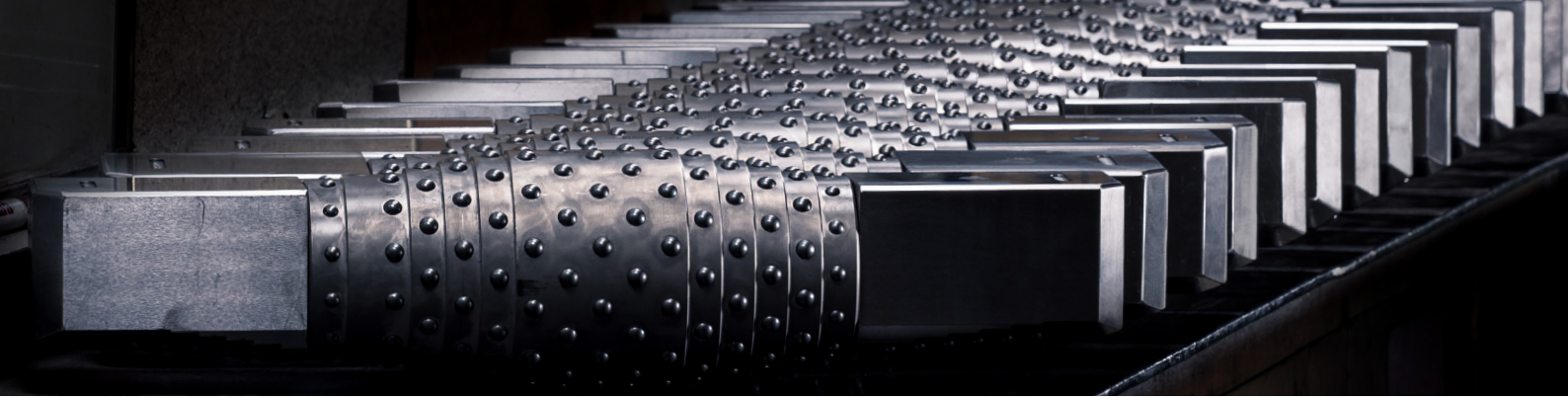


The Redback Roller Reamer

REDBACK DRILLING TOOLS





Proven Results, Outstanding Reliability.

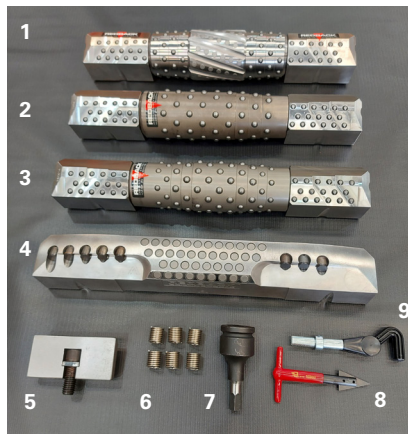
Redback's Roller Reamer delivers outstanding results every time. The roller reamer features a patented wedge lock cutter retention system which provides performance reliability and dependability that businesses rely on.

REDBACK ROLLER REAMER FEATURES:

Featuring a pressure equalised lubricated bearing system, the cutters ensure effective operation in high pressure, down hole environments. The cutters' seals prevent mud and cuttings from entering the bearings while retaining lubricant within the bearing faces meaning additional attainable revolutions.

The low torque point of stabilisation allows the Roller Reamer cutters to roll around the hole, reducing stick slip and vibrations. By reducing vibrations, the Redback Roller Reamers increases the mean time between failures (MTBF) of other BHA components.

Unlike fixed blade stabilisers, the Roller Reamer causes less hole wall damage. The stepped profile only opens the hole to the Reamer's dressed diameter and removes ledges and mini doglegs from the borehole. The smoother wall profile significantly aids the drilling, logging, coring, and casing running processes. The combined features of the Roller Reamer reduce risk throughout the drilling process.



1. Bi-Directional Reamer Stabiliser Cartridge
2. Hard Formation Reamer Cartridge
3. Bi-Directional Reamer Cartridge
4. PDC Fixed Ream Cartridge
5. Reamer Wedge
6. Threaded Inserts
7. In-Hex Socket
8. Threaded Insert Removal Tool
9. Threaded Insert Insertion Tool

IMPROVED BIT WEIGHT TRANSFER ASSISTS DRILLING.

By improving the bit weight transfer, together with torque reduction and stick slip increases the constant energy available at the bit - the weight ratio factor. Removing the peaks from the constant energy adds life to tri cone bit bearings and reduces PDC cutter/TCI tooth breakage. As Stick slip release can result in high string RPM, reducing the spikes decreases incidents of cutter face damage and drill bit reverse rotation.

REDUCE TRIP TIMES THROUGH TIGHT SECTIONS AND LEDGE REMOVAL

By removing tight sections and ledges in the reamed hole, the trip times in and out of the hole are significantly reduced. Patented bi-directional and back reaming cutters facilitate the reaming through tight spots when tripping out of the hole. Typically, this can be done only where rigs are equipped with top drive equipment. Improved borehole profile also reduces the frequency of stuck pipe incidents and thereby fishing operations.

SIMPLE ACCESS THROUGH LEDGE REMOVAL

The removal of ledges assists wire line logging tools and casing/liner down hole, significantly reducing running times and instances of getting stuck. With LWD tools, stick slip vibration reduction allows noise reduction and improved MTBF.

REDUCTION OF STICK SLIP

Torque can be detrimental to quality core collection. The reduction of stick slip allows more constant barrel rotation and reduced vibrations increasing coring performance.

OPTIMISED CUTTING ACTION

The hard formation cutter profile optimises the cutting action for the opening of under gauge hole and the removal of stringers and ledges typically created by direction change in the borehole.

ROLLER STABILISATION

The stabilisers allow longer reamers with full gauge hole wall contact. Under gauge rollers to simulate fixed blade stabiliser dimensions are also available.

A maintenance manual is included with each set of cutters. This manual gives full details on changing the cutter cartridges.

Redback Roller Reamer Dimensions

3 POINT REAMER BODIES						REDRESS KITS		
Hole size required	Max Body diameter	Body bore	Fishing neck length	Nominal fishing neck diameter	Undressed body string or nearbit		Weight per set (3 cutters)	
					Overall length	Approx weight		
5 7/8	5 3/8	1 1/2	21.5	4 3/4	75	150 kgs (330 lbs)	Series 299	20 kgs (44 lbs)
6								
6 1/8	5 5/8							
6 1/2	5 7/8	2	24	6 1/2 or 6 3/4	84	155 kgs (342 lbs)	Series 350	25 kgs (55 lbs)
6 3/4	6 1/8		30			160 kgs (353 lbs)		
7 7/8	6 5/8	30	220 kgs (485 lbs)					
7 7/8	7 1/16	2 1/4	23	6 1/2 or 6 3/4	88	300 kgs (661 lbs)	Series 375	30 kgs (66 lbs)
8 3/8	7 3/4							
8 1/2								
8 3/4	8 11/16	2 13/16	25	6 1/2	100	350 kgs (770 lbs)	Series 445	50 kgs (110 lbs)
9 3/8								
9 1/2								
9 3/4	8 3/4	2 13/16	29	8	111	430 kgs (948 lbs)	Series 445 or Series 514	90 kgs (198 lbs)
9 7/8								
10 5/8								
10 5/8	9 7/16	2 13/16	29	8 or 9 1/2	111	500 kgs (1100 lbs)	Series 445 or Series 514	90 kgs (198 lbs)
12 1/8	10 1/2 or 10 53/64							
12 1/4	10 53/64							
14 3/4	12 3/4	3	31	9 1/2 or 11 1/4	102	835 kgs (1837 lbs)	Series 561	125 kgs (275 lbs)
16	13 3/16							
17 1/2	15							
22	19 7/64	3	28.5	9 1/2	110	900 kgs (1984 lbs)	Series 561	125 kgs (275 lbs)
24								
26	23 7/32		27.0			113	1475 kgs (3252 lbs)	561 Cartridge Standard
						1975 kgs (4352 lbs)	561 Cartridge Standard	125 kgs (275 lbs)

NOTES:

- All dimensions are in inches
- Non-Mag Roller Reamers for 6" through 12 1/4" hole sizes available on request.
- Bi-Directional Redress Kits available in sizes from 8 1/2" to 34" hole sizes.
- 6 Point and combo tools for 6" through 17 1/2" hole sizes available on request.
- Please contact us for additional requirements outside of the above.

Redback Roller Reamer Dimensions

4 POINT REAMER BODIES						REDRESS KITS		
Hole size required	Max Body diameter	Body bore	Fishing neck length	Nominal fishing neck diameter	Undressed body string or nearbit		Weight per set (3 cutters)	
					Overall length	Approx weight		
22	19 ⁷ / ₆₄	3	28.5	19 ¹ / ₂	110	1768 kgs (3898 lbs)	561 Cartridge 4 Point Standard	166 kgs (366 lbs)
24	21 ⁷ / ₃₂		32	9 ¹ / ₂		1980 kgs (4365 lbs)		
26	23 ⁷ / ₃₂		27		113	2050 kgs (4519 lbs)	561 Cartridge 4 Point 2" Over	180 kgs (397 lbs)
28		4	29	10 ¹ / ₂	126	3400 kgs (7496 lbs)	561 Cartridge 4 Point Standard	166 kgs (366 lbs)
30	11			3500 kgs (7716 lbs)		561 Cartridge 4 Point 2" Over	180 kgs (397 lbs)	
32	10 ¹ / ₂							
34	29 ¹³ / ₃₂							

NOTES:

- All dimensions are in inches
- Non-Mag Roller Reamers for 6" through 12 1/4" hole sizes available on request.
- Bi-Directional Redress Kits available in sizes from 8 1/2" to 34" hole sizes.
- 6 Point and combo tools for 6" through 17 1/2" hole sizes available on request.
- Please contact us for additional requirements outside of the above.

CONTACT US

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WHEN YOU NEED TO BE SURE

