

DataSure® Wireless Data Collection

DataSure® Advanced: The Industry's Best Wireless System in Now Even Better



DataSure® Software 2.0

- Backward compatible with all current radios/hardware
- Easy to Install
- “IT” Friendly - does not require WiFi, Bluetooth, IIS, MSDE, .NET framework, or web browser
- Supports Dynamic Data Exchange (DDE) for direct Excel interface
- Works with Windows XP Pro, Vista, and Windows 7
- Drag and Drop tools multiplexers
- Fast and easy label changes for tools
- Faster response for measurements

New & Improved End Node

- The new, on-the-tool radio (End Node) has a smaller form factor than the original version. In addition to it:
- IP67 compliant
- Has field replaceable cables
- Supports most competitor and Starrett tools the same tools as first generation End Nodes

About DataSure®...

- Robust and reliable wireless data collection for the shopfloor
- Mesh architecture and at-the-tool confirmation
- Works with Starrett and other major manufacturers' tools
- Each Gateway accommodates from one to 100 tools
- End Node range to 75'. Each router can increase range by 100' Network, tool and End Node battery monitored and recorded



DataSure® Application Profile: Orthopedic Cutting Tools Manufacturing

T&L Sharpening produces tools including rasps, twist drills, reamers, end mills and taps, mostly for medical-based customers. Founded 30 years ago by Mr. Thomas All, T&L Sharpening of Warsaw, Indiana specializes in precise orthopedic cutting tools. Today, most work is done on CNCs and specialized machinery.

T&L Sharpening runs job lots from one to four-thousand pieces. Parts are inspected with calipers, micrometers, scopes and other tools. In medical manufacturing, accuracy and quality control are particularly important, with many jobs requiring 100% inspection.

The company had multiple inspectors working with hard-wired measurement devices, but sometimes, wires got crossed creating safety hazards. Their in-process inspection procedure relied on notes or the inspector's memory to record quality information.

Some jobs require T&L to provide material certification, heat treat certification, and perform passivation for rust prevention. Some OEMs also stipulate ROHS compliance for control and use of hazardous substances.

"Although the industry does not currently require full SPC from surgical tool manufacturers, it is moving that way. Regardless, our goal is to attain this anyway, because SPC inevitably promotes better quality, productivity, and fewer errors," explained Mr. Thomas All, President of T&L Sharpening. With full SPC and the desire to remove wires, T&L Sharpening investigated data collection options.



Solution – DataSure®

When Starrett presented its DataSure® Wireless Data Collection System to T&L Sharpening, they were immediately sold on the concept. "It wasn't a matter of if we were going to go with the Starrett DataSure system but rather how quickly we could get it up and running," commented T&L Quality Manager Tom Herr.

DataSure® installation went without a hitch. DataSure End Nodes were attached to the data ports of six of their electronic tools. Though not Starrett tools, they interfaced perfectly with DataSure®. Their system also includes a DataSure® Router that extends the range of their system by 100 feet, and a DataSure® Gateway connected to a PC. "We were extremely pleased with the DataSure® implementation," stated Herr. "Once we had things set up, we were up to speed within an hour or two with very little training."



Benefits of DataSure® Wireless Data Collection

Inspectors now move about freely with their measuring devices, with several inspectors working in the same area. The absence of wires has improved safety and data collection is both accurate and real time. "Our productivity, flexibility and accuracy improved right away versus our previous system," said Herr. "We have reduced our average inspection, collection and documentation time by 25% and considerably improved our throughput and reliability."

T&L estimates their annual savings from DataSure at \$50,000.00. They anticipate greater savings as they continue to expand their DataSure® network. "DataSure® has proven to be a very useful and convenient system for us," remarked Mr. All. "And, when the industry wants full SPC for surgical instruments, we'll be ready."

