



TCI Cutters – Segments

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 Cutter (IADC 435) Features

Engineered Cutting Structure

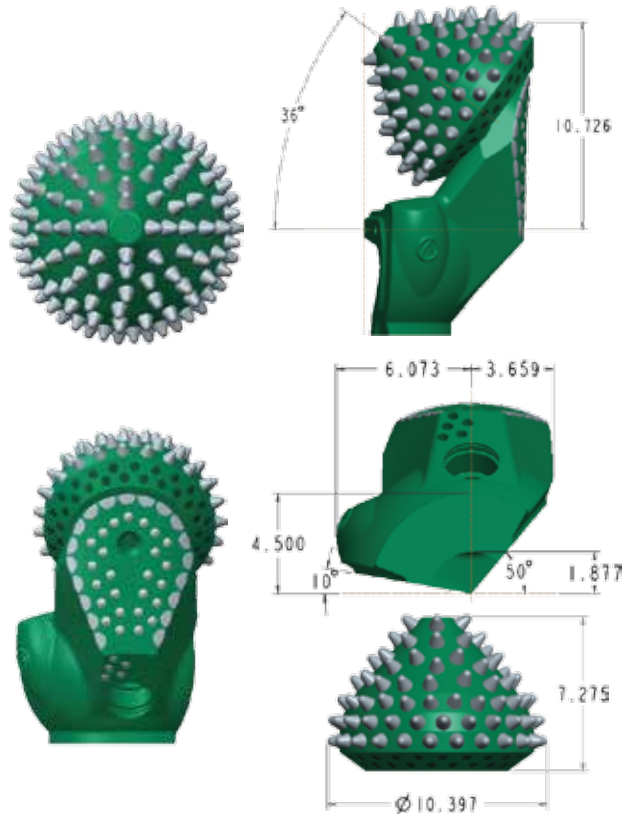
Maximum extension inserts provide for ultra high rates of penetration. Reinforced double back row provides enhanced gage holding

Premium Bearing Package

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

Shirrtail Protection

Includes Varel's unique, patented EdgeGuard technology on leading and trailing edges. This technology puts the wear resistance of sintered tungsten carbide at the most critical point of the shirrtail, protecting the edge from wear to better exclude drilling fines from the critical seal area.



Specifications

Gage Inserts:	23	Hydraulic Design:	None	Operating Parameters
Total Inserts:	113	Nozzle Part No.:	As requested	
Back Row:	Flat	Center Jet Part No.:		250– 300 rpm
Gage Row:	Conical	Pin Connection:	None	Max weight per cutter:
Inner Row:	Conical	Make-up Torque:	0 - 0 ft-lbs. (0 - 0 Nm)	23,000 lbs (10,231 daN)
Bearing Type:	Sealed Journal			Cutter:
Seal Type:	HSN O-Ring	Approx. Weight:	180 lbs. (82 kg)	-

*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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