



Design Specifications

Make up Length (ft):	.85
Shank Bore (ins):	2.250
Shank Diam (ins):	6.370
Connection std:	Y
Connection Size(ins):	4.5
Connection Type:	REG PIN
Make up Torque (ft-lbs):	18000 - 20000
IADC Code:	M433
Diameter:(ins)	8 3/4"
Body Material:	Matrix CC
JSA(in²):	10.880
Face Volume:(in³)	51.05
Normalised Face vol:	40.80%
Blade Qty:	8
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):	0.3928
Max TFA (in²):	1.5704
Max Flow (gpm):	690
HSI:	2-7
Bit Breaker:	Thick 1½"
Variant:	A3

Nozzles & Ports

Qty	Type	Size
8	C55	VARIABLE

Design Features

- Tektonic™ Drill Bits
- Polished PDC Cutters
- 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
- DAG (Dual Action Gauge)
- SmoothSteer™ Gauges
- DiamondBack™ cutters

Cutting Structure

Type	Qty	Location	Diameter	Shape
Primary	8	FACE	13 mm	3D
Primary	36	FACE	13 mm	CYLINDER
Primary	10	GAGE	13 mm	CYLINDER
Primary	8	BACK-ANGLE	16 mm	CYLINDER
Secondary	23	FACE	13 mm	CYLINDER