

# PATRIOT

## Technical Datasheet

### 20" LDP545G

508 mm  
Assembly #R10236  
IADC 545



#### Application

PATRIOT series bits provide excellent steerability and high rates of penetration, even when weight on bit is limited. The bearing provides long, reliable performance in deep hole, long reach sections where high RPMs in motor applications are commonly encountered.

#### Product Specifications

Gage Inserts:	77
Total Inserts:	304
Heel Row:	SRT
Gage Row:	Ovoid
Inner Row:	Chisel
Bearing Type:	Sealed Roller
Bearing Seal Type:	HSN O-Ring
Fluid Circulation:	Reverse Circulation Mud
Nozzle Part No.:	N/A
Center Jet Part No.:	4" Center Bore
Pin Connection:	8 5/8 in H90
Approx. Weight:	750 lbs (340.9 kg)

#### Operating Parameters

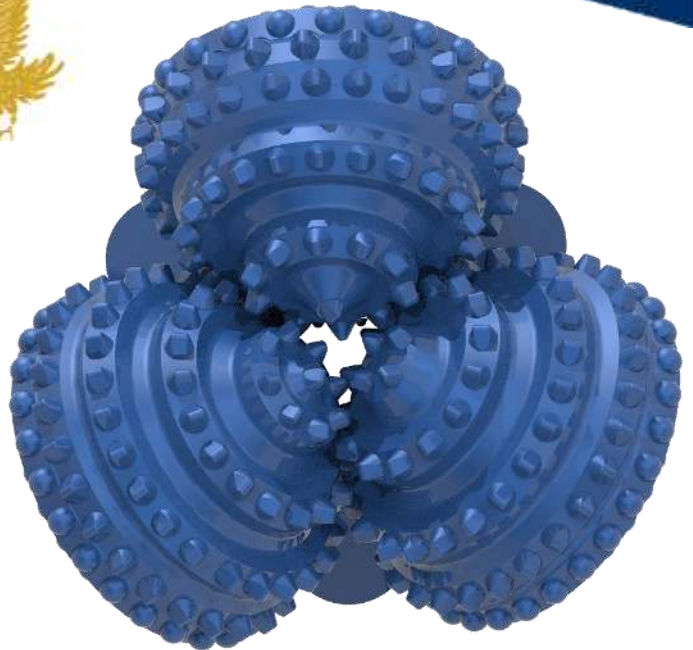
Rotary Speed:	For all rotary and motor applications
Flowrate Min-Max:	800-1700 gpm (3.03-6.44 m <sup>3</sup> /min)
Max WOB:	100,000 lbs (44482 daN)
Make-up Torque:	34000-40000 Ft-Lbs (46098-54233 Nm)

\*Operating parameters shown are typical for the bit type specified. For recommendations on your specific application, contact your Varel Energy Solutions representative.

#### Features

**G**

A combination of shirttail hardfacing and tungsten carbide inserts on the leg to provide protection to the bit and bearing.



**O-K BIT  
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LINCO DRILLING PRODUCTS

