading the vehicle with proof masses, there is a simpler and quicker method using a load simulator.

The MULLER AUTOMOTIVE® load simulator involves a hydraulic lifting system, the axle on the bench takes the weight of the other tandem or tridem axles.

This device includes a function that re-synchronises the cylinders once they have completed their stroke (either up or down).

CHARACTERISTICS

Lifting capacity per axle	12 t
Capacity in low position	20 t
Lift travel	250 mm
Ascent / descent time	18 sec.
Operating pressure	130 bars
Max. pressure	150 bars
Hydraulic cylinders	8 double acting cylinders
Min./Max. track	800 mm – 2 800 mm
Traction simulator	AM53400



PRESSURE SENSOR

Range AM10000-RAD3

In addition to measuring brake efficiency, some countries also use pressure sensors to measure the pressure in the vehicle's braking system.

The MULLER AUTOMOTIVE® system consists of:

- A radio communication base
- Pneumatic sensors
- A charger



SPEEDOMETER

Range AM45300-1MUX

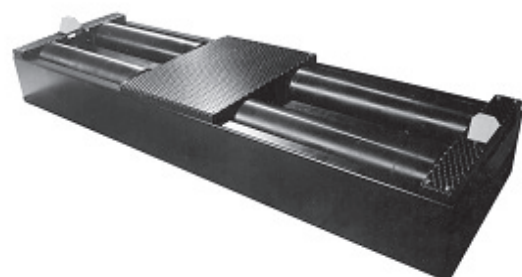
This speedometer can measure the vehicle's speed and check the distance covered (taximeter). It can be set for two uses:

- Speedometer: measures the speed displayed on the vehicle's meter.
- Taximeter: checks the distance covered relative to the rate.

This bench is fitted with an axle lifting system to facilitate vehicle exit.

CHARACTERISTICS

Pit dimensions (L x W x H)	980 x 3 100 x 360 mm
Maximum axle load capacity	15 t
Minimum track	720 mm
Maximum track	2 800 mm
Distance between rollers	500 mm
Roller diameter	244 mm
Rim diameter	13 – 24 inches
Roller blocking max bench speed	12 brake pads
Speed (non-motorised version)	90 km/h
Max. tester speed	160 km/h



SAFETY PROTECTIVE EQUIPMENT



PROTECTIVE EQUIPMENT

MULLER AUTOMOTIVE® offers several solutions to ensure the safety of your employees and inspection equipment. These are adaptable and conform to international standards. They are intended to secure the brake tester working environment.

We distinguish two primary hazard zones, in agreement with international standards:

- The upper danger zone, where the bench and vehicle passage zone are
- The lower danger zone, corresponding to the inspection pit.



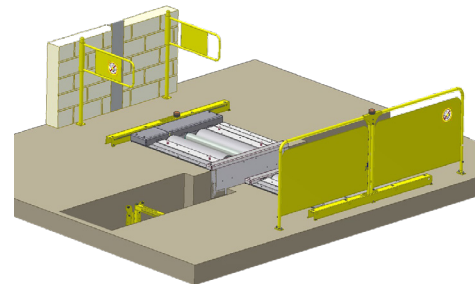
HIGH POSITION SAFETY EQUIPMENT

Range AM123122

This system includes barriers, fitted with a transmitter and receiver, placed on each side of the tester immediately behind the chain covers. These have been modified to allow the cable beams to pass. If an optical beam is broken, the motors are stopped in less than 1 second.

The installation is completed by an orange flashing light placed on the guard rails on either side of the tester.

If guard rails cannot be fitted, the flashing light is fitted onto the upper safety bars on either side of the tester.



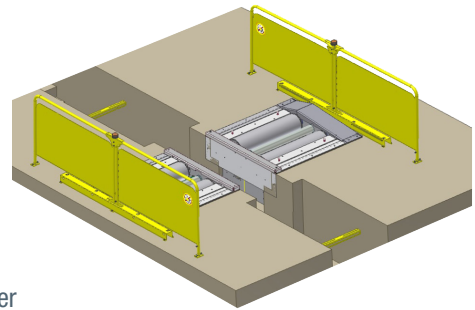
LATERAL ACCESS PROTECTION EQUIPMENT

Range AM123059 (Fixed guard rails)

The guard rails protect tester side access points and prevent access to the wheels, when these latter are rotating.

Range AM122588 (Swing gates)

The swing gates warn of the danger that exists when approaching the brake tester from the side. Used for narrow layouts



PIT PROTECTION EQUIPMENT

Range AM123115 (Secured pit gates)

The optical safety gates prevent access near the tester in the pit during the entire test duration. As soon as a beam is broken, the function stops motor rotation.

