



Product Data Sheet

7-7/8" M546XB (Patent Pending)



Design Features:

- Patent Pending discontinuous blade design allows increased nose protection without increasing blade count.
- Split blade design creates stability of a 6 bladed bit to minimize "walk" tendencies of typical 4 bladed bits.
- Split blade design allows for very effective removal of cutting and efficient nozzle positioning.
- Cast Infiltrated Tungsten Carbide matrix shell for maximum erosion and abrasion resistance.
- 3D designed and CNC machined internal steel blank for maximum blade and body strength.
- Optimized parabolic profile for blade count, cutter quantity and bit stability.
- Force-Balanced PDC cutter locations minimize bit whirl and drill a precise round hole.
- Asymmetric blade design reduces drilling harmonics.

General Data

Part Number	2009737
Body Type	Matrix Body
Gage Length	1.13 in.
Overall Length	14.85 in.
Shipping Weight	TBD

Cutting Structure

Face Cutters	21 @ 16mm PDC
Back-Up Cutters	15 @ 13mm PDC
Gage Cutters	12 @ 13mm PDC

Connection

Pin Connection	4-1/2" API Regular
Fishneck Diameter	5.75 in.
Fishneck Length	4.95 in.
Make-Up Length	10.67 in.
Make-Up Torque	16,500 to 18,100 ft/lbs

Hydraulics

Nozzle Type	6 @ MOP Nozzle
TFA (min - max)	0.46 in ² to 1.18 in ²

Recommended Operating Parameters

Weight on Bit (WOB)	4,000 to 20,000 lbs.
Rotary Speed (RPM)	60 to 150 RPM