

x-DASalign

TEST STAND FOR DRIVER ASSISTANCE SYSTEMS



Tasks

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 today's 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. Calibration concepts necessary for the adjustment can be integrated flexibly in this type of test stand.

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By means of laser triangulation or stereophotogrammetry 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. 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.

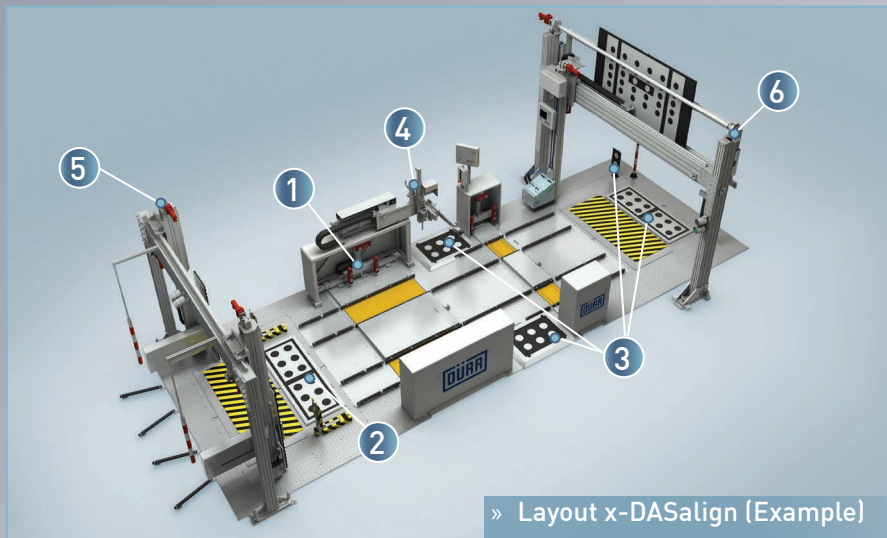
Test stand calibration

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 independently from the operator, fast and efficiently by the test stand itself.

A setting gauge which is equipped with point lasers and laser distance measurement devices is used to control and adjust the individual targets.

Test stand for driver assistance systems



» Layout x-DASalign (Example)

Layout x-DASalign	
1. Laser measuring system with wheel base alignment	5. Automated calibration systems for lane change sensors/lane change assist systems
2. Calibration targets for rear view camera systems	6. Automated combined gantry system with the following calibration targets/calibration systems: » Headlamp aiming » Light intensity measurement » MFC calibration (multi-function camera) » ACC calibration (adaptive cruise control) » Optional: » 2 nd column
3. Calibration targets for surround view systems	
4. Head-up Display calibration system	

* The photos or figures of the assembly and testing systems in the flyer are not showing the complete installation. The requirements of the machinery directive (2006/42/EG) will only be met by other supplementary scope of supply or - on delivery of uncompleted machines - those requirements must be fulfilled by the manufacturer of the (complete) machine. Flyer x-DASalign, version G.

