



Bumper test technology | MidiAdvanced with test line

Product description

The test line 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 takes over the manual loading and unloading of the bumpers. The test is done fully automatic.

After the transfer of the construction order by the customer's production flow system, the inspection is fully automated. The bumpers are driven through the test line via a conveyor belt, and a camera inspection is carried out to check the presence and variants. The subsequent electronic inspection examines the installed sensors and electronic components for presence and their function. The resulting test results are then reported back to the customer's production flow system and documented.

Field of application

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



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Technical data

Test bench/device	
<ul style="list-style-type: none"> • Transport system with quick-change workpiece carriers • Automatic de-/contacting via pneumatic control • Loading position, 3 buffer positions, optical inspection, electrical inspection, removal position • Measuring and testing technology in separate 19" rack • Protective housing also serves to seal off extraneous light 	
Software	
<ul style="list-style-type: none"> • TST-WIN test systems <ul style="list-style-type: none"> - All settings and processes are menu-driven and freely programmable - Extensive possibilities for controlling the sequence and the measurements - Visualization of test results by means of a table of measured values and additional graphic display • Module „Remote maintenance“ enables remote access by ITronic service personnel • Module „MES“ enables variant-dependent testing by a higher-level system. • Module „ITDB“, incl. ViTronic, enables evaluation and statistical processing of measurement data • Module „Image processing and image documentation“ enables the use of cameras • Siemens Soft-PLC for system control 	
Scope of testing	
<ul style="list-style-type: none"> • Optical shoring inspection <ul style="list-style-type: none"> - Trim strips - Luminaires - Cover caps - Impact absorber - Type control • Electrical testing (according to manufacturer's specification) <ul style="list-style-type: none"> - Ultrasonic parking aid sensors including distance measurement - Close-range radar sensor - G-SAT Pedestrian protection sensor 	
Input-/visualisation units	Dimensions/Transport
<ul style="list-style-type: none"> • Keyboard • Monitor 	<ul style="list-style-type: none"> • 12000x3500x3000 mm (WxHxD)
Test time	Exemplary device type
<ul style="list-style-type: none"> • Individual, depending on test scope 	<ul style="list-style-type: none"> • 105 2374