



## Product Data Sheet

# 12-1/4" S657X

### Steel Bit Body Material:

- Extended blade height for softer formations.
- Carbide hardfacing for abrasion and erosion resistance.
- Excellent strength and ductility.
- Reduced vibration and shock.
- Increased PDC cutter life.

### 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	4140 Alloy Steel
Gage Type	TC Inserts
Face PDC Cutters	35 @ 3/4" (19 mm)
Back-Up PDC Cutters	15 @ 5/8" (16 mm)
Gage PDC Cutters	5 @ 1/2" (13 mm)
Number of Fluid Ports	7 @ LOP Nozzles
TFA (min – max)	0.54 in <sup>2</sup> - 2.15 in <sup>2</sup>
Gage Length	2.50 in.
Fishing Neck O. D.	8.00 in.
Fishing Neck Length	6.49 in.
Make-Up Length	14.64 in.
Overall Length	19.58 in.
Pin Connection	6-5/8" API Regular