



Product Data Sheet

7-7/8" M557



Design Features:

- 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.
- TSP Diamond enhanced gage pads for maximum protection.
- 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	2009803
Body Type	Matrix Body
Gage Length	1.13 in.
Overall Length	14.19 in.
Shipping Weight	TBD

Cutting Structure

Face Cutters	25 @ 16mm PDC
Back-Up Cutters	n/a
Gage Cutters	5 @ 13mm PDC

Connection

Pin Connection	4-1/2" API Regular
Fishneck Diameter	5.75 in.
Fishneck Length	4.95 in.
Make-Up Length	10.00 in.
Make-Up Torque	16,500 to 18,100 ft/lbs

Hydraulics

Nozzle Type	7 @ LOP Nozzle
TFA (min - max)	0.54 in ² to 2.15 in ²

Recommended Operating Parameters

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