

Wheel Studs with Promess PRO-Monitoring System

Monitoring the interference fit and depth of wheel studs that are pressed into wheel hubs.

Challenge:

Due to cycle time and production rate requirements, the machine builder proposed building one machine with two pressing stations. Each station would include two hydraulic presses. The machine would also have to have the ability to monitor the interference fit and depth of the parts being assembled.

Strategy:

The Promess PRO-Monitoring System was selected to solve this application because of its ability to monitor all four press rams, asynchronously, within one 4-channel PRO-Monitoring System unit.



Results:

- Detection of missing stud
- Detection of the wrong stud
- Detection of process changes
- All studs monitored independently

Benefits:

- * 100% certification of every wheel hub assembly
- * Built in data acquisition
- * Force and position data available for every part

