

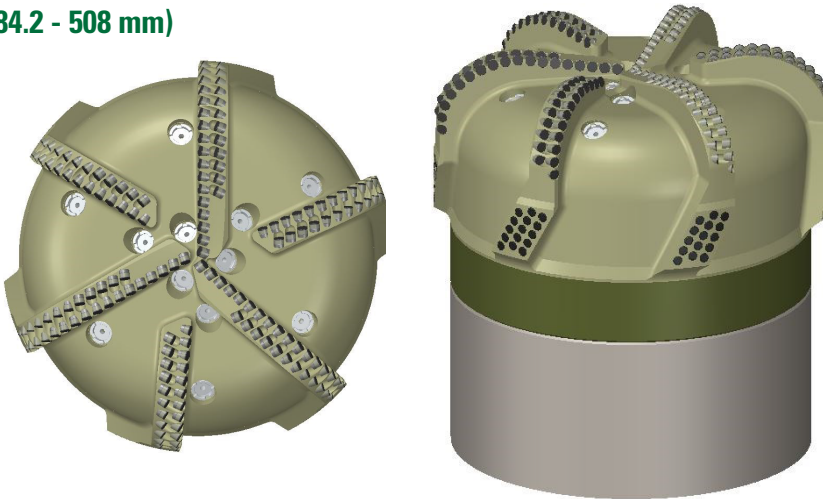
# Direct XCD

23 - 20 in XCD616 PDC - SHARC Edition

# SMITH BITS

A Schlumberger Company

(584.2 - 508 mm)



The Direct XCD\* casing-while-drilling drillable alloy bit allows drilling the borehole and casing of the well in a single trip for casing- and liner-while-while drilling service applications. Total time to drill an interval is reduced by eliminating the time for running casing and mitigating downhole problems with borehole instability. The body alloy of the Direct XCD drill bit can be easily drilled out with a standard PDC bit, eliminating a dedicated drillout run or use of a special drillout bit.

## Specifications

Hole diameter, in	23
Casing diameter, in	20
Connection type	Blank
Drillout bit size, in	18.625
Body material	Copper based alloy
Body material grade	60 KSI yield
Number of blades	6
PDC face cutter size, mm	16
Face cutter count	150
PDC gauge cutter size, mm	16
Gauge cutter count	18
Junk slot area, in <sup>2</sup>	60.9
Gauge protection type	TCI
Gauge length, in	3.5
Bit sub material	Steel
Bit sub material grade	55 /110 KSI yield
Nozzle style	Gen 1
Nozzle material	Coated
Nozzle count	12

## Operating Parameters

Maximum weight-on-bit, lbf	46,000
Maximum flow rate galUS/min	1,500
Maximum hydraulic horsepower, HSI	2.5

Operating parameters are typical ranges. Please contact your Smith Bits representative for recommendations for your individual well.

## FEATURES

- Innovative cutting structure design with PDC cutters on each blade to provide the drilling performance to meet today's drilling requirements.
- Advanced computational fluid dynamics software is used to optimize cleaning efficiency and bit cooling to maximize ROP.
- Allows optimization of fluid and hydraulic horsepower to maximize ROP without damaging the drill-out bit.
- Stabilization is maximized and vibration is reduced with spiral gauge pads.

