



## Product Data Sheet

# 6-1/2" M566

### 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	21 @ 5/8" (16 mm)
Back-Up PDC Cutters	n/a
Gage PDC Cutters	6 @ 1/2" (13 mm)
Number of Fluid Ports	6 @ MOP Nozzles
TFA (min – max)	0.46 in <sup>2</sup> - 1.18 in <sup>2</sup>
Gage Length	1.38 in.
Fishing Neck O. D.	4.75 in.
Fishing Neck Length	4.07 in.
Make-Up Length	8.43 in.
Overall Length	12.12 in.
Pin Connection	3-1/2" API Regular