



ZED system

ZEDsystem is an individually configurable sliding carriage system for leak testing. It enables the integration of additional processes, fast tool conversion as well as manual or robot loading. The system can be incorporated into fully automatic production lines or be used manually. Any customer requirements can be accommodated thanks to the three different models available.

Available modules for leak testing with air as test medium:

RD	Gauge pressure (optional: 2-channel)
RD / GP	Gauge pressure with bell testing
RD / DF	Gauge pressure with flow
DD	Differential pressure
SD	Stagnation pressure
MF	Mass flow

(Pressure ranges: see technical data basic modules / measuring circuits of ZELTWANGER leak testing)

Application examples:

- **Automotive:** aluminum cast housing, cylinder block, cylinder head, transmission, heat exchangers, control electronics, batteries, wiring, valves, fuel cells, pumps, ...
- **Medical devices:** catheters, dialysis filters/boxes, irrigation/tube systems, septic fluid jars, external lungs, ...
- **Packaging/cosmetics:** dosing pumps, plastic bottles, cartridges, ...
- **Household appliances:** water switches/pumps, gas valves/fittings, electronic components, ...
- **General industry:** cylinders, safety/check valves, couplings, grippers, ball valves, seals, ...

Processes:

- Component marking by means of laser (DMC code), scribe embossing, center mark or color dot
- Joining
- press-in of balls/expanders
- Screws
- Electrical testing
- Presence control
- Barcode/DMC scanning

ZEDsystem: Overview of models



Model 1000



Model 2000



Model 3000

Product features:

Control unit	Siemens PLC
Control elements	Multitouch mobile panel and control panel
Communication	Connection to customer's ERP system via OPC-UA, TCP-IP, . . . or USB and network interface, e.g., to export data to CSV, XML
Safety	Side enclosure, swivel doors with switches on the back, access through the front Safety light curtain Safety connection to automatic loading and unloading
Pneumatics / electrical	Integrated in system
Status display	System status via signal lamp, component testing OK/nOK via LED concept
Interchangeable tools	Coded quick change system

Model	1000	2000	3000
Part size approx. (LxWxH)	350 x 350 x 250 mm	600 x 500 x 300 mm	600 x 500 x 300 mm
Max. weight	25 kg	50 kg	50 kg
Max. adaptive forces	<30 kN / <5 kN (vert./horiz.)	<100 kN / <15 kN (vert./horiz.)	<100 kN / <15 kN (vert./horiz.)
Cycle time	approx. 8 sec (plus testing time)	approx. 10 sec (plus testing time)	approx. 12 sec (plus testing time)
Dimensions of system (LxWxH)	1.100 x 1.100 x 2.200 mm	1.540 x 1.540 x 2.200 mm	3.740 x 2.640 x 2.200 mm
Number of leak test modules	up to 3 (max. 6 channels)	up to 4 (max. 8 channels)	up to 4 (max. 8 channels)
Power supply	400 V	400 V	400 V

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