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Operating Parameters of Tricone Bit

Bit Type	WOB (lbs)	Rotary Speed (RPM)	Cutting Structure	Applicable Formation
SA412	40000-15000	70-150	Insert bit, conical spherical compacts in inner row and wedge compacts in outer row.	Very soft and soft formation with low compressive strength and high drillability, such as shale, clay and soft limestone, etc.
SA432	40000-15000	70-150	Insert bit, conical spherical compacts in inner row and conical spherical or wedge compacts in outer row.	Very soft and soft formation with low compressive strength and high drillability, such as soft shale, clay and soft limestone, etc.
SA532	55000-20000	50-120	Insert bit, conical spherical compacts in inner row and conical spherical or wedge compacts in outer row.	Soft to medium soft or soft formation with hard stringers with low compressive strength, such as sandstone, shale, granite and some marble, etc.
SA612	65000-25000	50-110	Insert bit, conical spherical compacts in inner row and conical spherical or spherical compacts in outer row.	Medium hard formation with hard stringers and high compressive strength, such as hard shale, hard limestone, basalt and quartzite, etc.
SA632	75000-25000	50-100	Insert bit, conical spherical compacts in inner row and conical spherical or spherical compacts in outer row.	Medium hard formation with hard stringers and high compressive strength, such as hard shale, hard limestone, basalt and quartzite, etc.
SA712	85000-35000	50-90	Insert bit, conical spherical compacts or double round top inserts in inner row, spherical compacts in outer row.	Hard formation with high compressive strength and high abrasive, such as taconite, banded iron and quartzite, etc.
SA732	85000-35000	50-90	Insert bit, conical spherical compacts or double round top inserts in inner row, spherical compacts in outer row.	Hard formation with high compressive strength and high abrasive, such as taconite, banded iron and quartzite, etc.
SA832	90000-45000	40-80	Insert bit, double round top inserts or spherical compacts in inner row, spherical compacts in outer row.	Extremely hard formation with high compressive strength and high abrasive, such as chert hematite ore, quartzite and granite, etc.

IADC 632
SIZE 6 3/4 in (171 mm)
TYPE SA632



Drilling Applications

- Drilling operations mainly in open coal mine, copper mine and iron mine.
- Applicable for drilling medium hard formations with high compressive strength and high abrasiveness, such as limestone, hard shale, dolomite and taconite etc.

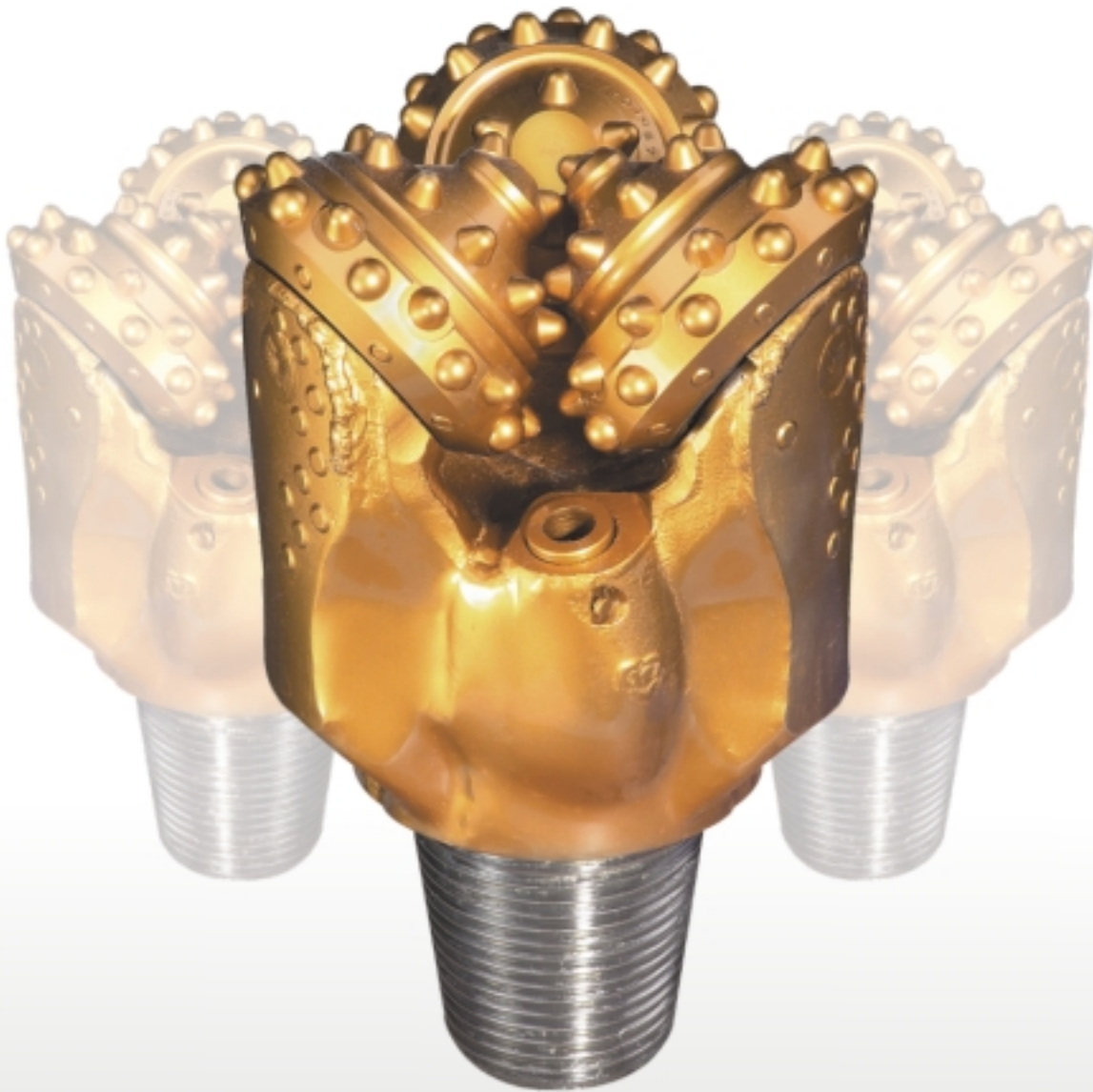
Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts
● Inner Rows and Nose Rows	Conical Inserts
● Gage Rows	Spherical Inserts
Product Weight	21 Kgs
Pin Connection	3 1/2 API Reg

Operating Parameters

Weight on Bit	40000-15000 lbs
Rotary Speed	50-100 RPM

IADC 632
SIZE 6 3/4 in (171 mm)
TYPE SA632



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IADC 532
SIZE 7 7/8 in (200 mm)
TYPE SA532



Drilling Applications

- Drilling operations mainly in coal mine, copper mine and iron mine .
- Applicable for drilling soft formations with low compressive strength, such as shale, medium shale, limestone, marble with gneiss , etc.

Design Specifications

Bearing Type

Cutting Structure

• Inner Rows and Nose Rows

• Gage Rows

Product Weight

Pin Connection

Roller-Ball-Roller-Thrust Button

Tungsten Carbide Inserts

Conical Inserts

Wedge Inserts

34 Kgs

4 1/2 API Reg

Operating Parameters

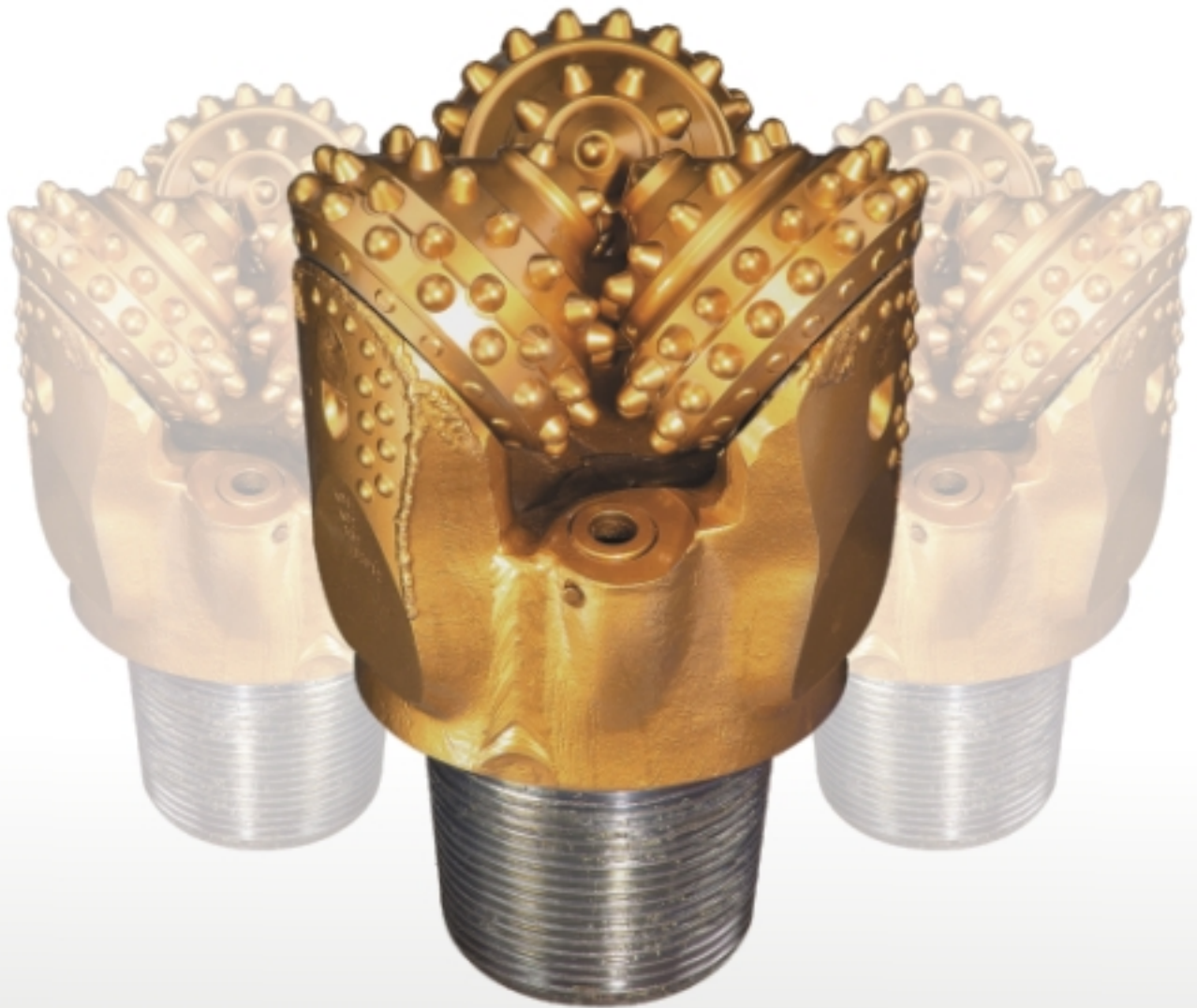
Weight on Bit

Rotary Speed

40000-8000 lbs

50-120 RPM

IADC 532
SIZE 7 7/8 in (200 mm)
TYPE SA532



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IADC 532
SIZE 9 7/8 in (250 mm)
TYPE SA532



Drilling Applications

- Drilling operations mainly in coal mine and copper mine .
- Applicable for drilling soft formations with low compressive strength, such as shale, medium shale, limestone, marble with gneiss , etc.

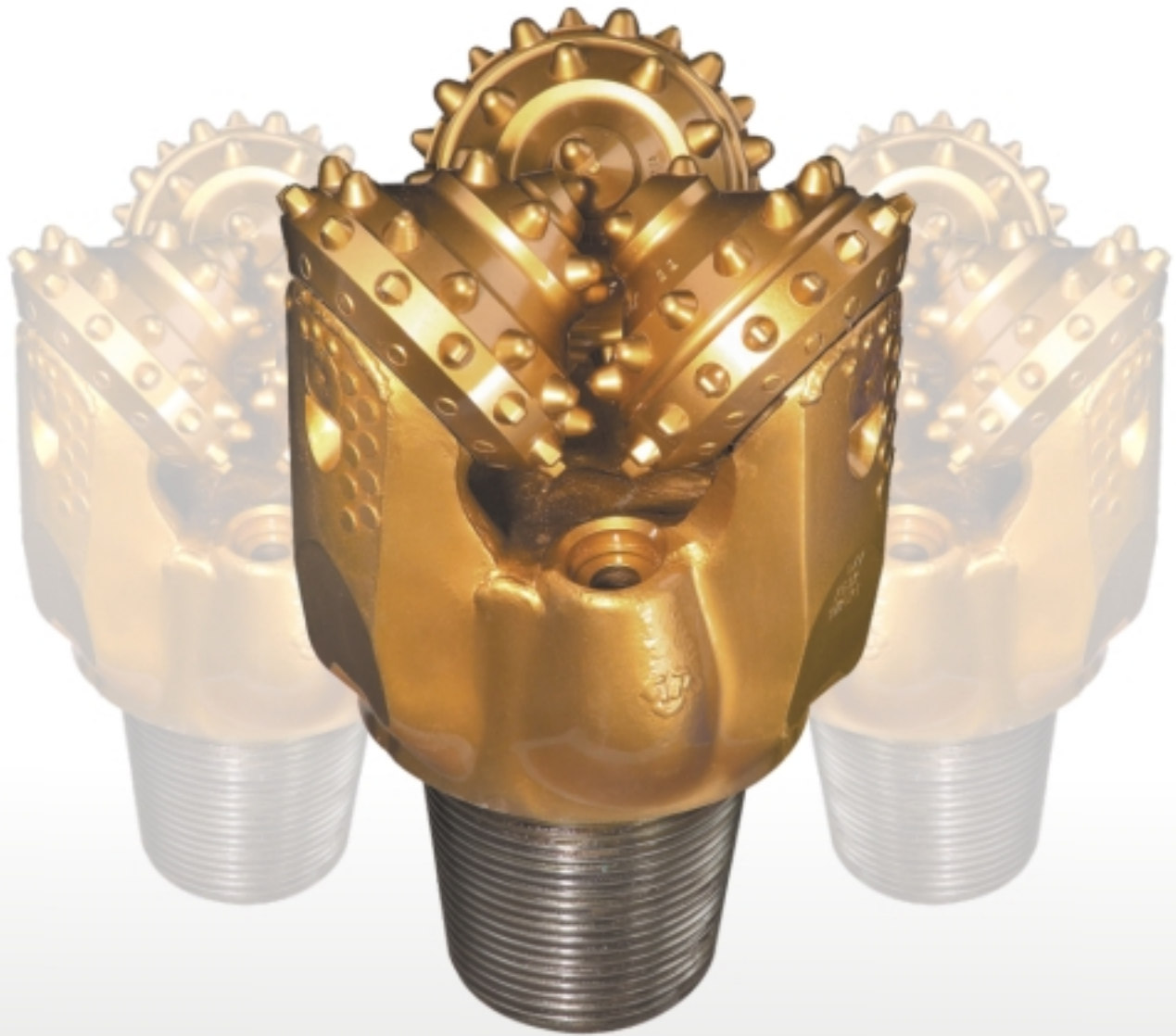
Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts
• Inner Rows and Nose Rows	Conical Inserts
• Gage Rows	Wedge Inserts
Product Weight	65 Kgs
Pin Connection	6 5/8 API Reg

Operating Parameters

Weight on Bit	50000-10000 lbs
Rotary Speed	50 ~ 120 RPM

IADC 532
SIZE 9 7/8 in (250 mm)
TYPE SA532



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IADC 632
SIZE 9 7/8 in (250 mm)
TYPE SA632



Drilling Applications

- Drilling operations mainly in coal mine, iron mine and copper mine.
- Applicable for drilling medium hard formations with high compressive strength and high abrasiveness, such as limestone, hard shale, dolomite and taconite etc.

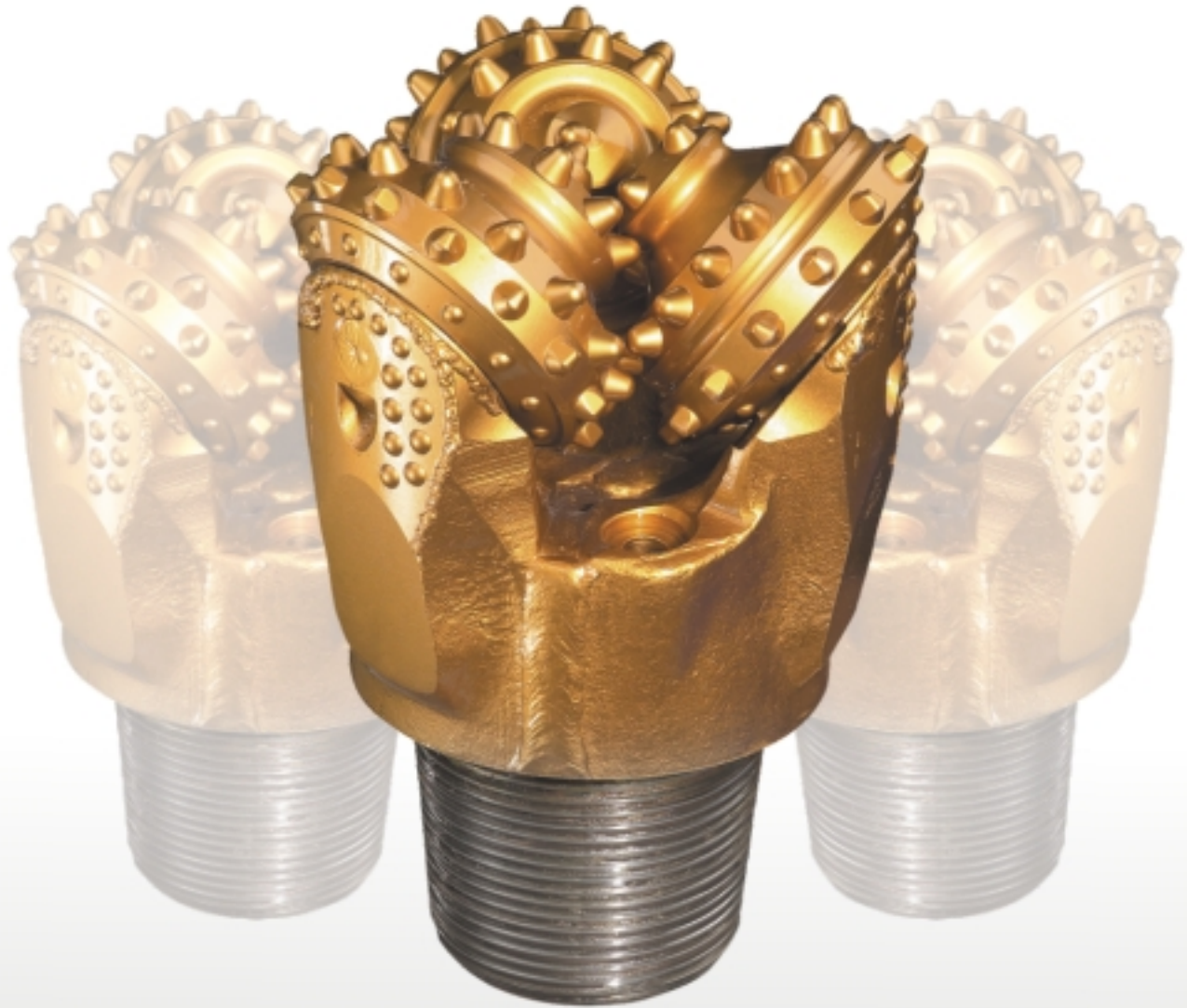
Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts Conical Inserts Conical or Spherical Inserts
• Inner Rows and Nose Rows	
• Gage Rows	
Product Weight	65 Kgs
Pin Connection	6 5/8 API Reg

Operating Parameters

Weight on Bit	60000-20000 lbs
Rotary Speed	50 ~ 110 RPM

IADC 632
SIZE 9 7/8 in (250 mm)
TYPE SA632



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IADC 432
SIZE 9 in (229 mm)
TYPE SA432



Drilling Applications

- Drilling operations mainly in coal mine.
- Applicable for drilling soft formations with low compressive strength and high drillability, such as shale, soft limestone, sandstone, conglomerate, soft dolomite and coal bed, etc.

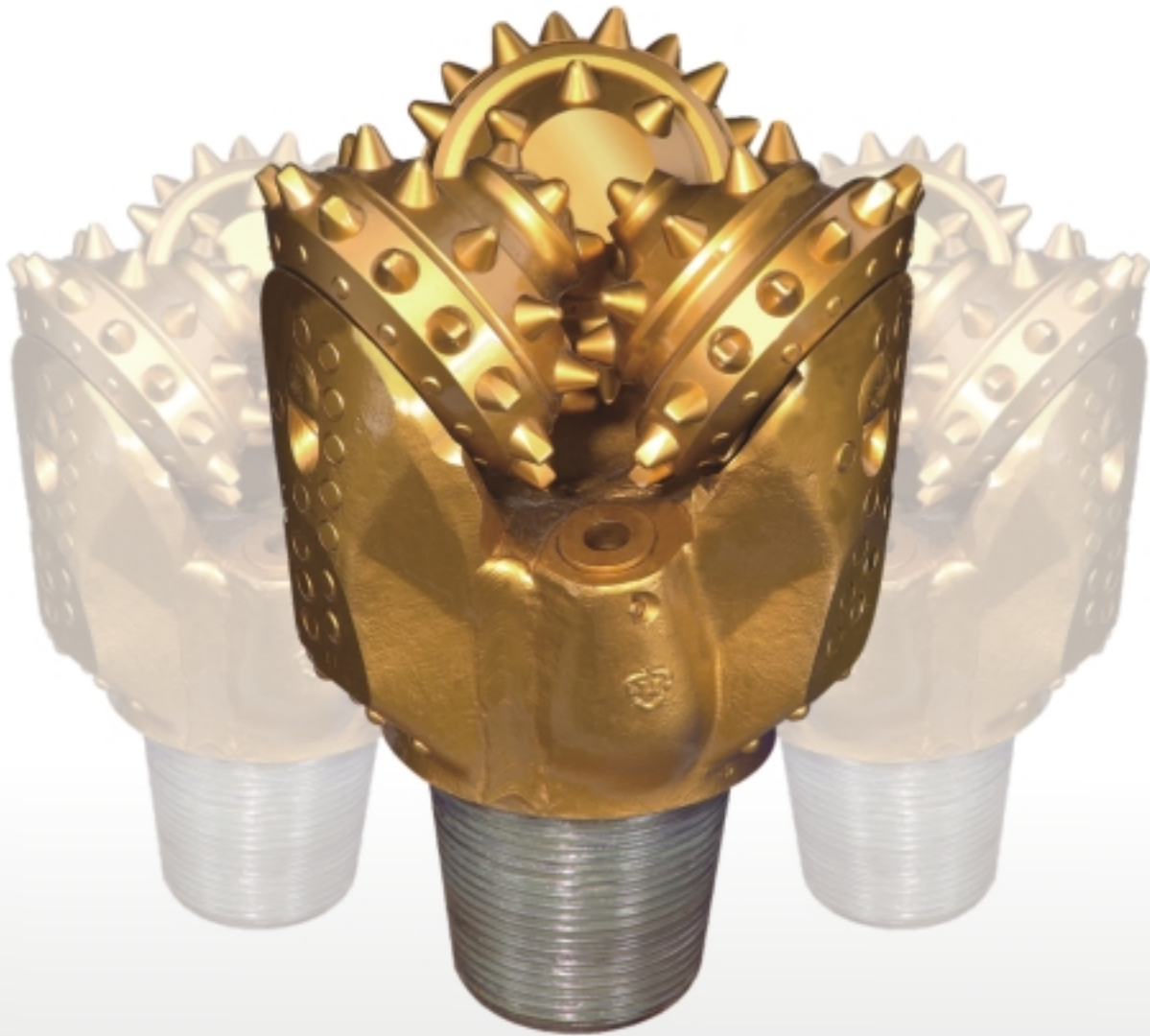
Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts
• Inner Rows and Nose Rows	Conical Inserts
• Gage Rows	Conical or Wedge Inserts
Product Weight	60 Kgs
Pin Connection	4 1/2 API Reg

Operating Parameters

Weight on Bit	40000-10000 lbs
Rotary Speed	70-150 RPM

IADC 432
SIZE 9 in (229 mm)
TYPE SA432



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IADC 412
SIZE 10 5/8 in (270 mm)
TYPE SA412



Drilling Applications

- Drilling operations mainly in coal mine.
- Applicable for drilling soft formations with low compressive strength and high drillability, such as shale, soft limestone, soft sandstone, rudaceous clay, soft dolomite, salt bed and coal bed, etc.

Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts
• Inner Rows and Nose Rows	Conical Inserts
• Gage Rows	Conical Inserts
Product Weight	74 Kgs
Pin Connection	6 5/8 API Reg

Operating Parameters

Weight on Bit	50000-15000 lbs
Rotary Speed	60-150 RPM

IADC 412
SIZE 10 5/8 in (270 mm)
TYPE SA412



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IADC 712
SIZE 10 5/8 in (270 mm)
TYPE SA712



Drilling Applications

- Drilling operations mainly in coal mine, iron mine and copper mine.
- Applicable for drilling hard formations with high compressive strength, such as quartzite, syenite, gabbro, and chert, etc.

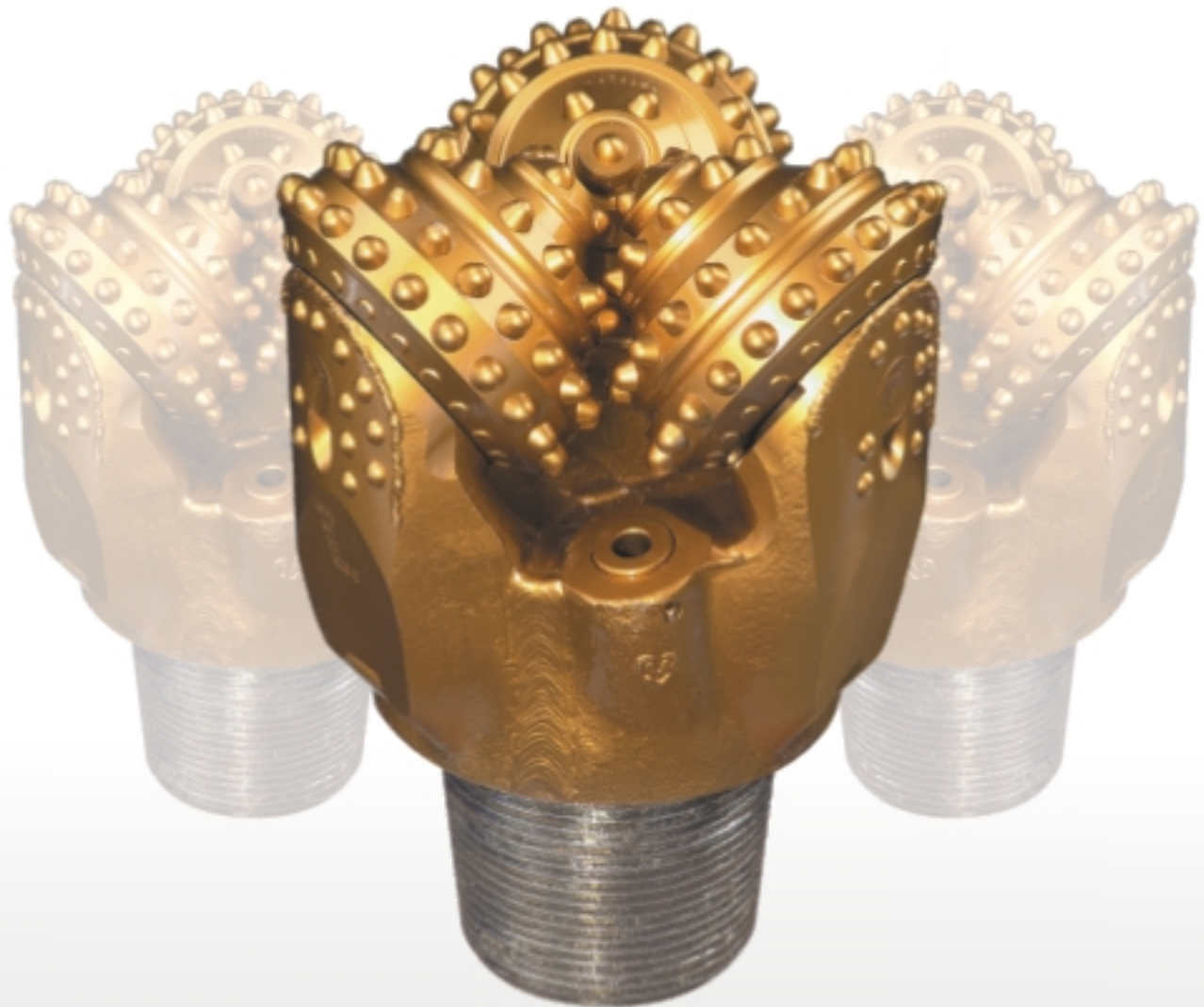
Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts
• Inner Rows and Nose Rows	Conical Inserts
• Gage Rows	Conical Inserts
Product Weight	74 Kgs
Pin Connection	6 5/8 API Reg

Operating Parameters

Weight on Bit	85000-35000 lbs
Rotary Speed	50-90 RPM

IADC 712
SIZE 10 5/8 in (270 mm)
TYPE SA712



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IADC 632
SIZE 12 1/4 in (311 mm)
TYPE SA632



Drilling Applications

- Drilling operations mainly in iron mine, copper mine and gold mine.
- Applicable for drilling medium hard formations with high compressive strength and high abrasiveness, such as limestone, hard shale, dolomite and taconite etc.

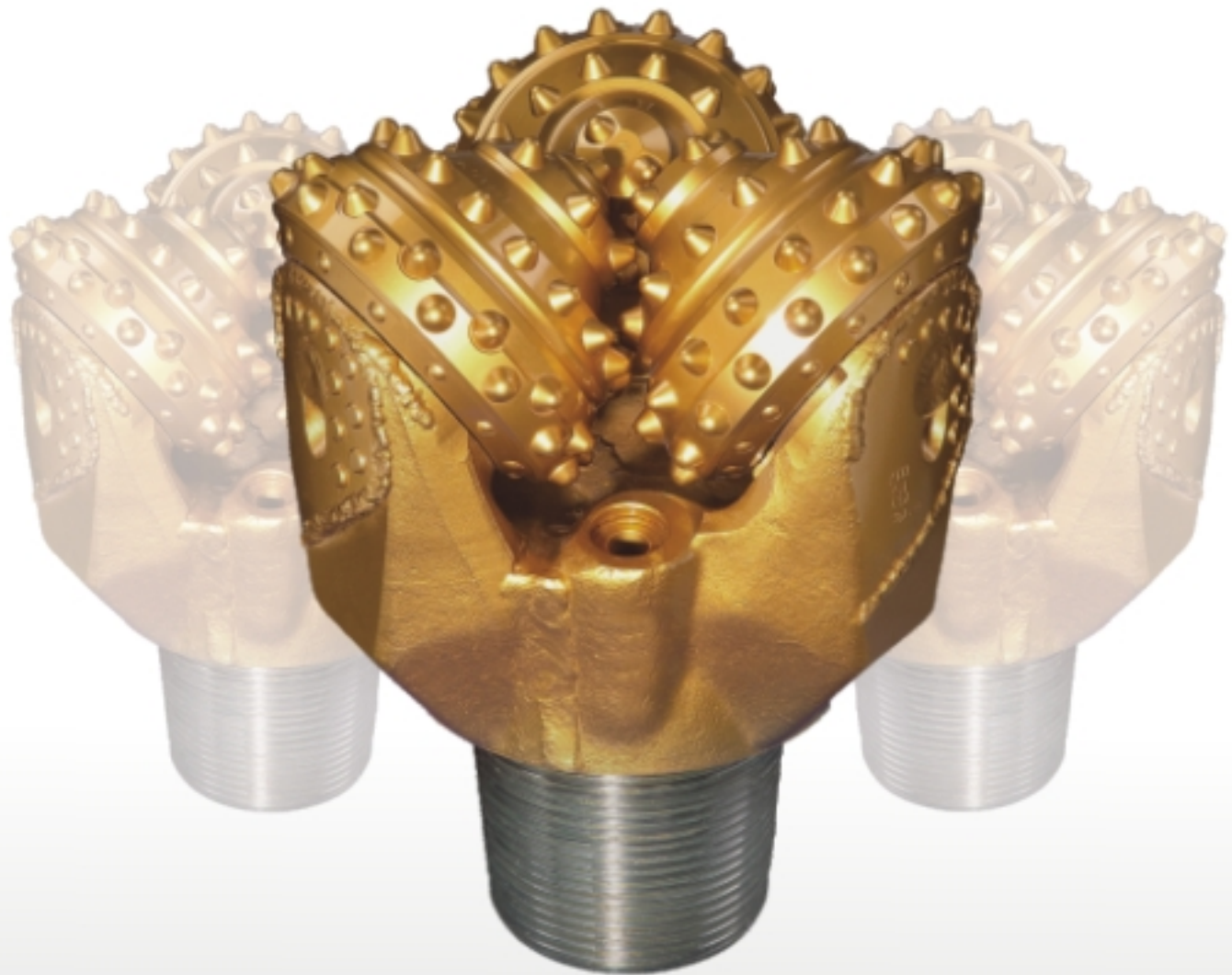
Design Specifications

Bearing Type	Roller-Ball-Roller-Thrust Button
Cutting Structure	Tungsten Carbide Inserts
• Inner Rows and Nose Rows	Conical Inserts
• Gage Rows	Conical Inserts
Product Weight	103 Kgs
Pin Connection	6 5/8 API Reg

Operating Parameters

Weight on Bit	75000-25000 lbs
Rotary Speed	50 ~ 100 RPM

IADC 632
SIZE 12 1/4 in (311 mm)
TYPE SA632



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