

DESIGN SPECIFICATION

Type:	Tri-cone
Bearing Type:	Air Circulation
Configuration:	Roller-Ball-Roller
Cutting Structure:	TCI
Gage Rows:	Jet
Inner Rows:	Jet
Nose Rows:	Jet/Bullet
Bevel Rows:	Flat
Head Type:	Full Armor
Hardfacing:	Standard
Armor:	Round (TCI)
Head Feature:	Fluid Dynamic Profile
Bit Connection:	4 1/2" Reg. API
Circulation Type:	Jet Nozzle
Bit Weight:	95 lbs / 43 kg

GENERAL OPERATING PARAMETERS

Rotary Speed:	50 – 100 rpm
Weight on Bit:	5,000 – 20,000 lbs

DRILLING APPLICATION

PDB Tools Inc. provides advanced technical products and solutions for the mining, exploration, construction, water well, oil and gas industries. PDB Tools introduces the new Steel and TCI carbide cutting structure combination. Our patent pending design coupled with our latest manufacturing process allows the development of The **STEEL** product line. New Jet shaped inserts are an addition to strengthen carbide, and produce higher insert projection. The newest introduction of the **9" ST21** blasthole bits delivers drilling capabilities to a wide range of formation. IADC range from the 20 to 40 type rock, includes drilling soft to medium formations, with rock compressive strength ranging from 0 to 18,000 psi. The **STEEL** product line requires less power and rpm to produce faster penetration and longer life.

Innovation, Performance and Value

