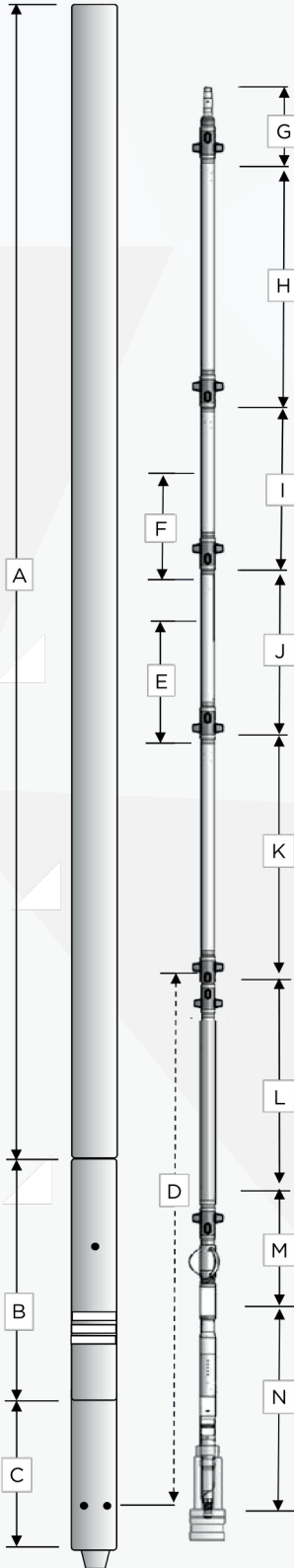


XBOLT G2

Dual Telemetry

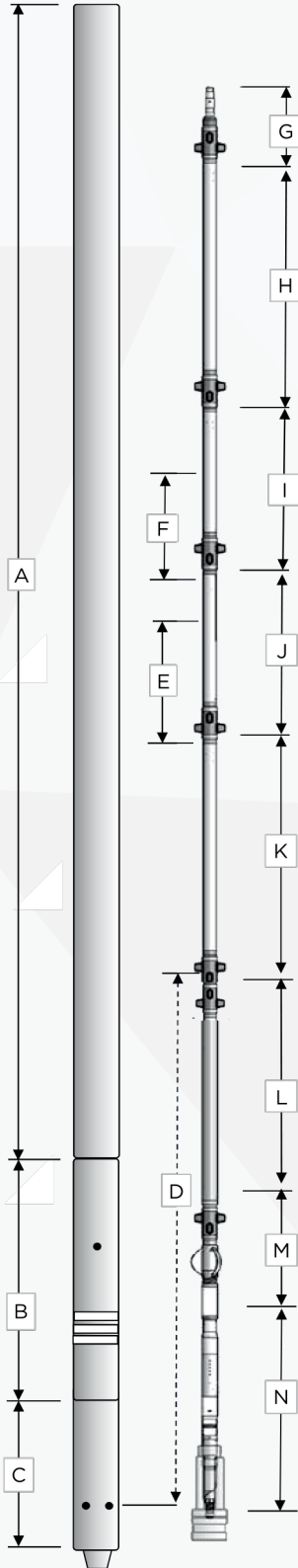


DESCRIPTION	LENGTH	OD	ID	CONNECTION UH	CONNECTION OH	CONNECTION TORQUE
4.75" Collar						
(A) Rental Collar	> 29'	4.75"	2.68"	NC 38 (3.5 IF)	NC 38 (3.5 IF)	See ITC # 3837799
(B) Gap Sub	3.68'	4.75"				9,400 ft.lbs
(C) Mule Shoe Sub	3.25'	4.75"				9,000 ft.lbs
6.5" Collar						
(A) Rental Collar	> 29'	> 6.5"	2.813" / 3.25"	NC 50 (4.5 IF)	NC 50 (4.5 IF)	See ITC # 3837799
(B) Gap Sub	3.68'	6.5"				26,000 ft.lbs
(C) Mule Shoe Sub	3.25'	6.75"				28,000 ft.lbs
8" Collar						
(A) Rental Collar	> 29'	> 8.0"	3.25" / 3.5" / 3.75"	6 5/8 Reg	6 5/8 Reg	See ITC # 3837799
(B) Gap Sub	3.68'	8.0"				39,000 ft.lbs
(C) Mule Shoe Sub	3.25'	8.0"				40,000 ft.lbs

SPECIFICATION	4.75"	6.5"	8"
Max Dogleg Rotating - Slick	15°/100'	10°/100'	8°/100'
Max Dogleg Rotating - Flex	25°/100' Ø4.00" Flex Section Min. 2/3 Total Length (20' of 31') Collars Above and Below Gap Sub	15°/100' Ø5.625" Flex Section Min. 2/3 Total Length (20' of 31') Collars Above and Below Gap Sub	13°/100' Ø6.00" Flex Section Min. 2/3 Total Length (12.4' of 31') Collars Above and Below Gap Sub
Max Compression	100,000 lbs	200,000 lbs	300,000 lbs
Max Tension @ 302°F	500,000 lbs	1,000,000 lbs	1,200,000 lbs
Max Torque @ Bit	9,000 ft.lbs	26,000 ft.lbs	39,000 ft.lbs
Max Temp	302 °F	302 °F	302 °F
Max Pressure	15000 psi*		
Max Flow Rate	350 gpm	500 gpm (2.813" ID) 700 gpm (3.25" ID)	700 gpm (3.25" ID) 850 gpm (3.5" ID) 1000 gpm (3.75" ID)
Pressure Drop Coef PSI = (PPG * GPM ²)/C	C=2988	C=6723 / C=21248	C=21248 / C=40172

XBOLT 2.0 - R

Dual Telemetry



PROBE	LENGTH	OD	WEIGHT
(N) Pulser	4.23'	2"	23 lbs
(M) Gap Assembly	2.43'	2"	18 lbs
(L) XDT	5.51'	2"	32 lbs
(K / H) Battery	6.35'	1.75"	30 lbs
(J) Gamma	4.52'	1.75"	24 lbs
(I) D&I Sensor Module	4.67'	1.75"	26 lbs
(G) Fishing Head	2.18'	1.75"	10 lbs

PROBE	LENGTH	OD
(D) Fixed Lower Assembly	12.23'	Upper seal face of XDT to lower UBHO set screw
(E) Gamma Sensor	2.83'	Sensor package to probe box seal face
(F) D&I Sensor	2.92'	

Toolstring Order

The XDT, Gap Assembly and Pulser probes must be assembled together at the base of the tool string

Probes above the XDT may be assembled in any order - three batteries maximum

Use Lagun-R offset calculator to determine sensor offsets

* XDAG and Upgraded Batteries are rated up to 20,000 psi.