



MAKING IT BETTER

By utilizing the Tercel GunDRILL Reamer the borehole is reamed to perfection, the BHA can be pulled to surface safely overcoming high torque, multiple sticking points and difficult intervals. In some situations it increases ROP due to smoother running in hole and casing / completions can be set to TD without issue.

Model Number: 83-BVDR-4-ST-HD, 4 Blades, String, Bi-directional Heavy Duty VDR, 8-3/8 inch tool

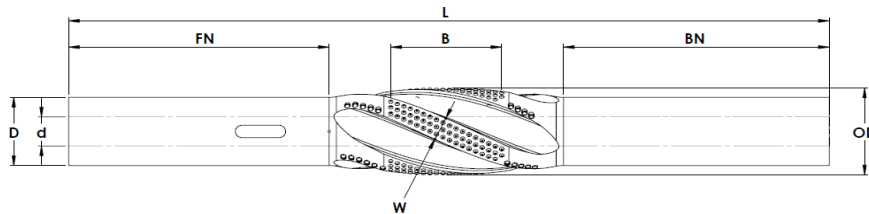
Dimensional Data	Value	Unit	Value	Unit
Tool Total Length (L)	82.500	inches	2,095.50	mm
Tool Gauge Diameter (OD)	8.375	inches	212.73	mm
Fishing Neck Length minimum (FN)	30.000	inches	762.00	mm
Bottom Neck Length minimum (BN)	25.000	inches	635.00	mm
Neck Diameter (D)	6.500	inches	165.10	mm
Tool Bore Diameter (d)	2.813	inches	71.44	mm
Wall Contact Length (B)	15.640	inches	397.26	mm
Weight (approx)	683	lbs	310	kg

Performance Measures

Cutting Direction	Bi-directional			
Cutting Elements	PDC Cutters			
Reaming Elements	Tungsten Carbide Inserts			
Coverage	360 degrees			
Blade Width (W)	1.750	inches	44.45	mm

TFA

Total Flow Area (TFA), tool full-gauge	14.068	sq inches	9,076	sq mm
Total Flow Area (TFA), tool 1/8" undergauge	15.725	sq inches	10,145	sq mm
Total Flow Area (TFA), tool 1/4" undergauge	17.406	sq inches	11,230	sq mm
Equivalent Drill Collar Size *	7.226	inches	183.55	mm
Helix Direction	Right			



* The equivalent drill collar size provides same TFA as calculated above
 Custom sizes available upon request
 Fishing neck length and overall length are approximate figures and may vary slightly
 Dimensions are subject to change without prior notice
 Flow by area based on hole size equal to tool OD
 Tercel drilling tools are designed and manufactured in conformance with API SPEC7-1 Latest Edition

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