

DL Reamer

Cost-effective, real-time solution that delivers improved wellbore geometry and reduced trip times.

Improved drill bit efficiency and durability has reduced the number of trips made in each hole section, which can frequently deteriorate wellbore quality. As a result, weight-transfer issues can occur during drilling operations, as well as increased tight spots, backreaming during trips, and difficulty running casing or liners. Our DL Reamer has a unique design that enables it to marginally increase the wellbore diameter while still rotating concentrically. Our proprietary Placement Program ensures optimal tool placement in the BHA, guaranteeing not only maximum tool efficiency but also ensuring there are no negative effects on the bending stresses or contact forces.



Features

One-piece construction

Manufactured from a single piece of steel containing material properties that optimally match the connection tool requirements. This ensures a strong, robust design that is properly paired with the adjacent drillstring components.

Eccentric design

By slightly enlarging the wellbore, this significantly improves the efficiency of the tool while also ensuring that the bit will be able to pass through without the need for backreaming.

Proprietary placement program

This unique in-house developed software enables DL Reamer placement in the BHA where it is most beneficial from a borehole conditioning perspective while ensuring there are no negative effects on the bending stresses or contact forces.

Low-torque cutting structure

Designed so that the tool will generate less than 5% of the reactive torque generated by the bit with which it is used. In most applications, this results in reduced surface torque when compared to similar offset runs without the DL Reamer in the BHA.

Bi-directional cutting structures

Ensures that the tool is actively improving the wellbore when drilling ahead but also whenever the string is rotating and moving in either direction.

Maximized tool ID

Intentionally designed to minimize pressure loss through the tool while it also allows fishing of most retrievable MWD components

Unique blade layout

Designed to offer maximum protection to the cutting structure during drillout and increase the efficiency of the blades to agitate cuttings on the low side of the wellbore in high-angle directional applications.

Large selection of premium PDC cutters

Cutter type and geometry can be optimized to suit the demands of each specific application.

Specification

Bit size	DL Reamer Diameters			Make Up Length	Junk Slot Area	Collar OD (inches)	Tool ID (inches)
	Pass Through*	Drill Size*	Max Tool Size				
5½ in.	-0.125	+0.0625 in.	5.175 in.	4.08 ft.	7.920 in ²	5.000 in.	2.000 in.
5¾ in.	-0.125	+0.0625 in.	5.175 in.	4.08 ft.	8.870 in ²	5.000 in.	2.000 in.
5⅞ in.	-0.125	+0.0625 in.	5.188 in.	4.07 ft.	9.060 in ²	5.000 in.	2.000 in.
6 in.	-0.125	+0.0625 in.	5.375 in.	4.56 ft.	9.660 in ²	5.000 in.	2.688 in.
6¼ in.	-0.125	+0.0625 in.	5.563 in.	4.28 ft.	9.340 in ²	5.250 in.	2.813 in.
6½ in.	-0.125	+0.0625 in.	5.563 in.	4.27 ft.	10.970 in ²	5.250 in.	2.688 in.
6 ½ in.	-0.125	+0.0625 in.	6.125 in.	4.31 ft.	12.300 in ²	5.000 in.	2.688 in.
6¾ in.	-0.125	+0.0625 in.	6.125 in.	4.27 ft.	14.670 in ²	5.250 in.	2.688 in.
7⅞ in.	-0.125	+0.1250 in.	7.200 in.	4.45 ft.	15.920 in ²	6.125 in.	3.000 in.
8⅞ in.	-0.125	+0.1250 in.	7.750 in.	6.17 ft.	11.800 in ²	6.750 in.	2.835 in.
8½ in.	-0.125	+0.1250 in.	7.750 in.	3.97 ft.	17.140 in ²	6.625 in.	3.000 in.
8¾ in.	-0.125	+0.1250 in.	8.000 in.	4.00 ft.	29.200 in ²	6.625 in.	3.000 in.
9½ in.	-0.125	+0.1250 in.	8.875 in.	5.00 ft.	29.500 in ²	6.750 in.	2.250 in.
9⅞ in.	-0.125	+0.1250 in.	9.000 in.	6.70 ft.	35.160 in ²	7.000 in.	2.250 in.
11⅞ in.	-0.125	+0.188 in.	10.83 in.	6.74 ft.	42.960 in ²	8.000 in.	3.000 in.
12¼ in.	-0.125	+0.1875 in.	11.25 in.	6.67 ft.	56.080 in ²	8.000 in.	3.000 in.
12⅝ in.	-0.125	+0.1875 in.	11.25 in.	6.67 ft.	58.940 in ²	8.000 in.	3.000 in.
15½ in.	-0.125	+0.1875 in.	14.431 in.	7.50 ft.	96.820 in ²	9.500 in.	3.000 in.
16 in.	-0.125	+0.2500 in.	14.75 in.	7.50 ft.	99.000 in ²	9.500 in.	3.000 in.
17½ in.	-0.125	+0.2500 in.	16.000 in.	7.50 ft.	120.00 in ²	9.500 in.	3.000 in.

*nominally relative to bit size

