



Product Data Sheet

7-7/8" RMB M546X

Matrix Bit Body Material:

- Cast infiltrated Tungsten Carbide matrix shell for maximum erosion and abrasion resistance.
- Internal steel blank is extensively machined for maximum blade and body strength.
- Gage Pads have TSP's for maximum protection.

Parabolic Profile:

- Increased stability due to internal cone and multiple radii outer shoulder.
- Maximum cutter distribution is achieved across nose and shoulder of profile.

Asymmetric Force Balance Design:

- Cutter layout is force balanced to drill a precise round hole and reduce bit whirl.
- Cutter blades are asymmetric (not evenly spaced) due to force balance.



Bit Body Material	TC Matrix
Gage Type	TSP
Face PDC Cutters	22 @ 5/8" (16 mm)
Back-Up PDC Cutters	12 @ 1/2" (13 mm)
Gage PDC Cutters	4 @ 1/2" (13 mm)
Number of Fluid Ports	6 @ LOP Nozzles
TFA (min – max)	0.46 in ² - 1.84 in ²
Gage Length	1.38 in.
Fishing Neck O. D.	5.75 in.
Fishing Neck Length	4.95 in.
Make-Up Length	10.44 in.
Overall Length	14.63 in.
Pin Connection	4-1/2" API Regular

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