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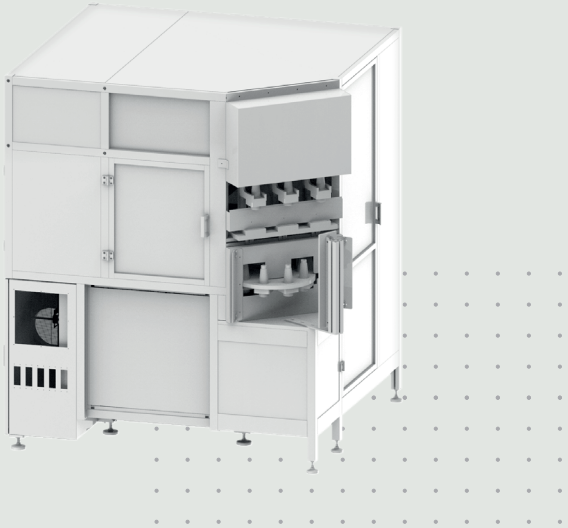
AUTOMATIC SORTING MACHINE FOR DIMENSION AND SURFACE VISUAL INSPECTION OF MICRO O-RINGS

PIECES

MICRO O-RING

DIMENSION

(A) 0.5 MM ID – 7 MM OD
(B) 0.5 MM ID – 9 MM OD



SURFACE
CONTROL

PROFILE
CONTROL

DIMENSIONAL
CONTROL

CUT AND BREAKS
CONTROL

TO CORRECTLY DEFINE A DEFECT, A DEFECT MUST HAVE AT LEAST 30 GRAY LEVELS OF CONTRAST COMPARED TO THE NON-DEFECTIVE AREA.

DESCRIPTION

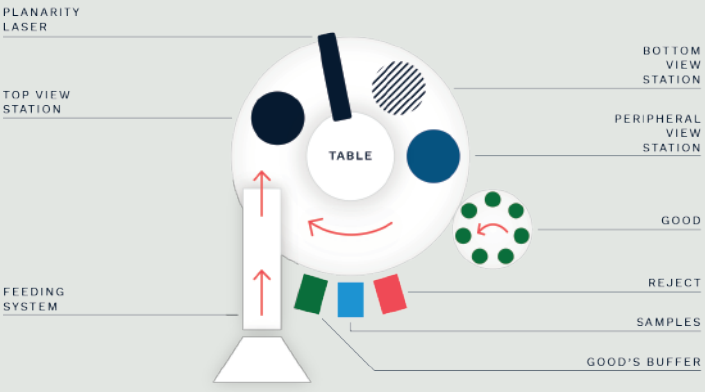
AUTOMATIC SORTING MACHINE FOR THE DIMENSIONAL AND SURFACE CONTROL OF MICRO O-RINGS AND MICRO PARTS.

PARTS WILL TRAVEL THROUGH THE FEEDING SYSTEM FROM THE VIBRATING BOWL (FOR MICRO PARTS), AND WILL BE SORTED INTO PLASTIC CONTAINERS BY A VACUUM SYSTEM AFTER THE INSPECTION.

AN ANTISTATIC SYSTEM IS PROVIDED TO GUARANTEE THAT PIECES WILL MOVE THROUGH THE MACHINE CORRECTLY.

REPORTS AND STATISTICS OF ALL PIECES INSPECTED ARE AVAILABLE FOR OPERATOR.

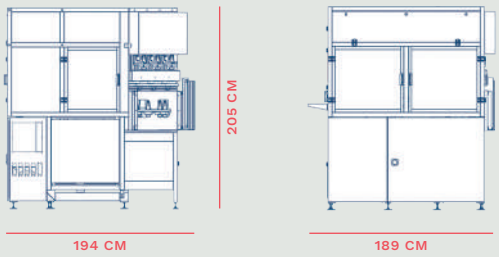
LAYOUT



PIECE	TYPE	ELASTOMERS, RIGID MATERIALS
	COLOUR	ALL, NON-TRANSPARENT
	TYPICAL PIECE	MICRO O-RING
	CHARACTERISTICS	CLEAN, FREE OF DUST OR PARTICLES THAT MAY ALTER THE PART'S PROFILE
	SIZE*	(A) 0.5 MM ID – 7 MM OD (B) 0.5 MM ID – 9 MM OD
	CROSS SECTION/HEIGHT	0.5 – 2 MM
VISION	RESOLUTION	(A) 0.004 MM/PIXEL (B) 0.005 MM/PIXEL
	ZOOM	NO
	CAMERA TYPE	MATRICIAL
	MAX FRAME FIELD*	(A) 8 MM (B) 10 MM
	CAMERA RESOLUTION	5 MEGAPIXEL
PERFORMANCES	CYCLE TIME	UP TO 5 PCS/SEC.
	TYPE OF FEEDING	AUTOMATIC
	TYPE OF MACHINE	SINGLE GLASS TABLE
	NOISE LEVEL (FOR ELASTOMERS)	< 75 DB
	THREE PHASE POWER SUPPLY	230 – 480 V
	MAX INSTALLED POWER	4 KW
	AVERAGE CONSUMPTION	1.4 KW
	COMPRESSED AIR CONSUMPTION	400 NL/MIN

*CUSTOMIZATION IS POSSIBLE

DIMENSION



CHARACTERISTICS

- STATISTIC AND REPORT
- TRACEABILITY OF PRODUCTION LOTS
- REMOTE MANAGEMENT
- M.E.S. COMPATIBLE
- CUSTOMIZABLE FOR SPECIAL PROJECTS

STANDARD CONFIGURATION

- TOP VIEW
DIMENSION AND SURFACE INSPECTION BY A VISION SYSTEM POSITIONED ON TOP OF THE GLASS TABLE. THE SYSTEM IS ILLUMINATED BY MULTIPLE LED SOURCES IN STROBOSCOPIC MODE.

- LASER STATION FOR PLANARITY CONTROL
LASER SYSTEM FOR THE PLANARITY CONTROL OF THE PIECE.

- BOTTOM VIEW
DIMENSION AND SURFACE INSPECTION BY A VISION SYSTEM POSITIONED ON BOTTOM OF A GLASS TABLE. THE SYSTEM IS ILLUMINATED BY MULTIPLE LED SOURCES IN STROBOSCOPIC MODE.

- PERIPHERAL VIEW
SURFACE INSPECTION OF THE SIDE VIEWS OF THE PIECE BY A CAMERA AND A CALIBRATED MIRRORS SYSTEM. THE SYSTEM ENABLES A COMPLETE COVERAGE ENSURING A REDUNDANT OVERLAPPING OF THE CONTROL AREAS.

OPTIONS

- CUSTOMIZED COLLECTING SYSTEM