

API vs Premium Drill Pipe Connections Selection Map

Connection selection based on well conditions, torque requirements, fatigue exposure and inspection considerations.



LOAD



TORQUE

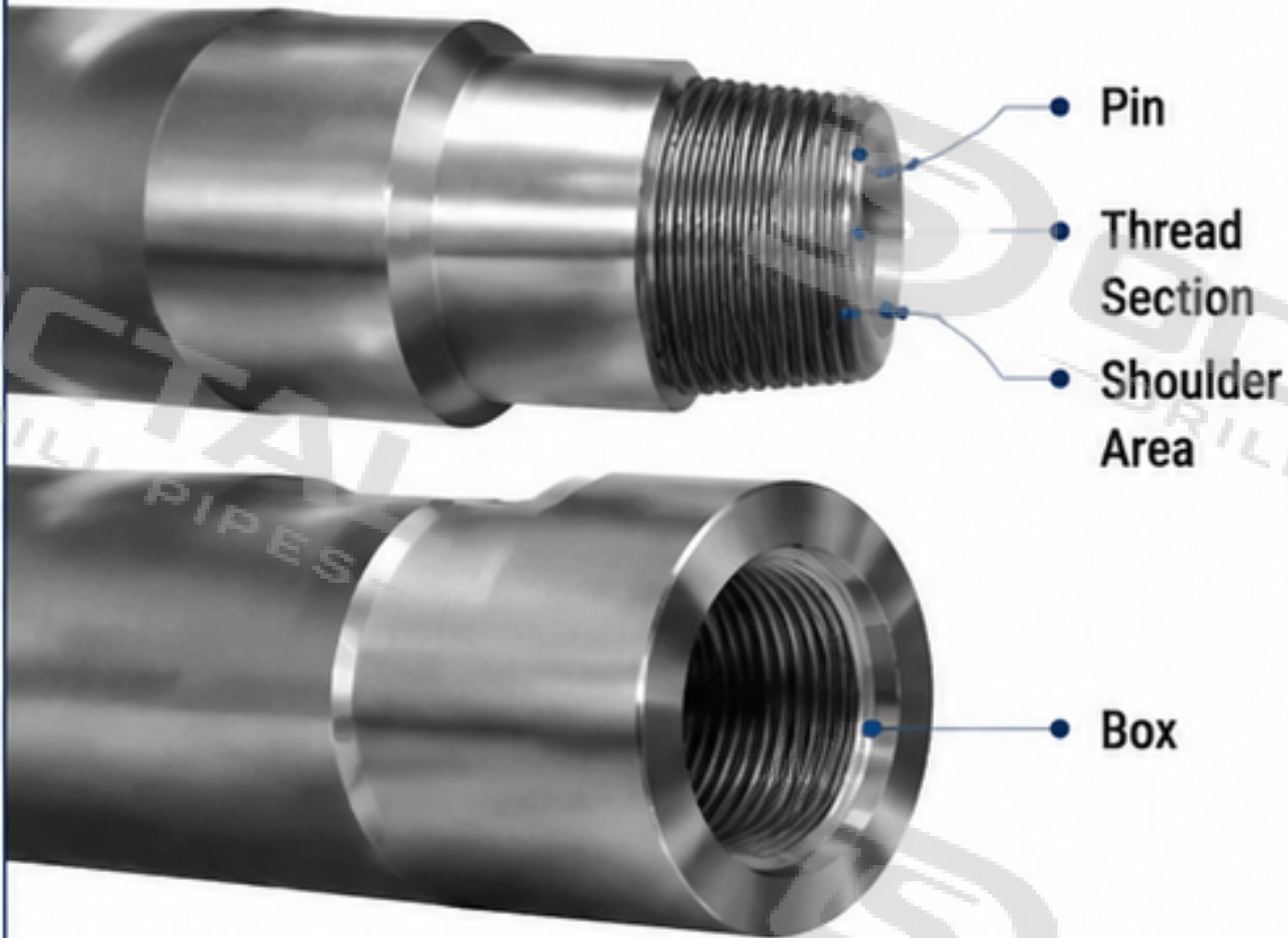


FATIGUE



INSPECTION

API Drill Pipe Connections



Selection depends on:

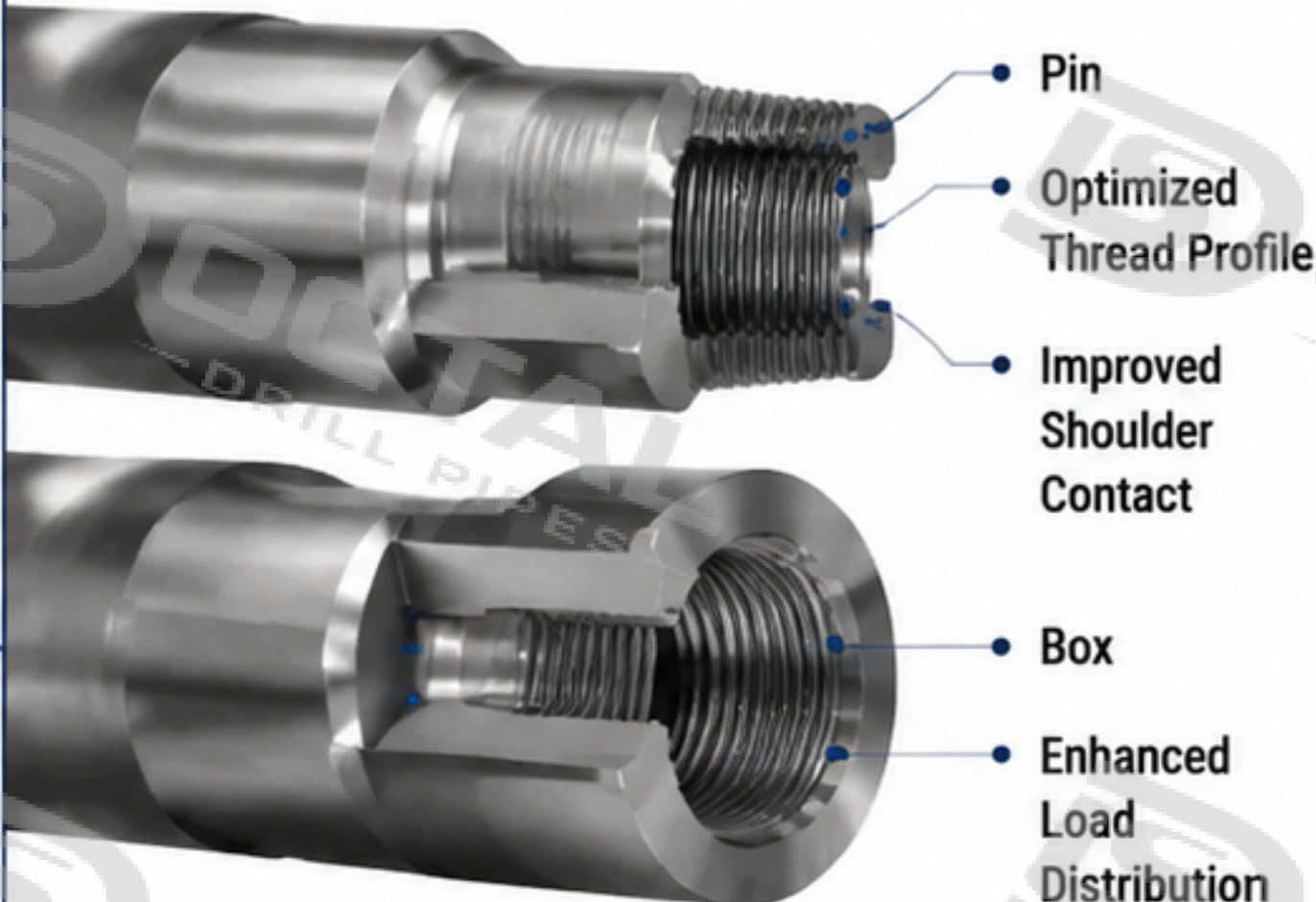
Well Load

Torque Requirement

Fatigue Exposure

Connection Requirements

Premium Drill Pipe Connections



- 1 Standardized Connection Design
- 2 General Drilling Applications
- 3 Conventional Vertical Wells
- 4 Moderate Torque Requirements
- 5 Wide Field Compatibility
- 6 Established Inspection Procedures

- 1 Optimized Connection Geometry
- 2 Higher Torque Applications
- 3 Directional and Extended Reach Wells
- 4 Improved Fatigue Performance
- 5 Complex Drilling Conditions
- 6 Additional Operating Margin



Proper connection selection improves drill string performance, reduces risk of failure and supports safe and efficient drilling operations.



Connection Performance Position

API and Premium drill pipe connection selection based on operating demand, fatigue exposure and drilling condition review.



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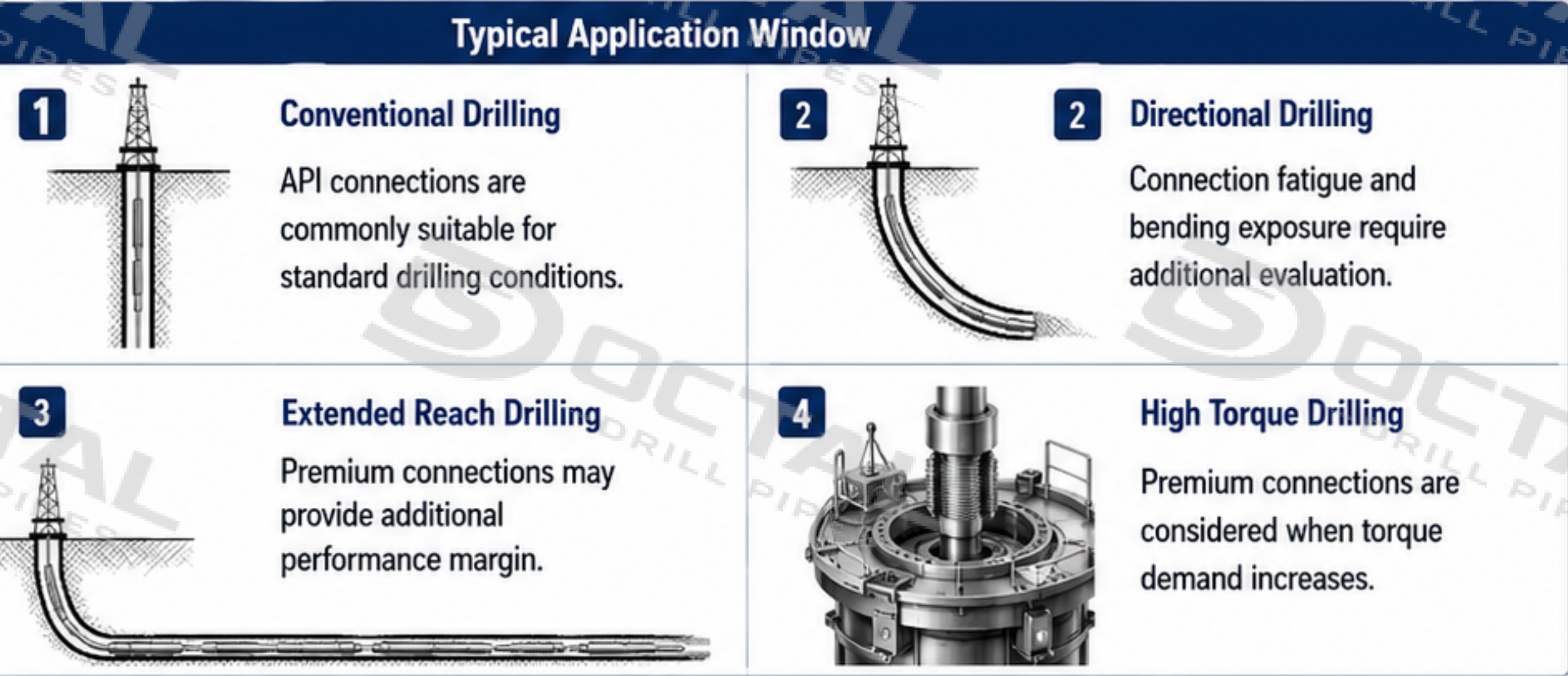
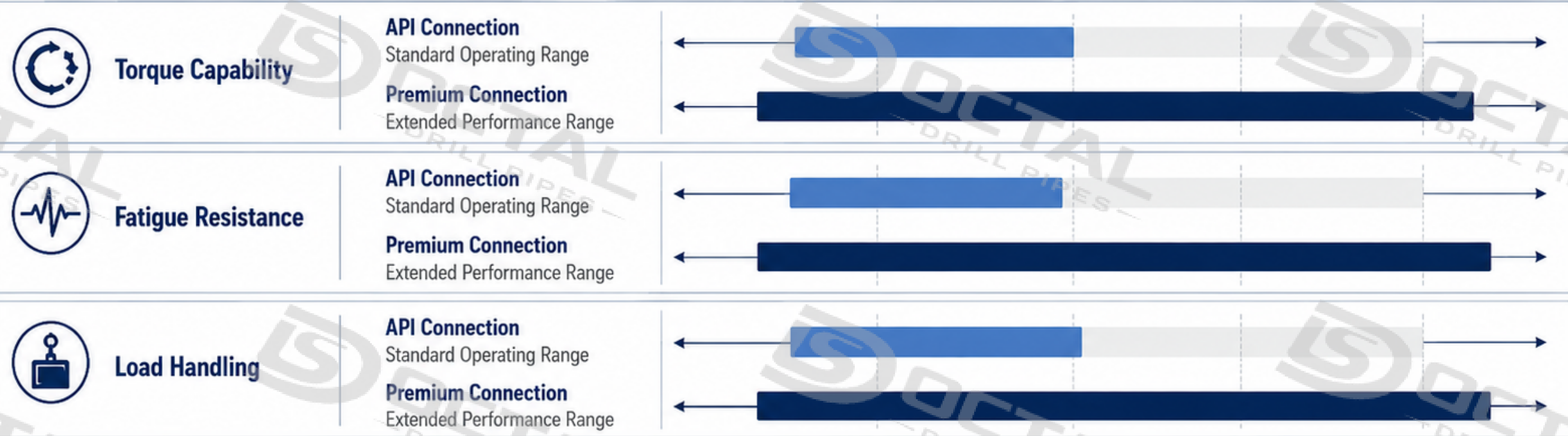
TORQUE



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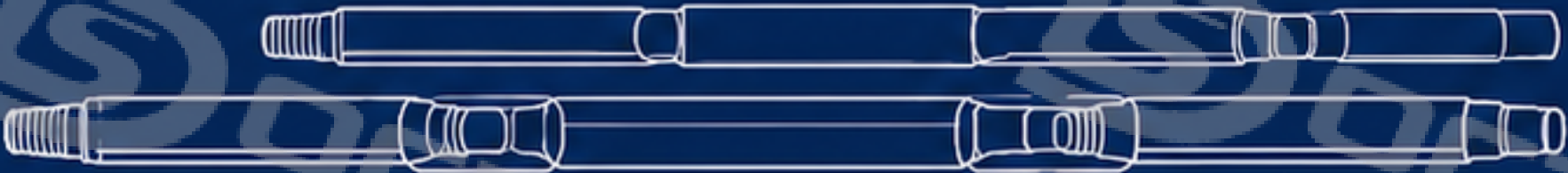
INSPECTION



Selection Notes	
	Performance requirement determines selection.
	Torque and fatigue affect connection choice.
	Thread compatibility must be confirmed.
	Inspection records support reliability.
	Well conditions define connection requirements.



Connection selection should match drilling demand, compatibility and inspection review.



Drill Pipe Connection Inspection and Review Checklist

Connection inspection, dimensional review and traceable quality documentation.



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TORQUE

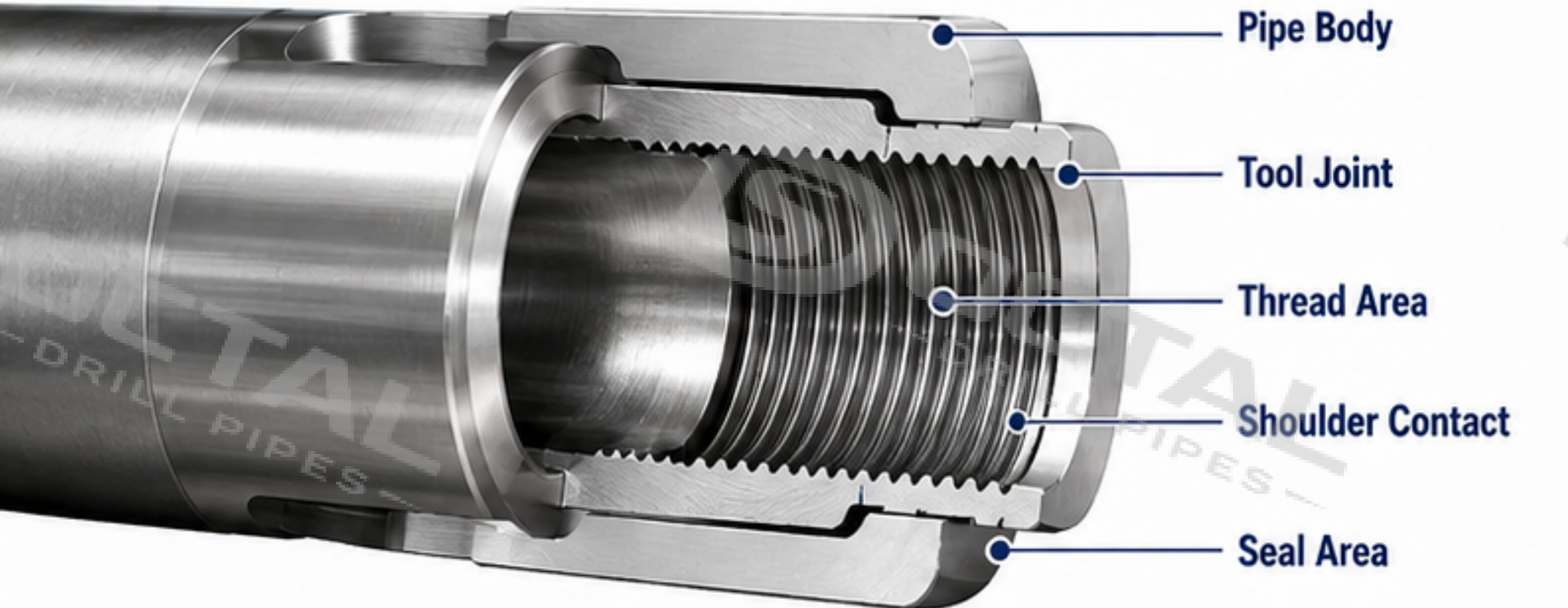


FATIGUE



INSPECTION

Connection Structure Inspection



Visual Inspection



Thread Gauge Check



Dimensional Measurement



Documentation Review

Connection Inspection Checks



1

Connection Type

Match existing drill string configuration

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2

Thread Inspection

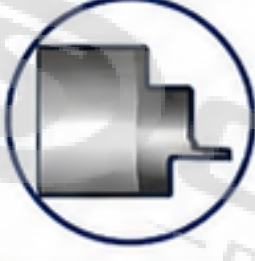
Verify thread condition and engagement

☐

3

Dimension Verification

Confirm connection geometry

☐

4

Shoulder Inspection

Check contact condition

☐

5

Documentation

Maintain traceability records

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Recommended Document Chain



Material Certificate



Manufacturing Record



Thread Inspection



Dimensional Report



Quality Documentation



Inspection control supports connection reliability, compatibility and field acceptance.

