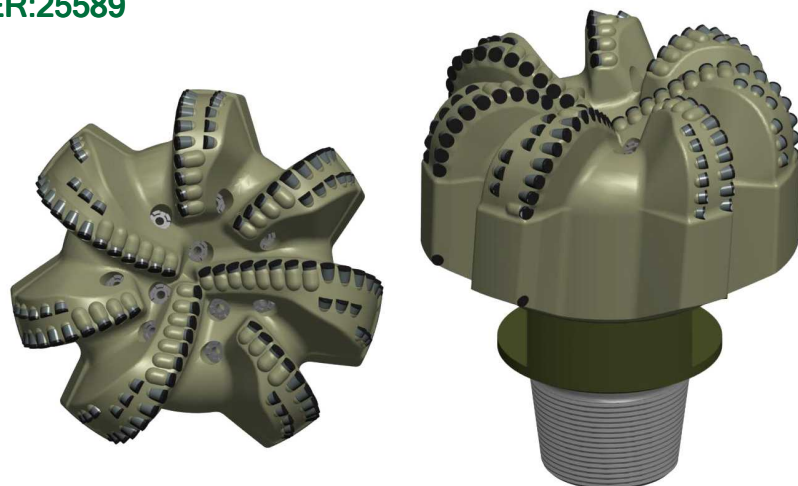


SHARC

16 in MSi716 PDC

(406.4 mm) ID:64910A0101
ER:25589



The Smith High Abrasion Resistance Configuration (SHARC) bits are designed with the durability to withstand the demands of highly abrasive formations without sacrificing ROP.

Specifications

Total Cutters	103
Cutter Size	16mm (5/8 in)
Face Cutters	(58) 16mm
Gauge Cutters	(5) 16mm
Cone Cutters	(19) 16mm
Back-Up Cutters	(21) 16mm
Blade Count	7
Nozzles	10 Standard Series 60N
Bit Connection	7 5/8 Reg
Junk Slot Area, in ²	45.801
Gauge	Length: 4" Protection: Options Available
Length	Make-Up: 13.294 Overall: 18.482
Fishing Neck	Diameter: 9.38 Length: 3.462

Operating Parameters

Rotary Speed	Rotary steerable BHA and Downhole motors
Weight-on-Bit	8,000 To 50,000 (lbf) 3,636 To 22,725 (daN) 4 To 22 (Tonnes)
Flow Rate galUs/min	650 To 1400
Hydraulic Horsepower, HSI	1 To 6

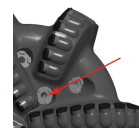
Operating parameters are typical ranges. Please contact your Smith Bits representative for recommendations for your individual well.

SMITH BITS

A Schlumberger Company

FEATURES

- Bit design and performance have been certified through the validation process prescribed by IDEAS simulation technology.
- The PX feature places thermally stable diamond inserts (TSP) on the gauge to maximize gauge retention and extend bit life.
- Bit design is available with ONYX cutters for improved thermal stability in harder, more abrasive formations, resulting in greater wear resistance, cutters remaining sharp longer, more footage drilled, and faster ROP.
- Limited Torque-Blade tops are raised so that the maximum depth of cut is limited by the engagement of the blade tops into the formation. This limits the torque that the bit can produce which is very useful for directional applications which utilize a steerable motor assembly.
- Higher nozzle counts enhance bit cleaning, cooling and cuttings evacuation, and allows for higher flow rates with minimal increases in pump pressure. This improved bottomhole cleaning maximizes ROP.



SHARC

12 1/4 in MSi716 PDC

(311.15 mm) ID:64938B0201
ER:25602



The Smith High Abrasion Resistance Configuration (SHARC) bits are designed with the durability to withstand the demands of highly abrasive formations without sacrificing ROP.

Specifications

Total Cutters	86
Cutter Size	16mm (5/8 in)
Face Cutters	(38) 16mm
Gauge Cutters	(9) 16mm
Cone Cutters	(14) 16mm
Back-Up Cutters	(25) 16mm
Blade Count	7
Nozzles	7 Standard Series 60N
Bit Connection	6 5/8 Reg Box
Junk Slot Area, in ²	28.877
Gauge	Length: 0" Protection: 12.123
Length	Make-Up: 8 Overall: 3.519
Fishing Neck	

Operating Parameters

Rotary Speed	Rotary Steerable BHA and Downhole Motors
Weight-on-Bit	6,000 To 45,000 (lbf) 2,727 To 20,452 (daN) 3 To 20 (Tonnes)
Flow Rate galUs/min	500 To 1200
Hydraulic Horsepower, HSI	1 To 6

Operating parameters are typical ranges. Please contact your Smith Bits representative for recommendations for your individual well.

SMITH BITS

A Schlumberger Company

FEATURES

■ Bit design and performance have been certified through the validation process prescribed by IDEAS simulation technology.

■ The PX feature places thermally stable diamond inserts (TSP) on the gauge to maximize gauge retention and extend bit life.



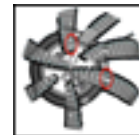
■ Bit design is available with ONYX cutters for improved thermal stability in harder, more abrasive formations, resulting in greater wear resistance, cutters remaining sharp longer, more footage drilled, and faster ROP.



■ Extended gauge pad length



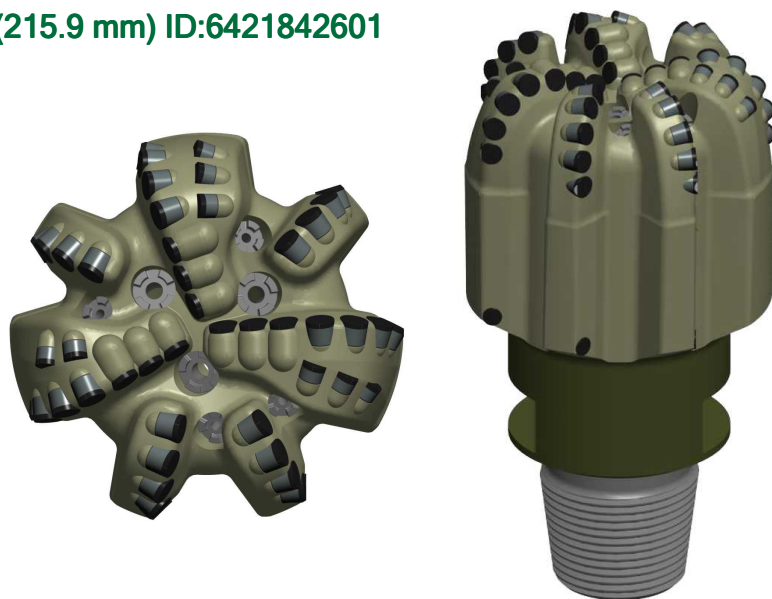
■ Lo-Vibe inserts protect cutters from impact damage while drilling out, and prolong bit life



SHARC

8 1/2 in MSi716 PDC

(215.9 mm) ID:6421842601



The Smith High Abrasion Resistance Configuration (SHARC) bits are designed with the durability to withstand the demands of highly abrasive formations without sacrificing ROP.

Specifications

Total Cutters	90
Cutter Size	13mm (1/2 in), 16mm (5/8 in)
Face Cutters	(8) 13mm, (68) 16mm
Gauge Cutters	(14) 16mm
Blade Count	7
Nozzles	3 Standard Series 60N, 4 Standard Series 50N
Bit Connection	4 1/2 Reg
Junk Slot Area, in ²	22.4
Gauge	Length: 4" Protection: Options Available
Length	Make-Up: 11.737 Overall: 15.925
Fishing Neck	Diameter: 6.1 Length: 3.722

Operating Parameters

Rotary Speed	Suitable for Rotary & PDM
Weight-on-Bit	4,000 To 35,000 (lbf) 1,818 To 15,908 (daN) 2 To 16 (Tonnes)
Flow Rate galUs/min	325 To 800
Hydraulic Horsepower, HSI	1 To 6
Recommended Make-up Torque	16,600 To 21,600 ft/lbs

Operating parameters are typical ranges. Please contact your Smith Bits representative for recommendations for your individual well.

SMITH BITS

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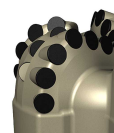
FEATURES

■ Bit design and performance have been certified through the validation process prescribed by IDEAS simulation technology.

■ The PX feature places thermally stable diamond inserts (TSP) on the gauge to maximize gauge retention and extend bit life.



■ Bit design is available with ONYX cutters for improved thermal stability in harder, more abrasive formations, resulting in greater wear resistance, cutters remaining sharp longer, more footage drilled, and faster ROP.



■ Extended gauge pad length

