

## WEDGETAIL® ROLLER REAMER

### Reliable Sealed Bearing Roller Reamer

- Reduced torque, stick slip and vibration
- Improved bit performance and extended BHA component life
- Assured full gauge hole, with better log quality and easier casing running
- Reduced need for time consuming back reaming
- Increased ROP

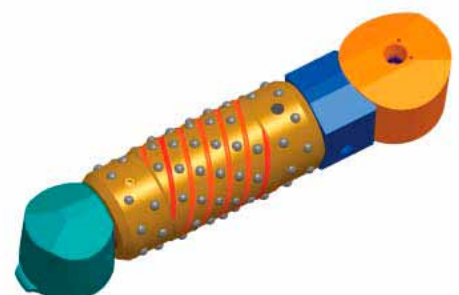
All well known benefits of running Roller Reamers, instead of fixed blade stabilizers, but often not realized due to the inherent risks of running traditional tools that were built for ease of manufacture, rather than durability, ease of use and reliability.

X Drilling Tools® (XDT™) has developed a superior Roller Reamer to provide enhanced run life with a unique and robust retention mechanism, allowing dependable reliability. An innovative stationary pressure equalization system ensures that the seals within each roller cartridge, and the sealed journal bearing they protect, enjoy a greatly extended life, complimenting the premium grade carbide that retains full gauge.

The patented 'Taloc®' locking mechanism utilizes two opposing tapered conical wedges, which focus the locking forces along the body of the tool. This allows a narrower pocket, for increased Flow-By area, but creates much higher locking forces that ensure full roller retention; yet the simple design facilitates safe cartridge replacement in a matter of minutes. The longitudinal locking mechanism also places less stress on the radial pocket design, and XDT® have never had a WedgeTail crack in the pocket...ever!

### Features & Benefits

- One piece roller cartridge for ease of maintenance, safety and security
  - Self locating, self orientating to a truly neutral alignment
  - No residual stresses prior, during or after dressing
  - Extremely easy to maintain
- Unique longitudinal locking mechanism: stronger retention, narrower pockets
  - Greater flow-by area
- Shorter upset length
  - Reduced hole choking
- Greater carbide efficiency – carbide positioned in helical pattern around cutters
  - Constant 3 point wall contact, for better surface finish on hole
- Bi-directional rollers as standard
  - Allow constant back reaming
  - Allow 90% of premium carbide to be placed on gauge diameter
  - Ensure forces are transmitted equally over the centre of bearing shaft
- Advanced stationary pressure equalization
  - No moving parts ensure 100% reliability
- Stress relieved body profile to enhance flushing and cooling of cutters
  - Allows body flex, for reduced fatigue
  - Allows communication of flow-by areas
- High temperature rating of seals and grease to 220°C



DRILLING TOOLS

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### 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
5 7/8" 6" 6 1/8"	XMA 1001	XMA 1040 XMA 1050 XMA 1060	1.5"	4.75"	5.3"	5.1 5.9 6.8	2.44"	67"
6 1/2"	XMA 1151	XMA 1040	1.75"	4.75"	5.9"	6.9	2.44"	67"
6 5/8" 6 3/4" 6 7/8"	XMA 1201	XMA 1040 XMA 1050 XMA 1060	2"	4.75"	6"	7.5 8.5 9.5	2.44"	67"
8 3/8" 8 1/2" 8 3/4"	XMA 1501	XMA 1540 XMA 1550 XMA 1560	2.25"	6.75"	7.75"	9.7 10.9 13.4	2.75"	75"
8 7/8" 9" 9 1/2"	XMA 1566	XMA 1540 XMA 1550 XMA 1590	2.25"	6.75"	8.25"	10.2 11.6 16.5	2.75"	75"
9 1/4" 9 3/8" 9 7/8"	XMA 1576	XMA 1540 XMA 1550 XMA 1590	2.25"	8"	8.625"	9.2 10.6 15.9	2.75"	75"
10" 10 1/8" 10 5/8"	XMA 1651	XMA 1540 XMA 1550 XMA 1590	2.8125"	8"	9.375"	13.4 15.0 20.9	2.75"	75"
11 3/8" 11 1/2" 11 5/8"	XMA 1801	XMA 2030 XMA 2040 XMA 2050	2.8125"	8"	10.2"	19.8 21.4 22.9	3.84"	83"
12" 12 1/8" 12 1/4"	XMA 2001	XMA 2030 XMA 2040 XMA 2050	2.8125"	8"	10.83"	26 27.7 29.4	3.84"	88"
14 1/2" 14 5/8" 14 3/4"	XMA 2201	XMA 2030 XMA 2040 XMA 2050	3.150"	9.75"	13.33"	44.6 46.8 49.0	3.84"	92"
16" 17"	XMA 2601	XMA 3050 XMA 4050	3.150"	9.75"	13.4"	59.9 72.5	3.84"	92"
17 1/2"	XMA 3001	XMA 3050	3.150"	9.75"	14.9"	81.8	3.84"	96"
22" 23"	XMA 5001	XMA 3050 XMA 4050	3.150"	9.75"	19.4"	137.6 165.7	3.84"	96"
24" 25"	XMA 6001	XMA 3050 XMA 4050	3.150"	9.75"	21.4"	158.3 189.6	3.84"	96"
26" 27" 28"	XMA 9001	XMA 3050 XMA 4050 XMA 9050	3.150"	9.75"	23.4"	208.8 243.2 253.9	3.84"	96"

Other sizes can be provided with custom cutters built to request.

Values contained above are nominal values.

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