



BALL STUD SPACER HARDNESS INSPECTION SYSTEM



Ball Stud Spacer Hardness Inspection System



➤ **Division**
CT

➤ **Market**
Automotive

➤ **Production Rate**
5400 parts per hour

➤ **System Description**

The system is designed to evaluate Ball Stud Spacers for proper heat treatment. The operator loads parts into the hopper. The hopper fills the bowl feeder, which in turn loads one part at a time onto the conveyor belt. Once on the belt, the parts are transferred at approximately 6 inches per second through a demagnetization coil and then through the inspection coil. If the parts are found to be improperly heat treated, they are unloaded sideways off of the belt. If they are within specifications, they continue off of the end of the belt and into a customer supplied bin. The system is not belt speed dependent since it utilizes an encoder to determine belt speed and part position. This enables the operator to increase or decrease system through put by merely adjusting belt speed.