Tasks

» Measurement and evaluation of the maximum vehicle brake force at low speed are done on the brake test stand x-brake.

» The brake test stand is suitable to test front, rear and 4-wheel drive vehicles.

» Function test of parking brake
» Brake test (max. brake force)
» Brake force balance lh/rh
» ABS test at low speed
Vehicle tests:

» ABS sensor - commutation test (with ECU communication)*
» ABS valve - commutation test (with ECU communication)*
» ABS sensor - quality test (with ECU communication)*
» “Static” brake test v-constant, driven by test stand
» Slip rate detection and control

The main modules of x-brake are:

» Double roller set with lifting bar at front and rear axle to support the vehicle wheels
» 4 off geared motors with brake to drive the double roller sets, speed 2.5 km/h. Option: frequency-controlled in the speed range of 0 - 10 km/h.
» Load cells at each roller set for brake force measurement
» Contact rollers for vehicle and slip rate detection
» Motor-driven wheelbase adjustment
» Option: Transducer for hand brake and pedal brake force
» Automation system x-line to control, visualize and store measurement, setting and nominal values in a database as well as to connect with high-level hall networks

Technical Data x-brake

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Brake test</td>
<td>2.5 km/h</td>
</tr>
<tr>
<td>Test speed sensor test (option):</td>
<td>0 - 10 km/h</td>
</tr>
<tr>
<td>Maximum test force</td>
<td>5000 N at 2.5 km/h</td>
</tr>
<tr>
<td>Max. force tolerance, static:</td>
<td>+/- 2% of final value</td>
</tr>
<tr>
<td>Measuring accuracy of speed detection:</td>
<td>+/- 3%</td>
</tr>
<tr>
<td>Coloring:</td>
<td>according to Dürr Standard</td>
</tr>
<tr>
<td>Mechanical and electrical version (components):</td>
<td>according to Dürr Standard</td>
</tr>
<tr>
<td>Max. axle load</td>
<td>2000 kg</td>
</tr>
</tbody>
</table>

*Lay out x-brake*

» Drive
» Double roller set
» Lifting bars

* The photos resp. images of the assembly and test systems in our flyer do not show the complete system. The requirements of the machine regulations (2006/42/EG) are only fulfilled through additional scopes of supply resp. have to be fulfilled by the manufacturer of (complete) machines on delivery of uncomplete machines.
Flyer x-brake, version B

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