

6 3/4" 542



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.

Designed for soft formations with low compressive strengths such as shale, soft limestone, dolomite with interlayers and coal ore.

Application: 15,000-23,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 5 4 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 3 1/2" API

Metric Bit Diameter: 171mm

Product Weight: 21KG

OPERATING SUGGESTIONS

Weight on Bit: 13,500-33,750lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 110-80RPM

MAXDRILL ROCK TOOLS CO.,LTD.

Add : No.14-16,12th Floor,Building B6,Zhongjian Building,No.1

Luchongguan Road,Yunyan District,Guiyang,Guizhou,China

Tel : 0086-851-88517787/88639106 Fax : 0086-851-88639108

Web : www.maxdrillrocktools.com Mail: office@kemaico.com

Operating parameters are typical ranges and may vary depending on ground conditions

6 3/4" 632



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.

Designed for medium-hard and abrasive formations with high compressive strengths such as limestone, sandstone, dolomite and chert.

Application: 25,000-42,500Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 6 3 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 3 1/2" API

Metric Bit Diameter: 171mm

Product Weight: 20KG

OPERATING SUGGESTIONS

Weight on Bit: 27,000-47,000lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 120-50RPM

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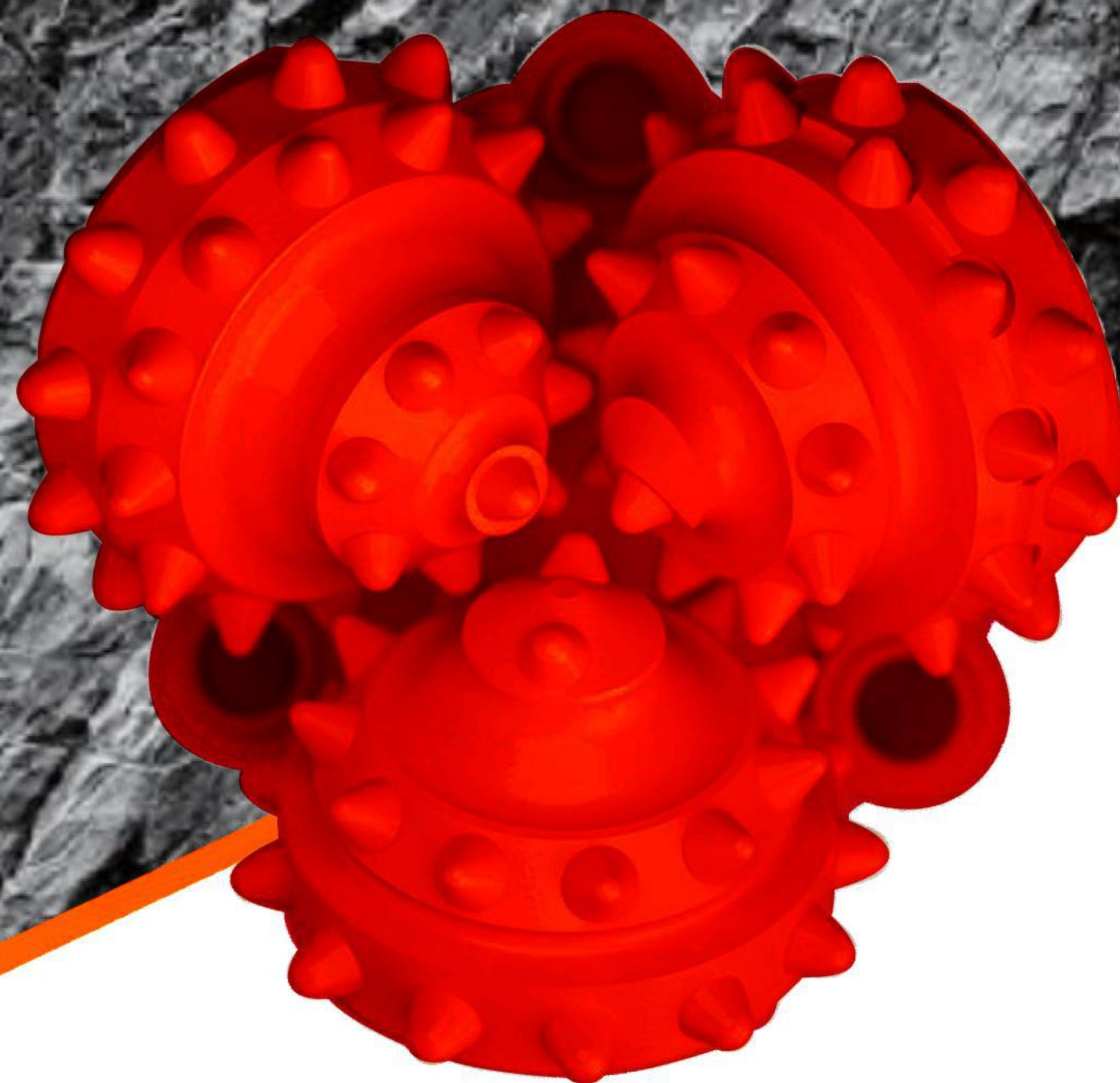
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6 3/4" 642



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.
Designed for medium-hard and abrasive formations with high compressive strengths such as limestone, sandstone, dolomite and chert.

Application: 25,000-42,500Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 6 4 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 3 1/2" API

Metric Bit Diameter: 171mm

Product Weight: 20KG

OPERATING SUGGESTIONS

Weight on Bit: 27,000-47,000lbs

Rotary Speed: 120-50RPM

Air Back Pressure: 0.2-0.4MPa

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6 3/4" 732



CUTTING STRUCTURE

Ovoid on gage, Ogive on inner rows.

Designed for hard and abrasive formations with high compressive strengths such as granite, limestone, sandy sandstone, dolomite and chert.

Application: 43,000-52,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 7 3 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Ogive

-Gage Rows: Ovoid

-Gage Bevel Protection: Round

Pin Connection: 3 1/2" API

Metric Bit Diameter: 171mm

Product Weight: 21KG

OPERATING SUGGESTIONS

Weight on Bit: 27,000-47,250lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 90-60RPM

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Operating parameters are typical ranges and may vary depending on ground conditions

7 7/8" 412



CUTTING STRUCTURE

Chisel on gage, Conical on inner rows.

Designed for very soft formations with low compressive strengths and high drillability such as shale, soft limestone, sandstone, soft dolomite and coal ore.

Application: 4,000-7,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 4 1 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Chisel

-Gage Bevel Protection: Round

Pin Connection: 4 1/2" API

Metric Bit Diameter: 200mm

Product Weight: 34KG

OPERATING SUGGESTIONS

Weight on Bit: 7,880-15,750lbs

Rotary Speed: 120-90RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

7 7/8 " 545



CUTTING STRUCTURE

Conical on gage, Ovoid on inner rows.
 Designed for medium-soft formations with low compressive strengths such as shale, soft limestone, dolomite with interlayers and coal ore.
 Application: 18,000-27,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 5 4 5	-Inner and Nose Rows: Conical
Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing	-Gage Rows: Conical
Circulation Type: Jet Air	-Gage Bevel Protection: Round
Cutting Structure:	Pin Connection: 4 1/2" API
	Metric Bit Diameter: 200mm
	Product Weight: 34KG

OPERATING SUGGESTIONS

Weight on Bit: 15,750-39,380lbs	Air Back Pressure:0.2-0.4MPa
Rotary Speed: 110-80RPM	

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Operating parameters are typical ranges and may vary depending on ground conditions

7 7/8" 635



CUTTING STRUCTURE

Conical on gage, Ogive on inner rows.
 Designed for medium-hard and abrasive formations with high compressive strengths such as limestone, sandstone, dolomite and chert.
 Application: 29,000-38,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 635
 Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing
 Circulation Type: Jet Air
 Cutting Structure:

-Inner and Nose Rows: Ogive
 -Gage Rows: Conical
 -Gage Bevel Protection: Round
 Pin Connection: 4 1/2" API
 Metric Bit Diameter: 200mm
 Product Weight: 34KG

OPERATING SUGGESTIONS

Weight on Bit: 23,630-47,250lbs
 Rotary Speed: 100-60RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

8 1/2" 545



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.

Designed for medium-soft formations with low compressive strengths such as shale, soft limestone, dolomite with interlayers and coal ore.

Application: 18,000-27,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 5 4 5

Bearing Type: Roller-Ball-Roller-

Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 4 1/2" API

Metric Bit Diameter: 216mm

Product Weight: 36KG

OPERATING SUGGESTIONS

Weight on Bit: 15,750-39,380lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 110-80RPM

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Operating parameters are typical ranges and may vary depending on ground conditions

9" 412



CUTTING STRUCTURE

Chisel on gage, Chisel on inner rows.

Designed for very soft formations with low compressive strengths and high drillability such as shale, soft limestone, sandstone, soft dolomite and coal ore.

Application: 4,000-7,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 4 1 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Chisel

Gage Rows: Chisel

-Gage Bevel Protection: Round

Pin Connection: 4 1/2" API

Metric Bit Diameter: 229mm

Product Weight: 50KG

OPERATING SUGGESTIONS

Weight on Bit: 9,000-18,000lbs

Rotary Speed: 120-90RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

9" 845



CUTTING STRUCTURE

Ovoid on gage, Ovoid on inner rows.
 Designed for extremely hard and abrasive formations with high compressive strengths such as magnetite quartzite, quartzite, granite.
 Application: 58,000-70,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 8 4 5	-Inner and Nose Rows: Ovoid
Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing	-Gage Rows: Ovoid
Circulation Type: Jet Air	-Gage Bevel Protection: Round
Cutting Structure:	Pin Connection: 4 1/2" API
	Metric Bit Diameter: 229mm
	Product Weight: 50KG

OPERATING SUGGESTIONS

Weight on Bit: 45,000-72,000lbs	Air Back Pressure: 0.2-0.4MPa
Rotary Speed: 80-50RPM	

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9 7/8" 545



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.

Designed for medium-soft formations with low compressive strengths such as shale, soft limestone, dolomite with interlayers and coal ore.

Application: 18,000-27,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 5 4 5

Bearing Type: Roller-Ball-Roller-

Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 251mm

Product Weight: 65KG

OPERATING SUGGESTIONS

Weight on Bit: 19,750-49,380lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 110-80RPM

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9 7/8" 642



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.
Designed for medium-hard and abrasive formations with high compressive strengths such as shales, soft limestones, dolomites and chert.

Application: 29,000-38,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 6 4 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 251mm

Product Weight: 65KG

OPERATING SUGGESTIONS

Weight on Bit: 29,625-59,250lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 100-60RPM

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Operating parameters are typical ranges and may vary depending on ground conditions

9 7/8" 645



CUTTING STRUCTURE

Conical on gage, Conical on inner rows.
Designed for medium-hard and abrasive formations with high compressive strengths such as shales, soft limestones, dolomites and chert.

Application: 29,000-38,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 6 4 5

Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 251mm

Product Weight: 65KG

OPERATING SUGGESTIONS

Weight on Bit: 29,625-59,250lbs

Rotary Speed: 100-60RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

9 7/8" 712



CUTTING STRUCTURE

Conical on gage, ogive on inner rows.
Designed for hard and abrasive formations with high compressive strengths such as granite, limestones, sandy sandstone, dolomites and chert.

Application: 37,000-44,000Psi

SHIRTTAIL PROTECTION

Hardmetal and wear resistant carbide on shirrtail lip and lug .

PRODUCT SPECIFICATION

IADC Code: 7 1 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Ogive

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 251mm

Product Weight: 65KG

OPERATING SUGGESTIONS

Weight on Bit: 39,500-59,250lbs

Rotary Speed: 90-60RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

9 7/8" 715



CUTTING STRUCTURE

Conical on gage, ogive on inner rows.
Designed for hard and abrasive formations with high compressive strengths such as granite, limestones, sandy sandstone, dolomites and chert.

Application: 37,000-44,000Psi

SHIRTTAIL PROTECTION

Hardmetal and wear resistant carbide on shirrtail lip and lug .

PRODUCT SPECIFICATION

IADC Code: 7 1 5

Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Ogive

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 251mm

Product Weight: 65KG

OPERATING SUGGESTIONS

Weight on Bit: 39,500-59,250lbs

Rotary Speed: 90-60RPM

Air Back Pressure: 0.2-0.4MPa

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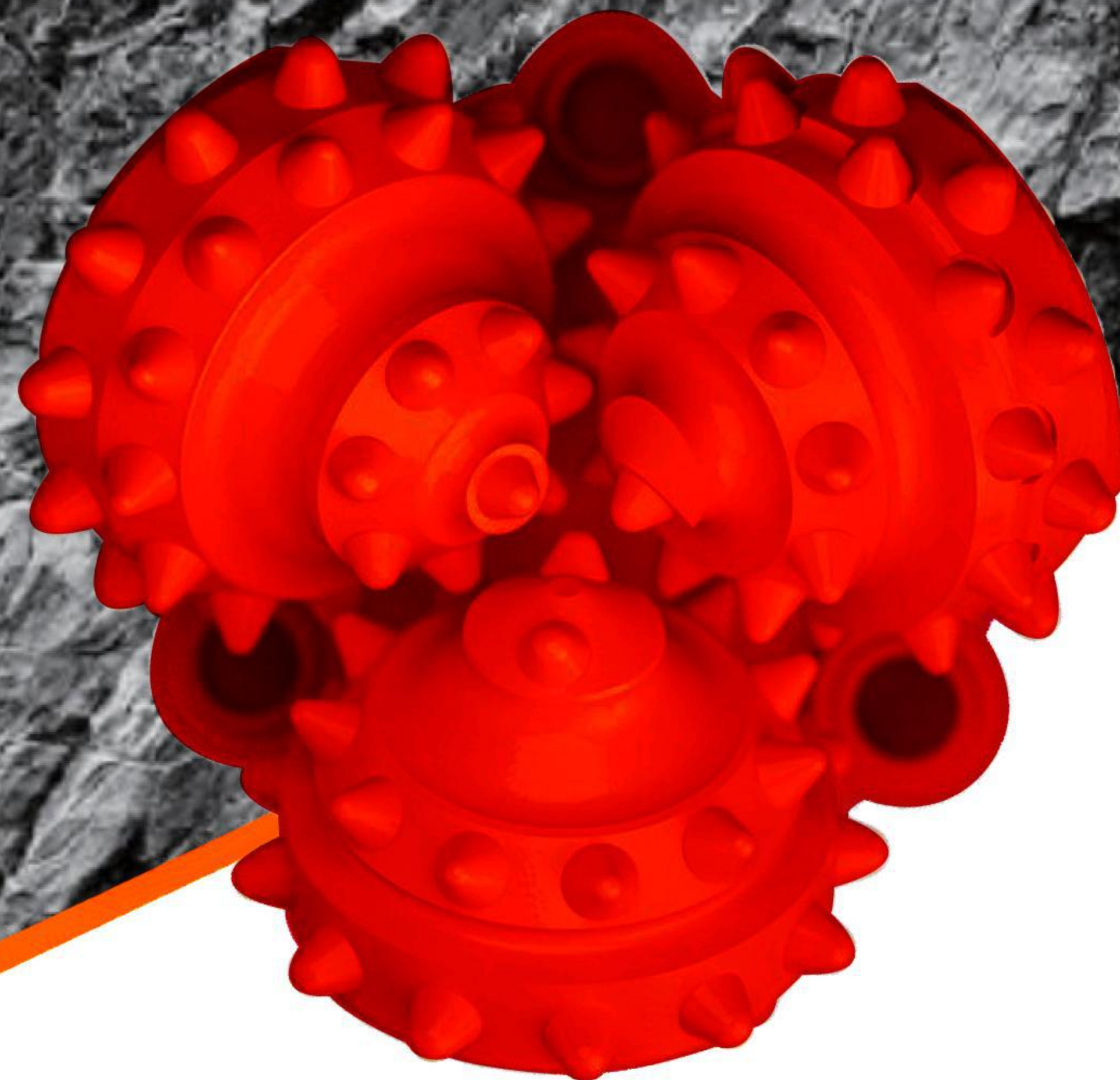
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Operating parameters are typical ranges and may vary depending on ground conditions

9 7/8" 745



CUTTING STRUCTURE

Ovoid on gage, the bullet shaped on inner rows.
Designed for hard and semi-abrasive formations with high compressive strengths such as hard shale, sandstone, limestone, dolomite, chert.

Application: 43,000-52,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirttail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 745

Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: The bullet shaped

-Gage Rows: Ovoid

-Gage Bevel Protection: Round Pin

Connection: 6 5/8" API

Metric Bit Diameter: 251mm

Product Weight: 65KG

OPERATING SUGGESTIONS

Weight on Bit: 39,500-66,000lbs

Rotary Speed: 90-60RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

10 5/8" 632



CUTTING STRUCTURE

Conical on gage, ogive on inner rows.
Designed for medium hard and abrasive formations with high compressive strengths such as limestones, sandstone, dolomites and chert.

Application: 32,000-42,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug ; wear resistant carbide on shirrtail lip and lug .

PRODUCT SPECIFICATION

IADC Code: 632

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Ogive

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 270mm

Product Weight: 83KG

OPERATING SUGGESTIONS

Weight on Bit: 31,880-63,750lbs

Rotary Speed: 100-60RPM

Air Back Pressure: 0.2-0.4MPa

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Operating parameters are typical ranges and may vary depending on ground conditions

11" 742



CUTTING STRUCTURE

Ovoid on gage, the bullet shaped on inner rows.
 Designed for hard and semi-abrasive formations with high compressive strengths such as hard shale, sandstone, limestone, dolomite, chert and copper ore.
 Application: 46,000-56,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 7 4 2	-Inner and Nose Rows: The bullet shaped
Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing	-Gage Rows: Ovoid
Circulation Type: Jet Air	-Gage Bevel Protection: Round Pin
Cutting Structure:	Connection: 6 5/8" API
	Metric Bit Diameter: 279mm Product Weight: 74KG

OPERATING SUGGESTIONS

Weight on Bit: 43,000-66,000lbs Air Back Pressure: 0.2-0.4MPa
 Rotary Speed: 90-60RPM

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Operating parameters are typical ranges and may vary depending on ground conditions

12 1/4" 545



CUTTING STRUCTURE

Conical on gage, Ogive on inner rows.

Designed for medium-soft formations with low compressive strengths such as shale, soft limestone, dolomite with interlayers and coal ore.

Application: 15,000-23,000Psi

SHIRTTAIL PROTECTION

Hardmetal on lug:

Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 545

Bearing Type: Roller-Ball-Roller-Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Ogive

-Gage Rows: Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 310mm

Product Weight: 100KG

OPERATING SUGGESTIONS

Weight on Bit: 24,500-61,250lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 110-80RPM

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Operating parameters are typical ranges and may vary depending on ground conditions

12 1/4" 642



CUTTING STRUCTURE

Gauge rows are ovoid type and inner rows are conical type;
Designed for medium hard and abrasive formation with high compressive strengths such as limestone, sandstone, dolomite and chert.

Application: 29,000-38,000Psi

SHIRTTAIL PROTECTION

Two rows tungsten carbide on the shirrtail;
wear resistant carbide on the side of lug.

PRODUCT SPECIFICATION

IADC Code: 6 4 2

Bearing Type: Roller-Ball-Roller- Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure: -Inner and Nose Rows: Conical -Gage Rows: Ovoid

Pin Connection: 6 5/8" API

Bit Diameter: 311mm (12 1/4") Product Weight: 100KGS

OPERATING SUGGESTIONS

Weight on Bit: 36,750-73,500lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 110-60RPM

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Operating parameters are typical ranges and may vary depending on ground conditions

12 1/4" 645



CUTTING STRUCTURE

Gauge rows are ovoid type and inner rows are conical type;
Designed for medium hard and abrasive formation with high compressive strengths such as limestone, sandstone, dolomite and chert.

Application: 29,000-38,000Psi

SHIRTTAIL PROTECTION

Two rows tungsten carbide on the shirrtail;
wear resistant carbide on the side of lug.

PRODUCT SPECIFICATION

IADC Code: 6 4 5

Bearing Type: Roller-Ball-Roller- Thrust Button/Sealed Bearing

Circulation Type: Jet Air

Cutting Structure: -Inner and Nose Rows: Conical -Gage Rows: Ovoid

Pin Connection: 6 5/8" API

Bit Diameter: 311mm (12 1/4") Product Weight: 100KGS

OPERATING SUGGESTIONS

Weight on Bit: 36,750-73,500lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 110-60RPM

MAXDRILL ROCK TOOLS CO.,LTD.

Add : No.14-16,12th Floor,Building B6,Zhongjian Building,No.1

Luchongguan Road,Yunyan District,Guiyang,Guizhou,China

Tel : 0086-851-88517787/88639106 Fax : 0086-851-88639108

Web : www.maxdrillrocktools.com Mail: office@kemaico.com

Operating parameters are typical ranges and may vary depending on ground conditions

12 1/4" 732



CUTTING STRUCTURE

Blunt conical on gage, Conical on inner rows. Designed for hard to very hard formations with high compressive strengths such as granite, limestone, sandy sandstone, dolomite and chert.

Application: 35,000-57,500Psi

SHIRTTAIL PROTECTION

Hardmetal on lug: Wear resistant carbide on shirrtail lip and lug.

PRODUCT SPECIFICATION

IADC Code: 7 3 2

Bearing Type: Roller-Ball-Roller-Thrust Button/Open Bearing

Circulation Type: Jet Air

Cutting Structure:

-Inner and Nose Rows: Conical

-Gage Rows: Blunt Conical

-Gage Bevel Protection: Round

Pin Connection: 6 5/8" API

Metric Bit Diameter: 310mm

Product Weight: 100KG

OPERATING SUGGESTIONS

Weight on Bit: 49,000-98,000lbs

Air Back Pressure: 0.2-0.4MPa

Rotary Speed: 90-50RPM

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