

# dSort 4s

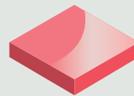
**AUTOMATIC SORTING MACHINE FOR STRETCHABLE PARTS**

**PIECES**

STRETCHABLE TECH. PARTS

**DIMENSION**

80 - 220 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

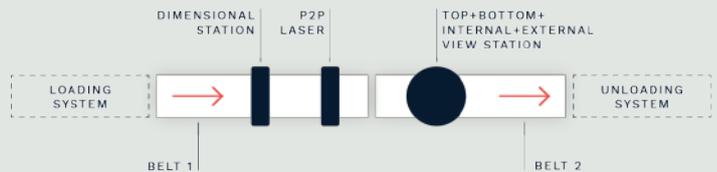
AUTOMATIC SORTING MACHINE FOR LARGE STRETCHABLE PARTS. THE CORE OF THE SYSTEM IS THE VISION UNIT, CONSISTED OF 4 LINEAR CAMERAS.

THE PARTS ARRIVE ON THE CONVEYOR BELT AND ARE TAKEN BY 2 PULLEYS, PLACING THEM IN FRONT OF THE CAMERAS.

THE CAMERAS INSPECT ALL THE SURFACES WHILE EACH PART IS STRETCHED AND ROTATED. REPORT AND STATISTIC OF ALL PIECES INSPECTED ARE AVAILABLE FOR THE OPERATOR.

UPON REQUEST, A CAMERA SYSTEM TO INSPECT THE DIMENSION OR A POINT-TO-POINT LASER TO MEASURE PART'S THICKNESS CAN BE ADDED.

## LAYOUT



## DIMENSION



## CHARACTERISTICS



STATISTIC AND  
REPORT



TRACEABILITY OF  
PRODUCTION LOTS



REMOTE  
MANAGEMENT



M.E.S.  
COMPATIBLE



CUSTOMIZABLE FOR  
SPECIAL PROJECTS

PIECE

TYPE	ELASTOMERS, STRETCHABLE MATERIALS
COLOUR	ALL, NON-TRANSPARENT
TYPICAL PIECE	STRETCHABLE TECH. PARTS
CHARACTERISTICS	CLEAN, FREE OF DUST OR PARTICLES THAT MAY ALTER THE PART'S PROFILE
SIZE*	80 - 220 MM OD
CROSS SECTION/HEIGHT	2.6 - 6 MM (CROSS SECTION) MAX 15 MM HEIGHT FOR COMPLEX PARTS

VISION

RESOLUTION	0.019 MM/PIXEL
ZOOM	NO
CAMERA TYPE	LINEAR
MAX FRAME FIELD*	20 MM (LINE) 180 MM (DIMENSIONAL)
CAMERA RESOLUTION	2048 PIXEL/LINEA (SURFACE INSPECTION)

PERFORMANCE

CYCLE TIME	UP TO 550 PCS/HOUR
TYPE OF FEEDING	AUTOMATIC/MANUAL
TYPE OF MACHINE	CARTESIAN MANIPULATOR
NOISE LEVEL (FOR ELASTOMERS)	< 75 DB
THREE PHASE POWER SUPPLY	230 - 480 V
MAX INSTALLED POWER	5 KW
AVERAGE CONSUMPTION	1.8 KW
COMPRESSED AIR CONSUMPTION	350 NL/MIN

\*CUSTOMIZATION IS POSSIBLE

## STANDARD CONFIGURATION

## - MULTIPLE VIEWS

SURFACE INSPECTION OF THE PIECE BY THE LINEAR CAMERAS FROM DIFFERENT ANGLES. THE INSPECTIONS HAPPEN SIMULTANEOUSLY WITH THE ELONGATION AND ROTATION OF THE PIECE, WHICH IS CARRIED OUT BY THE MOTORIZED PULLEYS.

## OPTIONS

- BELT 1 MODULE CONSISTS OF 1 STATION OF DIMENSION INSPECTION (BY THE LINEAR CAMERA AND THE HIGH-PERFORMANCE LED ILLUMINATION) AND/OR A P2P LASER (FOR THE THICKNESS MEASUREMENT)
- TELECENTRIC DIMENSIONAL STATION
- PACKING SYSTEMS
- METAL DETECTOR