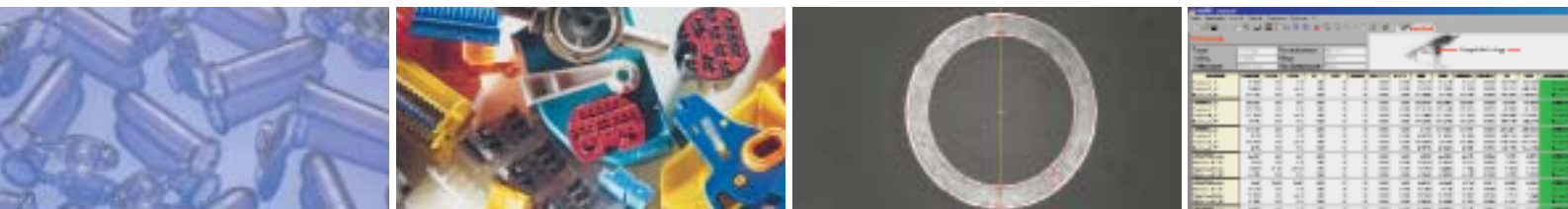


Measuring and Sorting Machine
visiSort[®] -T



QUALITY ASSURANCE: AUTOMATED WITH THE HIGHEST PRECISION!

Bag conveyor

Bin volume 80/150l
 Useful width 200mm
 Discharging height 1.800mm
 Filling height 800/1000mm



Container

Diameter	450mm	600mm	800mm
Part volume	50l	70l	90l
Filling weight	15kg	20kg	30kg
Capacity	depending on the conveyed material		



Part spectrum



Camera modules



Station 1



Station 2

Overview of lense range

Variant	Object window OF XxY(mm)	max. object size in the vertical camera, LxW (mm)	max. object size in the horizontal camera, WxH (mm)	Measurement repetition accuracy (µm)
A	20 x 15	15 x 11	15 x 11	± 6
B	30 x 23	25 x 18	28 x 55	± 10
C	62 x 48	58 x 45	58 x 45	± 17
D	81 x 62	75 x 56	40 x 56	± 22

Take advantage of our modular design with peripheral devices

Pull-off belt

Parts are continuously pulled off and do not fall on each other.

Total length 800mm
Useful width 80mm
with shaft cover



Packing belt

Total length 3000mm
Belt width 400mm
External frame width 455mm
Height 350 +/- 50mm



Performance features

- Throughput: 80-400 parts/min.
- Modular, expandable machine concept
- Industrial model, modern design
- Peripheral devices such as bin and packaging can be connected at any time
- Measurement of the outside contour, e.g. diameter, chamfer, radii, thread, angle, grooves ...
- Surface inspection, e.g. scratches and ridges
- Presence of interior threads
- Accuracy to $\pm 3 \mu\text{m}$
- Graphic user interface for creating and storing new inspection and test sequences
- Fast and simple adjustment when parts are changed
- Simultaneous measurement of the parts with up to 6 cameras

Parts specification

Mass: 0.5 - 50g

The aspect ratio (length in conveying direction/height) of the parts must be at least 1.5

Width to the conveying direction: 5 - 56mm
Part height: 1 - 40mm

Station 3



Station 2 + Station 3: Incident light checking from above and below: Blanking on disks, tears on the collar, miniscule scratches and ridges. Thread presence from above and below less than 45°

Station 1: vertically from above and horizontally in transmitted light: external contour, machining space, interior diameter



visiTeach®

- Can be programmed on the machine
- Measurement functions for universal application
- Position correction in X and Y direction
- Position correction in case of rotation
- Expandable with customer-specific functions

Feeding

- Adjustable parts feeding
- Individual transitions for sorting of parts at risk of tipping over
- Centring of the parts on the table

Sorting stations

- Sorting with fast, pneumatic valves
- Non-measured parts are collected separately with a diverter and can be returned back

Scope of supply

- Standard sorting device for disk-shaped and cylindrical parts
- Part-specific feeding
- High-precision measuring and sorting unit with cameras
- Blowout stations
- DSP image processing system with TFT monitor, keyboard, mouse
- Test chamber with protective doors
- visiLum® infrared lighting
- Extensive documentation
- Training and program examples

Options

- Part bins in different designs
- Sorting devices tailored to your part spectrum
- Pull-off belt
- Packing unit
- Data storage in CF memory and network connection
- PLC software for creating test reports



Control Cabinets

- Control cabinet/equipment cabinet
- Emergency off, main switch, control buttons



Connection tank

- Central connection unit
- Peripheral connection via Harting sensor island
- Control and power supply possible from customer devices such as e.g. bin, container, or packing unit