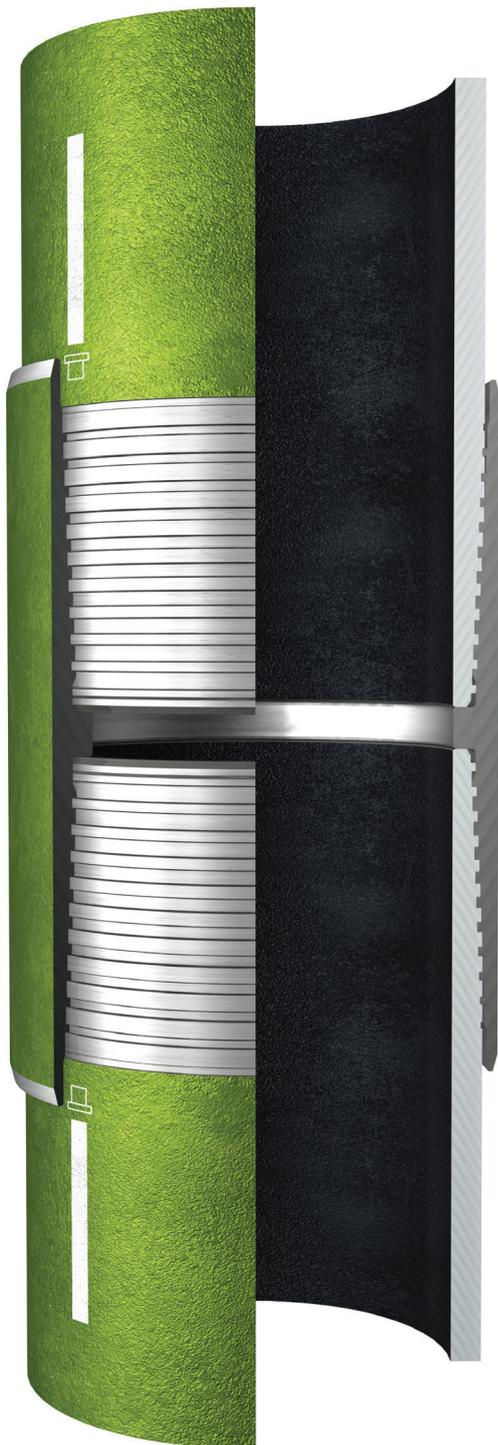


Wedge 441™ connection | 5 ½"

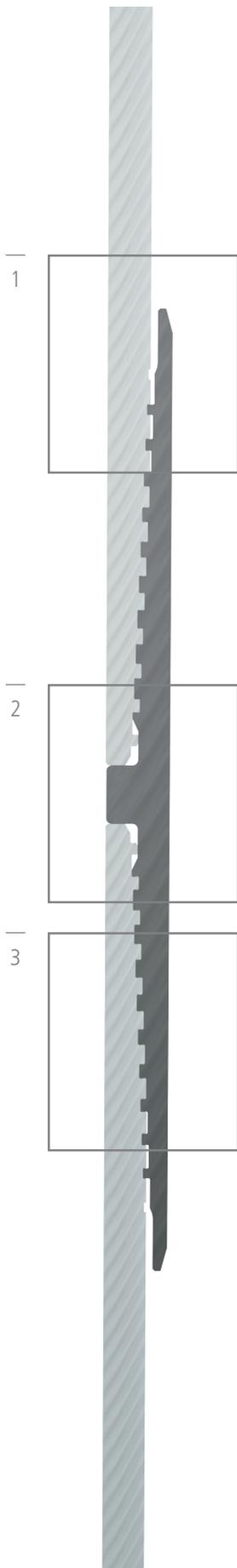
The TenarisHydril Wedge 441™ is a threaded and coupled slim line connection for unconventional applications. Superior torque and high clearance combination makes it optimum for slim wells without gas sealability requirements.



The TenarisHydril Wedge 441™ connection, designed for production casing in shales, has the slimmest OD in the market, comparable to that of an integral joint.

The reduced coupling OD allows the use in clearance restricted applications. Additionally, the Wedge thread profile and shoulder back-up provides exception torque capability and robustness for handling rotation in longer laterals.

With a reliable development based on detailed design program, the Wedge 441™ connection has been evaluated and validated through the Finite Element Analysis (FEA) program and Full Scale Testing (FST) program.



1



- Easy make-up: no need of make-up torque vs turns chart
- Make-up indicator: a 24" x 1" colored locator stripe on pin allows visual confirmation of appropriate make-up, even at operating torque

2



- Pins provide extra torque capacity when subjected to incremented torque resulting in pin-to-shoulder contact
- Slim coupling OD

3



- Exceptional torque capability and compression efficiency developed through the simultaneous engagement of opposing flanks of the dovetail thread
- Unrivaled running reliability and robustness given by the TenarisHydril Wedge thread

FEATURES

- Slim coupling resulting in OD comparable to that of integral connections
- TenarisHydril Wedge thread design provides maximum overtorque capacity to manage longer laterals
- Pin-to-Shoulder back up mechanism granting additional torque capability to handle rotation
- Robustness of Wedge profile reduces number of rejects / re-make-ups
- 81.5% tension and compression efficiency
- Low TPI thread profile and deep stabbing for speed of installation, with 15 sec/joint spinning time

- Reduced hoop stresses on coupling compared to BTC profile connections
- 15° standard bevel
- Compatible with Wedge 461™ pins

APPLICATIONS

- **Production casing and liners**
- **Shales**
- **Rotating while cementing**
- **Clearance restricted applications**

For further information please visit www.tenaris.com