

# Dirt Digger D013 Series PDC Bits



4-3/4" D013

## Applications:

- Cost effective PDC drill bit ideally suited for mining, construction, fiber optic, water well, geothermal and shallow oil & gas drilling
- Flat parabolic profile design offers maximum protection when drilling non-homogeneous and unconsolidated formations
- 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

Bit Size	Pin Connections Available	Number of 13mm Cutters	Port Count and Size	TFA
3"	NWJ Box	6	3 @ 12/32	0.33 in <sup>2</sup>
3-3/4"	2-3/8" API Reg, 2-1/2" UNC Box, NW Rod	8	3 @ 20/32"	0.92 in <sup>2</sup>
3-7/8"	2-3/8" API Reg, 2-1/2" UNC Box, NW Rod	8	3 @ 20/32"	0.92 in <sup>2</sup>
4-1/4"	2-3/8" API Reg	9	3 @ 20/32"	0.92 in <sup>2</sup>
4-1/2"	2-7/8" API Reg	10	3 @ 22/32"	1.11 in <sup>2</sup>
4-3/4"	2-7/8" API Reg	11	3 @ 22/32"	1.11 in <sup>2</sup>
4-7/8"	2-7/8" API Reg	11	3 @ 25/32"	1.44 in <sup>2</sup>
5-1/8"	2-7/8" API Reg	12	3 @ 25/32"	1.44 in <sup>2</sup>
5-5/8"	2-7/8" API Reg, 3-1/2" API Reg	14	3 @ 25/32"	1.44 in <sup>2</sup>

# Dirt Digger PDC Bits

## 3" D013

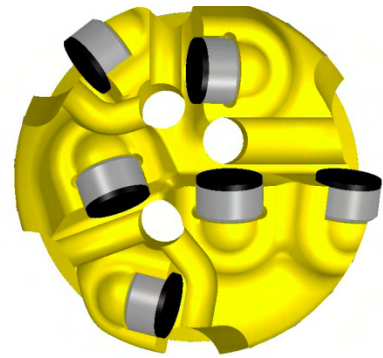
Adding value through performance

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- 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	1.375 in / 34.925 mm
- Overall Length	4.4 in / 111.8 mm
- Shipping Weight	TBD
- Product Number	91002861

### Cutting Structure:

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

### Connection:

- Pin Connection	NWJ Box
- Fishneck Diameter	2.625 in / 66.675 mm
- Fishneck Length	1.842 in / 46.79 mm
- Make-Up Length	4.4 in / 111.8 mm
- Make-Up Torque	TBD

### Hydraulics:

- Nozzle Type	3 @ 12/32" Ports
- TFA	.33 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 3-3/4" D013

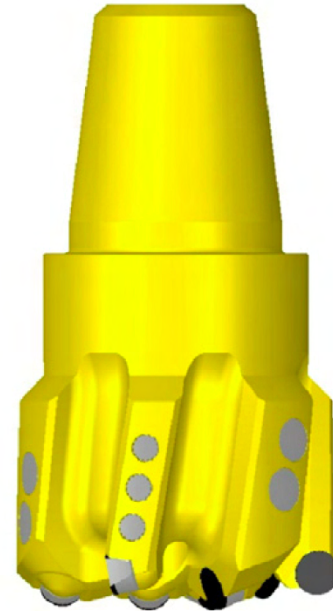
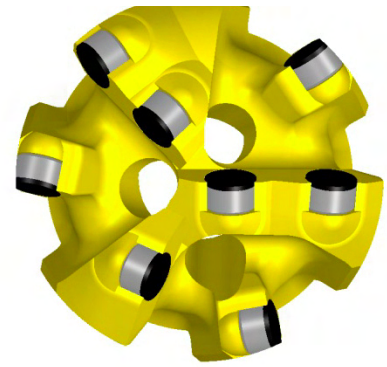
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- Asymmetrical blade layout reduces drilling harmonics



## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	2.1 in / 53.34 mm
- Overall Length	7.14in / 181.4 mm
- Shipping Weight	TBD
- Product Number	91002846

### Cutting Structure:

- Face Cutters	8 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-3/8" API Reg Pin
- Fishneck Diameter	3.125 in / 79.375 mm
- Fishneck Length	1.42 in / 36.1 mm
- Make-Up Length	4.2 in / 106.7 mm
- Make-Up Torque	2,300-3,000 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 3-3/4" D013

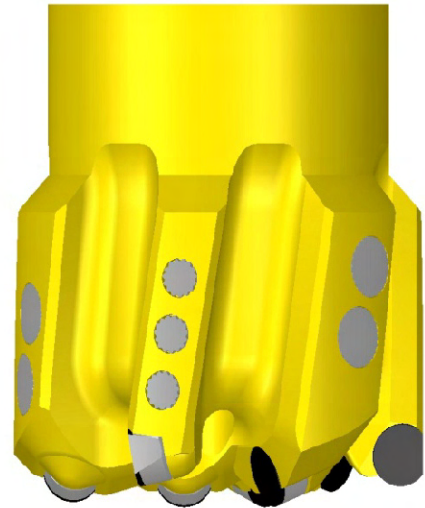
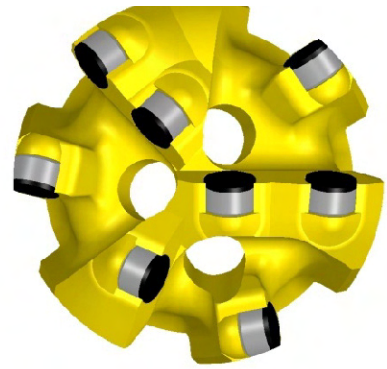
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## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	2.75 in / 69.85 mm
- Overall Length	3.72 in / 94.49 mm
- Shipping Weight	TBD
- Product Number	91002849

### Cutting Structure:

- Face Cutters	8 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-1/2" UNC Box
- Fishneck Diameter	3.125 in / 79.38 mm
- Fishneck Length	1.42 in / 36.1 mm
- Make-Up Length	3.72 in / 94.49 mm
- Make-Up Torque	TBD

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 3-3/4" D013

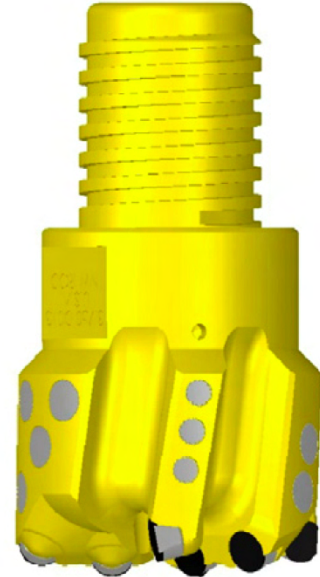
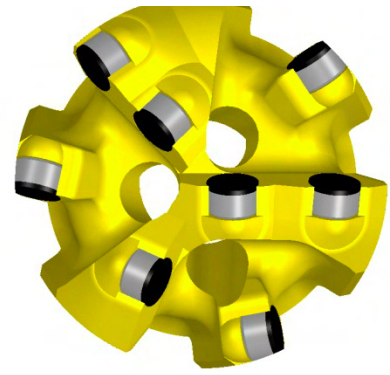
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- Asymmetrical blade layout reduces drilling harmonics



## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	2.0 in / 50.8 mm
- Overall Length	7.0 in / 177.8 mm
- Shipping Weight	TBD
- Product Number	91002850

### Cutting Structure:

- Face Cutters	8 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	NW Rod
- Fishneck Diameter	3.125 in / 79.375 mm
- Fishneck Length	1.42 in / 36.07 mm
- Make-Up Length	4.24 in / 107.7 mm
- Make-Up Torque	TBD

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



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# Dirt Digger PDC Bits

## 3-7/8" D013

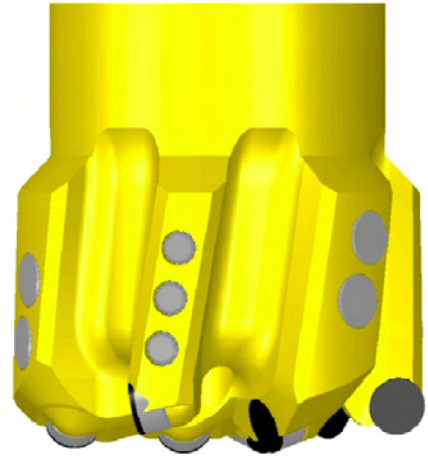
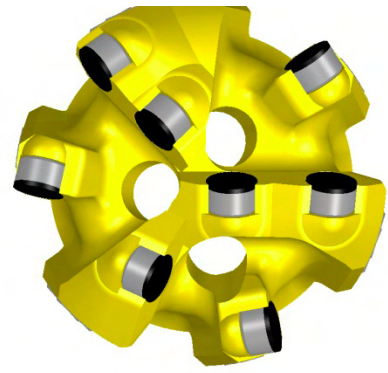
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- Asymmetrical blade layout reduces drilling harmonics



## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	2.06 in / 52.3 mm
- Overall Length	3.87 in / 98.298 mm
- Shipping Weight	TBD
- Product Number	91002852

### Cutting Structure:

- Face Cutters	8 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-1/2" UNC Box
- Fishneck Diameter	3.125 in / 79.375 mm
- Fishneck Length	1.41 in / 35.814 mm
- Make-Up Length	3.87 in / 98.3 mm
- Make-Up Torque	TBD

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



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# Dirt Digger PDC Bits

## 3-7/8" D013

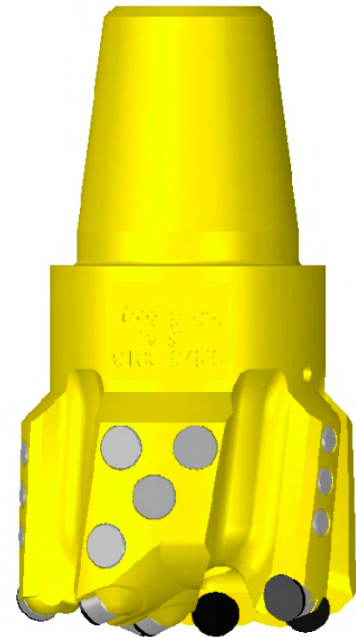
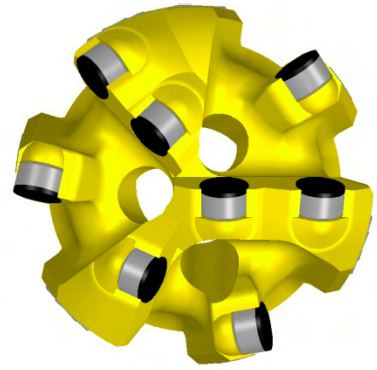
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- Asymmetrical blade layout reduces drilling harmonics



## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	2.06 in / 52.3 mm
- Overall Length	7.14 in / 180.3 mm
- Shipping Weight	TBD
- Product Number	91002851

### Cutting Structure:

- Face Cutters	8 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-3/8" API Reg Pin
- Fishneck Diameter	3.125 in / 79.38 mm
- Fishneck Length	1.42 in / 36.1 mm
- Make-Up Length	4.2 in / 106.7 mm
- Make-Up Torque	2,300-3,000 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 3-7/8" D013

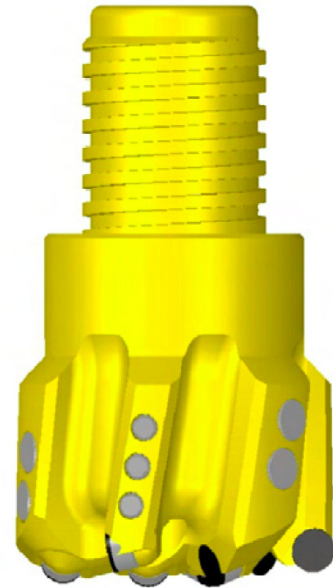
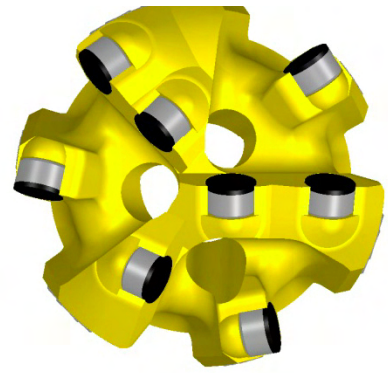
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- Force-balanced PDC cutter locations minimize bit whirl and drill a precise round hole
- Asymmetrical blade layout reduces drilling harmonics



## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	2.06 in / 52.3 mm
- Overall Length	7.0 in / 177.8 mm
- Shipping Weight	TBD
- Product Number	91002853

### Cutting Structure:

- Face Cutters	8 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	NW Rod
- Fishneck Diameter	3.125 in / 79.4 mm
- Fishneck Length	1.5 in / 38.1 mm
- Make-Up Length	4.24 in / 107.7 mm
- Make-Up Torque	TBD

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



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# Dirt Digger PDC Bits

## 4-1/4" D013

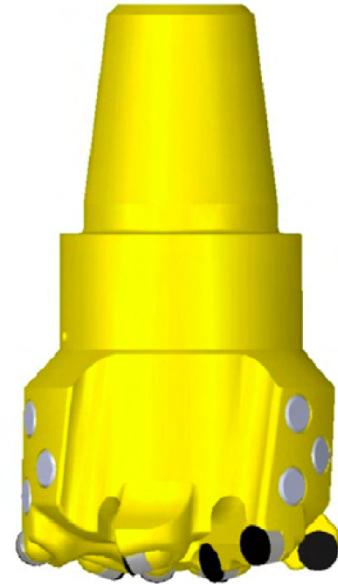
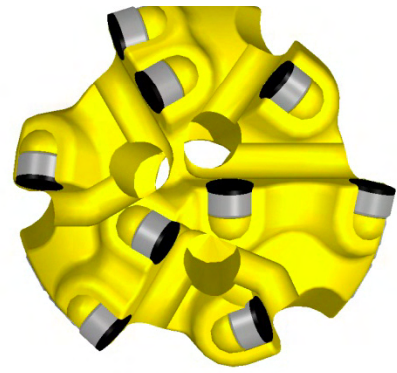
Adding value through performance

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### Design Features:

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- 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	1.45 in / 36.78 mm
- Overall Length	7.44 in / 189.03 mm
- Shipping Weight	TBD
- Product Number	91002854

### Cutting Structure:

- Face Cutters	9 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-3/8" API Reg Pin
- Fishneck Diameter	3.125 in / 79.38 mm
- Fishneck Length	1.49 in / 37.74 mm
- Make-Up Length	4.5 in / 114.4 mm
- Make-Up Torque	2,300-3,000 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 20/32" Ports
- TFA	.92 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 4-1/2" D013

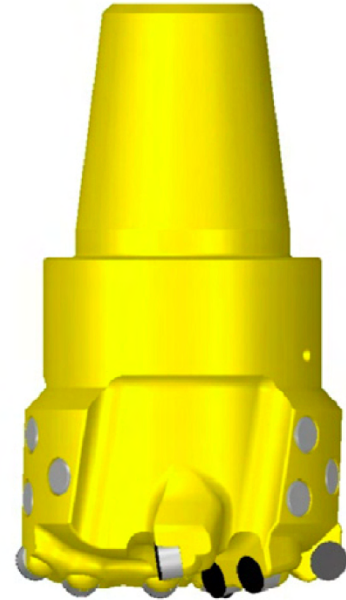
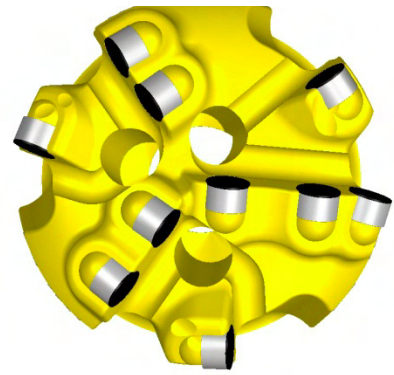
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### Design Features:

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- 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	1.38 in / 35.03 mm
- Overall Length	8.0 in / 203.8 mm
- Shipping Weight	TBD
- Product Number	91002855

### Cutting Structure:

- Face Cutters	10 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-7/8" API Reg Pin
- Fishneck Diameter	3.75 in / 92.25mm
- Fishneck Length	1.75 in / 44.45 mm
- Make-Up Length	4.58 in / 116.4 mm
- Make-Up Torque	3,700-4,900 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 22/32" Ports
- TFA	1.11 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 4-3/4" D013

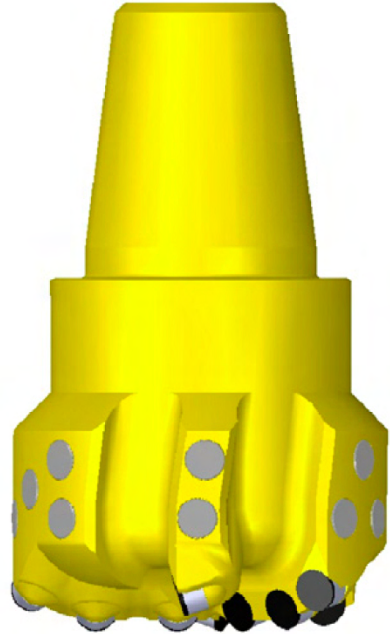
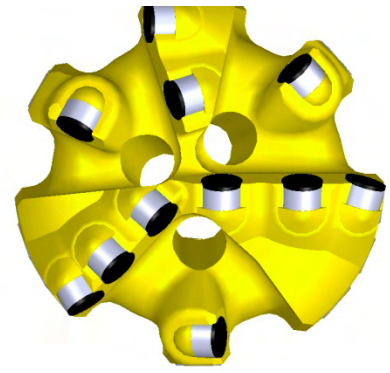
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## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	1.97 in / 50.04 mm
- Overall Length	7.85 in / 199.4 mm
- Shipping Weight	TBD
- Product Number	91002856

### Cutting Structure:

- Face Cutters	11 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-7/8" API Reg Pin
- Fishneck Diameter	3.75 in / 95.25 mm
- Fishneck Length	1.43 in / 36.32 mm
- Make-Up Length	4.41 in / 112.01 mm
- Make-Up Torque	3,700-4,900 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 22/32" Ports
- TFA	1.11 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 4-7/8" D013

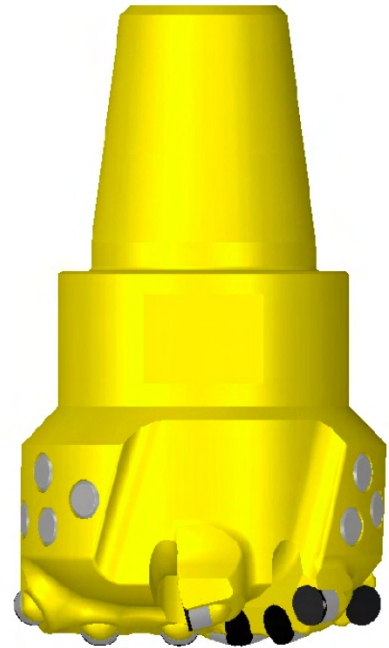
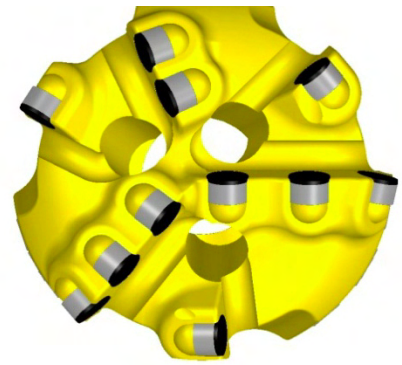
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## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	1.41 in / 35.89 mm
- Overall Length	8.29 in / 210.57 mm
- Shipping Weight	TBD
- Product Number	91002857

### Cutting Structure:

- Face Cutters	11 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-7/8" API Reg Pin
- Fishneck Diameter	3.75 in / 95.25 mm
- Fishneck Length	1.75 in / 44.45 mm
- Make-Up Length	4.85 in / 123.2 mm
- Make-Up Torque	3,700-4,900 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 25/32" Ports
- TFA	1.44 in <sup>2</sup>

### Recommended Operating Parameters:

- Weight on Bit (WOB)	2,000-10,000 lbs
- Rotary Speed (RPM)	60-150 RPM



# Dirt Digger PDC Bits

## 5-1/8" D013

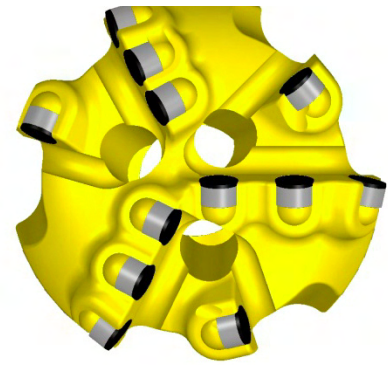
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- Asymmetrical blade layout reduces drilling harmonics



## Product Specifications:

### General Data:

- Body Type	One-piece Steel
- Gage Length	1.41 in / 35.89 mm
- Overall Length	8.55 in / 217.12 mm
- Shipping Weight	TBD
- Product Number	91002858

### Cutting Structure:

- Face Cutters	12 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-7/8" API Reg Pin
- Fishneck Diameter	3.75 in / 95.25 mm
- Fishneck Length	1.75 in / 44.45 mm
- Make-Up Length	5.11 in / 129.8 mm
- Make-Up Torque	3,700-4,900 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 25/32" Ports
- TFA	1.44 in <sup>2</sup>

### Recommended Operating Parameters:

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



# Dirt Digger PDC Bits

## 5-5/8" D013

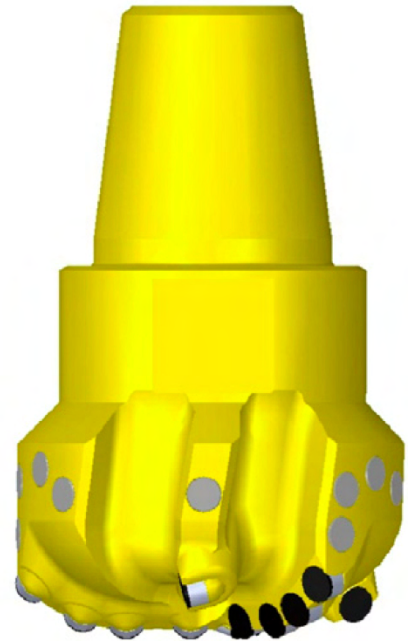
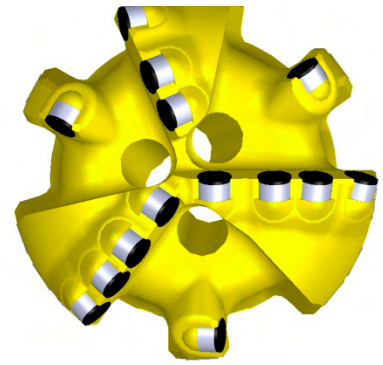
Adding value through performance

### Applications:

- Cost effective PDC drill bit ideally suited for mining, construction, fiber optic, water well, geothermal and shallow oil & gas drilling
- Flat parabolic profile design offers maximum protection when drilling non-homogeneous and unconsolidated formations
- 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	1.25 in / 31.75 mm
- Overall Length	9.01 in / 228.8 mm
- Shipping Weight	TBD
- Product Number	91002859

### Cutting Structure:

- Face Cutters	14 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	3-1/2" API Reg Pin
- Fishneck Diameter	4.375 in / 111.125 mm
- Fishneck Length	1.875 in / 47.625 mm
- Make-Up Length	5.32 in / 135.15 mm
- Make-Up Torque	6,300-8,400 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 25/32" Ports
- TFA	1.44 in <sup>2</sup>

### Recommended Operating Parameters:

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



# Dirt Digger PDC Bits

## 5-5/8" D013

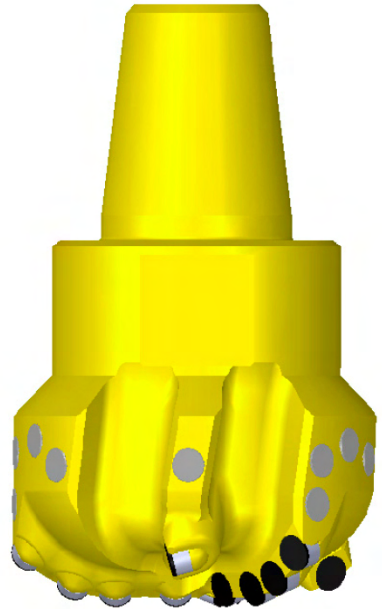
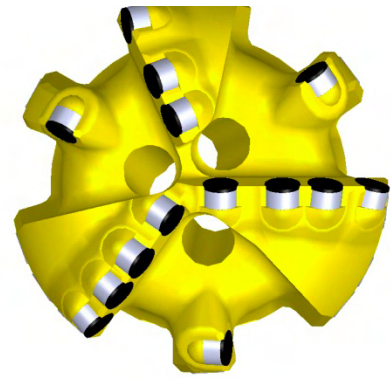
Adding value through performance

### Applications:

- Cost effective PDC drill bit ideally suited for mining, construction, fiber optic, water well, geothermal and shallow oil & gas drilling
- Flat parabolic profile design offers maximum protection when drilling non-homogeneous and unconsolidated formations
- 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	1.25 in / 31.75 mm
- Overall Length	8.76 in / 222.45 mm
- Shipping Weight	TBD
- Product Number	91002860

### Cutting Structure:

- Face Cutters	14 @ 13 mm PDC
- Back-Up Cutters	N/A
- Gage Cutters	N/A

### Connection:

- Pin Connection	2-7/8" API Reg Pin
- Fishneck Diameter	4.375 in / 111.125 mm
- Fishneck Length	1.875 in / 47.625 mm
- Make-Up Length	5.32 in / 135.15 mm
- Make-Up Torque	3,700-4,900 ft-lbs

### Hydraulics:

- Nozzle Type	3 @ 25/32" Ports
- TFA	1.44 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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