



XEM IS THE IDEAL MWD TOOL

for all directional applications by giving precision inclination/azimuth, full MWD, gamma ray logging, and bore/annular pressure while drilling (PWD), during every connection allowing for performance drilling in over balanced, under balanced, and high LCM environments.

CONSIDER EFFICENCY

Extreme's Survey on ConnectionTM allows for zero NPT as XEMTM works independently of the drilling process.

CONSIDER VERSATILITY

Ideal for all over-balanced and under-balanced applications, creating optimal performance in air drilling environments. Choose the data you need, from MWD quality toolfacing for steering and gamma for formation correlation, on demand.

CONSIDER RELIABILITY

Our 24/7 Command Center watches all the activity of your rig in real time and proactively troubleshoots while you drill.

CONSIDER COST

Reduced drilling time and personnel on site means a considerable cost savings to the client.

CONSIDER SAFETY

Added safety by eliminating lithium battery use, and costly personnel on the wellsite.

XEM TOOL SPECIFICATIONS

DESCRIPTION	4.75"	6.50"	8.00"	11.00"
GAP SUB ID	2.69 ± 0.010"	2.813 ± 0.005" - NC 46 3.25 ± 0.020" - NC 50	3.500 + / 0.002"	4.000 + 0.020" / - 0.000"
GAP SUB OD	4.750 ± 0.025"	6.500 ± 0.025"	8.000 + / 0.025"	11.000 ± 0.025"
GAP SUB OD with Hard Banding	4.825 ± 0.025"	6.575 ± 0.025"	No Hard Banding	
Connections	NC 38 (3 1/2 IF)	NC 46 (4 1/2 XH) NC 50 (4 1/2 IF)	6 5/8 Regular	API NC77
Connection Make up Torque	9,400 ft. lbs.	23,000 ft. lbs - NC 46 26,000 ft. lbs - NC 50	39,000 ft. lbs.	100,000 ft. lbs.
Torsional Strength of Gap at 150 C	10,000 ft. lbs.	20,000 ft. lbs.	55,000 ft. lbs.	120,000 ft. lbs.
Gap Sub Overall Length	44.2"		45.2"	47.1"
Gap Sub Re Cut Length	6.50" Pin End & 4.75" Box		5.50" Pin End & 4.75" Box End	6.50" Both Ends
Flex Collar Requirements ***	4.00" Flex Sections Min. 2/3 Total Length (20' of 31') Collars Above and Below Gap Sub	5.625" Flex Sections Min. 2/3 Total Length (20' of 31') Collars above and Below Gap Sub	6.00" Flex Sections Min. 2/3 Total Length (20' of 31') Collars above and Below Gap Sub	N/A
Tool Length (Probe Dependant)	6.00" Flex Section			
Maximum Tool Weight (without collar) **	310 lbs.	470 lbs.	580 lbs.	1155 lbs.
Rotation	Up to 200 RPM, 20-80 RPM typical			
Shock	1000 g, 1/2 msec, 1/2 Sine Shock			
Vibration	30g, 30-500hz			
Maximum Operating Pressure	15,000 psi			
Maximum Operating Temperature	150°C (302°F) ⁽³⁾			
Minimum Storage / Transportation Temperature	-40°C (-40°F)			
Maximum Sand Content by Volume	2%			
Maximum LCM Content	No Limits			
Maximum Axial Load: (Compression)	100,000 lbs.	200,000 lbs.	300,000 lbs.	600,000 lbs.
Maximum Axial Load: (Tension)	500,000 lbs.	1,000,000 lbs.	1,200,000 lbs.	3,000,000 lbs.
Max. Dogleg Severity Rotating: Slick Collars	15 / 100 ft.	10 / 100 ft.	8 / 100 ft.	8 / 100 ft.
Max. Dogleg Severity Rotating: Flex Collars	25 / 100 ft.	15 / 100 ft.	13 / 100 ft.	N/A
Max. Dogleg Severity Sliding: Slick Collars	30 / 100 ft.	20 / 100 ft.	16 / 100 ft.	16 / 100 ft.
Max. Dogleg Severity Sliding: Flex Collars	50 / 100 ft.	30 / 100 ft.	26 / 100 ft.	N/A
Recommended Maximum Flow Rate	317 GPM	528 GPM	1056 GPM ⁽¹⁾ 900 GPM ⁽²⁾	1350 GPM
Recommended Collar Bores	2 11/16" ID Collar	2 13/16" ID Collar	3 1/2" ID Collar ⁽¹⁾ 3 1/4" ID Collar ⁽²⁾	4" ID Collar

** Maximum Tool Weight, including Gamma Probe

*** Contact Extreme for maximum dogleg severity if a different size flex collar is to be used

(1) Collar ID 3 1/2"

(2) Collar ID 3 1/4"

(3) Maximum temperature range for alkaline batteries is 50°C (122°F)