



# Custom Gaging Solutions

## Gaging Parameters

### GAGING SYSTEM:

- Electronic LVDT  
And Eddy Current

### OPERATION:

- Fully automatic

### NUMBER OF CHECKS:

- 12

### CLASSIFICATION:

- Accepted parts  
marked with  
serialized pin  
stamp

### SORTING:

- Accept and  
reject by robot  
unload

### FEATURES:

- Robotic cell  
application for  
“handed” axles  
including thread  
presence of tapped  
holes

## Axle Tubes



Fabrication of welded axle tubes rely upon the accurate location of the part in the automated welding application and subsequent machining operation of the critical dimensions. The same robots used in the welding process can easily load and unload a machine tool and or gaging station to close the loop on a completely automated cell.

Edmunds utilized a unique means to



allow “handed” parts to be measured within the same gage.

The robot identified the part being presented and we were able to measure, record and mark acceptance criteria and a part serial number based upon the dimensional information directly on the part. And feedback top the machining process was provided to keep the process under control.



The tooling to measure the part included a multi-circuit leaf contact air plug to work within the 125 Rms surface finish of the bore, while utilizing LVDT probes and functional probes for lengths, presence of holes and locations to other relative features of the part.

