

## Z1000H

## Z-REAMER

The Z-Reamer is a compact block-type underreamer featuring advanced reaming capabilities. Due to its short size and hydraulic activation, it can be run either above MWD/LWD strings or below, as a near-bit/rathole reamer. This versatility makes it usable in a wide range of applications, providing reliability and performances even in challenging operations.

PDC cutter sizes can be matched to the bit for a wide range of formations and applications.

### Advantages

- Compact size, can be run directionally near-bit.
- Largest opening range among block-type PDC underreamers.
- Choice between fully hydraulic activation and ball drop.
- Fully pass-through internal diameter.
- Simple and reliable expanding/retracting mechanism (No Lock™).
- Long cutting blocks featuring dense cutting structures and long gauges. Joint bit and cutters design for matching cutting structures.
- Backreaming capability.

### Specifications

<b>Max. body OD (hardfaced)</b>	10"	254 mm
<b>Shoulder-to-shoulder length (A)</b>	44.6"	1,132 mm
<b>Bit-to-blade length (B)</b>	26.3"	669 mm
<b>Blade length (C)</b>	10.5"	267 mm
<b>Top thread</b>	6 5/8" API REG Pin	
<b>Top shank OD</b>	7 1/2"	190.5 mm
<b>Bottom thread</b>	4 1/2" API REG Box	
<b>Min. ID (operating)</b>	1.5"	38 mm
<b>Total weight (w. std. cutters)</b>	519 lbs	236 kg

### Operating Parameters

<b>Min. pilot hole size</b>	10 1/8"	257.1mm
<b>Opening range</b>	10 1/2" – 14"	266.7–355.6 mm
<b>Collapsed diameter</b>	10"	254 mm
<b>Max flow rate</b>	900 GPM	3,400 lpm
<b>Min operating pressure</b>	150 PSI	10 bar
<b>Max operating temp. (std. seals)</b>	392 degF	200 degC

