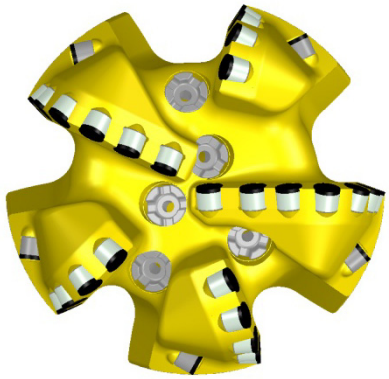
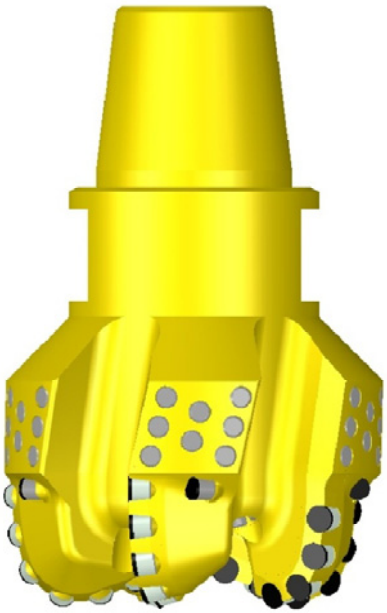
Secoroc Rotary Products

Dirt Digger PDC Bits



8-3/4” DP516

Adding value through performance



Applications:

- Cost effective PDC drill bit ideally suited for mining, construction, fiber optic, water well, geothermal and shallow oil & gas drilling
- Tapered parabolic profile design offers an optimal combination of cutter protection and ROP capabilities for a variety of formations and drilling conditions
- PDC bit advantages over a traditional roller cone bit include longer bit life, smoother drilling operations and increased penetration rates

Design Features:

- 3D designed one-piece 4140 alloy steel body is CNC machined to exact design specifications for maximum blade and body strength
- Optimized cutter distribution profile for blade count, cutter quantity, drilling conditions and bit stability
- Force-balanced PDC cutter locations minimize bit whirl and drill a precise round hole
- Asymmetrical blade layout reduces drilling harmonics
- Dirt Digger Premium (DP) bits have Tungsten Carbide Hardface applied to critical areas of the bit for erosion resistance

Product Specifications:

General Data:

- Body Type	One-piece Steel
- Gage Length	2.125 in / 53.975 mm
- Overall Length	13.93 in / 353.85 mm
- Shipping Weight	TBD
- Product Number	91002883

Connection:

- Pin Connection	4-1/2” API Reg Pin
- Fishneck Diameter	5.75 in / 146.05 mm
- Fishneck Length	2.98 in / 75.89 mm
- Make-Up Length	9.74 in / 247.5 mm
- Make-Up Torque	14,600-19,200 ft-lbs

Cutting Structure:

- Face Cutters	26 @ 16 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	5 @ 13 mm PDC

Hydraulics:

- Nozzle Type	5 @ LOP Nozzle
- TFA	.38 in^2 to 1.53 in^2

Recommended Operating Parameters:

- Weight on Bit (WOB)	4,000-20,000 lbs
- Rotary Speed (RPM)	60-150 RPM

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