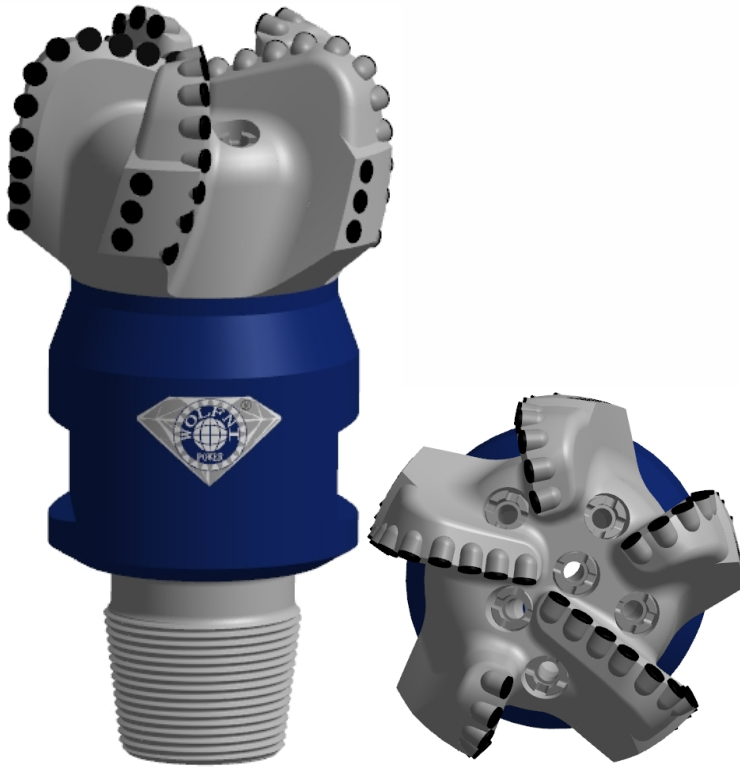




Specs:8 1/2" WS513VR(215.9mm)

IADC:M332

ID:WFN216S13503A



Design character:

- Back redressings at the base of gauge avoid difficult of pulling PDC bits out of hole in unconsolidated formation, and trim wall of well.
- Adopting CFD emulational technology to calculate to optimize PDC bit, then reduce possibility of heavy breaking and wearing of bit.
- Special design of back-rake angles will decrease torque on bit, increase bit aggressiveness, improve efficiency of ROP.
- The hydrofoil shape of the gauge channels hydraulic fluid and cutting to the annulus. This streamlined flow deters bailing initiation caused by vortices and eddies.

Specialized for oil/gas well design ,high speed drilling & long life-span using

Specifications:

Blade Qty	5
Total Cutters	61
Primary Cutter Size	13.44mm
Assistant Cutter Size	Non
Gauge Cutter Size	13.44mm
anti-quake ball size	13.44mm
Nozzle Qty.	6
Crown length	133.8mm
Gauge length	49.3mm
Connetion Size	4 1/2REG
Make-up Torque	16.63-23.71kN.m
Assembly groove wID:th	145mm
Bit Weight	78kg

Operating Parameters:

Rotary speed	60-260RPM
Flow rate	28-40L/S
Weigh on bit	20-100KN