



# Product Data Sheet

## 14-3/4" S579



### Design Features:

- 3D designed 4140 alloy steel body CNC machined for maximum blade and body strength.
- Tungsten Carbide hardfacing in critical areas for increased erosion and abrasion resistance.
- TCI enhanced gage pads for increased 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	2010958
Body Type	Two-piece 4140 Alloy Steel
Gage Length	2.70 in.
Overall Length	22.49 in.
Shipping Weight	463 lbs.

### Cutting Structure

Face Cutters	78 @ 16mm PDC
Back-Up Cutters	21 @ 13mm Dome TCI
Gage Cutters	14 @ 13mm PDC

### Connection

Pin Connection	6-5/8" API Regular
Fishneck Diameter	11.50 in.
Fishneck Length	8.03 in.
Make-Up Length	17.31 in.
Make-Up Torque	38,000 to 41,800 ft/lbs

### Hydraulics

Nozzle Type	9 @ LOP Nozzle
TFA (min - max)	0.69 in <sup>2</sup> to 2.76 in <sup>2</sup>

### Recommended Operating Parameters

Weight on Bit (WOB)	5,000 to 30,000 lbs.
Rotary Speed (RPM)	60 to 150 RPM