

x-road medium truck

The multifunctional roll, brake, ABS test stand

The rapid development of new systems to optimize the driving and braking behavior of modern vehicles places ever increasing demands on their testing to ensure the function and quality of ABS, ESP, ASR and other driver assistance systems.

A task of the test system is to be prepared for the increasingly complex test conditions of vehicles today and in the future.

The solution from Dürr Assembly Products is the **x-road medium truck**. The x-road medium truck combines the increasing demands on the test environment and its high-precision measurement technology with a reduction in system complexity. The test stand thus offers maximum reliability with simple operation and maintenance for testing light to medium-weight vehicles up to 4t axle load.

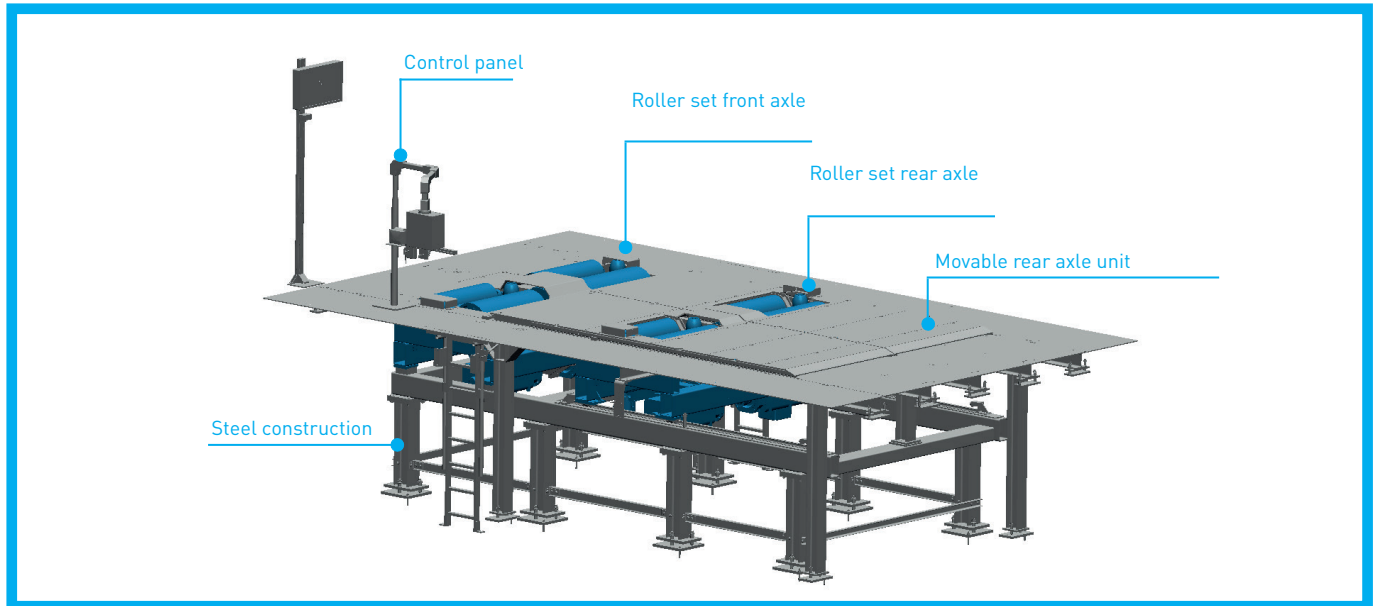
TASKS



- [General function test of the vehicle](#)
- [Gearbox function tests \(automatic and manual\)](#)
- [Tests on the braking system of the vehicle](#)
- [Acceleration and deceleration tests](#)
- [Testing of sensors \(ABS, ESP, ASR\)](#)
- [Differential test](#)
- [Retarder test](#)

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Layout x-road medium truck



Left: free roller

Right: driven roller

ENVIRONMENT



In particular, the functionality of the energy recovery system, which is integrated in every x-road medium truck, ensures that excess energy is fed back into the supplying grid.

This saves energy costs and ultimately has a positive effect on the CO2 balance.

TECHNICAL DATA

Typical max. test speed	100 / 120 km/h
Typical motor traction force for each roller set (37 kW motor / 37 kW converter) (in relation to the roller circumference, $v = \text{constant}$)	$F_{\text{nenn}} = 2400\text{N}$ $F_{\text{max}} = 4700\text{N}$
Accuracy of the speed detection (in relation to the roller circumference)	Typical $< + 1\text{ km / h}$
Max. difference speed, FA roller to RA roller - $v = \text{constant}$	$< 0.1\text{ km / h}$