

The background of the entire page is a grayscale image of various metallic pipes and tubes, some in the foreground and some receding into the distance, creating a sense of depth. The pipes are arranged in a somewhat chaotic but rhythmic pattern. At the top of the page, there are two solid orange rectangular blocks, one on the left and one on the right, separated by a black vertical bar that runs down the center. This black bar contains the main text.

# lut revolution

## **Non-contact**

accurate wall  
thickness  
measurement  
for process  
monitoring

# tec**nar**

our sensors, your productivity.

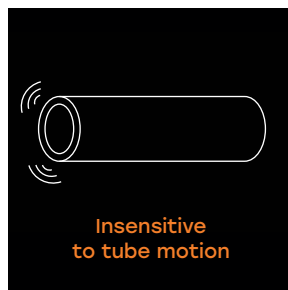
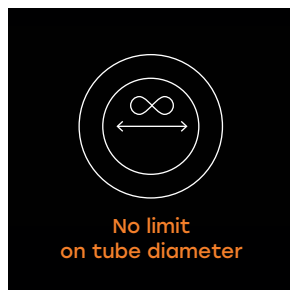
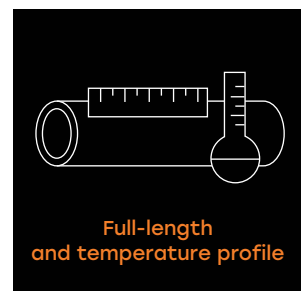
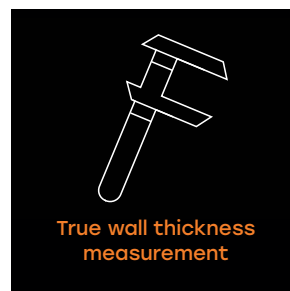
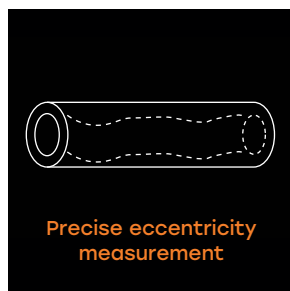
# Smart features that will benefit your business

## ***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 at any stage of 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 stage 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 45 mm

Accuracy  $\pm 0.1$  mm for nominal thickness under 20 mm  
 $\pm 0.2$  mm for nominal thickness from 20 to 25 mm  
 $\pm 0.4$  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