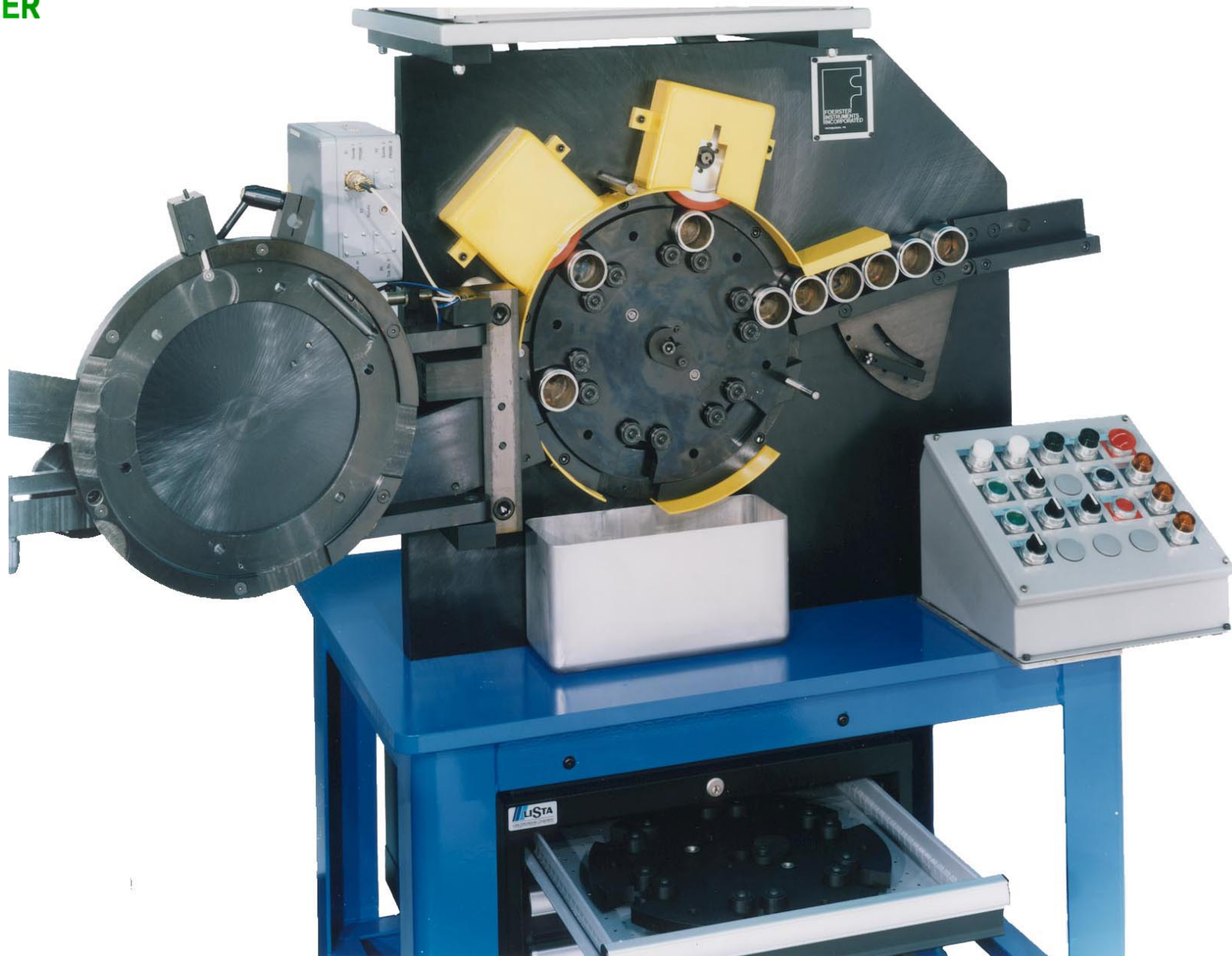




BRAKE CALIPER PISTON INSPECTION MACHINE



Brake Caliper Piston Inspection Machine (close-up)



➤ **Division**

CT

➤ **Market**

Automotive

➤ **Customer**

➤ **Production Rate**

1200 parts per hour

➤ **System Description**

The system is designed to evaluate Brake Caliper Pistons for cracks and overall length. Parts enter the system from a customer-supplied conveyor. They gravity feed into the load station of the vertical rotary indexer. The indexer rotates 60 degrees, which positions the part in the eddy current inspection station. Here the part is trapped between 4 cam followers and a rotating urethane drive wheel. As the part spins, a fixed probe inspects the open end of the part for flaws. At the next index, the part is again trapped between cam followers and a urethane drive wheel. As the part slowly spins, a pencil probe takes 50 length measurements around the face of the part, and then averages them to create an overall length measurement. If no flaw is found and the length is within tolerance, the part rolls out 180 degrees from where it entered. If the part is rejected, it drops out after the next index into a reject bin.