

## Provides Reliable, Quality Hole Enlargement While Drilling

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 is the only tool that can be deactivated after enlarging for drilling ahead the original pilot hole size and allow full flow circulation while tripping out. The XR reamer minimizes BHA vibration, macro-doglegs at formation transition interfaces and the tendency to initiate “whirl”.

Currently the only tool capable of enlargement to 50% over the pilot hole or drift diameter, the 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.

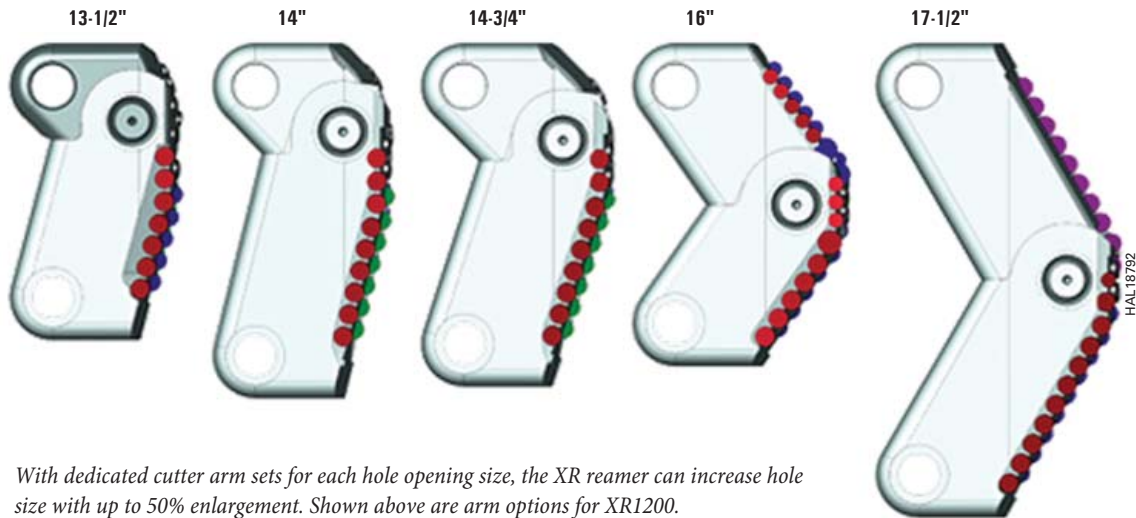


These illustrations show four separate XR reamer tool operations.

- Left: The tool is opened below the casing shoe where it enlarges the hole while drilling.
- Center-Left: The tool is deactivated and is in the drilling only mode.
- Center-Right: The tool reaches reaming point and it is activated for hole enlargement while drilling.
- Right: The tool is being run dormant as a contingency, the tool can be activated if hole enlargement is required.

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*With dedicated cutter arm sets for each hole opening size, the XR reamer can increase hole size with up to 50% enlargement. Shown above are arm options for XR1200.*