

# Secoroc Rotary Products

## Dirt Digger PDC Bits

### 6-1/2" D513

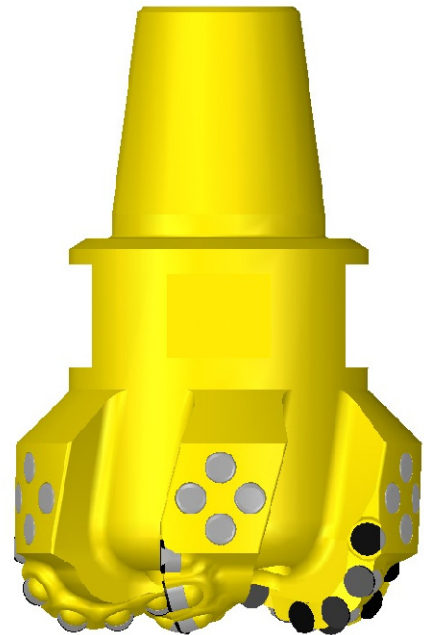
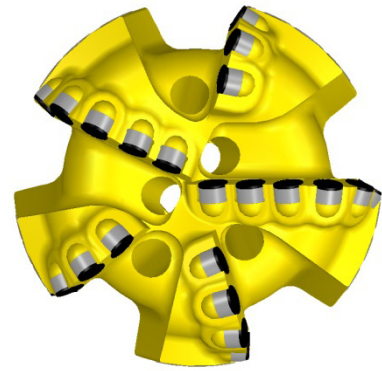
Adding value through performance

#### 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



### Product Specifications:

#### General Data:

- Body Type	One-piece Steel
- Gage Length	1.75 in / 44.45 mm
- Overall Length	10.03 in / 254.84 mm
- Shipping Weight	TBD
- Product Number	91002867

#### Connection:

- Pin Connection	3-1/2" API Reg Pin
- Fishneck Diameter	4.75 in / 120.65 mm
- Fishneck Length	2.42 in / 61.47 mm
- Make-Up Length	6.35 in / 161.16 mm
- Make-Up Torque	6,300-8,400 ft-lbs

#### Cutting Structure:

- Face Cutters	20 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	6 @ 13 mm PDC

#### Hydraulics:

- Nozzle Type	5 @ 22/32" Ports
- TFA	1.86 in <sup>2</sup>

#### Recommended Operating Parameters:

- Weight on Bit (WOB)	3,000-15,000 lbs
- Rotary Speed (RPM)	60-150 RPM

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