



lut revolution

Non-contact

accurate wall
thickness
measurement
for process
monitoring

tecnar

our sensors, your productivity.

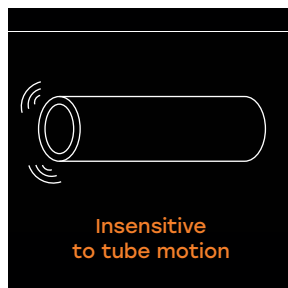
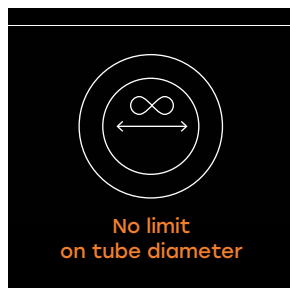
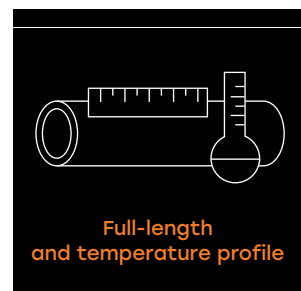
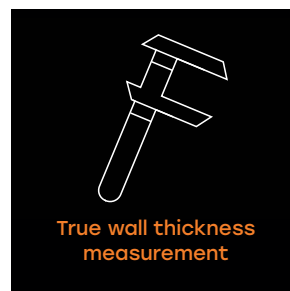
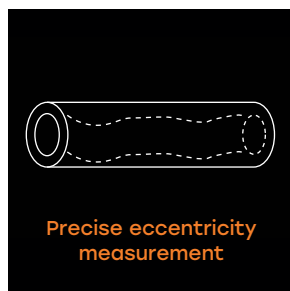
Smart features that will benefit your business

Lut revolution

The only technology compatible with all seamless production mills:

The *Lut revolution* gauge is a game-changing, non-contact ultrasonic-based tool for monitoring seamless steel tube manufacturing. The *Lut revolution* provides unparalleled insight into seamless tube production by measuring the true wall thickness profile, temperature profile and total length. User-friendly, advanced analytical tools – such as 360° cross-section profiles and individual deformation order identification – allow operators to quickly pinpoint and correct problems. The *Lut revolution* is extremely versatile and can be installed anywhere in the process from the piercing mill up to the sizing mill. From start to finish, the *Lut revolution* is the only technology that can be installed at any step in the production process of seamless steel tubes.

Get the *Lut revolution* advantage:



Advantages

The *Lut revolution* helps increase yield and quality by:

Setting a tighter tolerance on wall thickness

Reducing mill set-up time, especially during size changes

Detecting “out of specs” conditions as they occur

Monitoring toll wear and slow process drift

Technical specifications

Wall thickness measurement

Range 3 to 44 mm

Accuracy ± 0.1 mm for nominal thickness under 20 mm
 ± 0.2 mm for nominal thickness from 20 to 25 mm
 ± 0.4 mm for nominal thickness over 25 mm

Resolution better than 0.1 mm

Length measurement

Speed range 2 to 600 m/min.

Accuracy $\pm 0.2\%$ of reading

Tube outer diameter

Range above 25 mm / 1 in.

Temperature measurement

Range 700 to 1200°C

Accuracy $\pm 50^\circ\text{C}$

Data acquisition rate

Up to 100 data sample /sec.

Tube cross-section measurement

Complete cross-section every 4 sec.*

* Only available on the scanning version of the system



earlier insight changes everything

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References

Benteler
BHEL
Iljin Steel
Jesco
Ovako
Sanyo Special
Steel
Tenaris
United
Seamless
Tubular
US Steel



“Seamless tube manufacturers are constantly looking for new ways to increase productivity and product quality. Tecnar’s Lut gauge is a novel approach to monitoring production. By getting accurate information earlier in the tube-making process, the Lut provides technological insight not available before.”

Gerhard Kulesa
Seamless Tube Technology Expert
Kulesa & Associates