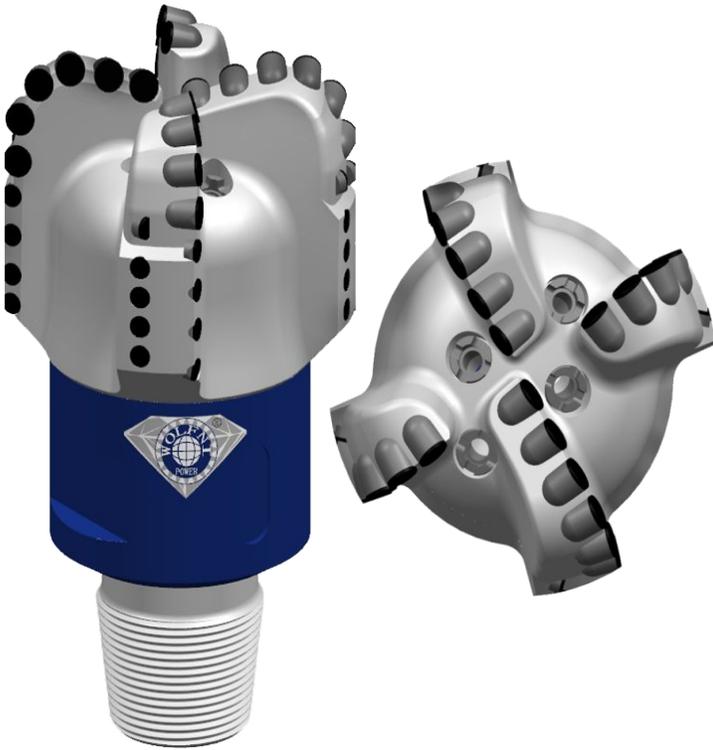




**Specs:9" WS419D(228.6mm)**

**IADC:S323**

**ID:WFN229S19403A**



**Design character:**

■ These back redressings at the base of gauge avoid difficult of pulling PDC bits out of hole in unconsolidated formation, and trim wall of well.

■ Straight blade and short gauge: When pumping pressure is low abrasive drilling mud can be discharged quickly to avoid bit balling and losing efficacy of bit.

■ Medium parabolic profiles PDC bit bounce lateral smally, make wall of well smoothly. This design suit for motor / rotary drilling, for high abrasive formation.

■ Suit for well drilling in low compressive strength, even texture soft-medium rock formation. Such as wake shale, density marlstone, strong batt, wake sandstone, limestone, and soft gravel, etc.

Specialized for soft/medium formation oil/gas well designed ,excellent drilling ROP&stability

**Specifications:**

Blade Qty	4
Total Cutters	37
Primary Cutter Size	19.05mm
Assistant Cutter Size	13.44
Gauge Cutter Size	13.44mm
anti-quake ball size	Non
Nozzle Qty.	4
Crown length	174mm
Gauge length	69mm
Connetion Size	4 1/2REG
Make-up Torque	16.63—23.71kN.m
Assembly groove wID:th	145mm
Bit Weight	50kg

**Operating Parameters:**

Rotary speed	60-260RPM
Flow rate	35-45L/S
Weigh on bit	20-100KN