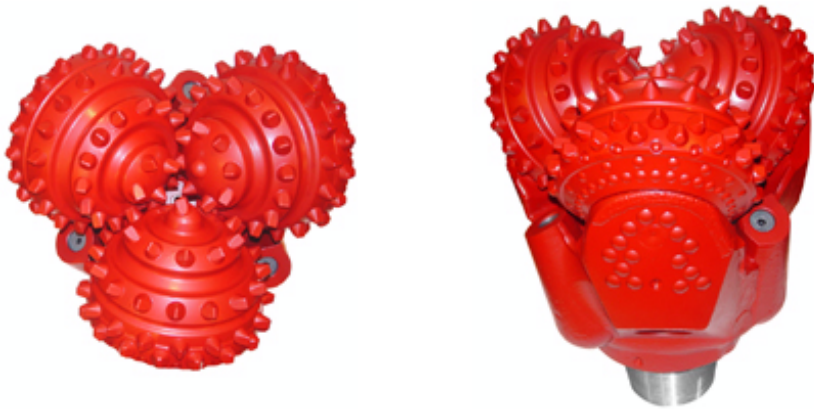


Product Report



Pictures may not show every (all) optional feature (s) on actual bit

17 1/2" T51APC

Design Features of this bit

Precision Logarithmic Roller Bearing

Precision ground, premium logarithmic rollers with fully encapsulated ball bearing retention and silver plated thrustwasher. Delivers maximum bearing life in large diameter bits.

Texturized Radial Seal - HNBR

The radial seal geometry designed for large diameter roller bearing bits. A texturized pattern at the seal interface captures lubricant reducing torque and heat generation - extending seal life.

Silver-Plated Thrustwasher

A floating silver-plated stellite washer located between lug and cutter thrust bearing surfaces provides reduced operating temperatures and more consistent bearing performance.

MudPick II® Hydraulics

Patented nozzle design directing a sweeping fluid flow directly into the cutting path at the formation failure zone. The most aggressive hydraulic arrangement to maximize cleaning and ROP.

GageGuard™

Additional row of protruding inserts located between gauge row teeth providing superior gauge protection.

MatchFit™ Insert Retention.

Patented process that captures entire insert shank, improving insert retention especially with large diameter inserts.

General Data

IADC Code	515M
Bearing Type	Roller
Seal Type	RADIAL-TEXTURIZED-HNBR
Journal Angle	33°
Cone Skew	3°

Cutting Structure

Gauge Row Inserts

Count	57
Shape	Flat Top Chisel Formed Gage

Main Row Inserts

Shape	Flat Top Chisel
Total Count	182

API Pin Size (ins)	7.625"
Maximum make-up Torque (ft-lbs)	40000
Shipping Weight (lbs)	625
Nozzle Code	D
Center Jet	Y
Bit Length (ins)	15.390

Recommended Operating Parameters

Weight on Bit Range

Max (klbs)	70
Min (klbs)	15
Max (tonne)	32
Min (tonne)	7
Rotary Speed (RPM)	450 - 60

Additional Information

Min Annular Area (in ²)	85.30
Bit Breaker	151862

In some applications this bit is run successfully beyond these parameters. Contact your NOV Downhole Representative for recommended operating parameters in your application. NOV Downhole reserves the right to revise these specifications, based on advances and improvements in technology.

This report is valid for 30 days from 16-May-2012