



Cutting Structure

Type	Qty	Location	Diameter	Shape
Primary	27	FACE	13 mm	CYLINDER
Primary	7	FACE	13 mm	3D
Primary	12	GAGE	13 mm	CYLINDER
Primary	6	BACK-ANGLE	13 mm	CYLINDER
Secondary	15	FACE	13 mm	CYLINDER
Hybrid	6	FACE	14 mm	FLAT TOPPED
Hybrid	6	GAGE	14 mm	FLAT TOPPED

Design Specifications

Make up Length (ft):	.85
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:	M433
Diameter:(ins)	8 3/4"
Body Material:	Matrix CC
JSA(in²):	14.480
Face Volume:(in³)	59.91
Normalised Face vol:	43.90%
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):	2.2272
Max Flow (gpm):	934
HSI:	2-7
Bit Breaker:	Thick 1½"
Variant:	A1

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

Ballistic Waterway Profile

HDI - High Density Impregs

3D Shaped Cutters

SmoothSteer™ Gauges

DiamondBack™ cutters