



## Bumper test system | MidiAdvanced with conveyor belt

### Product description

The test device is used for End-of-Line testing of completely assembled motor vehicle bumpers and is intended as the last portal before just-in-time dispatch to the end customer. In this case, the operator only has to load and unload the bumpers manually.

After the transfer of the construction order by the customer's production flow system, the test works fully automatic. After the insertion, the bumper is located directly at the test position and only needs to be connected to the contacting unit. The subsequent electronic test examines the installed sensors and electronic components for presence and their function according to the manufacturer's specifications. The test results are then reported back to the customer's production flow system and documented. After the successful test, the bumper coupling point of the wire harness is automatically unlocked and ejected so that the bumper can be automatically transported away on its workpiece carrier via the conveyor belt.

### Field of application

Quality control and End-of-Line test in the production/manufacturing area.



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### Technical data

Test bench/device	
<ul style="list-style-type: none"> <li>• Test line                             <ul style="list-style-type: none"> <li>- Transport system with quick-change workpiece carriers</li> <li>- Automatic decontacting via pneumatic control</li> <li>- Shield for radar sensors</li> </ul> </li> <li>• Measuring and testing technology in MidiAdvanced test rack</li> </ul>	
Software	
<ul style="list-style-type: none"> <li>• TST-WIN test system                             <ul style="list-style-type: none"> <li>- All settings and processes are menu-driven and freely programmable</li> <li>- Extensive possibilities for controlling the sequence and the measurements</li> <li>- Visualization of test results by means of a table of measured values and additional graphic display</li> </ul> </li> <li>• Module „Remote maintenance“ enables remote access by ITronic service personnel</li> <li>• Module „MES“ enables variant-dependent testing by a higher-level system</li> <li>• Module „ITDB“, incl. ViTronic, enables evaluation and statistical processing of measurement data</li> <li>• Siemens Soft-PLC for system control</li> </ul>	
Scope of testing	
<ul style="list-style-type: none"> <li>• Electronic testing (according to manufacturer's specifications):                             <ul style="list-style-type: none"> <li>- Ultrasonic parking aid sensors including distance measurement</li> <li>- Short-range radar sensor incl. Shield</li> </ul> </li> <li>• - P-SAT pedestrian protection sensor</li> <li>• - Lights</li> </ul>	
Input-/visualisation units	Dimensions/Transport
<ul style="list-style-type: none"> <li>• Keyboard</li> <li>• Monitor</li> <li>• Barcodescanner (manually)</li> <li>• Control box</li> <li>• Card reader for worker identification</li> </ul>	<ul style="list-style-type: none"> <li>• 3500x3000x7000 mm (WxHxD) Weight approx. 1100 kg</li> </ul>
Test time	Exemplarly device type
<ul style="list-style-type: none"> <li>• Approx. 50 s</li> </ul>	<ul style="list-style-type: none"> <li>• 105 3123</li> </ul>