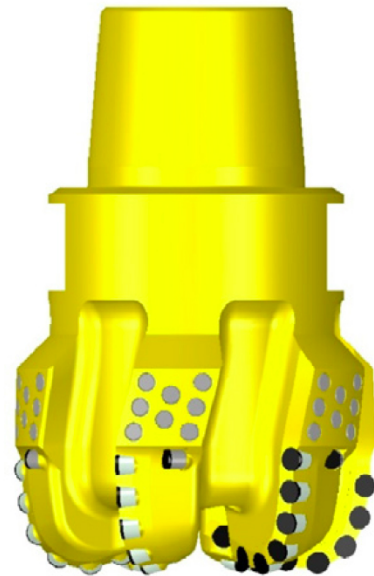
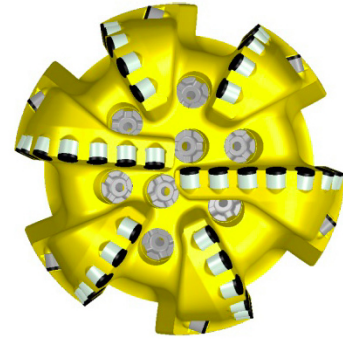


# Dirt Digger PDC Bits

## 9-7/8" DP616

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	2.12 in / 53.92 mm
- Overall Length	15.26 in / 387.5 mm
- Shipping Weight	TBD
- Product Number	91002884

### Cutting Structure:

- Face Cutters	37 @ 16 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	5 @ 13 mm PDC

### Connection:

- Pin Connection	6-5/8" API Reg Pin
- Fishneck Diameter	8.0 in / 203.2 mm
- Fishneck Length	3.76 in / 95.48 mm
- Make-Up Length	10.32 in / 262.08 mm
- Make-Up Torque	38,600-51,500 ft-lbs

### Hydraulics:

- Nozzle Type	8 @ LOP Nozzle
- TFA	.61 in <sup>2</sup> to 2.45 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	5,000-25,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 12-1/4" DP616

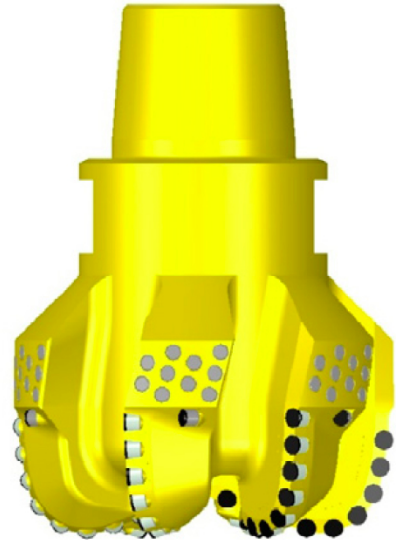
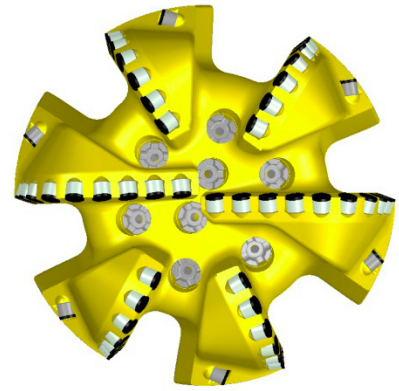
Adding value through performance

### 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	2.12 in / 53.92 mm
- Overall Length	17.19 in / 436.5 mm
- Shipping Weight	TBD
- Product Number	91002885

#### Cutting Structure:

- Face Cutters	47 @ 16 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	5 @ 13 mm PDC

#### Connection:

- Pin Connection	6-5/8" API Reg Pin
- Fishneck Diameter	8.0 in / 203.2 mm
- Fishneck Length	3.77 in / 95.78 mm
- Make-Up Length	12.25 in / 311.1 mm
- Make-Up Torque	38,600-51,500 ft-lbs

#### Hydraulics:

- Nozzle Type	8 @ LOP Nozzle
- TFA	.61 in <sup>2</sup> to 2.45 in <sup>2</sup>

#### Recommended Operating Parameters:

- Weight on Bit (WOB)	5,000-25,000 lbs
- Rotary Speed (RPM)	60-150 RPM



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