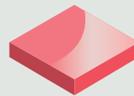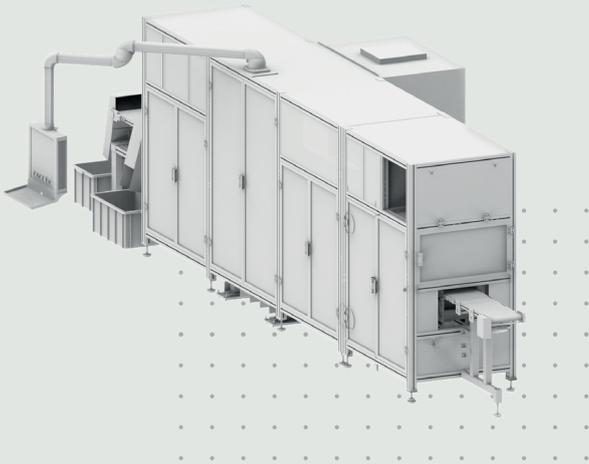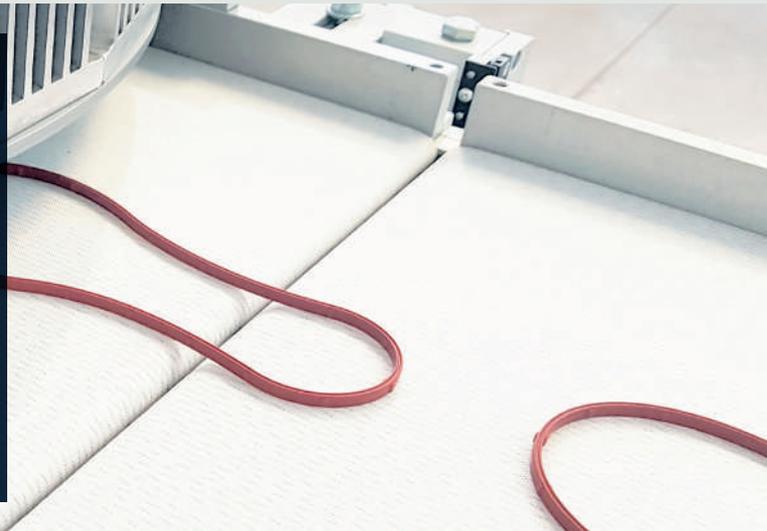# doss
let's check.

dSort 5

AUTOMATIC VISUAL INSPECTION MACHINE FOR LARGE O-RINGS, TECHNICAL PARTS AND RIGID FRAMES

PIECES

BIG O-RING
BIG TECH. PART
PART WITH COMPLEX FRAMES

DIMENSION

30-180 MM WIDTH
50 - 600 MM LENGTH

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.
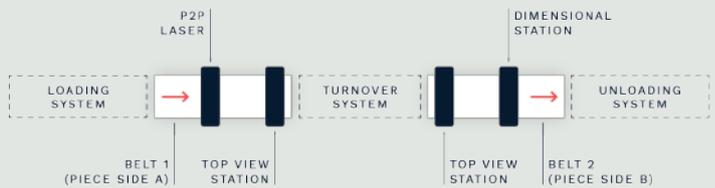
DESCRIPTION

Automatic visual inspection machine for large o-rings, technical parts and rigid frames.

The machine inspects surface, dimension, and height of the parts.

Depending on client's needs, loading and unloading systems can be manual or automatic.

LAYOUT

P2P LASER — DIMENSIONAL STATION — LOADING SYSTEM — TURNOVER SYSTEM — UNLOADING SYSTEM — BELT 1 (PIECE SIDE A) — TOP VIEW STATION — TOP VIEW STATION — BELT 2 (PIECE SIDE B)

PIECE

TYPE	ELASTOMERS, RIGID MATERIALS
COLOUR	ALL, NON-TRASPARENT
TYPICAL PIECE	BIG O-RING BIG TECH. PART PART WITH COMPLEX FRAMES
CHARACTERISTICS	CLEAN, FREE OF DUST OR PARTICLES THAT MAY ALTER THE PART'S PROFILE
SIZE*	30-180 MM WIDTH 50 - 600 MM LENGTH
CROSS SECTION/HEIGHT	2.6 - 9 MM

VISION

RESOLUTION	0.049 MM/PIXEL
ZOOM	NO
CAMERA TYPE	LINEAR
MAX FRAME FIELD*	200 MM (LINE)
CAMERA RESOLUTION	4096 PIXEL/LINE

PERFORMANCE

CYCLE TIME	UP TO 3600 PCS/HOUR
TYPE OF FEEDING	AUTOMATIC/MANUAL
TYPE OF MACHINE	BELT
NOISE LEVEL (FOR ELASTOMERS)	< 75 DB
THREE PHASE POWER SUPPLY	230 – 480 V
MAX INSTALLED POWER	9 KW
AVERAGE CONSUMPTION	2.7 KW
COMPRESSED AIR CONSUMPTION	500 NL/MIN

*CUSTOMIZATION IS POSSIBLE

DIMENSION

814 CM   234 CM   192 CM

CHARACTERISTICS

STATISTIC AND REPORT

TRACEABILITY OF PRODUCTION LOTS

REMOTE MANAGEMENT

M.E.S. COMPATIBLE

CUSTOMIZABLE FOR SPECIAL PROJECTS

STANDARD CONFIGURATION

- POINT TO POINT LASER
THIS SYSTEM MEASURES THE THICKNESS OF THE PIECE
- TOP VIEW
SURFACE INSPECTION OF THE PIECE BY A LINEAR CAMERA. THE ILLUMINATION IS A HIGH-PERFORMANCE LED SYSTEM.
- DIMENSIONAL CONTROL
DIMENSIONAL CONTROL DONE BY A LINEAR CAMERA. THE ILLUMINATION IS A HIGH-PERFORMANCE LED SYSTEM.

OPTIONS

- PERIPHERAL VIEW STATIONS MODULE
- TELECENTRIC DIMENSIONAL STATION
- PACKING SYSTEMS
- METAL DETECTOR