

Bearing Inspection System

The Bearing Inspection System was originally designed for a domestic roller bearing manufacturer. This unique system uses an innovative transport system that allows different diameter roller bearings to be inspected by simply changing hoppers and chutes. Several hoppers and chutes are available to accommodate a wide range of roller bearing sizes. The roller bearings are individually selected in the hopper and transported by gravity to the inspection station where an assembly continuously rolls the bearing while an eddy current probe indexes its length. After inspection, an assembly arm transports the roller bearings to either a defective or defect free bin.

The Bearing Inspection System includes a UniWest US-454 EddyView® eddy current instrument which provides high sensitivity. A built-in alarm circuit notifies technicians when reject parameters are exceeded. UniWest has designed this innovative system to provide defect free roller bearings for the critical aircraft manufacturing industry.

Specifications:

- Variable bearing rotation speed from 0-100 RPM
- Frequency range from 10 Hz to 10 MHz
- Absolute or differential
- Automatic and manual operation
- Touch screen HMI (Human Machine Interface)
- Programmable parameters for each bearing size
- Can be upgraded and expanded
- Inspection time ~ 9 seconds
- Bearing diameter currently available 5mm– 21mm in 1mm increments
- Positioning in 0.05" increments
- Overall height 34 inches
- Overall width 24 inches
- Overall depth 23 inches
- Weight 170 pounds

