



**Specs: 4 3/4" WS316( 120.65mm)**

**IADC:S223**

**ID:WFN120S16302A**



**Design character:**

■ 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.

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

■ 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..

■ Suit for well drilling in low compressive strength, high drillability soft rock formation. Such as soft limestone, chalk, halite, gypsum, anthracite, brocken sandstone, and rocky soil,etc.

Specialized in Soft oramation for water &mining well,excellent drilling speed &long life-span using.

**Specifications:**

Blade Qty	3
Total Cutters	27
Primary Cutter Size	16mm
Assistant Cutter Size	13.44mm
Gauge Cutter Size	13.44mm
anti-quake ball size	Non
Nozzle Qty.	3
Crown length	88.2mm
Gauge length	48mm
Connetion Size	2 7/8REG
Make-up Torque	4.10-6.20kN.m
Assembly groove wID:th	80mm
Bit Weight	10.3kg

**Operating Parameters:**

Rotary speed	60-300RPM
Flow rate	10-20L/S
Bit Weight on bit	20-60KN