

New installations of LUT wall thickness gauges

Tecnar, Canada, has completed the commissioning of three of its laser ultrasonic thickness gauges (LUT) in China and Germany. With these installations, the LUT gauge is fast becoming a standard for online wall thickness measurement at high temperatures in harsh environments.

The LUT gauge is a non-contact ultrasonic thickness gauge for hot tube and pipe. The gauge combines the accuracy of ultrasonic thickness measurement with the flexibility of laser optical devices.

Until recently, only contact ultrasonic sensors could be used for high accuracy wall thickness measurements. Such sensors could not be used online because of the high temperature and fast motions of the tube/pipe.

The LUT eliminates such problems and provides real-time wall thickness profiles, temperature profiles and length of each tube/pipe produced. Unlike the radiation method, the measurement accuracy of the

LUT gauge is also not affected by bouncing motions of the tube/pipe.

With the simple graphics displays of the LUT, production problems can be quickly identified and corrected. The investment in an LUT gauge gives drastically improved pipe quality and, what is essential for any investment, results in reduced production costs. The return on investment is extremely good and amortisation time is approximately one year.

Ingenieurbüro Gurski-Schramm & Partner is the worldwide exclusive representative of Tecnar's LUT gauge.

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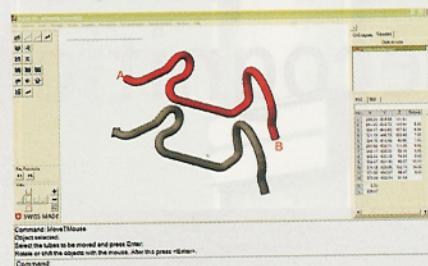
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Mobile measurement with remote control

TeZet, Switzerland, has launched TeZetCAD for Windows Mobile, which can measure objects that are awkward, large or difficult to access. In such situations, it is not always possible to take a cordless measuring device and laptop to capture the measured xyz points.

TeZetCAD-Mobile, available with standard Tezet functions such as xyz point capture and 3D visualization, runs simultaneously on devices such as mobile phones, pocket PC's, and handheld computers. Both TeZetCAD applications communicate

① IGES file with tubes designed in half shells – converted into xyz bending data



Weigh-Measure-Stencil System (WMS System)

Tube
Düsseldorf
Stand
E18-8

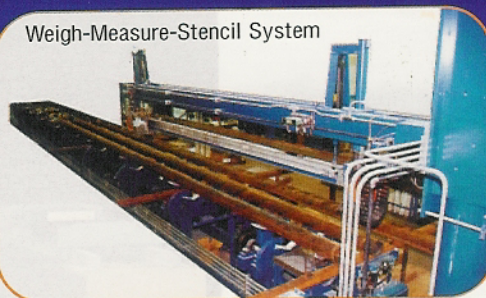
InfoSight WMS systems are usually custom-designed to fit the user's pipe flow geometry and passline height. In-line Systems, Lateral Transfer Systems, and "Hybrid" systems (Hybrids use a combination of both In-Line and Lateral Transfer subsystems), are possible. In-line Systems are designed to fit into an in-line pipe conveyor. Lateral transfer systems include pipe handling and are designed to receive a pipe at a "pickup" station, and then process the pipe laterally through length, weight, colorband, stamp, and stencil operations, and then discharge the pipe to a "drop-off" station.

FEATURES

- Fully integrated weighing, measuring, and marking system
- The WMS System typically performs:
 - Weight Measurement
 - Length Measurement
 - Pipe-by-Pipe Production Report printout, with time, length, weight, and message data record
 - Colorbanding (optional)
 - Stenciling, dot matrix
 - Tally Report printout totalizes length and weight, for both GOOD pipe and REJECT pipe
 - Stamping, dot matrix (optional)

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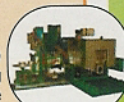
Weigh-Measure-Stencil System



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Slab Tagging Machine

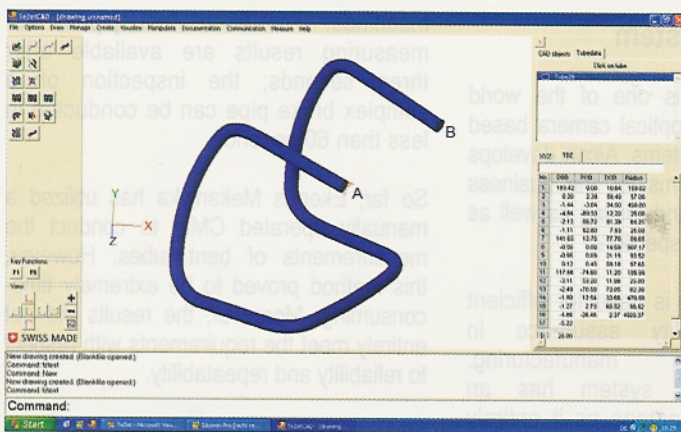


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Inspection, Measuring, Testing & Marking



Freeform bent tube measured with a laser, automatically generating xyz and bending data

via wireless LAN or Bluetooth, so that measuring functions can be accomplished from both stations.

The measuring stick probe captures the xyz coordinates and sends them via optical control sensors to the base station. The actual processing of the measuring points happens on the base station, but is shown simultaneously on the screen of the mobile part. Although Windows-Mobile technology is not brand new, its use for measuring tube is.

The technology can be used for virtual laying of tube lines at large volume objects and quality control measurements of existing tubes. Application areas include ship engines, pipe laying in a ship body, power plants, aircraft constructions, oil platforms, and large vehicles.

The captured measuring points provide the basis for further software processing in TeZetCAD, specialised tube measuring software. With over one hundred useful features and measurements, the software can be used for tube, profiles, hoses and geometric parts.

Non-contact measurement is also possible using an infrared fork with an additional laser pointer to facilitate the measurement of thin or flexible tubes. TeZetCAD can measure and correct freeform bent tubes, which means enormous savings in time and material – especially in the setup phase of the bender.

A very special feature is the 'design tool' which enables the user to manipulate existing tubes on-screen, with changing data tables shown simultaneously. This feature is used when tube lengths or bends require adjustment. It is also useful when specially defined distances between different tubes are not allowed to be smaller or larger than the given data. It provides a 3D view that allows visual evaluation.

Bending data cannot be generated without xyz coordinates, meaning that IGES files for data transfer are increasingly important. Therefore, TeZet has developed its own IGES converter to convert half shells from CAD software into traditional tube to generate missing xyz coordinates and the necessary bending data.

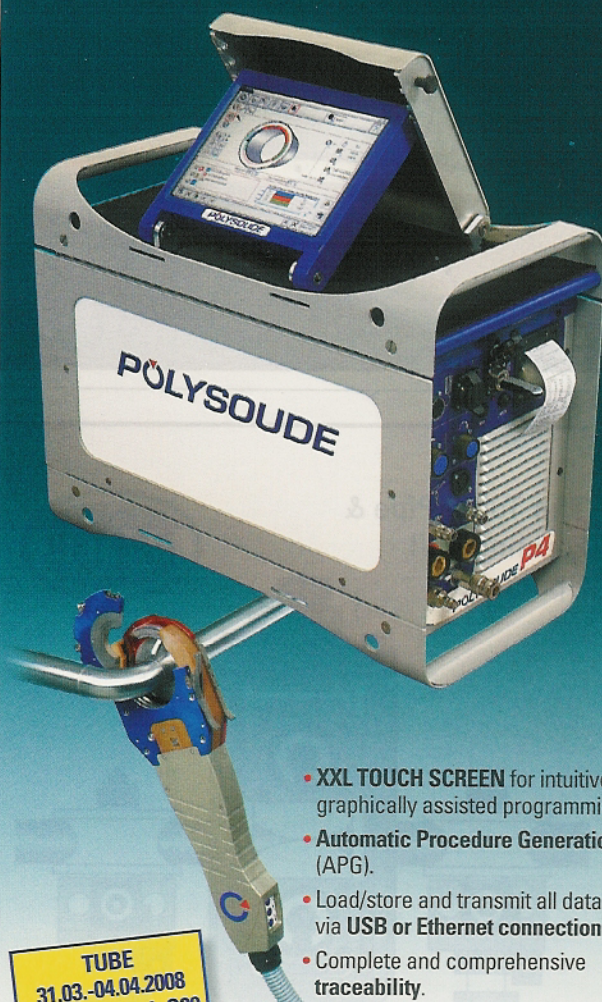
The great advantage of TeZetCAD software is that it is adapted to different measuring devices, from the smaller MicroScribe to larger coordinate measuring arms such as Romer, Cimcore, and Faro. It is also suitable for cordless measuring devices such as 3D Creator.

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