



Specs: 12 1/4" WSCSR319-A(311.15mm) IADC:S223 ID:WFNCSR311S19301A



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 Soft-hard formation for water well, Excellent drilling speed & long life-span using

Specifications:

Blade Qty	3
Total Cutters	23
Primary Cutter Size	19.05mm
Assistant Cutter Size	Non
Gauge Cutter Size	13.44mm or PDC block
anti-quake ball size	Non
Sucking nozzle Qty.	3
Sucking nozzle area	4600mm ²
Crown length	155mm
Gauge length	80mm
Connetion Size	6 5/8REG
Make-up Torque	6.90-10.23kN.m
Assembly groove wID:th	180mm
Bit Weight	≈95kg

Operating Parameters:

Rotary speed	60-240RPM
Bit Weight on bit	30-120KN