



TRANSMISSION RING INSPECTION SYSTEM



Transmission Ring Inspection System



➤ **Division**

CT

➤ **Market**

Automotive

➤ **Customer**

➤ **Production Rate**

450 parts per hour

➤ **Product Range**

16 different part numbers

➤ **System Description**

The system is designed to inspect Automotive Rings for cracks on the OD and the ID and proper surface hardness on the OD or ID utilizing eddy current technology. The parts range in diameter from 2.00 inches to 2.50 inches.

The machine consists of a 6 station-indexing dial with a load station, crack inspection station, hardness inspection station, acceptable parts unload station and 2 reject unload stations.

Parts are hand loaded onto an infeed conveyor. A load arm pushes the parts into the load station of the dial. On the first index of the dial, the part is presented to the crack inspection station. Here, it is rotated while two probes inspect the ID and OD for cracks. The next index presents the part to the hardness station. Here, a single probe touches the part in various locations on the OD or ID to test for proper surface hardness. The remaining 3 unload stations are used to sort the part for either "good," "cracked" or "soft" as the indexer places it there.