



mcv0

**AUTOMATIC ROTARY TABLE-BASED MACHINE
FOR 100% OPTICAL INSPECTION AND SORTING
ULTRA-PRECISE AND ULTRA-FAST
OF SMALL DIMENSION FASTENERS**

✓ FULL INSPECTION

Up to **100 inspection** criteria applied simultaneously **on each part**

✓ HIGH PRODUCTIVITY

SORTING RATE up to 1000 parts/minute
ACCURACY up to +/- 0,005 mm

✓ MODULARITY

Parts feeding through interchangeable and customizable units



5 HIGH SPEED SPECIAL CONTROLS

HS head
diameter
control

HS head
crack
detection

HS head
socket
control

CONTROLLABLE PARTS

Screws, micro screws, flanged bushings, threaded inserts, special fasteners turned or cold-formed with small dimensions

WORKING RANGE		
Dimensions of the measurable part	minimum	maximum
Head diameter	3 mm	14 mm
Head height	2 mm	7 mm
Shank diameter	2 mm	5 mm
Shank length	5 mm	25 mm



AVAILABLE FUNCTIONS

- **Full dimensional optical control** with camera profilometry
- **Optical control by attributes** with 2 alongside HR cameras
- **Heat treatment control** with NDT eddy current station
- **Super Gewinde** - quality control of threads, to detect the smallest dents and the minimal localized defectiveness

HS thread inspection

HS shank length & point control

ZERO DEFECTS

- Statistic Reports - Statistical data storage of the sorting cycle with detailed reports on the reject causes in a compatible web format
- Interfacing with the company network and ERP management systems
- Data backup system by UPS with buffer battery
- Users' login regulated by password and hierarchical privileges, with association of the operator's data to the sorting cycles done
- Off line programming, remote monitoring and online remote service for technical support, for software upgrades and operators' training



EQUIPMENT



1
EASY MCVX SOFTWARE

2
CONTINUOUS OR INDEXED ROTARY TABLE



3
2 DIGITAL HR CAMERAS
OPTICAL CONTROL BY ATTRIBUTES



4
NDT EDDY CURRENT STATION
HEAT TREATMENT CONTROL



5
PROFILOMETRY CAMERA
OPTICAL DIMENSIONAL CONTROL