

## Rhino XS 4500 Series

Hydraulically expandable reamer

### APPLICATIONS

- Shoe-track drilling when cement must be cleared from casing
- Postshoe-track drilling in formations that require enhanced stabilization
- Hole enlargement while drilling

### ADVANTAGES

- Reliable hydraulic actuation to ensure a full-gauge concentric wellbore
- Dependable cutter block retraction to avoid stuck BHAs
- Aggressive PDC cutter blocks for higher ROP in a wide range of formation types
- Integral backreaming capability to ensure construction of a full-diameter bore
- Integrated jet nozzle and flow paths to improve cleanout while drilling

The Rhino XS\* 4500 series hydraulically expandable reamer is designed to enlarge the wellbore in a broad range of drilling operations. It enlarges the wellbore for improved equivalent circulating density (ECD) control, casing running, and cement clearance. The reamer is ideal for use with rotary steerable systems, providing a wellbore quality that is unachievable with other reaming tools.

The Rhino XS reamer has achieved success in a wide range of challenging applications, including

- directional drilling
- extended-reach drilling
- backreaming in loosely consolidated formations
- highly abrasive formations.

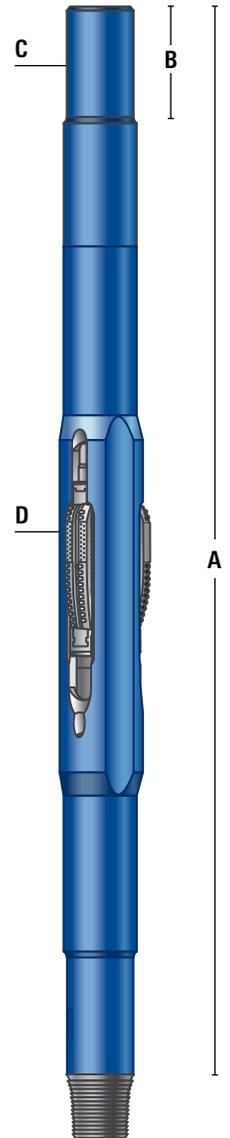
### Specifications

Overall length (A), ft [m]	5.17 [1.57]
Min. neck length (B), ft [m]	1.18 [0.35]
Fishing neck OD (C), in	4½
Body diameter (D), in	4½

### Operating Parameters

Hole opening size, in	4¾–5¾
Min. pilot hole size, in	4¾
Min. collapsed diameter, in	4½
Internal bore diameter, in	1¼
Max. flow rate, galUS/min [m³/min]	230 [0.87]
Min. operating pressure, psi [MPa]	500 [3.45]
Max. operating pressure, psi [MPa]	3,000 [20.68]
Standard PDC cutter size, mm	9
Max. operating temperature, degF [degC]	419 [215]

Connections	Top	3½ Reg box
	Bottom	3½ Reg pin
Assembled tool weight, lbm [kg]	193 [86]	



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