



# HDD TCI Tricone Bit with edge guard and shirrtail protection

## Prime Horizontal

Bringing innovative materials and design techniques to a field-proven design configuration, the sintered tungsten carbide delivers improved ROP, durability, and bit life in a wide range of horizontal directional drilling applications.



### 17 1/2" (444.5 mm) Sintered TCI Bit (IADC 535) Features

#### Engineered Cutting Structure

Medium extension chisel inserts make this bit ideal for drilling where hard streaks are encountered. Designed aggressively enough to maintain high penetration rates and durable enough to drill harder streaks without damage.

#### Premium Bearing Package

High performance roller bearing with crowned rollers and thrust buttons, advanced lubricant, and HSN O-ring seal provides a robust bearing package for both motor and standard rotary applications.

#### Shirrtail Protection

Special shirrtail edge contouring around the seal area prevents shale packing and prolongs bearing life. A very generous application of hardmetal applied to the shirrtail edge and leading edge of the bit leg. Hardmetal and ovoid shaped tungsten carbide inserts up the leg and below the reservoir provide near gage stabilization and enhanced performance in directional applications or where hole swelling is a factor.



#### Specifications

Gage Inserts:	63	Hydraulic Design:	V-jet™ Nozzles and Center Jet	Operating Parameters
Total Inserts:	267	Nozzle Part No.:	10735	<b>Rotary Speed:</b>
Back Row:	SRT	Center Jet Part No.:	12400	For all rotary and motor applications
Gage Row:	Chisel	Pin Connection:	7 5/8" API Regular	<b>Max weight on bit:</b>
Inner Row:	Chisel	Make-up Torque:	34,000 – 40,000 ft-lbs (46,098 – 54,233 Nm)	87,500 lbs (38,922 daN)
Bearing Type:	Sealed Journal	Approx. Weight:	489 lbs. (222 kg)	<b>Flowrate, Min:Max:</b>
Seal Type:	HSN O-Ring			700 – 1,490 Gpm (2.65 – 5.64 m³/min)

\*Operating parameters shown are typical for the bit type specified. For recommendations on your specific application, please contact our DownHole representative.



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