



Design Specifications

Make up Length (ft):	1.18
Shank Bore (ins):	3.000
Shank Diam (ins):	8.000
Connection std:	Y
Connection Size(ins):	6.625
Connection Type:	REG PIN
Make up Torque (ft-lbs):	41000 - 45500
IADC Code:	M323
Diameter:(ins)	12 1/4"
Body Material:	Matrix HDK
JSA(in²):	33.020
Face Volume:(in³)	180.17
Normalised Face vol:	43.48%
Blade Qty:	6
Gauge Length:(ins)	4.000
Gauge Geometry:	Spiral-Trailing
Gauge Profile:	SmoothSteer
Bit Profile:	Medium Taper - Shallow Cone

Recommended Operating Parameters

Max Operating WOB (klbs):	55
Min TFA (in²):	0.2946
Max TFA (in²):	2.2272
Max Flow (gpm):	934
HSI:	2-7
Bit Breaker:	Thick 1 1/2"
Variant:	R1

Nozzles & Ports

Qty	Type	Size
6	TNZ	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
- HDI - High Density Impregs
- 3D Shaped Cutters
- ION™ PDC Cutters
- SmoothSteer™ Gauges

Cutting Structure

Type	Qty	Location	Diameter	Shape
Primary	9	FACE	16 mm	3DR IP
Primary	37	FACE	16 mm	IMPACT
Primary	11	GAGE	16 mm	CYLINDER
Primary	6	BACK-ANGLE	13 mm	CYLINDER
Hybrid	11	FACE	14 mm	FLAT TOPPED
Hybrid	31	FACE	14 mm	FLAT TOPPED
Hybrid	6	FACE	14 mm	FLAT TOPPED