Drill Pipe Services
Maximize drill pipe life cycle
Drill Pipe Services

Tuboscope’s Industry Leading Technology

and proven experience in inspection, machining services, inventory management and corrosion control products increase drill pipe life cycle and maximize your investment.

Tuboscope Drill Pipe Services is the full-service integrated management program for your drill string. Quality management is the key to ensuring safe, successful, and profitable drilling.

- Worldwide Expertise
- Commitment to Research and Development
- Full Range of Drill String Services

Tuboscope has spent more than 50 years perfecting products and services, and training our people to help prevent drill pipe failure. Our dedication has culminated in a series of services that help identify serviceable pipe, as well as extend the working life of your drill string. These services can be performed in a drill pipe service center, in the field or in a pipe yard, where and when you need them.

- Inspection
- Corrosion Control
- Hardbanding
- Drill Pipe Asset Management
- Machining Services
- Rig Component Inspection

Harsh drilling conditions push the limits of drill string design and capability. Our full range of drill pipe services provide the solutions needed to meet today’s demanding drilling environments.

Tuboscope | NOV Wellbore Technologies
tuboscopesales@nov.com
nov.com/tuboscope
Tuboscope’s tool joint and tube inspection services are carried out in accordance with standards such as API, DS-1, and NS-2.

We Know Drill Pipe Inside and Out

Critical inspections are necessary for challenging drilling environments. Inspection of new and used drill pipe is essential to detect manufacturing or drilling related defects. Ultrasonic testing (UT) to determine API specified wall thickness and Electromagnetic Inspection (EMI) to detect service related defects is crucial in preventing downhole failures.

Tuboscope provides the necessary inspections for all drilling operations including deviated and horizontal well-bore. Our comprehensive drill pipe inspection program will assist in maximizing your drill string performance.

Inspection

Truspec™ and Sonoscope™ Inspection Systems

- Electromagnetic Testing
- Full circumferential coverage
- Locates service induced defects
- Classifies tube condition

Endsonic™ Inspection Tool

- Ultrasonic testing
- Locates fatigue cracks
- Detects internal pits
- Measures changes in wall thickness

Multiple Dimensional Tool Joint Checks

**Box End**
- Outside diameter
- Shoulder width
- Tong space

**Pin End**
- Inside diameter
- Tong space
- Neck length
- Bevel diameter

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Tube-Kote™ Drill Pipe Coatings provide superior returns on drill string investment. The comprehensive line of Tube-Kote internal plastic coatings include epoxy phenolic, epoxy novolac and the latest thermoplastics, all designed to address operating needs of specific downhole conditions.

**Benefits**

**Corrosion Control**
Corrosion pitting and associated fatigue can result in washouts and twist-offs that can shut down drilling operations. Internal plastic coatings improve drill string performance in even the most aggressive environments.

**Hydraulic Improvements**
The smooth surface of coated drill pipe reduces friction and increases hydraulic efficiencies. In completion strings, higher flow rates help remove mud films during displacement to completion fluids. These reduced pumping pressures can decrease the loss of completion fluids into the formation.

**Prevention of Scale Deposits**
Internal plastic coatings are beneficial in drilling and workover applications by eliminating the buildup of harmful scale. A clean internal surface of drill pipe protects against formation contamination and maintains hydraulic efficiency.

**TK™-34**
Field proven industry standard

**TK™-34XT**
Enhanced abrasion resistance

**TK™-34P**
Improved $\text{H}_2\text{S}$ and organic acid resistance

TK Drill Pipe Coatings withstand all temperatures commonly encountered during drilling — provided circulation is maintained.

Frequent coating evaluations are recommended to improve the longevity of the drill string. These visual evaluations ensure that the integrity of the coating is fit for service. Field case studies have proven that proper coating evaluations and re-coating programs have enabled certain drill strings to drill up to 900,000 feet while maintaining pipe integrity.
**Single Source**

Tuboscope is the only oilfield hardbanding service company that offers a single source for wire manufacture, wire sales, new pipe application and reapplication worldwide. With mobile and fixed units strategically located around the world, TCS™ Hardbanding is available in all major oilfield markets.

**Benefits of TCS™ Casing Friendly Hardbanding**

- Superior casing wear protection
- Crack free
- Extremely low coefficient of friction
- Extended tool joint life
- High stress abrasion resistance
- No shielding gas required
- Unlimited reapplication in the field
- Superior adhesion means non-spalling

**Tungsten Carbide Hardbanding**

Tungsten carbide is the original drill pipe hard facing protection. Tuboscope still applies various mesh sizes of crushed and spherical tungsten that is extremely effective in bottom-hole assemblies which normally operate in an open hole environment. Most of our equipment is fully capable of servicing center wear pads.

**When and Where You Need It**

Combining qualified personnel with our mobile equipment turns your drill site into our work site. Tuboscope cuts the time necessary to get you back up and running by delivering hardbanding services on new or used drill pipe and heavy-weight/drill collars when and where you need it. In addition to the application of our proprietary hardbanding, we have the capability to apply most competitive hardband products.

Your single source for the most comprehensive package of oilfield tubular services - Worldwide
provide a package of drill string procurement and after sale services to manage the drill string throughout its life cycle. Tuboscope offers several options for comprehensive knowledge and trend analysis to optimize asset performance.

Sophisticated asset record management systems provide on the spot alerts for inspection frequency, hardband reapplication and coating performance. Tuboscope reports maximize drill pipe life cycle by providing real time data.

Tuboscope offers a range of full life cycle drill pipe management programs across the globe. Our TruData™ Inspection report can reduce risk by identifying operational problems, improper care and handling as well as helping to ensure the pipe is fit-for-purpose for the specific drilling application.

**Computerized Data Management Systems**

- Detailed reports
- In-depth analysis upon completion of job
- Innovative technologies used in data acquisition
- Complete premium pipe analysis
- Tool joint wear data
- Hardband and coating performance
- Recommended Repairs
- Historical inspection analysis
- Inventory management
- Purchase optimization

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Drill Pipe Machining Services

include Thread Repair, Tool Joint Rebuilding and Manufacturing of Subs with the most up-to-date CNC machinery, inspection and gauging practices. Tuboscope machine shops are strategically located in major oilfield markets around the world.

Manufacturing

- Licensed under API Spec. 7
- Manufacture of downhole tools
- Full line of mill certified sub stock

Tool Joint Rebuilding

is a unique process used to restore worn drill pipe tool joints, drill collars and heavy-weight drill pipe to original specifications and extend service life.

Rebuilding Process

- Tool joint evaluation
- Material applied
- Heat treated
- Turned to finished O.D.
- Employee training to API requirements
- Quality Assurance
- Brinell tested
- Connection re-cut
- Magnetic particle inspection
- Dimensional inspection
- Employee training to API requirements
- Quality Assurance
- Brinell tested
- Connection re-cut
- Magnetic particle inspection
- Dimensional inspection

Thread Repair

- Oilfield tubular and downhole tools
  - Rotary Shouldered connections
  - Premium connections
- Licensed to cut API and proprietary connections

Rig Component Inspection

Comprehensive Reporting

Non-destructive testing is essential to locate potential defects and excessive wear on drilling and production hoisting equipment. Tuboscope follows API recommended practices to ensure rig components are fit for service. Comprehensive reports for risk management programs are provided on rig elements which may include:

- Block-to-Hook Adaptor
- Crown Block
- Drawworks Brake System
- Drilling Hook
- Elevator
- Elevator Links
- Manual Tong
- Motion Compensator
- Rotary Swivel
- Top Drive
- Travel Block
- Wireline Anchor

We Know Drill Pipe — Inside and Out

tuboscopesales@nov.com

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Corporate Headquarters
7909 Parkwood Circle Drive
Houston, Texas 77036
United States

Tuboscope Headquarters
2835 Holmes Road
Houston, Texas 77051
United States
Phone: 346 223 6100