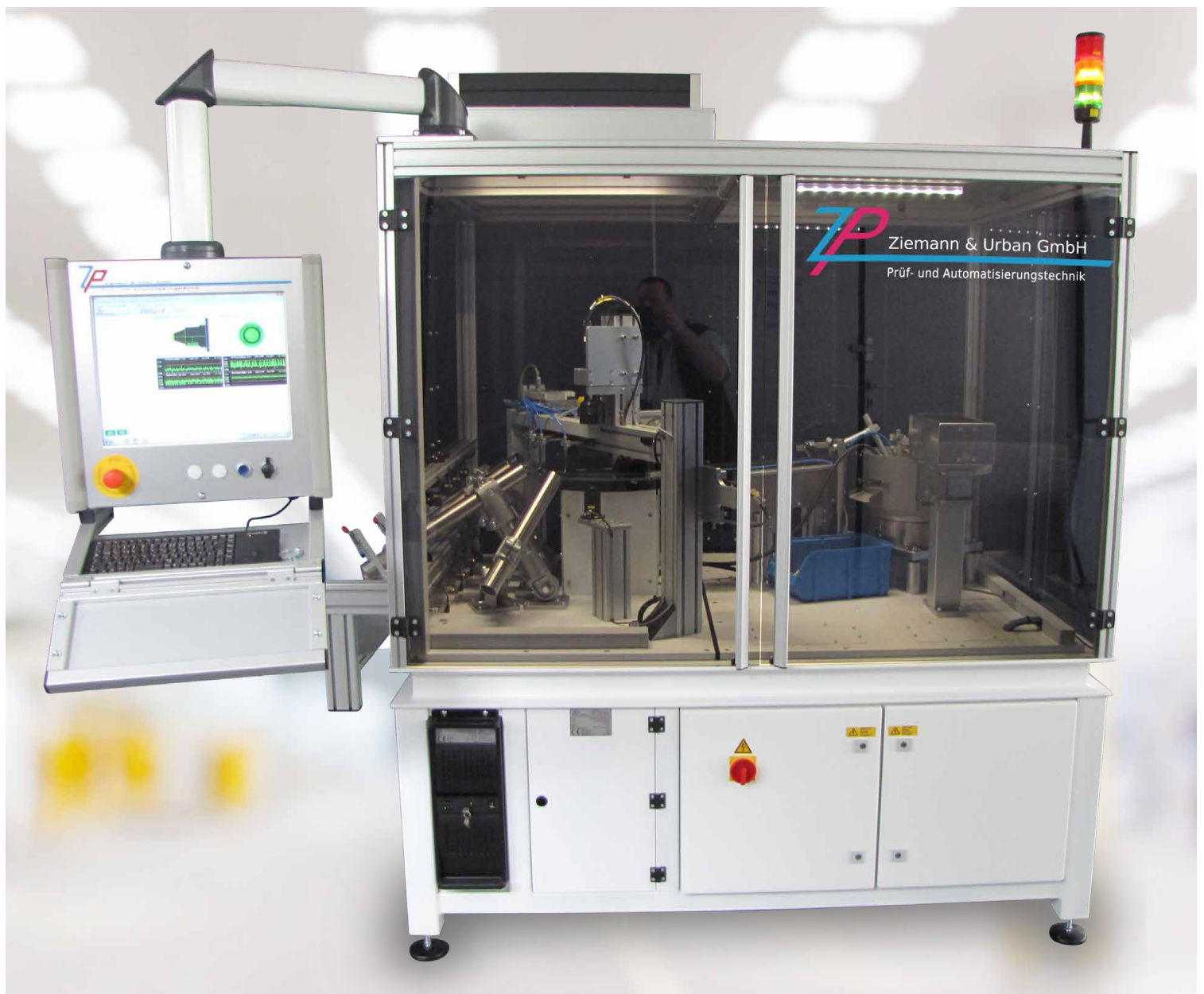


ZU Sort

Fully automatic testing – measuring – sorting



Ziemann & Urban GmbH

Prüf- und Automatisierungstechnik



ZU Sort

100% measuring, testing and sorting

Powerful and robust sorting technology

The „ZU SORT“ solution designed as a glass turntable system and can be equipped with several camera stations. The parts are fed in with different techniques, for example, as bulk material with a vibrating base conveyor, but other conveying techniques are also possible. The parts are separated on the glass turntable and precisely measured or tested. The OK inspected parts are blown off, the NOK parts are stripped off.



With the verification mode a cyclic test equipment monitoring (after a certain time or part counter) is automatically scheduled. It monitors if defined good parts are good and bad parts are bad and whether there are contamination or impairments that influence the test. By default the sorting of NOK parts is possible according into two error classes. After inspection, the parts are passed on as bulk goods or packaged in bags, blisters or similar packing units (depending on the customer requirement).

Diverse sorting options and support of quality control

In the configuration shown, 4 OK part output are attached on the side. The degree of filling of the associated container is also monitored by the software.

For parts that do not meet the test criteria (NOK parts) 2 outputs are provided in the configuration shown and also monitored by the software. A third output shaft is used to carry out a quality control (QC shot).



ZU Control – clear software for control and visualization

The powerful vision system ZU VISION checks each part according to the specified sorting criteria. The software runs on the in the integrated industrial PC.

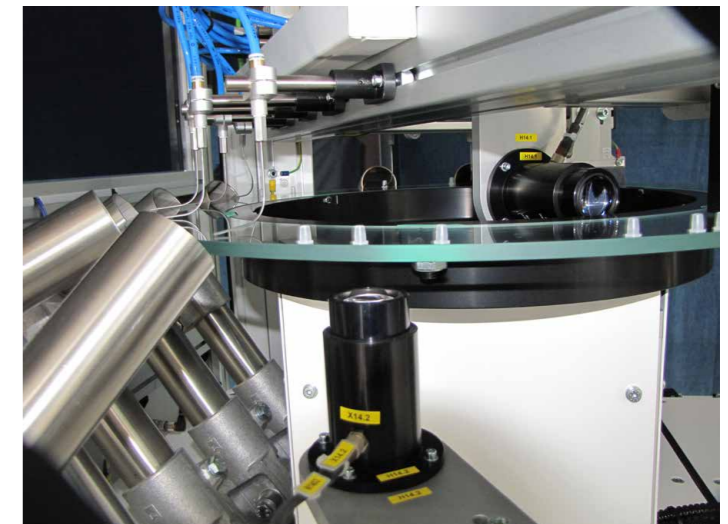
The user interface is locked on the side mounted terminal and shows a visualization of the inspection status and statistical data for each art on the turntable. The ZU VISION software also offers additional Control and configuration options for comprehensive process control.



Trouble-free and safe sorting using Compressed air

According to the freely configurable test criteria each part is classified and its position is tracked on the turntable exactly.

Pneumatic nozzles then blow the part into the corresponding output shaft.



Technical description

- Welded steel frame construction with a massive Base plate
- Servo motor drive with rotary encoder and slip clutch
- Flexible camera arrangement depending on the Inspection characteristics
- Component feeding from vibration pot and linear conveyor – optionally with storage bunker
- Sorting in up to 6 categories
- Packaging of components e.g. in small load carriers, tubular bags, custom containers

Features

- dimensional inspection
- completeness inspection
- inspection of complete injection of plastic parts
- backlight inspection
- application specific camera stations depending on the task
- service doors can be opened at any time without risk (e.g. for refilling parts) due to the innovative safety technology

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Technical specifications

Image processing:	ZU-Vision industrial imaging software for optical inspection and measurement
Cameras:	up to 6 GigE industrial cameras
Operation:	via touchscreen
Control:	Industrial PC with ZU control software
Component size:	Ø 2 – 20 mm
Speed:	approx. 3–5 components/s depending on the component
Turntable:	Ø 600 mm
Dimensions:	1700 x 1300 x 2300 mm (W x D x H) without touchscreen
Weight:	approx. 550 kg (depending on the equipment)
Power connections:	voltage: 220 / 240 V 50 Hz, approx. 2500 W, depending from the equipment Compressed air: 6 bar of dried air

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