

XR™ Reamer Hole Enlargement Tool

RELIABLE ENLARGING WHILE DRILLING TOOL DESIGNED WITH INDUSTRY LEADING EXPANSION RATIO

OVERVIEW

The XR™ reamer has an industry leading expansion ratio with the ability to enlarge the wellbore up to 1.5 times the pilot hole diameter.

The XR reamer provides concentric and simultaneous hole enlargement with on-demand activation/deactivation systems where tool reliability, durability, and hole quality of the enlarged hole is important. The XR reamer can be deactivated after enlarging the original pilot hole size so that drilling can continue. This tool also allows full flow circulation while tripping out. The XR reamer minimizes bottomhole assembly (BHA) vibration, micro-doglegs at formation transition interfaces, and the tendency to initiate “whirl.”

XR reamer is already proven in high-angle, extended-reach applications where it minimized downhole vibration, resulting in reliable performance even in these extra-challenging environments.

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

Proprietary activation / deactivation system

Reliable auto-blocking system

Articulated arm deployment for maximum opening ratio

High cutter density

Self-stabilized body

Large flow area for efficient cuttings removal

Optimum performance in either rotary or rotary steerable system (RSS) applications



XR™ reamer arms in closed position



XR™ reamer arms in opened position

Specifications

	XR 800	XR 1000	XR 1200	XR 1400	XR 1600	XR 1800
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 Opening 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 REG Box	6-5/8 (or 7-5/8) REG Box	7-5/8 REG Box	7-5/8 REG Box	7-5/8 REG Box
Bottom Connection	NC50 Pin	6-5/8 REG Pin	6-5/8 (or 7-5/8) REG Pin	7-5/8 REG Pin	7-5/8 REG Pin	7-5/8 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 ft-lbf)	84,400 ft-lbf	84,400 ft-lbf	84,400 ft-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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