

Hole Enlargement

XR Reamer™ hole enlargement tool

Reliable enlarging while drilling tool designed with exceptional expansion ratio

FEATURES

- Articulated arm deployment
- Autoblocking
- Ball drop activation/deactivation system
- Long stabilization below cutter arms

BENEFITS

- Large expansion ratio (up to 1.5 times body diameter)
- Low flow rate required to maintain arms open
- Reliable activation/deactivation system
- Self-stabilized tool

Overview

The XR Reamer™ boasts an exceptional expansion ratio, allowing it to enlarge the wellbore by up to 1.5 times the diameter of the pilot hole. This versatile tool ensures concentric and simultaneous hole enlargement, featuring on-demand activation and deactivation systems where tool reliability, durability, and hole quality of the enlarged hole is important.

After enlarging the original pilot hole, the XR reamer can be deactivated, which allows drilling operations to continue seamlessly. Additionally, this tool enables full flow circulation during tripping out. The XR reamer effectively minimizes bottomhole assembly (BHA) vibration, reduces micro-doglegs at formation transition interfaces, and mitigates the risk of initiating "whirl."

Already proven in high-angle and extended-reach applications, the XR reamer consistently performs even in the most challenging downhole environments.



XR reamer arms in closed position (left) and in opened position (right).



XR™ 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)	12-1/4 in.	14-3/4 in.	17-1/2 in.	20 in.	22 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.
Maximum Operating Range	12-1/4 in.	14-3/4 in.	18-1/8 in.	20-1/2 in.	22 in.	24-1/8 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 ft-lbf	84,400 ft-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.

** Small ball kit is optional. Please contact your sales representative for more information.

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