



NEXT.assembly

x-DASalign

Test stand for driver assistance systems

Precisely adjusted driver assistance sensor technology in the vehicle provides more safety in road traffic. The number and the complexity of the systems in the vehicle increase and require efficient calibration and setting processes which have to be carried out under consideration of dynamic chassis parameters. The multitude of sensors built into first-class vehicles requires separate setting stations for the optimized and quick testing and calibrating process.

The manufacturers of components and vehicles develop and use a multitude of sensors and calibration concepts which differ in function and use and which can be flexibly calibrated and tested by this type of test stand. By means of stereometry measuring heads chassis height, symmetry of chassis as well as chassis parameters are measured and taken into consideration during the calibrating process of the sensors.

CUSTOMER BENEFITS



[Highest process and production reliability](#)

[Simple, easy-to-maintain structure](#)

[Low space requirement](#)

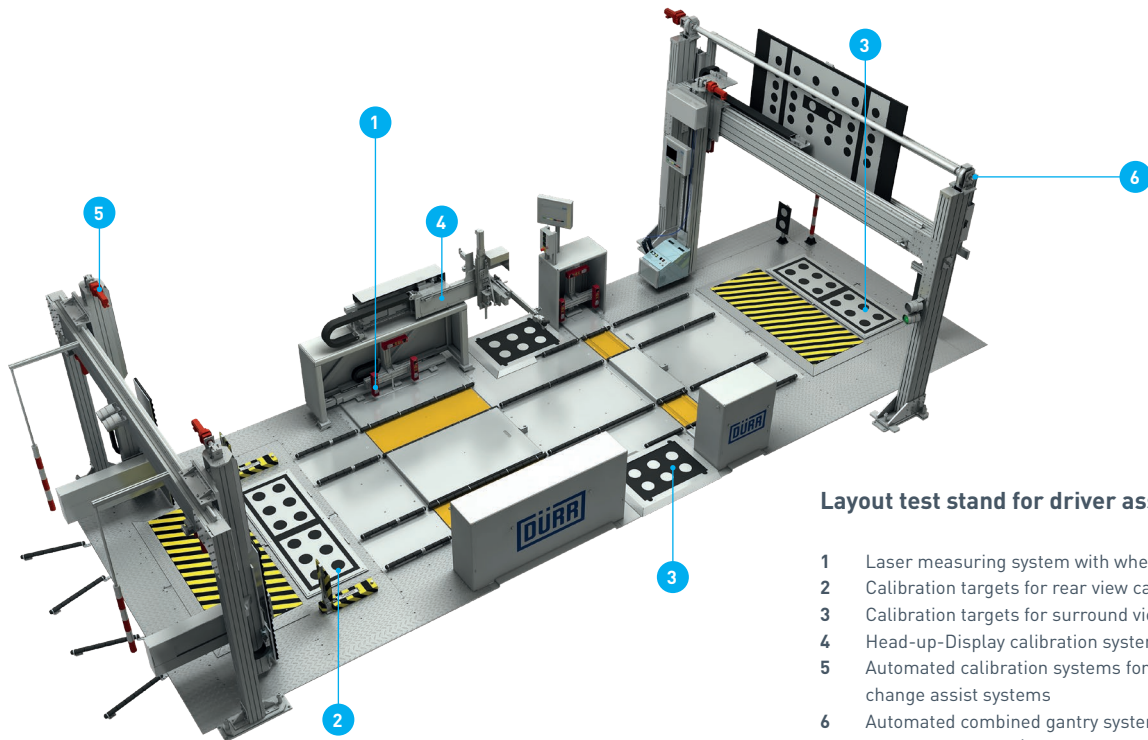
[Minimum risk of damage for vehicle and test stand](#)

[Flexible visual presentation of calibration patterns or video sequences possible through the use of displays](#)

[Flexibility by modular structure](#)

Technical data

x-DASalign



Layout test stand for driver assistance systems

- 1 Laser measuring system with wheel base alignment
- 2 Calibration targets for rear view camery systems
- 3 Calibration targets for surround view systems
- 4 Head-up-Display calibration system
- 5 Automated calibration systems for lane change sensors/lane change assist systems
- 6 Automated combined gantry system with the following calibration targets/calibration systems:
 - Headlamp setting
 - Light intensity measurement
 - MFC calibration (multi function camera; optionally with new calibration displays)
 - ACC calibration (adaptive cruise control)
 - Optional: 2nd column for further calibration equipment

TEST STAND CALIBRATION

The different target and calibrating systems of the driver assistance test stand can be checked fast and efficiently by means of setting gauges especially produced for the test stand. In completely automated stands, the calibration procedures of the vehicle assistance systems can be carried out automatically, independently from the operator, fast and efficiently by the test stand itself.

After putting in the setting gauge the individual targets will be adjusted and controlled by means of point laser and laser distance measurement devices.

AUTOMATION

For the flexible control of the individual test stand components and the tasks Dürr supplies its own automation software x-line as well as products for the ECU communication.

The use of the new calibration displays enables an even more flexible design of the complete test area as well as an adaptation to a wide range of vehicle types. It is possible to depict a wide variety of calibration patterns on the displays. The number of patterns to be displayed can vary as desired. It is also possible to adjust the pattern ideally to different vehicle types by using different scaling factors, without having to perform mechanical movements.

If requested, video sequences can also be illustrated on the displays to stimulate the vehicle camera systems.