

SEGMENTED THICKNESS TOOL (STT)



The Segmented Thickness Tool (STT) is designed to assess metal loss of well tubular by analyzing the decay of localized electromagnetic fields. It employs 8 miniature high-resolution sensors positioned around its circumference, providing a comprehensive 360° segmented evaluation of 1st and 2nd barriers' integrity. In addition, two long sondes of the tool provide integrity evaluation up to the 4th concentric pipe, including the delivery of an average circumferential metal loss for the 3rd and 4th barriers. The STT is the best suite for corrosion logging and leak detection combining with the North Side FIND technology.

Applications:

- 360° segmented high-resolution evaluation of 2 pipes
- Circumference average evaluation up to 4th pipe
- Internal & external corrosion evaluation and monitoring
- Localization of holes, cracks, parted pipes
- Frac ports opening, perforation control

Advantages:

- High-Resolution corrosion monitoring of well tubulars
- Not affected by scale deposition
- Determination of small pinholes & pitting

Tool Specifications

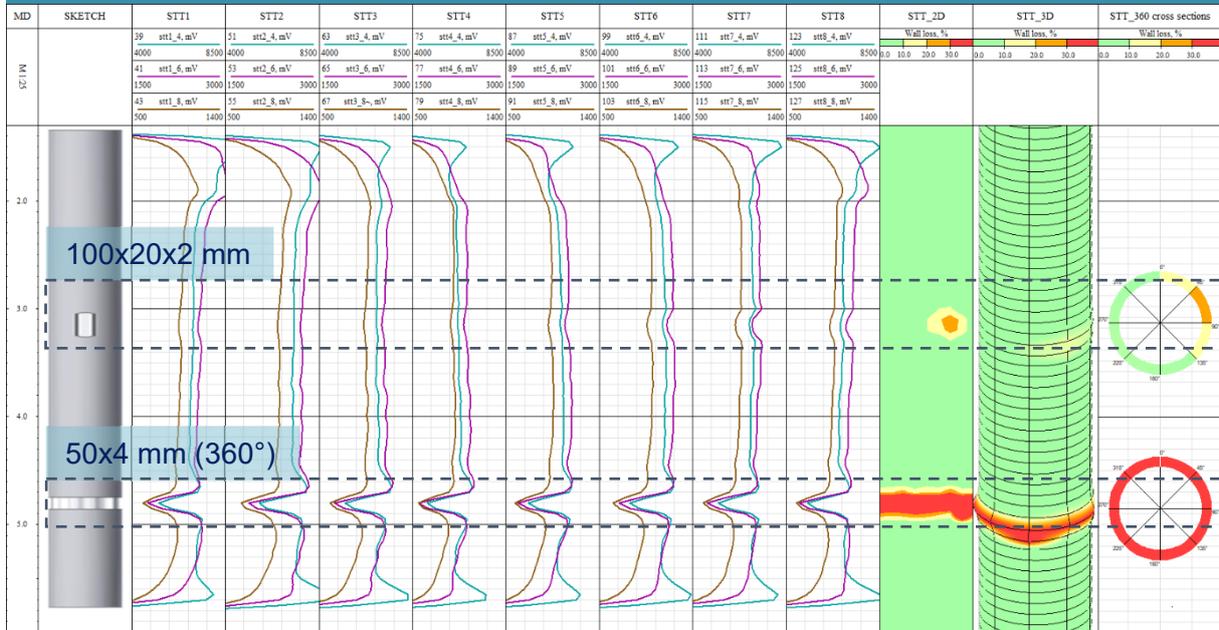
Minimum detectable hole size 1 st barrier	0.3"
Minimum detectable hole size 2 nd barrier	0.6"
Minimum detectable hole size 3 rd barrier	1.2"
Minimum detectable hole size 4 th barrier	1.5"
Number of oriented sondes	8
Number of integral sondes	2
Chrome pipes evaluation	Yes
Maximum temperature	150°C (304°F)
Maximum pressure	11,600 PSI (80 MPa)
Tool length	2.1 m (6.9 ft)
Tool weight	28.0 lbs (15.0 kg)
Tool diameter	1.9 in (48 mm)
Connections	15/16 SR
Housing material	SS
H ₂ S resistance	25%
Fully autonomous / SRO tool	Both
Operational time in memory mode	50 hours



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External tubing defects (grooves)



Tubing through-wall defects (holes)

