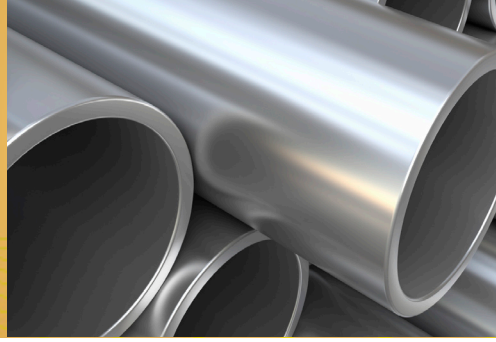
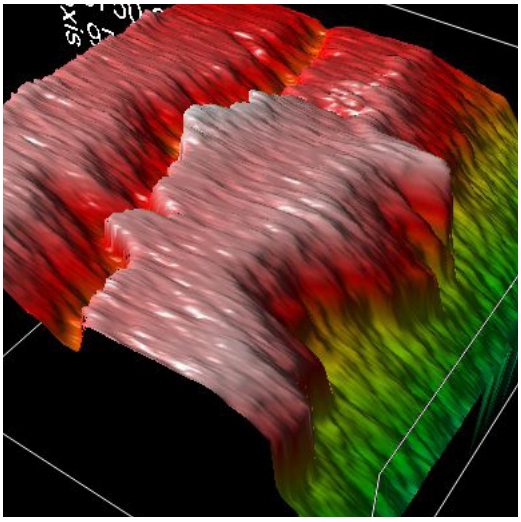


Tube and Pipe Skelp Inspection

As demands for higher tensile steel increase, width and edge tolerances are important since high-strength material will not form like softer grade steel. Factors within a tube and pipe producer's control are slit edge and width quality.

Bad steel coil does exist, the yield strength could vary, the edges could be damaged, the skelp width might vary along the length of the coil, just to name the most common visual problems.

Achieving a quality weld requires starting with good edges. In manufacturing tube and pipe using ERW, Plasma, TIG or Laser processes, this is a critical factor towards consistent yield.



Skelp Edge Inspection Solution

Collecting comparative data over time is a good starting point to develop statistical process control (SPC) for skelp and edge conditions. However one cannot expect an operator to begin logging measurement data.

Using a laser profile sensor the laser line generates a set of world data points which are then used by the application software to detect edge and skelp faults.

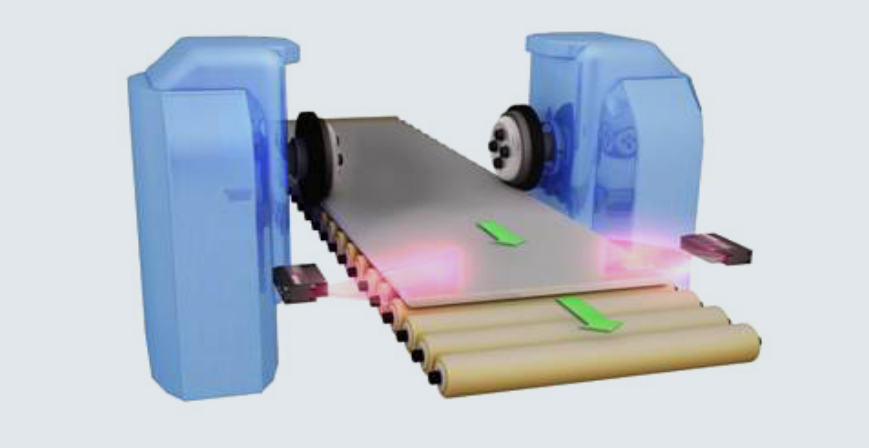
With recognized benefits such as:

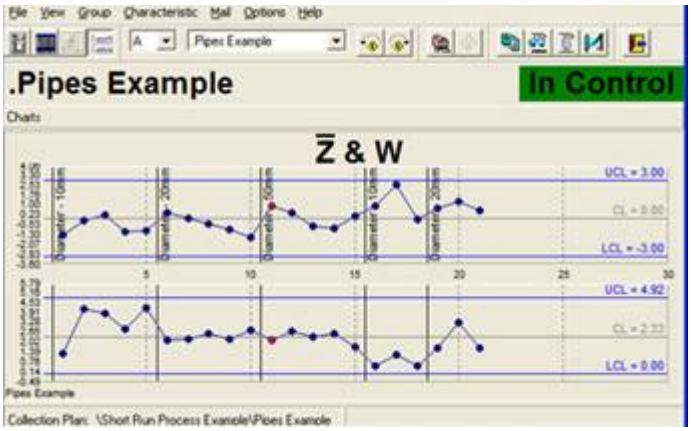
- Real time monitoring of edge conditions and alerts
- Information for mill operators
- Traceability for supplier audits
- Productivity improvements by a reduction in operator starts and stops.

Features:

Identification and measurement for:

- Skelp Width and thickness
- Edge wave and edge finish
- Edge burr
- Shear angle
- Shear to break ratio





SPC Trends

- Trends metrics
- monitors in real time
- Create set point and control limits
- Trigger Alerts
- Store to production data
- Publish to reports

Specifications:

Technology	Laser profile surface scanning
Sensor	Ruggedized IP65 scanner
Frame Rate	100-300Hz
Resolution	+/- 0.05mm (+/- 0.0025”)
IO Signal	Digital and analog available
Controller	PC based, network controller
Operatiing temp	-10 - +60 C
Power	110-240 AC

Contact us today to learn more about this system or to discuss your specific requirements.

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