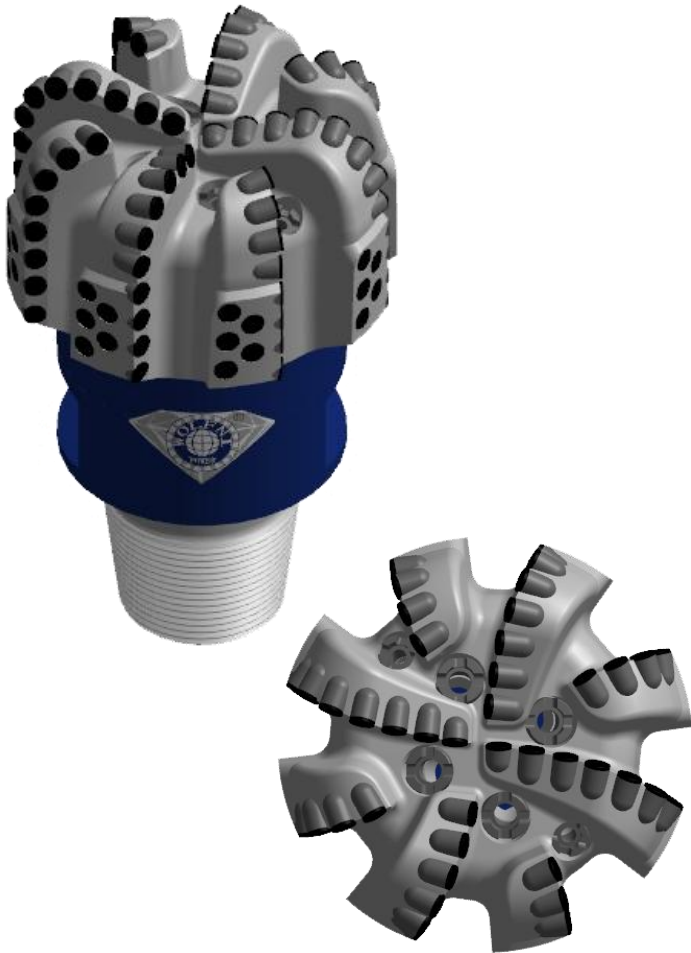




**Specs: 8 1/2" WM813D(215.9mm)**

**IADC:M433**

**ID:WFN216M13801A**



**Design character:**

■ Special design of back-rake angles will decrease torque on bit, increase bit aggressiveness, improve efficiency of ROP.

■ Adopting CFD emulational technology to calculate to optimize PDC bit, then reduce possibility of heavy breaking and wearing of bit.

■ Special gauge design has more cutters placed on gauge to prolong life time of PDC bit in high abrasive formation, to avoid diameter shrinkage for gauge wearing.

■ 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 in hard formation for oil well, Excellent drilling speed & long life-span using

**Specifications:**

Blade Qty	8
Total Cutters(Primary Cutter)	46
Primary Cutter Size	13.44mm
Assistant Cutter Size	Non
Gauge Cutter Size	13.44mm or PDC block
anti-quake ball size	Non
Nozzle Qty.	6
Nozzle type	12/32" TFA0.663in <sup>2</sup>
Crown length	115mm
Gauge length	63.5mm
Connetion Size	4 1/2REG
Make-up Torque	16.63-23.71kN.m
Assembly groove wID:th	120mm
Bit Weight	≈65kg

**Operating Parameters:**

Rotary speed	60-260RPM
Bit Weight on bit	30-100KN