



Design Specifications

Make up Length (ft):	.86
Shank Bore (ins):	2.250
Shank Diam (ins):	6.372
Connection std:	Y
Connection Size(ins):	4.5
Connection Type:	REG PIN
Make up Torque (ft-lbs):	18000 - 20000
IADC Code:	M333
Diameter:(ins)	8 3/4"
Body Material:	MATRIX-TMS
JSA(in²):	15.260
Face Volume:(in³)	60.76
Normalised Face vol:	44.53%
Blade Qty:	6
Gauge Length:(ins)	3.000
Gauge Geometry:	Spiral-Trailing
Gauge Profile:	SmoothSteer
Bit Profile:	Medium Taper - Shallow Cone

Recommended Operating Parameters

Max Operating WOB (klbs):	39
Min TFA (in²):	0.2946
Max TFA (in²):	1.1778
Max Flow (gpm):	518
HSI:	2-7
Bit Breaker:	Thick 1½"
Variant:	P1

Nozzles & Ports

Qty	Type	Size
6	C55	VARIABLE

Design Features

- Tektonic™ Drill Bits
- Polished PDC Cutters
- Forward Rake Blade Geometry
- Optimized Blade Spiral
- Dynamic Rotation Bit Modelling
- Advanced Fluid Flow Modelling
- Blade Front PDC Exposure
- Ballistic Waterway Profile
- HDI - High Density Impregs
- 3D Shaped Cutters
- SmoothSteer™ Gauges
- DiamondBack™ cutters

Cutting Structure

Type	Qty	Location	Diameter	Shape
Primary	19	FACE	13 mm	3D IMPACT
Primary	18	FACE	13 mm	IMPACT
Primary	12	GAGE	13 mm	CYLINDER
Primary	6	BACK-ANGLE	13 mm	CYLINDER
Secondary	15	FACE	13 mm	3D IMPACT
Hybrid	6	FACE	14 mm	FLAT TOPPED
Hybrid	6	GAGE	14 mm	FLAT TOPPED