



Detailed Technical Specification for Perforating Services

Wireline Convey

Titanium Tubing's Wireline and Perforating group offers our customers customized solutions to maximize production for more efficient pay—no matter where your field is in the well life cycle. Our innovative technologies, coupled with asset expertise from our highly specialized multidisciplinary engineers collaborating with your teams, help you gain deeper reservoir insight. We also bring expertise to diagnose, design, and deliver engineering perforating and well intervention solutions to maximize production from your reservoirs.

We promise to you is a relentless dedication to safety and service quality. Together, we will optimize productivity. Talk with us. See the difference.

Products Available

High Density Squeeze Gun

Weep Gun [1 to 2 Shots]

Expendable Thru Tubing Guns (RTG)

Expendable Retrievable Guns (ERHSC)

ERHSC Unscalped Seamed (ECO)

StimGun

Tractoring



Single gun wireline perforating operations

Features

- No electrical wiring
- No detonator to detonating cord crimping required
- Simple to use detonator
- Detonator is always shunted until properly armed
- Ideal for long gun strings with TCP transfer systems
- Arming procedures comply with API RP-67 electrical before ballistic arming (EBBA) recommendations

Titan Gun Systems, manufactures scalloped hollow carrier gun systems ranging from 1-3/8in (35mm) to 7in (178mm) gun diameter. They can accommodate super deep penetrating (SDP), good hole (GH) and big hole (BH) shaped charges including the latest PerFACTA® family of charges. [Click here for more information on PerFACTA charges.](#)

All Titan gun systems can be conveyed on wireline, slickline, TCP or coiled tubing utilizing the appropriate firing heads

Tubing Convey (TCP)

Titanium's Team uses the newest and most efficient technology available, we have industry known and highly experienced engineers that have worked with innovative TCP hardware solutions, that are cost effective and incredibly reliable. All assemblies are designed using a modular concept.

Mechanical / Hydraulic Firing Head

Pressure Release Sub (KOBE)

Mechanical Gun Release

Radioactive Marker Sub

Fill/Flow Sub

Hydraulic Tubing Drain

E-Coil Convey

Hz Perforating

Select Firing System

Oriented Perforating

Drop Bar Hydrostatic Firing Heads

Applications

- TCP perforating
- Underbalance and overbalance perforating
- Straight wells with deviation less than 55°

Features

- Designed to API RP-67 (Oilfield Explosive Safety) guidelines
- Impression pad can confirm drop bar impact
- High pressure version available
- Firing head extensions offered upon request Roller drop bars available for high deviation wells
- Redress kits
- Simple, reliable and rugged design

Direct Pressure Firing Heads

Applications

- TCP and coiled tubing perforating



- Underbalance and overbalance perforating
- Highly deviated and horizontal wells
- Extreme slim hole perforating (1.315" tubing)

Features

- Utilizes industry leading precision shear pins
- Can be run on top or bottom of Titan guns
- Designed to API RP-67 (Oilfield Explosive Safety) guidelines
- Redress kits
- Simple, reliable and rugged design

Ball Drop Hydraulic Actuated Firing Head

Applications

- Coiled tubing or TCP perforating
- Overbalance and underbalance perforating
- Highly deviated and horizontal wells
- Wells with existing perforations
- Well abandonment

Features

- Can circulate before and after perforating
- Designed to API RP-67 (Oilfield Explosives Safety) guidelines

Dual Top Firing Head

Applications

- TCP perforating
- Permanent completions

Features

- Designed to API RP-67 (Oilfield Explosive Safety) guidelines
- Uses existing Drop Bar and Direct Pressure Firing Head components

Dual Top Annulus Differential Pressure Firing Head

Applications

- TCP perforating operations
- Drillstem Testing (DST) operations
- Conducting TCP operations in wells with open perforations
- Underbalance perforating

Features

- Packer must be correctly set to achieve initiation
- Designed to API RP-67 (Oilfield Explosive Safety) guidelines
- Uses existing Drop Bar and Direct Pressure Firing Head comp Independent firing systems ideal for permanent completions jobs

E-Coil Convey

Titanium has been a leader in E coil perforating and has completed successfully over 1100 wells

Hz Perforating

Select Firing System

Oriented Perforating