Coiled Tubing Products and Services
Quality Tubing has been the leader in coiled tubing manufacturing processes over the past 40 years. Our developments in the welding, manufacturing and testing of continuously-milled tubing result in the highest quality product created to your exact specifications. We deliver product on time that represents the highest standard of workmanship and value to you.

We are more than just a manufacturer of coiled tubing - we are your partner through the entire process. We service the industry with our growing network of service centers, supporting your global operations. Our regional service centers are stocked with finished goods that are targeted at reducing downtime for your projects around the world. We currently lead the coiled tubing industry in number of international service centers. As an additional service, we have established finished goods stocking points based on customer demand.

Product development

Our product development team works to continuously improve our products and our customer service. Partnering with our quality control lab, failure analyses are performed, free of charge, on customer tubing from the field and with short turnaround time compared to a third party lab. This gets answers to your operational problems and provides recommendations for remediation, getting you running again as quickly as possible.

We also perform low cycle fatigue testing on various tubing grades and dimensions with our two fatigue test machines. These tests are done in conjunction with CTES, a part of our Intervention and Stimulation Equipment business unit, to continuously improve Cerberus™ fatigue modeling software. Our metallurgists also work closely with Quality Tubing’s Welding School to develop and improve procedures and to train welders.

In addition to testing, we work closely with you before, during and after the sale to provide complete string design support and analysis for both land and offshore operations. We can also design and implement test plans for unique projects, perform tubing force analysis and assist with corrosion control and mitigation.

TRUE-TAPER

Originally developed by Quality Tubing in 2000, a TRUE-TAPER™ string is made up of individually tapered strips of steel, facilitating the welding of equal gauge material. This reduces stress concentrations, yielding improved fatigue performance.

Recently, we have worked closely with our steel suppliers to develop shorter TRUE-TAPER XR taper sections which allows us to more precisely distribute the string weight in the lateral. Horizontal wells with long laterals require heavy-wall tubing in the vertical section to beyond the heel into the lateral. Once in the lateral, the string wall transition needs to go from heavy-to-light wall as quickly as possible. Quicker transitions may also result in reduction of overall string weight, which is always welcome in today’s ever-changing and demanding market.

TRUE-TAPER XR is currently available for QT-900 through QT-1400 conventional grades and all ATP grades.

TRUE-TAPER Advantages

- Internal wall steps at the bias weld eliminated, producing a smoother ID
- Welding similar gauge material eliminates stress concentrations
- Higher usage to pipe in high-cycle and deviated well conditions due to fewer bias welds needed
- Achieve better reach in longer laterals
- Lighter overall string weight
Providing the strings you need for your applications

At Quality Tubing, we differentiate our work strings from our permanent installation strings by the applications they will be used for. Work strings are the coiled tubing strings that will be going in and out of the hole, creating fatigue, while permanent installation strings are used in production applications such as plunger lift, velocity strings or slimhole completions.

### Work Strings

#### QT-800

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 80,000 (552)
- Minimum Tensile Strength, psi (MPa): 90,000 (621)
- Maximum Hardness: 22 HRC

**Available Sizes**

- Outside Diameter: 1.750 - 2.875 in. (44.5 - 73.025 mm)
- Wall Thickness: 0.087 - 0.250 in. (2.2 - 6.35 mm)

#### QT-800

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 90,000 (621)
- Minimum Tensile Strength, psi (MPa): 100,000 (700)
- Maximum Hardness: 22 HRC

**Available Sizes**

- Outside Diameter: 1.750 - 2.875 in. (44.5 - 88.9 mm)
- Wall Thickness: 0.134 - 0.250 in. (3.4 - 6.35 mm)

#### QT-1400

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 100,000 (689)
- Minimum Tensile Strength, psi (MPa): 110,000 (758)
- Maximum Hardness: 28 HRC

**Available Sizes**

- Outside Diameter: 1.500 - 3.500 in. (38.1 - 88.9 mm)
- Wall Thickness: 0.087 - 0.203 in. (2.2 - 5.2 mm)

#### QT-1100

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 130,000 (896)
- Minimum Tensile Strength, psi (MPa): 135,000 (931)
- Maximum Hardness: 39 HRC

**Available Sizes**

- Outside Diameter: 1.750 - 2.875 in. (44.5 - 88.9 mm)
- Wall Thickness: 0.134 - 0.203 in. (3.4 - 5.2 mm)

#### QT-1300

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 100,000 (689)
- Minimum Tensile Strength, psi (MPa): 115,000 (793)
- Maximum Hardness: 22 HRC

**Available Sizes**

- Outside Diameter: 1.750 - 2.875 in. (44.5 - 88.9 mm)
- Wall Thickness: 0.134 - 0.203 in. (3.4 - 5.2 mm)

#### QT-16Cr

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 90,000 (621)
- Minimum Tensile Strength, psi (MPa): 110,000 (758)
- Maximum Hardness: 38 HRC

**Available Sizes**

- Outside Diameter: 1.250 - 2.875 in. (31.8 - 73.0 mm)
- Wall Thickness: 0.109 - 0.188 in. (2.8 - 4.8 mm)

#### QT-1300

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 130,000 (896)
- Minimum Tensile Strength, psi (MPa): 135,000 (931)
- Maximum Hardness: 39 HRC

**Available Sizes**

- Outside Diameter: 1.750 - 2.875 in. (44.5 - 88.9 mm)
- Wall Thickness: 0.134 - 0.203 in. (3.4 - 5.2 mm)

### Permanent Installation Strings

#### QT-16Cr

**Mechanical Properties**

- Minimum Yield Strength, psi (MPa): 90,000 (621)
- Minimum Tensile Strength, psi (MPa): 110,000 (758)
- Maximum Hardness: 39 HRC

**Available Sizes**

- Outside Diameter: 1.250 - 2.875 in. (31.8 - 73.0 mm)
- Wall Thickness: 0.109 - 0.188 in. (2.8 - 4.8 mm)

### Process and performance consistency improve your operations

Through years of research and development and strategic partnerships with leading providers of quench and tempered process equipment, we have developed the most consistent advanced thermally processed (ATP) coiled tubing. ATP coiled tubing offers a major advantage over conventional coiled tubing in a vast range of applications. The normalization of the bias weld to the parent material in ATP coiled tubing eliminates the bias weld fatigue spikes, which often are the cause of retirement in the conventional offering.

For more information about our ATP coiled tubing, please contact your Quality Tubing sales representative.
In order to continue expanding our customer partnerships, service centers have been strategically placed around the world. As an additional service, we have established finished goods stocking points based on customer demand. Our standards and specifications are upheld at all of our service centers. This standardization assures that you will receive the same level of quality and service as you would from our headquarters, while having a quicker response time in receiving the goods and services.

Finished Goods Inventory, Storage and Spooling*
We are increasing our consignment stock to provide you with faster turnaround time when you need it most. This stock is designed to meet your specific requirements in the particular geographic region of your operations, providing you immediate delivery and improving your operational efficiency. In addition to storing specific stock strings, we can store used strings and spare reels for future use. Whether you need a new string spooled on or an old one spooled off, spooling services are available at all of our service centers. During respooling, we lay tubing precisely next to the preceding wrap to maximize the amount of tubing on your reel.

Maintenance Programs and Preventative Measures*
It is widely acknowledged that regularly scheduled maintenance increases the reliability and longevity of your strings in addition to minimizing costly and disruptive downtime while on the job. We offer maintenance programs which extend your strings’ life expectancy and can detect possibly damaged or highly-fatigued areas of the string.

Special Projects*
We have the equipment and most experience to help with your special projects in a timely manner. These projects could include wireline installation, removal and inspection, concentric string arrangements and capillary installment.

String Repair and Welding*
For repairs, we work with you to determine how much tubing should be removed. Either a new section of like-grade tubing will be added or remaining sections will be joined together with a tube-to-tube weld. For welding needs in the field, we have a team of welders with a combined 45 years of service who can come to your site to support your needs.

Testing and Inspections*
Full-body electromagnetic inspection determines wall thickness and dimensional changes of the string. Visual and dimensional inspections detect outer surface problems by using calibrated micrometers and compression wave ultrasonic equipment. Tube-to-tube weld nondestructive testing is performed by radiographic, liquid penetrant inspection and ultrasonic inspection. Hydrostatic testing uses treated water and subsequent flushing in order to check weld seam integrity.

*Some services not available at all locations. For more information, contact your Quality Tubing sales representative.

qualitytubing@nov.com nov.com/qualitytubing

Leading number of international service centers and stocking points
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10462 v04

Corporate Headquarters
7909 Parkwood Circle Drive
Houston, Texas 77036
USA

Intervention and Stimulation Equipment
8017 Breen Road
Houston, Texas 77064
USA

Quality Tubing
10303 Sheldon Road
Houston, Texas 77049
USA

qualitytubing@nov.com nov.com/qualitytubing