Drilling Tools

Roller Reamer WedgeTail™

Reservoir Group's WedgeTail™ Roller Reamer improves drilling efficiency and enables longer runs.

The WedgeTail Roller Reamer is a superior drilling reamer used to provide enhanced run life with a unique and robust retention mechanism – resulting in improved reliability. It has proven success in significantly reducing the torque and vibration in the drillstring compared to the fixed blade stabilizer.

The WedgeTail Roller Reamer is designed to perform in hostile environments such as high temperature high pressure (HPHT). It's high temperature seals reduce frictional heat, extending the life of the seals. The engineered pressure equalization mechanism provides a continuous feed of lubricant from an enlarged grease cavity to the seals.

Built upon our patented Taloc™ locking mechanism, the WedgeTail Roller Reamer utilizes two opposing tapered conical wedges, which focus the locking forces along the body of the tool. This allows a narrower pocket for increase flow-by area, and creates much higher locking forces that ensure full roller retention. This innovative design facilitates safe cartridge replacement in a matter of minutes. The longitudinal locking mechanism also places less stress on the radial pocket design.

Features	Benefits
Rolling bearing action of Cutters	Reduced drilling torque, stick-slip & vibrations
Helixed overlapped placed cutting structures	Better log quality and easier casing runs
Constant 3 point wall contact	Improved bit performance and extended life of BHA and drill string components
Large Flow by Area	Improved cuttings removal and Increased ROP
Back reaming capability through the run and while POOH	Reduce/eliminate dedicated clean-out/wiper trips
XLT options	Extended cutter life in hostile environments (HPHT)
Taloc™ Quad-Lock system	Ensure security of cutters to prevent downhole junk

WedgeTail™ for Demanding Applications

• Drilling Enhancement • Extreme Hostile Environments • HPHT Options

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Technical Specifications

Hole Size	Body Number	Roller Cartridge Number	ID	Fishing Neck Diameter	Max Body Diameter	Flow-By Area Sq inch	Gauge Length	Total Length 3 Point
5⅞″	XMA 1001	XMA 1040	1.5″	4.75″	5.3″	5.1	2.44″	67″
6″		XMA 1050				5.9		
6⅛″		XMA 1060				6.8		
6½″	XMA 1151	XMA 1040	1.75″	4.75″	5.9″	6.9	2.44″	67″
6⅝″	XMA 1201	XMA 1040	2″	4.75″	6″	7.5	2.44″	67″
6¾″		XMA 1050				8.5		
6⅞″		XMA 1060				9.5		
8⅜″	XMA 1501	XMA 1540	2.25″	6.75″	7.75″	9.7	2.75″	75″
8½″		XMA 1550				10.9		
8¾″		XMA1560				13.4		
8⅞″	XMA 1566	XMA 1540	2.25″	6.75″	8.25″	10.2	2.75″	75″
9″		XMA 1550				11.6		
9½″		XMA 1590				16.5		
9¼″	XMA 1576	XMA 1540	2.25″	8.25″	8.625″	9.2	2.75″	75″
9⅜″		XMA 1550				10.6		
9⅞″		XMA 1590				15.9		
10″	XMA 1651	XMA 1540	2.8125″	8.25″	9.375″	13.4	2.75″	75″
10⅛″		XMA 1550				15.0		
10⅝″		XMA 1590				20.9		
11⅜″	XMA 1801	XMA 2030	2.8125″	8.25″	10.2″	19.8	3.84″	83″
11½″		XMA 2040				21.4		
11⅝″		XMA 2050				22.9		
12″	XMA 2001	XMA 2030	2.8125″	8.25″	10.83″	26	3.84″	88″
12⅛″		XMA 2040				27.7		
12¼″		XMA 2050				29.4		
14½″	XMA 2201	XMA 2030	3.150″	9.75″	13.33″	44.6	3.84″	92″
14⅝″		XMA 2040				46.8		
14¾″		XMA 2050				49.0		
16″	XMA 2601	XMA 3050	3.150″	9.75″	13.4″	59.9	3.84″	92″
17″		XMA 4050				72.5		
17½″	XMA 3001	XMA 3050	3.150″	9.75″	14.9″	81.8	3.84″	96″
22″	XMA 5001	XMA 3050	3.150″	9.75″	19.4″	137.6	3.84″	96″
23″		XMA 4050				165.7		
24″	XMA 6001	XMA 3050	3.150″	9.75″	21.4″	158.3	3.84″	96″
25″		XMA 4050				189.6		
26″	XMA 7001	XMA 3050	3.150″	9.75″	23.4″	208.8	3.84″	96″
27″		XMA 4050				243.2		
28″		XMA 9050				253.9		

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