

# VAN CUTSEM tools

Quality tools for metalworking

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[sandvik.coromant.com/coromillmr20](http://sandvik.coromant.com/coromillmr20)



# CoroMill® MR20

Trust in every cut

When machining high-value components, process reliability and predictability are non-negotiable. CoroMill® MR20 delivers exactly that – controlled profiling with unmatched stability.

## Application

- Large application area including pocketing, profiling, facing, slotting, ramping and helical milling
- For roughing to semi-finishing operations
- Reduced vibration tendency allows for an increased number of teeth, leading to improved productivity



## Features and benefits

- Innovative insert seat design with superior stability and easy indexing improves process security
- Tight cutter body tolerances guarantee predictable and progressive insert wear, for improved surface quality
- Thick and robust insert body ensures high security and reliability
- Under-coolant system extends tool life



ISO application area

## Innovative insert seat for secure, reliable cuts

The large contact area between the insert and tool body minimizes micro-movements, delivering maximum stability and trouble-free machining.

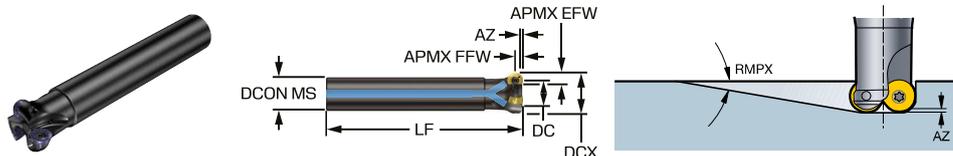
A precise tip seat position and clear position mark on the cutter body make insert indexing fast, easy and accurate, ensuring high repeatability, long tool life and fewer handling errors





# CoroMill® MR20, cutter for profile milling

Cylindrical shank - Internal coolant supply



Metric (mm)

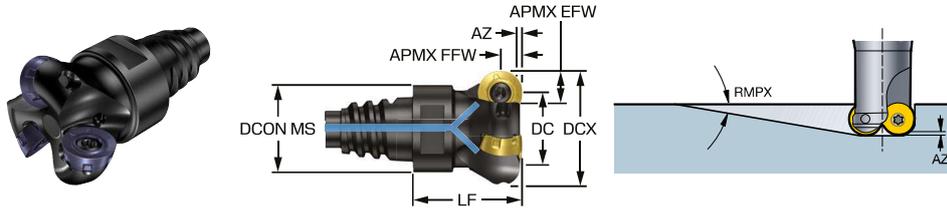
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NEW	MR20-R032A25-12H	20.00	32.00	9.0	6.0	12.20	2.9	1	3		25.00	26.2	30.0	150.00
NEW	MR20-R032A25-12M	20.00	32.00	9.0	6.0	12.20	2.9	1		2	25.00	26.2	30.0	180.00
NEW	MR20-R040A32-12H	28.00	40.00	9.0	6.0	8.00	3.0	1	4		32.00	34.2	30.0	150.00
NEW	MR20-R040A32-12M	28.00	40.00	9.0	6.0	8.00	3.0	1		3	32.00	34.2	30.0	180.00

Imperial (inch)

	Ordering code	DC [inch]	DCX [inch]	APMX <sub>EFW</sub> [inch]	APMX <sub>FFW</sub> [inch]	RMPX [deg]	AZ [inch]	CNSC			DCON <sub>MS</sub> [inch]	BD [inch]	LB [inch]	LF [inch]
NEW	MR20-AR032025-13H	0.750	1.250	0.375	0.250	12.50	0.110	1	3		1.000	1.014	1.250	
NEW	MR20-AR032025-13M	0.750	1.250	0.375	0.250	12.50	0.110	1		2	1.000	1.014	1.250	
NEW	MR20-AR038032-13H	1.000	1.500	0.375	0.250	7.20	0.094	1	4		1.250	1.294	1.250	
NEW	MR20-AR038032-13M	1.000	1.500	0.375	0.250	7.20	0.094	1		3	1.250	1.294	1.250	

# CoroMill® MR20, cutter for profile milling

Coromant EH - Internal coolant supply



### Common data values

AZ  
[mm]  
2.9

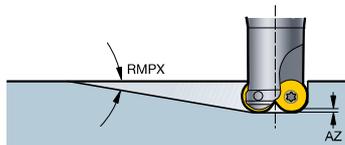
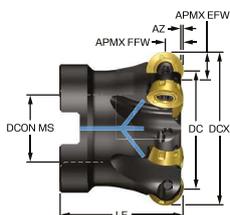
Metric (mm)

	Ordering code	DC [mm]	DCX [mm]	APMX <sub>EFW</sub> [mm]	APMX <sub>FFW</sub> [mm]	RMPX [deg]	CNSC		DCON <sub>MS</sub> [mm]	BD [mm]	LF [mm]	TQ [Nm]	RPMX [1/min]
NEW	MR20-R032EH25-12H	20.00	32.00	9.0	6.0	12.20	1	3	24.20	25.8	30.00	3.0	13600



# CoroMill® MR20, cutter for profile milling

Arbor - Internal coolant supply



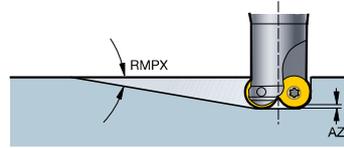
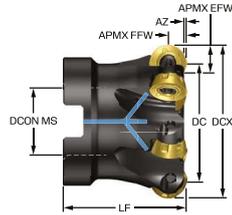
Metric (mm)

	Ordering code	DC [mm]	DCX [mm]	APMX <sub>EFW</sub> [mm]	APMX <sub>FFW</sub> [mm]	RMPX [deg]	AZ [mm]	CNSC				DCON <sub>MS</sub> [mm]	BD [mm]	LF [mm]	TQ [Nm]
NEW	MR20-R050Q22-12H	38.00	50.00	9.0	6.0	5.50	3.1	1	6			22.00	44.2	40.00	3.0
NEW	MR20-R050Q22-12L	38.00	50.00	9.0	6.0	5.50	3.1	1		4		22.00	44.2	40.00	3.0
NEW	MR20-R050Q22-12M	38.00	50.00	9.0	6.0	5.50	3.1	1			5	22.00	44.2	40.00	3.0
NEW	MR20-R052Q22-12H	40.00	52.00	9.0	6.0	5.20	3.0	1	6			22.00	46.2	40.00	3.0
NEW	MR20-R052Q22-12M	40.00	52.00	9.0	6.0	5.20	3.0	1			5	22.00	46.2	40.00	3.0
NEW	MR20-R052Q22-16H	36.00	52.00	12.0	8.0	7.00	3.5	1	5			22.00	44.8	45.00	5.0
NEW	MR20-R052Q22-16M	36.00	52.00	12.0	8.0	7.00	3.5	1			4	22.00	44.8	45.00	5.0
NEW	MR20-R063Q22-12H	51.00	63.00	9.0	6.0	3.80	3.0	1	7			22.00	57.0	40.00	3.0
NEW	MR20-R063Q22-12L	51.00	63.00	9.0	6.0	3.80	3.0	1			5	22.00	57.0	40.00	3.0
NEW	MR20-R063Q22-12M	51.00	63.00	9.0	6.0	3.80	3.0	1			6	22.00	57.0	40.00	3.0
NEW	MR20-R063Q22-16H	47.00	63.00	12.0	8.0	5.00	3.4	1	6			22.00	55.5	42.00	5.0
NEW	MR20-R063Q22-16M	47.00	63.00	12.0	8.0	5.00	3.4	1			4	22.00	55.5	42.00	5.0
NEW	MR20-R066Q22-12H	54.00	66.00	9.0	6.0	3.60	3.0	1	7			22.00	60.0	40.00	3.0
NEW	MR20-R066Q22-12M	54.00	66.00	9.0	6.0	3.60	3.0	1			6	22.00	60.0	40.00	3.0
NEW	MR20-R080Q27-12H	68.00	80.00	9.0	6.0	2.70	3.0	1	9			27.00	73.8	45.00	3.0
NEW	MR20-R080Q27-12M	68.00	80.00	9.0	6.0	2.70	3.0	1			7	27.00	73.8	45.00	3.0
NEW	MR20-R080Q27-16H	64.00	80.00	12.0	8.0	3.40	3.4	1	7			27.00	72.3	45.00	5.0
NEW	MR20-R080Q27-16M	64.00	80.00	12.0	8.0	3.40	3.4	1			6	27.00	72.3	45.00	5.0
NEW	MR20-R100Q32-16H	84.00	100.00	12.0	8.0	2.40	3.3	1	9			32.00	92.7	50.00	5.0
NEW	MR20-R100Q32-16M	84.00	100.00	12.0	8.0	2.40	3.3	1			7	32.00	92.7	50.00	5.0
NEW	MR20-R125Q40-16H	109.00	125.00	12.0	8.0	1.80	3.3	1	10			40.00	117.5	55.00	5.0
NEW	MR20-R125Q40-16M	109.00	125.00	12.0	8.0	1.80	3.3	1			8	40.00	117.5	55.00	5.0



# CoroMill® MR20, cutter for profile milling

Arbor - Internal coolant supply



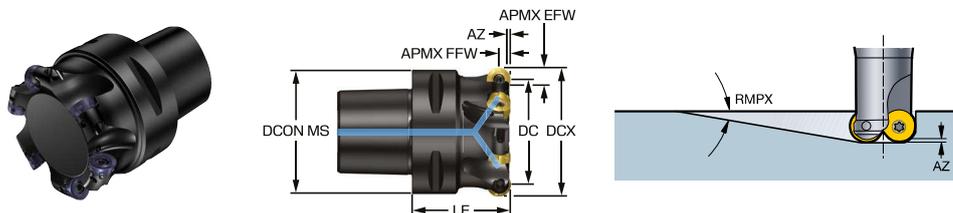
Imperial (inch)

	Ordering code	DC [inch]	DCX [inch]	APMX <sub>EFW</sub> [inch]	APMX <sub>FFW</sub> [inch]	RMPX [deg]	AZ [inch]	CNSC				DCON <sub>MS</sub> [inch]	BD [inch]	LF [inch]	TQ [ft]
NEW	MR20-AR051R19-13H	1.500	2.000	0.375	0.250	5.50	0.118	1	6			0.750	1.754	1.625	2.2
NEW	MR20-AR051R19-13L	1.500	2.000	0.375	0.250	5.50	0.118	1		4		0.750	1.754	1.625	2.2
NEW	MR20-AR051R19-13M	1.500	2.000	0.375	0.250	5.50	0.118	1		5		0.750	1.754	1.625	2.2
NEW	MR20-AR063R19-13H	2.000	2.500	0.375	0.250	3.90	0.118	1	7			0.750	2.244	1.625	2.2
NEW	MR20-AR063R19-13L	2.000	2.500	0.375	0.250	3.90	0.118	1		5		0.750	2.244	1.625	2.2
NEW	MR20-AR063R19-13M	2.000	2.500	0.375	0.250	3.90	0.118	1		6		0.750	2.244	1.625	2.2
NEW	MR20-AR063R19-16H	1.870	2.500	0.472	0.315	4.90	0.134	1	6			0.750	2.206	1.625	3.7
NEW	MR20-AR063R19-16M	1.870	2.500	0.472	0.315	4.90	0.134	1		4		0.750	2.206	1.625	3.7
NEW	MR20-AR076R25-13H	2.500	3.000	0.375	0.250	2.90	0.118	1	8			1.000	2.738	1.750	2.2
NEW	MR20-AR076R25-13M	2.500	3.000	0.375	0.250	2.90	0.118	1		7		1.000	2.738	1.750	2.2
NEW	MR20-AR076R25-16H	2.370	3.000	0.472	0.315	3.70	0.134	1	7			1.000	2.699	1.750	3.7
NEW	MR20-AR076R25-16M	2.370	3.000	0.472	0.315	3.70	0.134	1		6		1.000	2.699	1.750	3.7
NEW	MR20-AR102R38-16H	3.370	4.000	0.472	0.315	2.40	0.130	1	9			1.500	3.711	2.125	3.7
NEW	MR20-AR102R38-16M	3.370	4.000	0.472	0.315	2.40	0.130	1		7		1.500	3.711	2.125	3.7
NEW	MR20-AR127R38-16H	4.370	5.000	0.472	0.315	1.80	0.130	1	10			1.500	4.705	2.125	3.7
NEW	MR20-AR127R38-16M	4.370	5.000	0.472	0.315	1.80	0.130	1		8		1.500	4.705	2.125	3.7



# CoroMill® MR20, cutter for profile milling

Coromant Capto® - Internal coolant supply



Metric (mm)

	Ordering code	DC [mm]	DCX [mm]	APMX <sub>EFW</sub> [mm]	APMX <sub>FFW</sub> [mm]	RMPX [deg]	AZ [mm]	CNSC			DCON <sub>MS</sub> [mm]	BD [mm]	LF [mm]	TQ [Nm]
NEW	MR20-R035C3-12H	23.00	35.00	9.0	6.0	10.80	3.1	3			32.00	29.1	43.00	3.0
NEW	MR20-R035C3-12M	23.00	35.00	9.0	6.0	10.80	3.1	3		3	32.00	29.1	43.00	3.0
NEW	MR20-R042C4-12H	30.00	42.00	9.0	6.0	7.50	3.1	3	5		40.00	36.3	50.00	3.0
NEW	MR20-R042C4-12M	30.00	42.00	9.0	6.0	7.50	3.1	3		4	40.00	36.3	50.00	3.0
NEW	MR20-R052C5-12H	40.00	52.00	9.0	6.0	5.20	3.0	3	6		50.00	46.3	50.00	3.0
NEW	MR20-R052C5-12M	40.00	52.00	9.0	6.0	5.20	3.0	3		5	50.00	46.3	50.00	3.0
NEW	MR20-R052C5-16H	36.00	52.00	12.0	8.0	7.00	3.5	3	5		50.00	45.4	55.00	5.0
NEW	MR20-R052C5-16M	36.00	52.00	12.0	8.0	7.00	3.5	3		4	50.00	45.4	55.00	5.0
NEW	MR20-R066C6-12H	54.00	66.00	9.0	6.0	3.60	3.0	3	7		63.00	60.0	50.00	3.0
NEW	MR20-R066C6-12M	54.00	66.00	9.0	6.0	3.60	3.0	3		6	63.00	60.0	50.00	3.0
NEW	MR20-R066C6-16H	50.00	66.00	12.0	8.0	4.60	3.4	3	6		63.00	58.7	60.00	5.0
NEW	MR20-R066C6-16M	50.00	66.00	12.0	8.0	4.60	3.4	3		5	63.00	58.7	60.00	5.0
NEW	MR20-R080C6-12H	68.00	80.00	9.0	6.0	2.70	3.0	3	9		63.00	73.7	50.00	3.0
NEW	MR20-R080C6-12M	68.00	80.00	9.0	6.0	2.70	3.0	3		7	63.00	73.7	50.00	3.0
NEW	MR20-R080C6-16H	64.00	80.00	12.0	8.0	3.40	3.4	3	7		63.00	72.9	60.00	5.0
NEW	MR20-R080C6-16M	64.00	80.00	12.0	8.0	3.40	3.4	3		6	63.00	72.9	60.00	5.0

Common data values

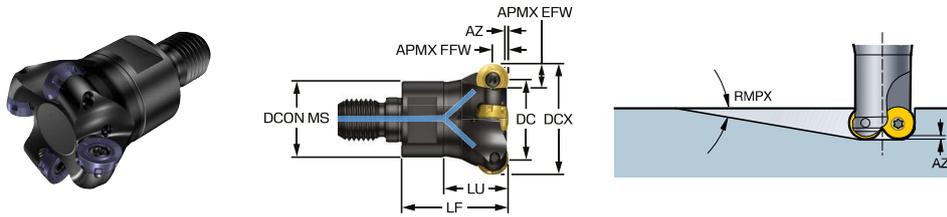
AZ  
[inch]  
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Imperial (inch)

	Ordering code	DC [inch]	DCX [inch]	APMX <sub>EFW</sub> [inch]	APMX <sub>FFW</sub> [inch]	RMPX [deg]	CNSC			DCON <sub>MS</sub> [inch]	BD [inch]	LF [inch]	TQ [ft]	RPMX [1/min]
NEW	MR20-AR052C5-13H	1.563	2.063	0.375	0.250	5.20	3	6		1.969	1.842	2.000	2.2	10600
NEW	MR20-AR052C5-13M	1.563	2.063	0.375	0.250	5.20	3		5	1.969	1.842	2.000	2.2	10600
NEW	MR20-AR066C6-13H	2.125	2.625	0.375	0.250	3.60	3	7		2.480	2.393	2.000	2.2	9400
NEW	MR20-AR066C6-13M	2.125	2.625	0.375	0.250	3.60	3		6	2.480	2.393	2.000	2.2	9400

# CoroMill® MR20, cutter for profile milling

Threaded coupling – Internal coolant supply



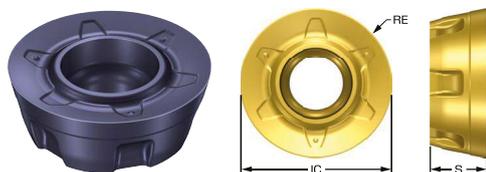
Metric (mm)

	Ordering code	DC [mm]	DCX [mm]	APMX <sub>EFW</sub> [mm]	APMX <sub>FFW</sub> [mm]	RMPX [deg]	AZ [mm]	CNSC		DCON <sub>MS</sub> [mm]	BD [mm]	LF [mm]	TQ [Nm]	RPMX [1/min]
NEW	MR20-R035T16-12M	23.00	35.00	9.0	6.0	9.90	2.9	1	3	28.80	29.5	40.00	3.0	13000
NEW	MR20-R042T16-12M	30.00	42.00	9.0	6.0	6.80	2.8	1	4	28.80	36.3	40.00	3.0	11900



# CoroMill® MR20, insert for milling

Round insert



Metric (mm)

		P		M		N		S		H							
		Ordering code										SSC	S	RE	IC	APMX	HAND
		1230	S30T	1230	1240	1230	S30T	1230	1240	1230	SSC	S	RE	IC	APMX	HAND	
												[mm]	[mm]	[mm]	[mm]	[mm]	
Light	L40	NEW	MR20-1245E-L40	●	○	○	●	○			12	4.50	6.0	12.00	3.0	Neutral	
		NEW	MR20-1654E-L40	●	○	○	●	○			16	5.40	8.0	16.00	4.0	Neutral	
L60		NEW	MR20-1245E-L60	●	○	○	●	○	○	○	12	4.50	6.0	12.00	3.0	Neutral	
		NEW	MR20-1654E-L60	●	○	○	●	○	○	○	16	5.40	8.0	16.00	4.0	Neutral	

● = First choice ○ = Good choice

Imperial (inch)

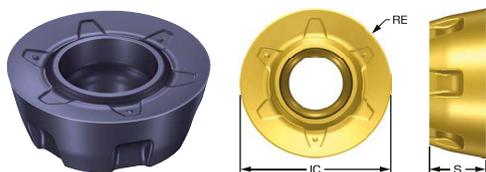
		P		M		N		S		H							
		Ordering code										SSC	S	RE	IC	APMX	HAND
		1230	S30T	1230	1240	1230	S30T	1230	1240	1230	SSC	S	RE	IC	APMX	HAND	
												[inch]	[inch]	[inch]	[inch]	[inch]	
Light	L40	NEW	MR20-1348E-L40	●	○	○	●	○			13	0.187	0.250	0.500	0.125	Neutral	
L60		NEW	MR20-1348E-L60	●	○	○	●	○	○	○	13	0.187	0.250	0.500	0.125	Neutral	

● = First choice ○ = Good choice



# CoroMill® MR20, insert for milling

Round insert



Metric (mm)

		P					M				K		S			H							
		Ordering code															SSC	S [mm]	RE [mm]	IC [mm]	APMX [mm]	HAND	
		4340	4330	1230	2040	S30T	4340	1230	1240	2040	4340	4330	S30T	1230	1240	2040	1230	SSC	S [mm]	RE [mm]	IC [mm]	APMX [mm]	HAND
Medium	M30	NEW	MR20-1245M-M30	○	●	○	○	○	○	○	○	○	○	○	○	○	○	12	4.50	6.0	12.00	3.0	Neutral
		NEW	MR20-1654M-M30	○	●	○	○	○	○	○	○	○	○	○	○	○	○	16	5.40	8.0	16.00	4.0	Neutral
Medium	M60	NEW	MR20-1245M-M60	○	●	○					○	○						12	4.50	6.0	12.00	3.0	Neutral
		NEW	MR20-1654M-M60	○	●	○					○	○						16	5.40	8.0	16.00	4.0	Neutral

● = First choice ○ = Good choice

Imperial (inch)

		P					M				K		S			H							
		Ordering code															SSC	S [inch]	RE [inch]	IC [inch]	APMX [inch]	HAND	
		4340	4330	1230	2040	S30T	4340	1230	1240	2040	4340	4330	S30T	1230	1240	2040	1230	SSC	S [inch]	RE [inch]	IC [inch]	APMX [inch]	HAND
Light	M60	NEW	MR20-1348M-M60	○	●	○					○	○						13	0.187	0.250	0.500	0.125	Neutral
Medium	M30	NEW	MR20-1348M-M30	○	●	○	○	○	○	○	○	○	○	○	○	○	○	13	0.187	0.250	0.500	0.125	Neutral

● = First choice ○ = Good choice