



TRI CON

NON-THREADED HDD DRILLING SYSTEM

**MELFRED
BORZALL**

CONNECTING THE FUTURE OF HDD

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INTRODUCING THE TRI-CON

Non-threaded Drilling System For HDD

Tri-Con™ features an innovative, patent-pending design with a rounded triangular shape. It's shape efficiently transfers the rotary torque, but without the sharp corners and stress concentrations of splined connections. The Tri-Con™ shape has shown longer life than other non-threaded connection types.

TRI-CON™ SYSTEM FEATURES:

- Faster & easier to swap out tooling for a pilot shot or pullback — *no extra specialty tooling required*
- Ability to ream & pullback directly from the transmitter housing
- Transmitter housing has a standard API connection for quick-connect systems
- Eliminate the need for starter rods and adapters in some applications



DESIGNED FOR UP TO 30,000-POUND CLASS RIGS *

Versatile tooling options:

- 2-1/8" & 2-5/8" Connection size options
- 2-3/4" & 3-1/4" diameter housing options
- SubSite® or Digitrak™ transmitter compatibility options for transmitter housings
- 4-1/4" to 5" Iron Fists & 3-1/2" to 5" Eagle Claws*
- Bit bodies with our patented Pit Bull option for use with Pit Bull blades
- Compact Tornado & Sabertooth-style reamers
- Compact packer & swivel adapter
- Numerous pulling eye & adapters options to optimize compatibility with existing reamers & housings

*2-1/8" (-76) Designed for use with rigs rated up to 10,000 lbs. 2-5/8" (-77) Designed use with rigs rated up to 30,000 lbs. 3-1/2" Eagle Claw only available in (-76) connection.



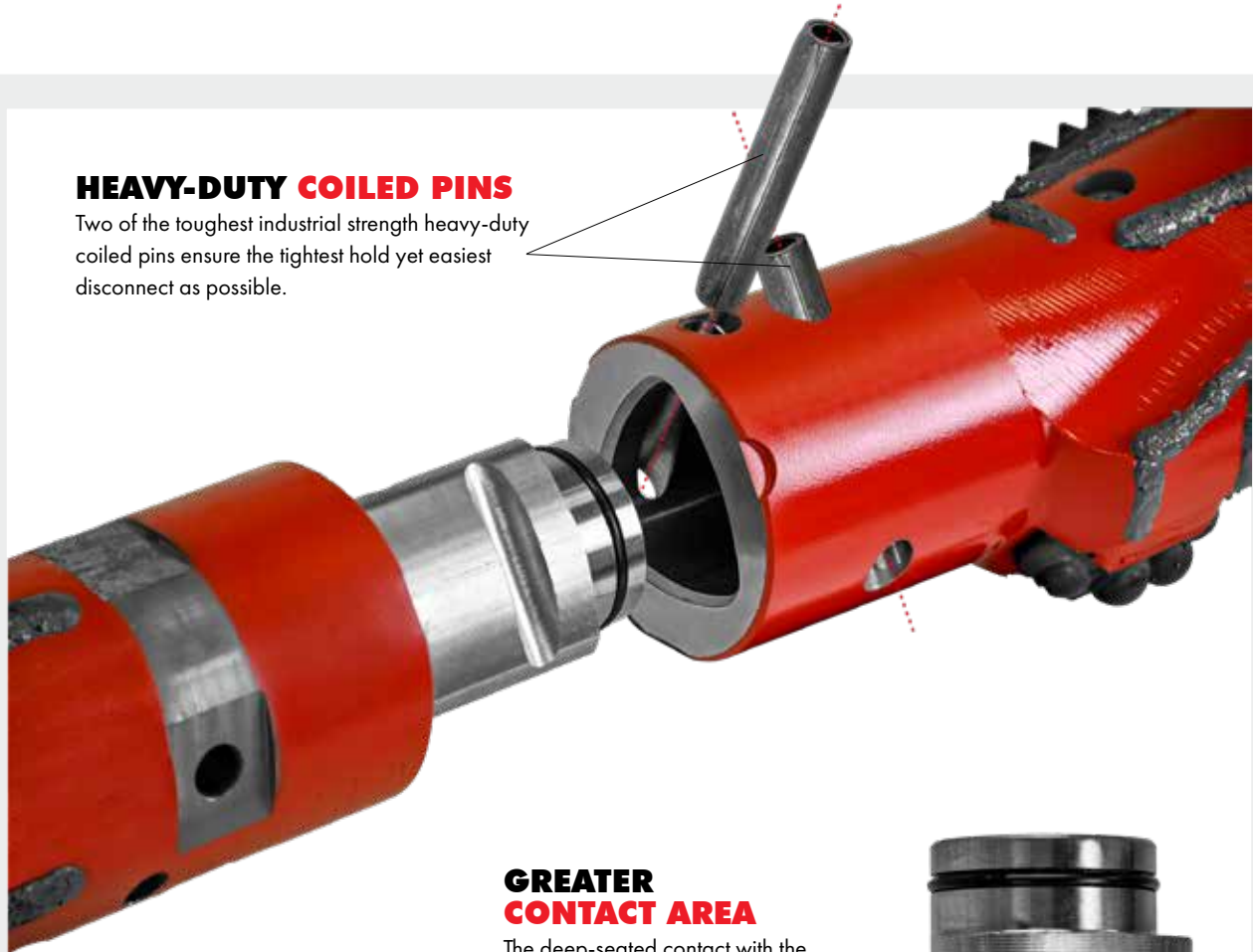
The Tri-Con Connection is Patent Pending



CONNECTING THE FUTURE OF HDD

HEAVY-DUTY COILED PINS

Two of the toughest industrial strength heavy-duty coiled pins ensure the tightest hold yet easiest disconnect as possible.



GREATER CONTACT AREA

The deep-seated contact with the body provides a more stable hold than many other systems.



ROUNDED CORNERS = LESS STRESS

There are less sharp edges or right angles that often contribute to stress fracture points which means longer drilling with less downtime.



TRI-CON SD HOUSINGS

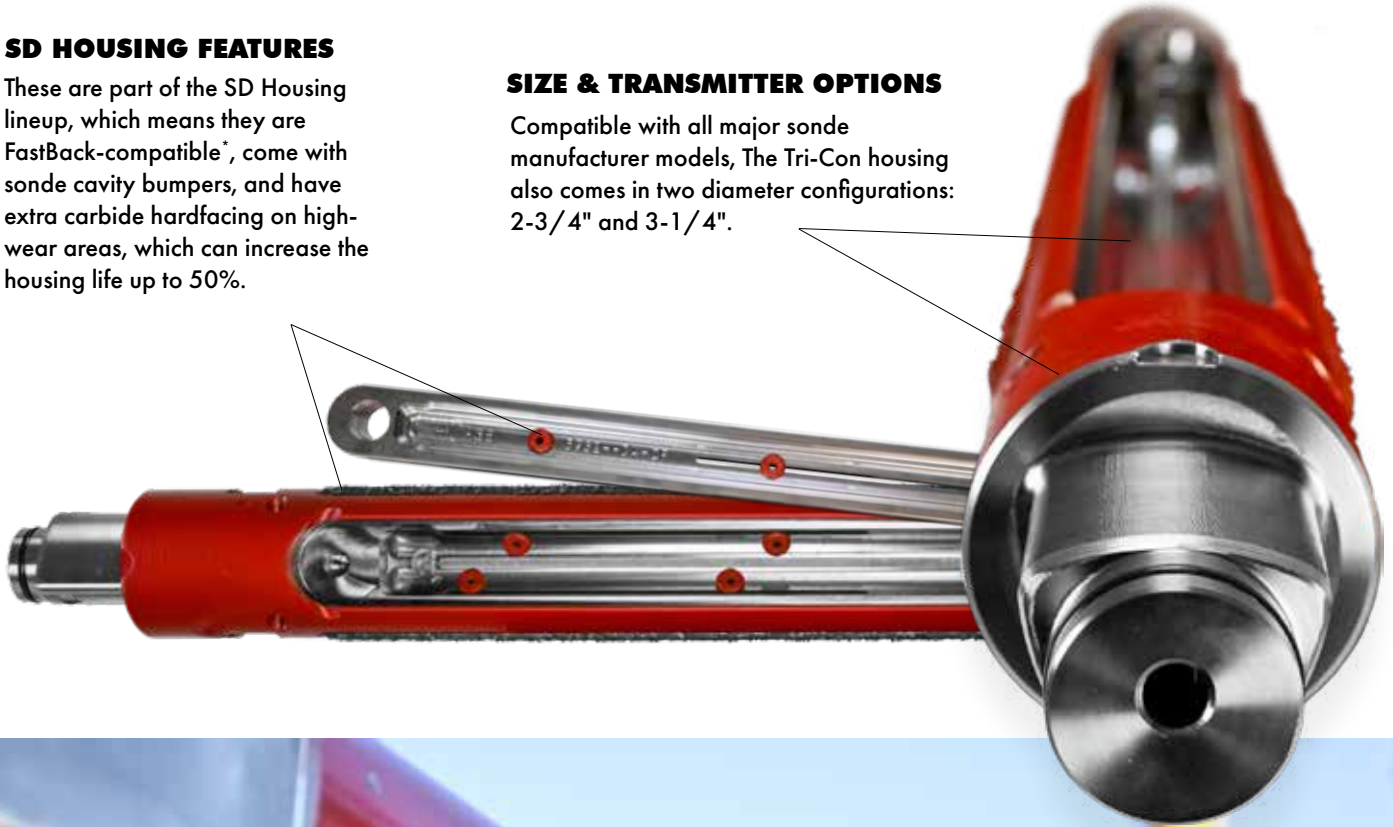
Compatible With Subsite[®], DigiTrak[™] & Underground Magnetics[™].

SD HOUSING FEATURES

These are part of the SD Housing lineup, which means they are FastBack-compatible*, come with sonde cavity bumpers, and have extra carbide hardfacing on high-wear areas, which can increase the housing life up to 50%.

SIZE & TRANSMITTER OPTIONS

Compatible with all major sonde manufacturer models, The Tri-Con housing also comes in two diameter configurations: 2-3/4" and 3-1/4".





FASTER PILOT BORES

When time = production costs, speed matters. Tri-Con's patent-pending quick bit connection for Eagle Claw and Iron Fist bits can decrease breakout & make-up time, and our bit bodies provide versatility. Convert the housing to a bolt-on in a snap when a job's ground condition calls for a directional blade.

QUICKER BACKREAMING

Traditional backreaming is much faster without having to thread heavy reamers. We have engineered special compact-style reamers that are patterned after our best-selling Tornado & Sabertooth reamers. There is also a hardfaced-only (toothless) packer option for swabbing the hole.



DIRECT PULLBACK

There's no question that direct pullback will decrease your production time if the job condition's allow. Our Tri-Con™ transmitter housings* are FastBack® System ready to attach cutter blocks and go! Don't forget to add a Tri-Con™ pulling eye to your next order with your Melfred Borzall salesperson!

*FastBack System cutter blocks are compatible with the 2-5/8" (-77) Tri-Con housings only.



TRI-CON PULLBACK

Connect Directly To The Tri-Con Housing & Pullback In A Flash With These Newly-Designed Compact Reamers*, Adapters & Packers.

SABERTOOTH REAMER



The Sabertooth reamer is the go-to option when needing more bite than a packer. This compact version does not scrimp on teeth with conical carbide teeth and waterjet holes to keep those cuttings moving downhole.

TORNADO REAMER



We've taken Melfred Borzall's #1 reamer and compacted it into a single phase reamer for the Tri-Con connection. You'll want this if you are trying to mix and pump those cuttings downhole in unstable soils.

THE PACKER



This Tri-Con packer is great for swabbing the hole during your pullback process. With chunky hardfacing protecting all high-wear areas, this will be your new go-to for fast packing on pullback.

SWIVEL ADAPTER



Why purchase an adapter & swivel when you can get them together? This 10-ton (20,000lbs) swivel adapter shortens the distance between the package and the pullback tooling.



LOOKING FOR A SIMPLER PULLBACK OPTION?

Try one of the various TRI-CON™ pulling eyes that are compatible with our HDD Swivels. For more information about sizes and swivel capacity, visit

www.melfredborzall.com/triconadp

*Tri-Con™ connection coiled pins (CP-050-250-HD) and punch tool (PUNCH-RP-044) sold separately.
Maximum recommended reamer size for current Tri-Con connections is 10" diameter.

