

# PATRIOT

## Technical Datasheet

### 4 7/8" LDP537G

123.8mm  
Assembly #R10186  
IADC 537



### 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:	41
Total Inserts:	115
Heel Row:	Flat
Gage Row:	Chisel
Inner Row:	Chisel
Bearing Type:	Sealed Journal
Bearing Seal Type:	HSN O-Ring
Fluid Circulation:	3 Nozzles with Snap Rings
Nozzle Part No.:	5940
Center Jet Part No.:	N/A
Pin Connection:	2 7/8 in API Regular
Approx. Weight:	15 lbs (6.8 kg)

### Operating Parameters

Rotary Speed:	For all rotary and motor applications
Flowrate Min-Max:	190 - 405 gpm (0.72-1.53 m <sup>3</sup> /min)
Max WOB:	30875 lbs (13734 daN)
Make-up Torque:	4500-5500 Ft-Lbs (6101-7457 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.