

THE POWER OF ENGINEERING

FREZITE Group

A HIGH PRODUCTIVITY SYSTEM

The SPEED ONE face milling cutter from FMT is the ideal choice for machining of non-ferrous materials such as aluminium alloys. With its aluminium body and PCD inserts, this tool provides less power consumption and offers high productivity due to higher cutting speeds and feed rates.

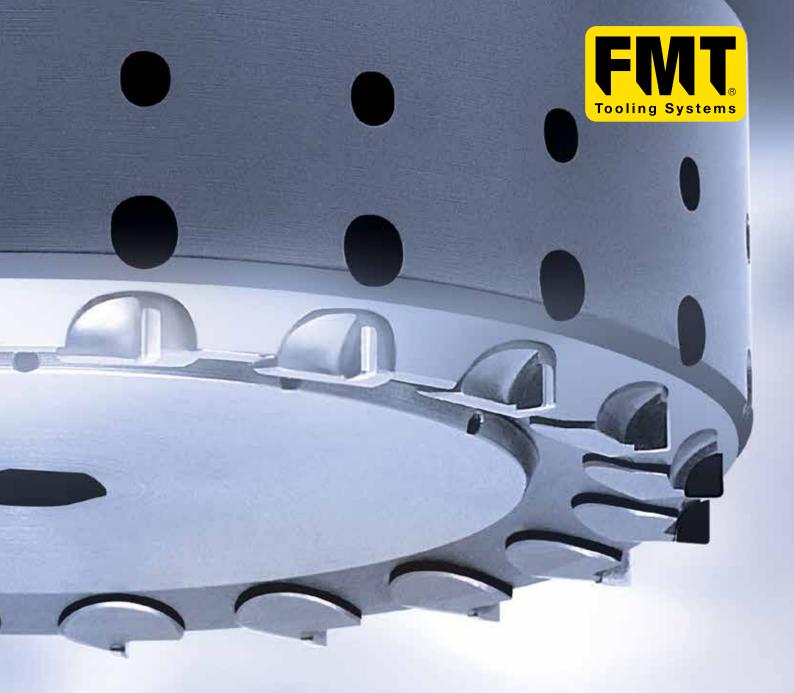
FMT offers a wide range of standard Speed One cutters. Due to the innovative cartridge design, several other diameters are possible in FMT's special tool programme.

FMT SERVICE

With its global presence around the world and the commitment for a close proximity strategy, FMT guarantees a quick insert replacement service, wherever the customer is located.

- > High rentability
- > High cutting speeds and feed rates
- > Increased operating safety
- > Easy assembly and fine tuning







Tool Body

The tool body is made of a special hard aluminium alloy. It provides sufficient stifness while simultaneously allowing for a perfect operation with less power consumption.

В

PCD Cartridge

The innovative round design of the steel cartridge allows for a quick and easy replacement. The cartridge is kept completely inside the tool body, allowing a safe handling.

С

Steel Ring

For maximum tool body protection, a clever designed steel ring is supplied to avoid contact of the chips with the aluminium body. D

Adjustment System

Simple and effective, allows for a fine longitudinal setting of the PCD cartridges by radially adjusting a screw inside the tool. All adjusting accessories are located inside the tool body. Therefore higher cutting speeds can be achieved with safety.

E

Cooling System

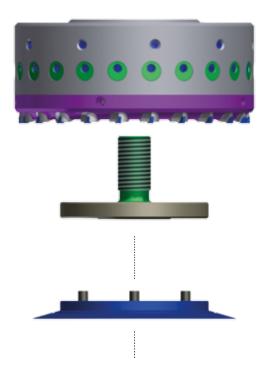
Through a conical tool holding screw the coolant is radially sprayed, efficiently removing the chips away from the cutting zone.



TOOL CLAMPING SYSTEM

A central screw with different screw threads assures maximum clamping force.





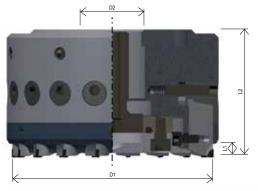
APPLICATION EXAMPLES















Tool Details











Alloy Steels	Prehardened Steels	Hardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Titanium	Inconel	Graphite	Copper	Aluminium	Magne- sium	Brass	Nickel	Carbon
HB225-325	HRc 30-40	HRc 40-50	HRc 50-60	HRc 60-70	-	-	-	-	-	-	-	-	-	-	-

EXCELLENT

GOOD

EACE MILLING HEAD POLICHING

TACE FILEING HEAD ROOGHING							
Art. №.	Ø D1	Ø D2	L1	L2	Weight (kg)	Z	
9396.08002	80	27 H7	8	50	0.8	12	
9396.11002	100	32 H7	8	50	1	18	
9396.12502	125	40 H7	8	63	1.3	20	
9396.14002	140	40 H7	8	63	1.5	22	
9396.16002	160	40 H7	8	63	1.8	26	
9396.25002	250	60 H7	8	63	3.5	36	

FACE MILLING HEAD FINISHING

Art. №.	Ø D1	Ø D2	L1	L2	Weight (kg)	Z	
9396.0800	01 80	27 H7	4	50	0.8	12	
9396.1100	1 100	32 H7	4	50	1	18	
9396.1250	1 125	40 H7	4	63	1.3	20	
9396.1400	140	40 H7	4	63	1.5	22	
9396.1600	160	40 H7	4	63	1.8	26	
9396.2500)1 250	60 H7	4	63	3.5	36	

> MILLING HEAD COMPLETE ASSEMBLED AND ADJUSTED WITH PROTECTION CAP, CLAMPING SCREW AND KEY FOR CARTRIDGE









CLAMPING SCREW



PROTECTION RING

ACCESSORIES / SPARE PARTS





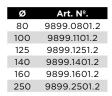


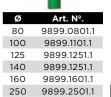
CLAMPING		

KEY FOR CARTRIDGE



Ø	Art. №.
80	9899.0801.3
100	9899.1101.3
125	9899.1251.3
140	9899.1401.3
160	9899.1601.3
250	9899 2501 3



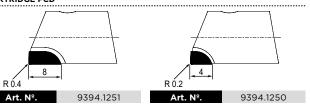


Art. №. PF001.228

Art. №.

ACCESSORIES ROUGHING VERSION

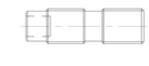
CARTRIDGE PCD



ACCESSORIES FINISHING VERSION

ADJUSTABLE CLAMP PCD





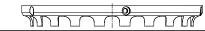
Art. №.

9395.0035

Art. №.

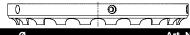
9395.0036

WEAR PROTECTION



דו דו הות		
Ø	Art. №.	
80	9899.0801.5	
100	9899.1101.5	
125	9899.1251.5	
140	9899.1401.5	
160	9899.1601.5	
250	9899.2501.5	

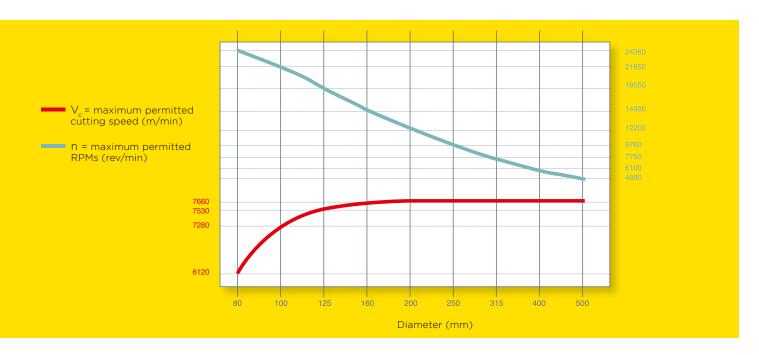
WEAR PROTECTION



Ø	Art. №.
80	9899.0801.4
100	9899.1101.4
125	9899.1251.4
140	9899.1401.4
160	9899.1601.4
250	9899.2501.4







ASSEMBLING INSTRUCTIONS



Make sure all cartridge pockets are free from oil or debris using an air pressure gun to avoid unwanted interference.



> Assemble the selected ring and clamp it with the appropriate screws. There are two different rings, one optimized for roughing and another for finishing purposes.



> Insert the cartridges into each pocket.



> Using a torque wrench tighten the cartridges screws to 3 Nm.



- Assemble the tool in the measuring machine.Measure all cartridges and find the
- Measure all cartridges and find the cartridge sitting higher.



- Presetting Adjust all other cartridges to a difference of 10 µm from highest.
 Tighten all cartridge screws with a
- > Tighten all cartridge screws with a torque wrench of 4 Nm.
- > Fine tune all cartridge to ± 1 µm from highest.



> Assemble the fixture screw to the disc.



> Use the fixture screw to clamp the speed one to the tool holder.



> Place the cover on top and screw all four holding screws.

FMT ADVANTAGES













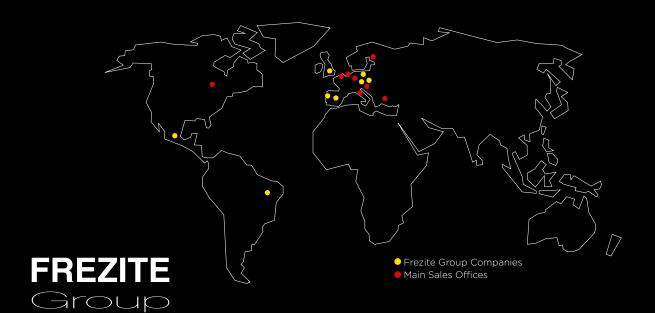


IDEAL **PARTNERS** **EASY** TO **WORK WITH** **DYNAMIC** TEAM

RESEARCH & DEVELOPMENT **ENLARGED PORTFOLIO**

6 **FOCUS ON PERFORMANCE**

GLOBAL PRESENCE



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