

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.

12 1/4" (311.2 mm) Sintered TCI Cutter (IADC 427) Features
Engineered Cutting Structure

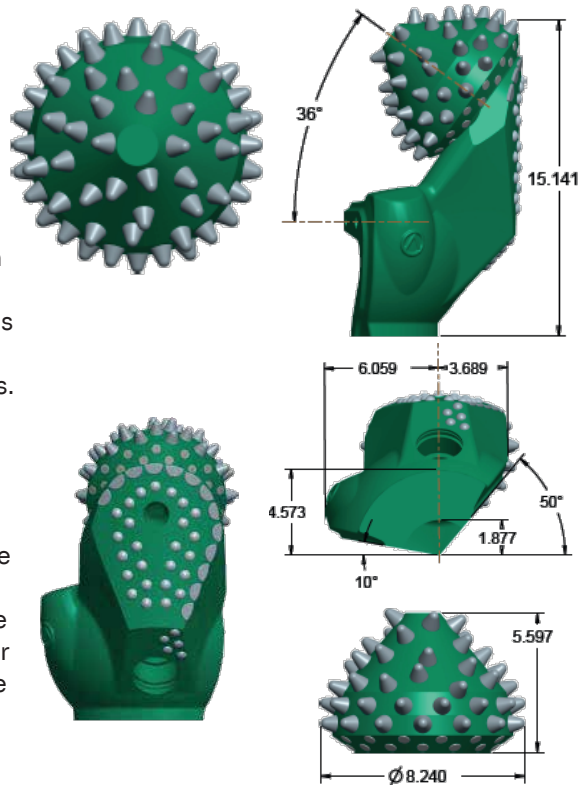
Maximum extension inserts provide for ultra high rates of penetration. Reinforced double back row provides enhanced gage holding

Premium Bearing Package

High performance journal bearing with silver plated elements, advanced lubricant, and HSN O-ring seal provides a robust bearing package for both motor and standard rotary applications.

Shirttail 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 shirttail, protecting the edge from wear to better exclude drilling fines from the critical seal area.


Specifications

Gage Inserts:	14	Hydraulic Design:	None	Operating Parameters
Total Inserts:	58	Nozzle Part No.:	As requested	
Back Row:	Flat	Center Jet Part No.:		Cutter (RPM):
Gage Row:	Conical	Pin Connection:	None	100 - 250 rpm
Inner Row:	Conical	Make-up Torque:	0 - 0 ft-lbs. (0 - 0 Nm)	Max weight per cutter:
Bearing Type:	Sealed Journal	Approx. Weight:	110 lbs. (50 kg)	16,000 lbs (7,117 daN)
Seal Type:	HSN O-Ring			Cutter:
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*Operating parameters shown are typical for the bit type specified. For recommendations on your specific application, please contact our DownHole representative.