TASMAN 🔊	DOC TITLE: Wedgetail® Roller Reamer	DOC. No: TAS-DRT-WRR-001
	REV: NA	Page 1

Wedgetail® Roller Reamer

The Wedgetail® Roller Reamer is designed and engineered 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, and 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, mitigating and removing any potential for cracks in the pockets.

Applications & Benefits

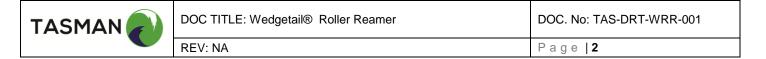
- One piece Roller Cartridge for ease of maintenance, safety and security
- Self-Locating, Self-Orientating to a truly neutral alignment
- Extremely easy to maintain, No residual stresses prior, during or after dressing
- Unique Longitudinal Locking Mechanism: stronger retention, narrower pockets
- Greater Flow-By Area
- Shorter Upset length
- Reduced hole choking
- Greater carbide efficiency Carbide Positioned in helical pattern around rollers
- Constant 3 point wall contact, for better surface finish on hole
- Allow constant back reaming with Bi-Directional Rollers as Standard
- 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 rollers
- Allows body flex, for reduced fatigue
- Allows communication of Flow-By areas
- High Temperature rating of seals and grease to 220°C

Key Features

- 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



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WedgetailRoller Reamer Specifications

Technical Specifications Hole Size Body Roller Cartridge ID Fishing Neck Max Body Flow-By Area Gauge Total Length 3 Number Number Diameter Diameter Sq inch **Point** Length 5-7/8" XMA 1001 XMA 1040 1.5" 4.75" 5.3" 5.1 2.44" 67" 6" XMA 1050 5.9 6-1/8" XMA 1060 6.8 4.75" 1.75" 5.9" 2.44" 67" 6-1/2" XMA 1151 XMA 1040 6.9 6-5/8" XMA 1201 XMA 1040 2" 4.75" 6" 7.5 2.44" 67" XMA 1050 6-3/4" 8.5 6-7/8" XMA 1060 9.5 8-3/8" XMA 1501 XMA 1540 2.25" 6.75" 7.75" 9.7 2.75" 75" 8-1/2" XMA 1550 10.9 8-3/4" XMA1560 13.4 2.25" 6.75" 75" 8-7/8" XMA 1566 XMA 1540 8.25" 10.2 2.75" 9" XMA 1550 11.6 9-1/2" XMA 1590 16.5 2.25" 8" 8.625" 2.75" 75" 9-1/4" XMA 1576 XMA 1540 9.2 9-3/8" XMA 1550 10.6 9-7/8" XMA 1590 15.9 10" XMA 1651 XMA 1540 2.8125" 8" 9.375" 13.4 2.75" 75" 10-1/8" XMA 1550 15.0 10-5/8" XMA 1590 20.9 XMA 1801 8" 10.2" 83" 11-3/8" XMA 2030 2.8125" 19.8 3.84" 11-1/2" XMA 2040 21.4 11-5/8" XMA 2050 22.9 12" 2.8125" 8" 10.83" 3.84" 88" XMA 2001 XMA 2030 26 12-1/8" XMA 2040 27.7 12-1/4" XMA 2050 29.4 14-1/2" XMA 2201 3.150" 9.75" 13.33" 44.6 3.84" 92" XMA 2030 14-5/8" XMA 2040 46.8 14-3/4" 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 17-1/2" XMA 3001 XMA 3050 3.150" 9.75" 14.9" 3.84" 96" 81.8 3.150" 9.75" 19.4" 3.84" 22" XMA 5001 XMA 3050 137.6 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 3.150" 9.75" 23.4" 208.8 3.84" 96" XMA 3050 27" XMA 4050 243.2 28" XMA 9050 253.9

Other sizes can be provided with custom rollers built to request. Values contained above are nominal values.

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