

RipTide® Quattro Drilling Reamer 16500

Specifications

Overall length	A	20.72 ft (6.31 m)
Length with booster sub		16.17 ft (4.93 m)
Fishing neck length	B	2.00 ft (0.61 m)
Fishing neck OD	C	9.50 in.
Reamer body OD	D	16.00 in. (406.40 mm)
Distance from bottom sub pin to cutter blocks (open position)	E	6.00 ft (1.83 m)

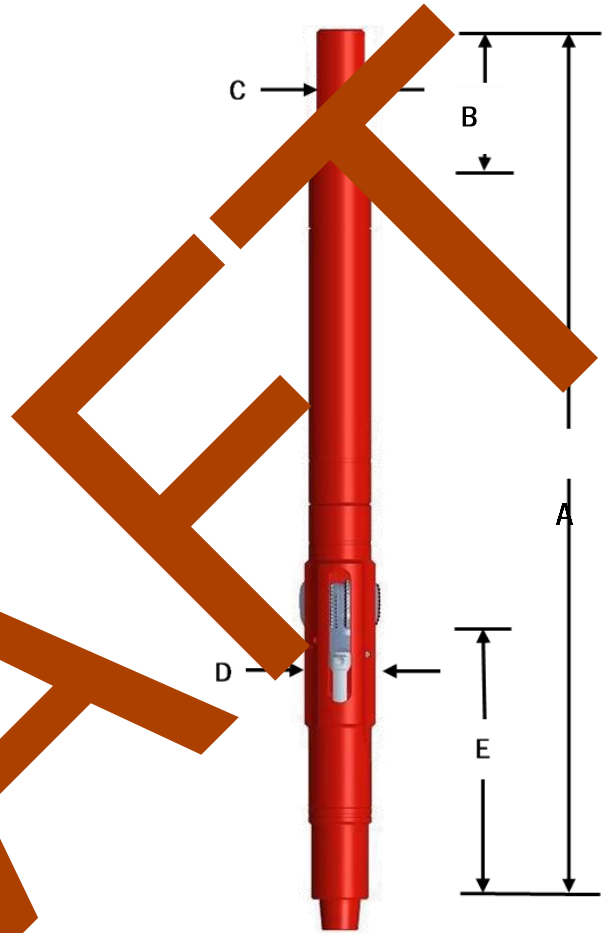
Additional Specifications

Maximum flow rate	2,000 gal/min (7,571 L/min)
Tensile yield	1,777,800 lbf (806,396 kgf)
Torsional yield	118,100 ft-lb (160,122 N-m)
Ball seat ID	2.25 in (57.15 mm)
Nozzle size in reamer, minimum and maximum	"7/32 to 16/32 in.
Maximum flow rate thru each nozzle ^a	(5.56 to 12.70 mm)"
Maximum flow rate thru all nozzles ^a	206 gal/min (779.8 L/min)
Top sub length	618 gal/min (2,320 L/min)
Top sub box up connection	3.00 ft (0.91 m)
Ball-drop controller OD	7-5/8 REG
Ball-drop controller length	10.25 in (260.4 mm)
Booster sub length (optional)	4.79 ft (1.46 m)
Reamer body length	4.55 ft (1.39 m)
Bottom sub OD	5.50 ft (1.68 m)
Bottom sub length	0.85 m
Bottom sub pin down connection	7-5/8 REG
Reamer assembly weight ^b	2,775 lb (1,259 kg)
Controller assembly with top sub	1570 lb (712 kg)
Activation ball size	2.5 in (63.50 mm)

^aThe flow rate is 75 ft/sec (22.9 m/s) at 1000 psi (68.9 bar).
^bThe reamer assembly weight does not include the weight of the cutter blocks.

Available Cutter Block Sizes

PDC	Pilot Hole	Opening Diameter
19.00 in. (482.6 mm)	19.00 in. (482.6 mm)	19.00 in. (482.6 mm)
20.00 in. (508.0 mm)	19.25 in. (489.1 mm)	20.00 in. (508.0 mm)
21.00 in. (533.4 mm)	19.50 in. (495.3 mm)	21.00 in. (533.4 mm)
22.00 in. (558.8 mm)	19.75 in. (501.6 mm)	22.00 in. (558.8 mm)
23.00 in. (584.2 mm)	20.00 in. (508.0 mm)	23.00 in. (584.2 mm)
24.00 in. (609.6 mm)	20.25 in. (514.3 mm)	24.00 in. (609.6 mm)
25.00 in. (635.0 mm)	20.50 in. (520.7 mm)	25.00 in. (635.0 mm)
26.00 in. (660.4 mm)	20.75 in. (527.0 mm)	26.00 in. (660.4 mm)
27.00 in. (685.8 mm)	21.00 in. (533.4 mm)	27.00 in. (685.8 mm)
28.00 in. (711.2 mm)	21.25 in. (540.0 mm)	28.00 in. (711.2 mm)
29.00 in. (736.6 mm)	21.50 in. (546.3 mm)	29.00 in. (736.6 mm)
30.00 in. (762.0 mm)	21.75 in. (552.7 mm)	30.00 in. (762.0 mm)
31.00 in. (787.4 mm)	22.00 in. (559.1 mm)	31.00 in. (787.4 mm)
32.00 in. (812.8 mm)	22.25 in. (565.4 mm)	32.00 in. (812.8 mm)
33.00 in. (838.2 mm)	22.50 in. (571.8 mm)	33.00 in. (838.2 mm)
34.00 in. (863.6 mm)	22.75 in. (578.1 mm)	34.00 in. (863.6 mm)
35.00 in. (889.0 mm)	23.00 in. (584.5 mm)	35.00 in. (889.0 mm)



Recommended Drilling Parameters

Maximum rotation	150 rpm
Weight on reamer	35,000 lb
Torque	60,000 ft-lb (81,350 N-m)
Dogleg severity	15°/100 ft (30 m)
Lost-circulation material	75 lb/bbl (0.21 g/cm3)
Maximum temperature	300°F (150°C)

