

AUTOMATIC INSPECTION LINE FOR RUBBER BUSHES

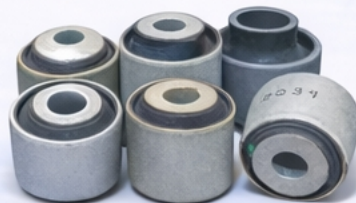


DESCRIPTION

This automatic inspection machine is designed for high-precision and reliable quality control of rubber bushes, integrating multiple dimensional and functional checks within a single system. It performs critical inspections such as inner diameter, outer diameter, ovality, concentricity, and height measurements along with step and serration analysis, ensuring micron-level accuracy.

The system also incorporates dual-side adhesion (proof load) testing and advanced vision-based Poka-Yoke inspection for defect prevention.

Equipped with automated marking, barcode labeling, and detailed data logging for each component, the machine ensures complete traceability and efficient segregation of NG parts. With a fast cycle time of 6 seconds and safety features like Category 4 light curtains, it delivers high productivity while maintaining strict safety and quality standards.





DENSO TECH

AUTOMATIC INSPECTION LINE FOR RUBBER BUSHES

FEATURES

1

INNER DIAMETER INSPECTION

2

OUTER DIAMETER MEASUREMENT
(LEAST COUNT 0.001MM)

3

TOTAL HEIGHT MEASUREMENT
(LEAST COUNT 0.01MM)

4

VISION SENSOR – IV4 POKA YOKA
INSPECTION WITH PEN MARKING

5

SAFETY CATEGORY 4 LIGHT CURTAIN

6

ADHESION TESTING/ PROOF LOAD
TESTING FROM BOTH SIDES

7

OVALITY, CONCENTRICITY
MEASUREMENT

8

LASER MARKING (OPTIONAL)

9

SEGREGATION OF DIFFERENT REJECTION
PARTS IN SEPARATE BINS FOR NG-PARTS

10

CYCLE TIME – 6 SEC

INSPECTION SEQUENCE

1



MANUAL LOADING
ON INDEXING CONVEYOR

2



VISION CAMERA
INSPECTION

3



INNER DIAMETER
GO/NO-GO CHECK

4



ADHESION TESTING/
PROOF LOAD TESTING

5



ADHESION TESTING/
PROOF LOAD TESTING
(180 DEGREES)

6



OUTER DIAMETER, OVALITY,
CONCENTRICITY MEASUREMENT

7



HEIGHT MEASUREMENT

8



PARTS TO OUTPUT CONVEYOR

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