

Well Construction

Drilling Technologies

AERO™ Reamers - Concentric and Dual Eccentric

Expro's AERO™ Reamers are borehole conditioning solutions that improve wellbore drift by removing unwanted spiraling and ledges to help casing and liner strings efficiently reach total depth.

Expro's AERO™ Reamers create a smooth torque response that optimizes drilling steerability and wellbore stability to improve casing running operations, cementing clearance, drilling efficiency, and overall hole integrity.

The concentric and dual eccentric reamer options are suitable for reaming-while-drilling operations, which reduce or eliminate short trips, backreaming, dedicated cleanout runs, and associated non-productive time and spend.

Features and benefits

- Improved design features no active OD gauge cutters to minimize induced vibration and allow drill-out without costly casing string damage
- Passive cutters limit lateral reaming vibrations to eliminate negative impact to directional drilling controls and improve overall drilling efficiency
- High junk slot area enhances fluid dynamics and hole cleaning effectiveness to improve overall well integrity
- Conventional sub-based stabilizing design allows for unrestricted tool placement in drill string to prevent wear to costly BHA components
- Stainless steel and non-magnetic material composition allow the tools to run in a wide range of BHA operations for increased operational flexibility
- Impact arrestors provide stabilization to axial and lateral modes of vibration to mitigate shock loading and allow increased torque control
- Tungsten carbide inserts and PDC cutters ensure efficient reaming with minimal wear in harsh drilling environments
- Dual Eccentric reamer features two separate reamer blade bodies to ensure consistent hole condition and OD gauge
- Eccentric blade design cuts wellbore diameter greater than passthrough diameter to eliminate the use of expensive underreamers





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Specifications - AERO™ Concentric Reamer

Blade body O.D. (in.)	Fishing neck O.D. (in.)	I.D. (in.)	Gauge length (in.)	Weight (lbs.)
5.750	4.875	2.500	18.00	243
5.875	4.875	2.500	18.00	243
6.000	4.875	2.500	18.00	294
6.375	4.875	2.250	18.00	322
6.625	4.875	2.500	18.00	328
8.375	6.625	2.500	18.00	564
9.752	7.000	3.250	18.00	789
10.750	7.000	2.813	18.00	800
12.125	8.250	2.813	18.00	1338
15.250	9.500	3.250	18.00	1898
15.750	9.500	3.250	18.00	1939

Specifications - AERO™ Dual Eccentric Reamer

Blade body O.D. (in.)	Drift O.D. (in.)	Fishing neck O.D. (in.)	I.D. (in.)	Gauge length (in.)	Weight (lbs.)
5.875	4.750	3.500	1.500	6.00	223
6.500	6.500	5.000	2.500	4.00	403
6.813	6.375	5.250	2.500	6.00	389
6.875	6.125	5.000	2.500	4.00	322
7.000	6.000	4.750	2.500	4.00	359
8.500	7.500	6.250	3.250	4.00	655
8.625	8.375	6.500	3.250	4.00	725
9.000	8.750	7.000	2.750	6.00	722
9.500	8.375	6.500	3.000	4.00	790
10.000	8.500	6.500	2.750	6.00	819
12.500	12.125	8.000	3.000	8.00	1267
13.000	12.125	8.000	3.250	8.00	1569

Total tool length can vary depending on rotary shouldered connection requirements, maintenance history, and tong space requirements. Please contact your Expro representative for additional information.