

Hole Enlargement

XR Prime™ reamer hole enlargement tool

Designed to minimize drillstring vibration, even in extreme applications

FEATURES

- Improved gauge
- Articulated arm deployment
- Auto-blocking system
- Ball drop activation/deactivation system
- Long stabilization below cutter arms

BENEFITS

- Minimal lateral vibration
- Low flow rate required for arms to remain open
- Reliable activation/deactivation system
- Self-stabilized tool

Overview

The XR Prime™ reamer hole enlargement tool builds on the reliable and proven platform of the XR™ reamer tool, featuring improved cutting structure and stability for small hole opening ratios and extreme applications.

The XR Prime reamer provides concentric and simultaneous hole enlargement, with on-demand activation/deactivation systems where tool reliability, durability, and the quality of the enlarged hole are crucial. The XR Prime reamer can be deactivated after enlarging the original pilot hole size, allowing drilling to continue. This tool also permits full flow circulation while tripping out, as it can be deactivated and will remain dormant during trip-out.

The XR Prime reamer minimizes bottomhole assembly (BHA) vibration, macro-doglegs at formation transition interfaces, and the tendency to initiate “whirl.”



XR Prime™ reamer hole enlargement tool – technical specifications

	XR800	XR1000	XR1200	XR1400	XR1600	XR1800
Opening Range (from)	8-1/2 in.	10-5/8 in.	12-1/4 in.	14-3/4 in.	16-1/2 in.	18-1/8 in.
Opening Range (up to)	10-5/8 in.	12-1/4 in.	16 in.	17-1/2 in.	20 in.	22 in.
Body Diameter	8-1/4 in.	10-1/4 in.	12 in.	14-1/4 in.	15-3/4 in.	17-7/8 in.
Pilot Hole Minimum	8-1/2 in.	10-1/2 in.	12-1/4 in.	14-1/2 in.	16 in.	18-1/8 in.
Fishing Neck Length	20.47 in.	20.47 in.	20.47 in.	20.47 in.	20.47 in.	20.47 in.
Fishing Neck Diameter	7 in.	8 in.	8 in.	9-3/8 in.	9-3/8 in.	9-3/8 in.
Top Connection	NC50 Box	6-5/8 in. REG Box	6-5/8 in. (or 7-5/8 in. REG Box	7-5/8 in. REG Box	7-5/8 in. REG Box	7-5/8 in. REG Box
Bottom Connection	NC50 Pin	6-5/8 in. REG Pin	6-5/8 in. (or 7-5/8 in.) REG Pin	7-5/8 in. REG Pin	7-5/8 in. REG Pin	7-5/8 in. REG Pin
Top Body OD	7-1/2 in.	9 in.	10 in.	10 in.	10 in.	10 in.
Bottom Body OD	7-1/2 in.	9 in.	10 in.	10 in.	10 in.	10 in.
Stabilized Tool Length	36.44 in.	42.62 in.	60.24 in.	41.43 in.	38.02 in.	39.64 in.
Overall Makeup Length	13.5 ft	14.3 ft	14.0 ft	14.0 ft	13.0 ft	13.0 ft
Makeup Torque to BHA*	35,700 ft-lbf	53,400 ft-lbf	53,400 ft-lbf (84,400 lbf)	84,400 lbf	84,400 lbf	84,400 lbf
Minimum Outer TFA	6.91 sq in.	14.53 sq in.	18.60 sq in.	21.70 sq in.	33.33 sq in.	49.33 sq in.
Minimum Inner TFA	1.95 sq in.	3.92 sq in.	2.80 sq in.	2.80 sq in.	2.80 sq in.	2.80 sq in.
Maximum Flow Rate	900 gpm	1,100 gpm	1,400 gpm	1,400 gpm	1,500 gpm	1,500 gpm
Minimum Operating Pressure*	725 psi	725 psi	725 psi	725 psi	725 psi	725 psi
Activation Ball Diameter	1.688 in.	2.165 in.	2.165 in. (2.000 in.)	2.165 in. (2.000 in.)	2.165 in. (2.000 in.)	2.165 in. (2.000 in.)
Deactivation Ball Diameter	1.875 in.	2.362 in.	2.625 in. (2.250 in.)	2.625 in. (2.250 in.)	2.625 in. (2.250 in.)	2.625 in. (2.250 in.)
Approximate Tool Weight	1,543 lb	2,453 lb	3,660 lb	3,697 lb	3,596 lb	4,147 lb

* Nominal parameters will vary based on application. Please contact your sales representative for more information.



XR Prime reamer hole enlargement tool in open (left) and closed (right) position

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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