

Mineral Ground Tools

Drilling

RC300

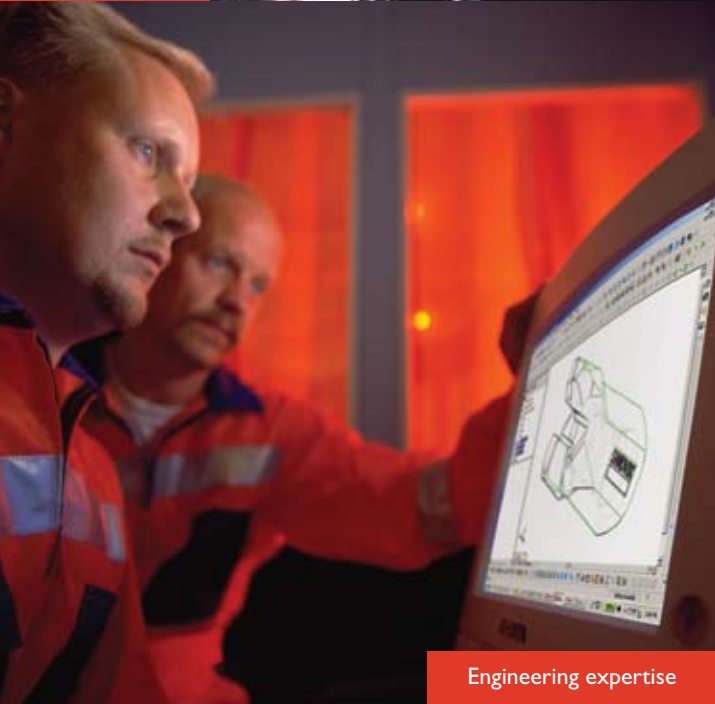




Advanced brazing/heat treatment



Extensive testing



Engineering expertise

Productivity in Action

SANDVIK TOOLS

TOUGH TOOLS FOR TOUGH JOBS

Sandvik Mining and Construction manufactures a range of specialized drilling consumables for use in underground coal and similar mines. Our products are manufactured globally to the highest quality standards, using the strongest materials and most stringent manufacturing processes.

Headquartered in Sandviken, Sweden, and established in 1862, Sandvik is a high-technology engineering group and the world's leading manufacturer of tungsten carbide tools for the construction, mining and drilling industries.

We take special care in the manufacturing process to ensure that the cemented tungsten carbide in Sandvik's tools will meet our customers' demanding needs. The tungsten carbide is processed through a proprietary method to maximize its strengths and brazing properties. A special brazing/heat treatment bonds the tungsten carbide to high-grade alloy steel to ensure the hardness of the steel – and the superior performance of these tools in the field.

You can be confident that Sandvik tools will always provide maximum productivity and efficiency and that we will back them with the most dedicated customer and technical support in the industry.

As the world's leading supplier of drilling, excavation, crushing and screening machinery, and equipment and tools for the mining and construction industries, only Sandvik can offer customers the entire package – products, service and expertise. We use our nearly 150 years of experience and our comprehensive product line to create value for our customers through relationships that combine hands-on knowledge of our customers' processes with our own real-world applications knowledge – proven around the world.

NOTE: This is the 2008 catalog for Sandvik drilling tools and all data are current at time of printing. Visit our Web site at www.miningandconstruction.sandvik.com to learn more about our services and to check for any updates on the tools and products listed here. Periodic technical bulletins may be issued with updates.

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DRILL BITS

Sandvik drill bits use unique carbide grades developed through years of experience and testing. Drill bit bodies make use of precision hardened Nickel Molybdenum steel and compound curve body designs to maximize cutting efficiency and cuttings removal. Combination of concentric and eccentric geometries along with positive and negative rake angles, provide differing cutting capabilities for any application. Wet or dry designs with internal or external drives now can be designed for all drilling conditions.

Three grades of Tungsten Carbide are available:	
39	Toughest grade
55	General purpose grade
71	Most wear resistant grade

Two Wing
Positive Rake Bit



Two Wing
Negative Rake Bit



Modified Spade Bit



Full Spade Bit



FULL SPADE BITS

D9MB



FEATURES:

- 16 mm thread
- Full Spade bits
- Strongest carbide geometry
- Higher impact resistance
- Used for hard conditions
- Used for high-powered rigs

Part Number	Cutting Diameter	Thread Size
D9MB-1627-29	1.063" (27 mm)	M16
D9MB-1628-29	1.102" (28 mm)	M16

MODIFIED SPADE BITS

D9MB



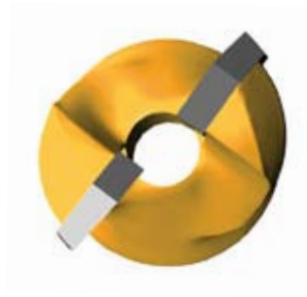
FEATURES:

- 16 mm thread
- Modified spade
- Center web removed to enable faster drilling
- Recommended for harder uniform conditions
- Recommended for high power rigs

Part Number	Cutting Diameter	Thread Size
D9MB-1626-28	1.024" (26 mm)	M16
D9MB-1627-28	1.063" (27 mm)	M16
D9MB-1628-28	1.102" (28 mm)	M16
D9MB-1635-28	1.394" (35 mm)	M16
D9MB-1638-28	1.496" (38 mm)	M16

TWO WING NEGATIVE RAKE BITS

D4MB



FEATURES:

- 16 mm thread
- Two wing eccentric design provides aggressive cutting geometry
- Negative rake gives added cutting edge strength
- First choice general purpose bit

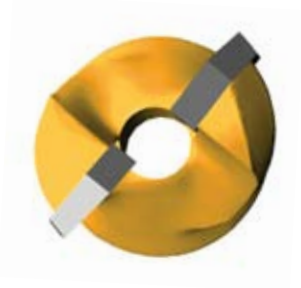
Part Number	Cutting Diameter	Thread Size
D4MB-1627-26	1.063" (27 mm)	M16
D4MB-1628-26	1.102" (28 mm)	M16
D4MB-1629-26	1.142" (29 mm)	M16

Part Number	Cutting Diameter	Thread Size
D4MB-1632-09	1.260" (32 mm)	M16
D4MB-1635-09	1.378" (35 mm)	M16
D4MB-1638-09	1.496" (38 mm)	M16

Part Number	Cutting Diameter	Thread Size
D4MB-1640-91	1.574" (40 mm)	M16
D4MB-1642-91	1.654" (42 mm)	M16
D4MB-1643-91	1.693" (43 mm)	M16
D4MB-1645-91	1.772" (45 mm)	M16

TWO WING POSITIVE RAKE BIT

D2MB



FEATURES:

- 16 mm thread
- Two wing eccentric design in combination with positive cutting rake gives the most aggressive cutting action
- Typically used for fast drilling of soft materials

Part Number	Cutting Diameter	Thread Size
D2MB-1627-97	1.063" (27 mm)	M16

PDC BIT

D4MP



FEATURES:

- 16 mm thread
- Two button PDC provides efficient cutting action
- High wear resistance of poly crystalline diamond compacts
- Longest life in extreme abrasive conditions

Part Number	Cutting Diameter	Thread Size
D4MP-1629-9999-UT	1.125" (28.6 mm)	M16

ROPE THREAD BITS

D4RB



FEATURES:

- Two wing negative rake design provides effective geometry for fast drilling of larger holes
- Rope thread provides strongest joint connection
- Heavy-duty carbides along with high strength body provide reliable performance
- Use in all except extreme abrasive conditions
- Typically used for cable bolt holes
- Hex body for easy removal

Part Number	Cutting Diameter	Rope Thread Size
D4RB-1842-91	1.654" (42 mm)	18 mm
D4RB-1844-91	1.732" (44 mm)	18 mm
D4RB-2042-91	1.654" (42 mm)	20 mm
D4RB-2044-91	1.732" (44 mm)	20 mm
D4RB-2052-32	2.047" (52 mm)	20 mm
D4RB-2055-32	2.165" (55 mm)	20 mm
D4RB-2242-91	1.654" (42 mm)	22 mm
D4RB-2244-91	1.732" (44 mm)	22 mm
D4RB-2252-32	2.047" (52 mm)	22 mm
D4RB-2255-32	2.165" (55 mm)	22 mm

THREE WING PILOT REAMERS

E5RC



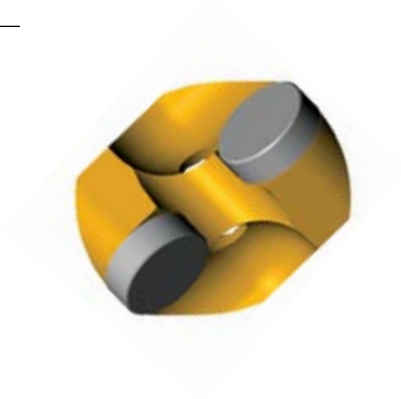
FEATURES:

- Three wing bit in conjunction with 16 mm threaded pilot bit allows fast efficient drilling of larger holes
- Use of pilot bit enables efficient removal of center hole section
- Three ring reamer provides a smooth and non-aggressive cutting action to complete and size the hole
- Typically used for cable bolt holes

Part Number	Cutting Diameter	Rope Thread Size
E5RC-2064-09	2.520" (64 mm)	20 mm
E5RC-2264-09	2.520" (64 mm)	22 mm

ROPE THREAD PDC BIT

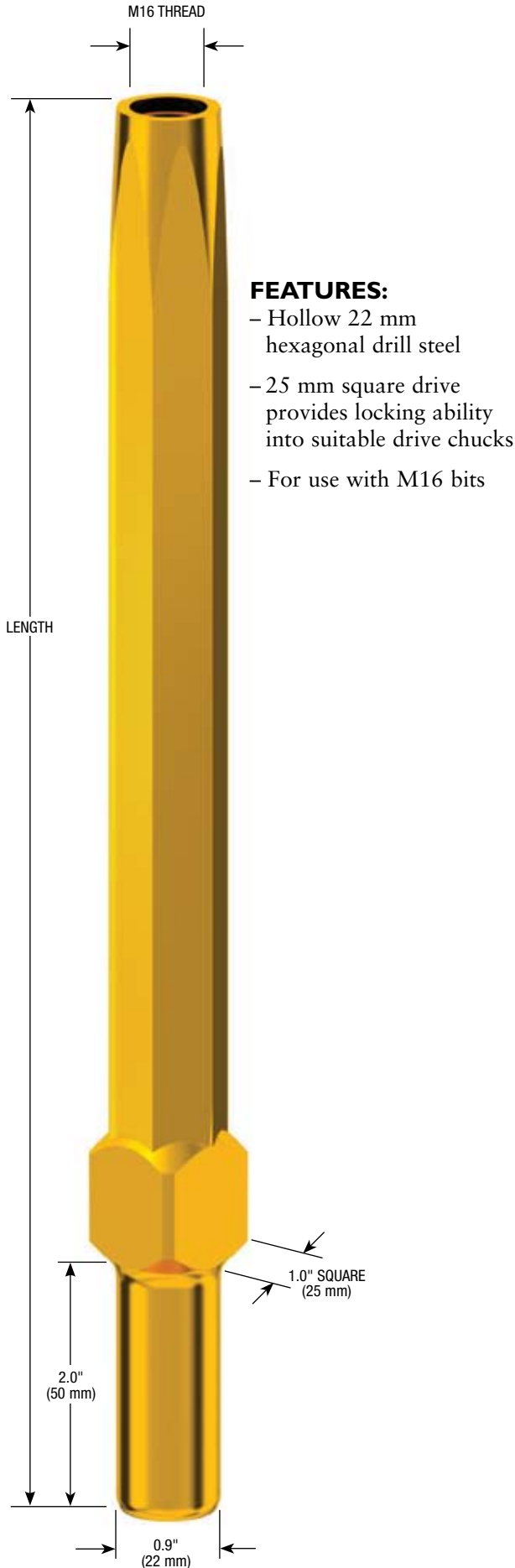
D4RP



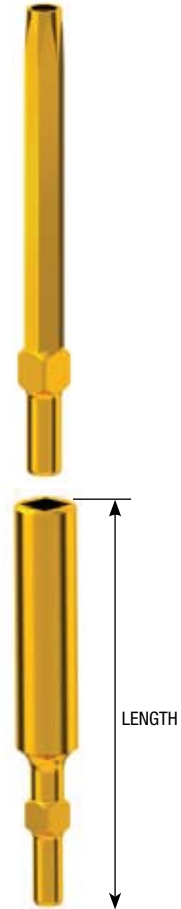
FEATURES:

- Two button PDC provides efficient cutting action
- High wear resistance of polycrystalline diamond compacts
- Longest life in extreme abrasive conditions

Part Number	Cutting Diameter	Rope Thread Size
D4RP-2244-9999	1.732" (44 mm)	22 mm



- FEATURES:**
- Hollow 22 mm hexagonal drill steel
 - 25 mm square drive provides locking ability into suitable drive chucks
 - For use with M16 bits



EXTENSION SPANNERS

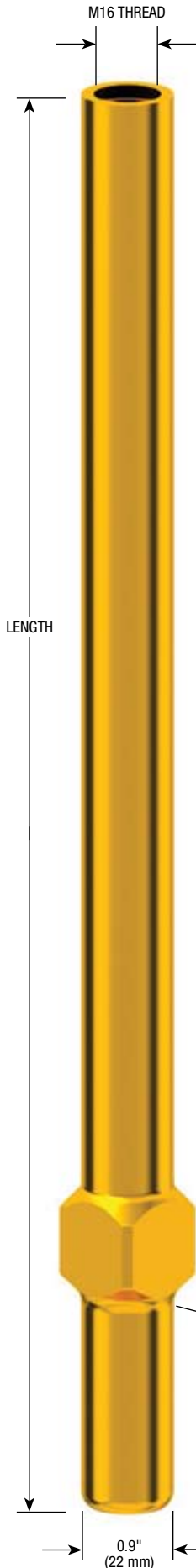
Part Number	Length
22/7-MF-0200	7.875" (200 mm)
22/7-MF-0300	11.811" (300 mm)
22/7-MF-0450	17.717" (450 mm)
22/7-MF-0600	23.622" (600 mm)
22/7-MF-0800	31.496" (800 mm)

RODS

Part Number	Length
22/7/0600/6	23.622" (600 mm)
22/7/0900/6	35.433" (900 mm)
22/7/1200/6	47.244" (1200 mm)
22/7/1250/6	49.213" (1250 mm)
22/7/1270/6	50.000" (1270 mm)
22/7/1350/6	53.150" (1350 mm)
22/7/1550/6	61.024" (1550 mm)
22/7/1750/6	68.898" (1750 mm)
22/7/1850/6	72.835" (1850 mm)
22/7/1950/6	76.772" (1950 mm)
22/7/2150/6	84.646" (2150 mm)
22/7/2450/6	96.457" (2450 mm)
22/7/2750/6	108.268" (2750 mm)

22R/7/ XXXX /6

M16 THREAD



FEATURES:

- Lightweight, high-strength 22 mm alloy drill steel
- Smaller spinning diameter and larger flush hole provide greater cutting clearance ability in difficult drilling conditions and smaller holes
- Lighter weight provides easier handling
- For use with M16 bits



EXTENSION SPANNERS

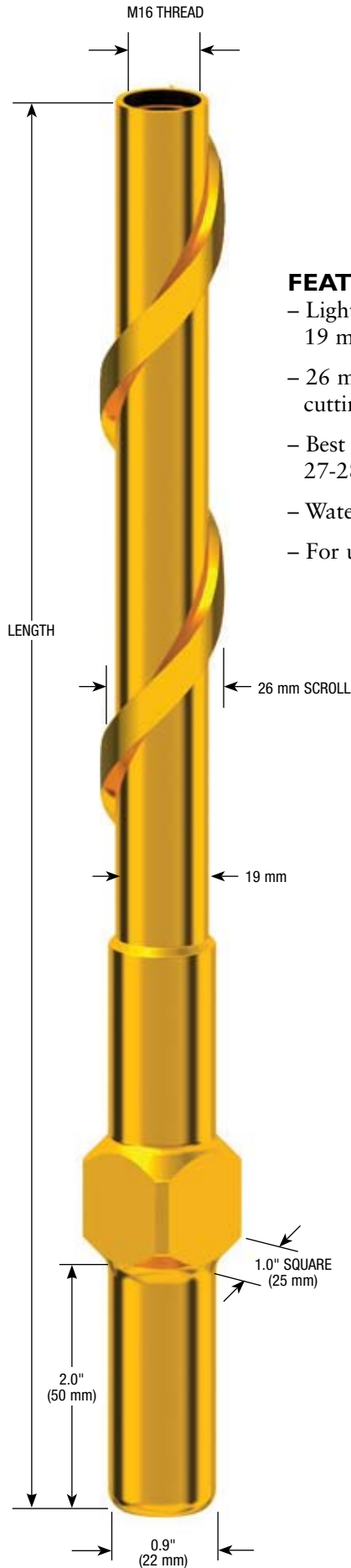
Part Number	Length
22/7-MF-0200	7.875" (200 mm)
22/7-MF-0300	11.811" (300 mm)
22/7-MF-0450	17.717" (450 mm)
22/7-MF-0600	23.622" (600 mm)
22/7-MF-0800	31.496" (800 mm)

RODS

Part Number	Length
22R/7/0600/6	23.622" (600 mm)
22R/7/0900/6	35.433" (900 mm)
22R/7/1250/6	49.213" (1250 mm)
22R/7/1350/6	53.150" (1350 mm)
22R/7/1550/6	61.024" (1550 mm)
22R/7/1675/6	65.944" (1675mm)
22R/7/1850/6	72.835" (1850 mm)
22R/7/1950/6	76.772" (1950 mm)
22R/7/2000/6	96.457" (2000 mm)
22R/7/2150/6	84.646" (2150 mm)
22R/7/2200/6	86.614" (2200 mm)
22R/7/2250/6	88.582" (2250 mm)
22R/7/2300/6	90.551" (2300 mm)
22R/7/2350/6	92.520" (2350 mm)
22R/7/2450/6	96.457" (2450 mm)
22R/7/2500/6	98.425" (2500 mm)
22R/7/2750/6	108.268" (2750 mm)

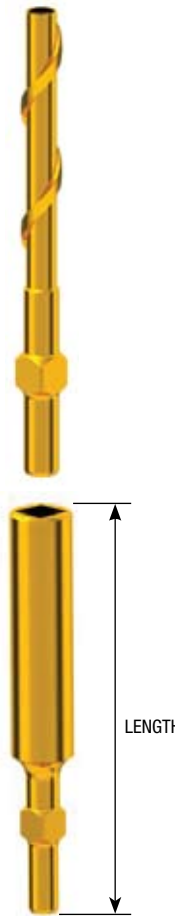
19S/7/ **XXXX** /6

M16 THREAD



FEATURES:

- Lightweight, high-strength 19 mm alloy drill steel
- 26 mm scroll used to auger cuttings from hole
- Best suited for use in 27-28 mm diameter holes
- Water flushing
- For use with M16 bits



EXTENSION SPANNERS

Part Number	Length
22/7-MF-0200	7.875" (200 mm)
22/7-MF-0300	11.811" (300 mm)
22/7-MF-0450	17.717" (450 mm)
22/7-MF-0600	23.622" (600 mm)
22/7-MF-0800	31.496" (800 mm)

RODS

Part Number	Length
19S/7/1250/6	4.213" (1250 mm)
19S/7/1550/6	61.024" (1550 mm)
19S/7/1740/6	68.504" (1740 mm)
19S/7/1900/6	74.803" (1900 mm)
19S/7/2150/6	84.646" (2150 mm)
19S/7/2450/6	96.457" (2450 mm)

DIRECT DRIVE DRILLING SYSTEMS



DIRECT DRIVE DRILLING SYSTEMS

DIRECT DRIVE DRILLING SYSTEMS

Sandvik's patented Direct Drive Drilling System is far superior to conventional drilling systems for 4 main reasons. It is safer, faster, easier and smarter.

SAFER

- No need to uncouple threads by hand when used on most modern drill rigs (hands off)
- No threaded connection close to the chuck and operator
- Removes the commonly broken drive adaptor in conventional drilling systems

FASTER

- Overall cycle times reduced by 40% compared to conventional drilling systems

EASIER

- No uncoupling required upon installation of extra rods
- Half the number of coupling operations

SMARTER

- Modular chucks with replaceable stainless steel reinforced water seals
- 22 mm system incorporates a non-return valve, which maintains the water column and allows faster recommencement of drilling



CONVENTIONAL DRILLING SYSTEMS

RR18

DIRECT DRIVE



BIT ADAPTORS

Part Number	Effective Length	Description
RR18F-M16-0150	5.905" (150 mm)	18 Bit Adaptor
RR18F-M16-1000-DD	39.370" (1000 mm)	18 Bit Adaptor
RR18F-M16-2000-DD	78.740" (2000 mm)	18 Bit Adaptor

RODS

Part Number	Effective Length	Description
RR18MF-1000-DD	39.370" (1000 mm)	18 DD Rod
RR18MF-1500-DD	59.055" (1500 mm)	18 DD Rod
RR18MF-2000-DD	78.740" (2000 mm)	18 DD Rod

CHUCK ADAPTOR

Part Number
DD-22/7M-22HF

RR22

DIRECT DRIVE



Direct Drive Drilling Systems

BIT ADAPTOR

Part Number

RR22F-M16-0070

FEATURES:

- No need to uncouple joints to add a rod to the drill string
- Heavy duty system for holes with a diameter of 45–64 mm or larger
- Non-return valve in each rod maintains the water column and allows faster recommencement of drilling
- Heat treated threads

RODS

Part Number	Effective Length	Description
RR22MF-0300-DD	11.811" (300 mm)	22 DD Rod
RR22MF-1000-DD	39.370" (1000 mm)	22 DD Rod
RR22MF-1650-DD	64.961" (1650 mm)	22 DD Rod
RR22MF-2000-DD	78.740" (2000 mm)	22 DD Rod

CHUCK ADAPTOR

Part Number

DD-22/7M-28HF

ACCESSORIES

Sandvik provides accessories to assist with tool and machine maintenance.

TIGHTENING SPANNERS

Premium hardened steel socket with 25 mm square drive with 36 AF socket. Other sizes and designs available upon request.

PART NUMBER

SP/6/17/0300-H

SP/6/17/0450-H

SP/6/17/0600-H

SP/6/17/1000-H

25 mm square drive with 36 AF socket. Other sizes and designs available upon request.

PART NUMBER

SP/6/5/0300

SP/6/5/0450

SP/6/5/0500

SP/6/5/0600

DRILL BIT WRENCH

Used for removing/installing 26–32 mm M16-type threaded bits.

PART NUMBER

M8T-0020

ACCESSORIES

Sandvik provides accessories to assist with tool and machine maintenance.



DRILL ROD TORQUE WRENCH

Used for coupling 22 mm hex drill rods.

PART NUMBER

M8T-0022



DIRECT DRIVE CHUCK REPAIR KIT

Stainless steel reinforced polyurethane water seal, 4 socket head cap screws with spring washers for easy installation and removal.

PART NUMBER

SYSTEM

M8A-0022. for use with DD18 system

M8A-0023. for use with DD22 system

Partners in Action



Handles tough applications



Superior performance



Maximum productivity



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