



Carmex
Precision Tools Ltd.

New

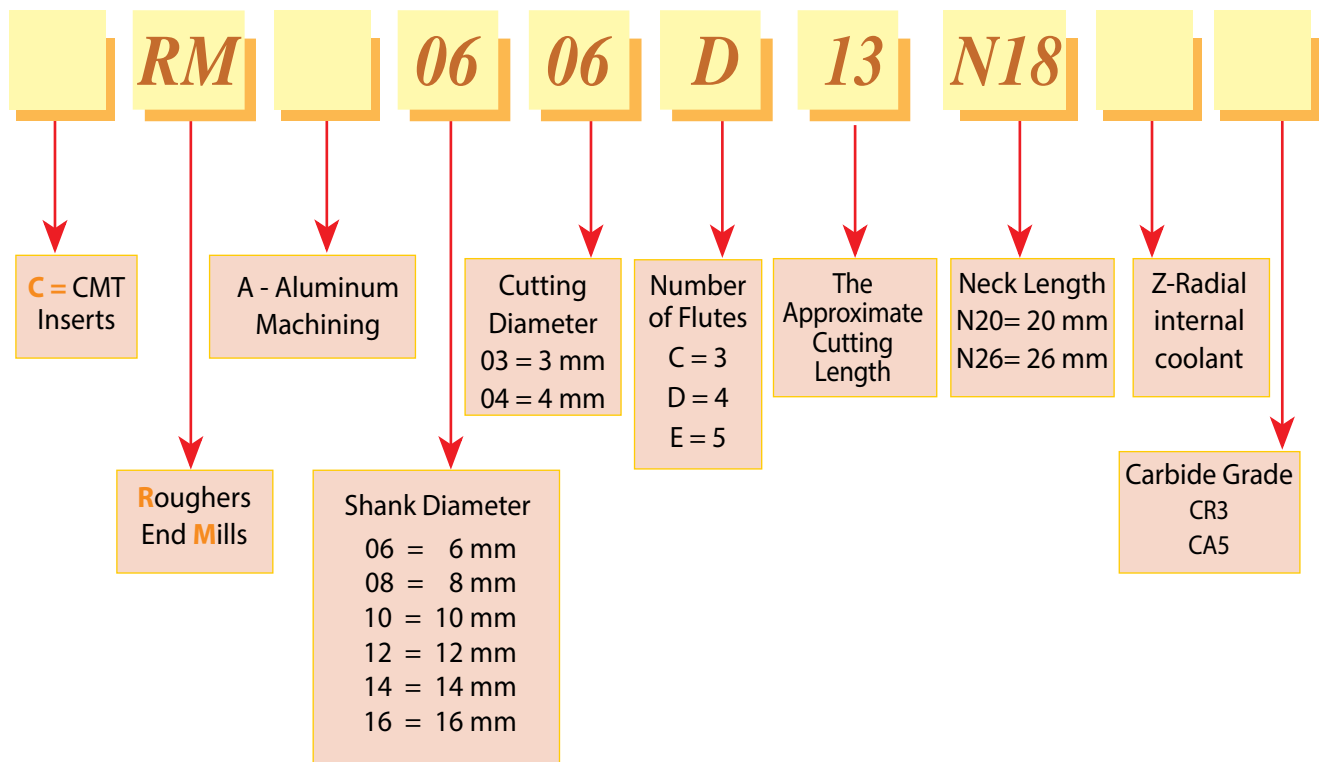
CR-SUPERCUT Roughers



Metric 2016 - 17

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Product Identification Ordering Codes



CR-Supercut Roughers

Carmex solid carbide Roughers are new innovative high performance end mills. Specifically designed for high volume machining applications.

Multi-flute, semi-finish profile and center cutting.

Provides high metal removal rates in Slotting, Shouldering and Helical Plunging operations.



Features

- High Performance Cutting (HPC)
- Innovative roughing geometry produces smaller chips
- Low cutting forces
- Extremely high material removal rate
- Reinforced corner chamfer, promotes additional strength for longer tool life
- Designed to machine difficult and abrasive materials

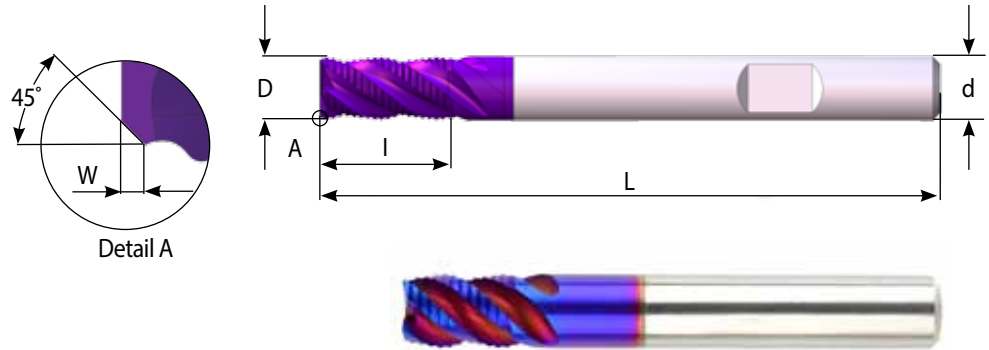
Carbide Grade: CR3

Ultra-Fine carbide grade with high hardness and toughness provides high cutting edge stability and wear resistance.

A **New Generation** of PVD Coating for High-Performance Cutting Applications.

Solid Carbide Roughers

Short Design

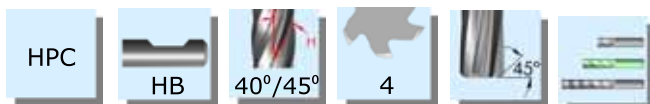


P	M	K	N	S	H
●	●	●	○	●	≤56 HRc

Ordering Code	d	D	W	No. of Flutes	I	L
RM 0603 C05	6	3	0.2	3	5	58
RM 0604 C09	6	4	0.3	3	9	58
RM 0605 D10	6	5	0.3	4	10	58
RM 0606 D10	6	6	0.3	4	10	58
RM 0808 D12	8	8	0.3	4	12	64
RM 1010 D14	10	10	0.3	4	14	73
RM 1212 D16	12	12	0.4	4	16	84
RM 1616 E27	16	16	0.5	5	27	105

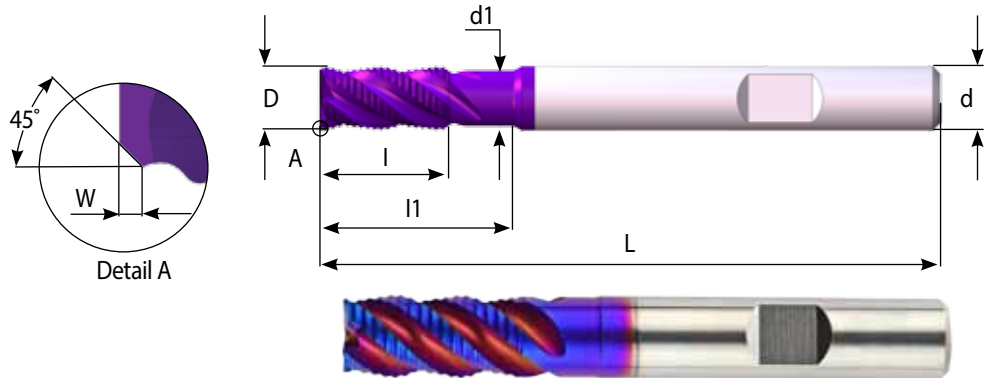
● First choice ○ Alternative

Long Design



Ordering Code	d	D	W	No. of Flutes	I	L
RM 0606 D16	6	6	0.3	4	16	58
RM 0807 D16	8	7	0.3	4	16	64
RM 0808 D18	8	8	0.3	4	18	64
RM 1010 D22	10	10	0.3	4	22	73
RM 1212 D26	12	12	0.4	4	26	84

Solid Carbide Roughers with Neck



P	M	K	N	S	H
●	●	●	○	●	≤56 HRc

Ordering Code	d	D	I	l1	d1	W	No. of Flutes	L
RM 0606 D13 N18	6	6	13	18	5.8	0.3	4	58
RM 0808 D17 N24	8	8	17	24	7.7	0.3	4	64
RM 1010 D21 N30	10	10	21	30	9.7	0.3	4	73
RM 1212 D25 N36	12	12	25	36	11.6	0.4	4	84
RM 1616 E33 N48	16	16	33	48	15.5	0.5	5	105

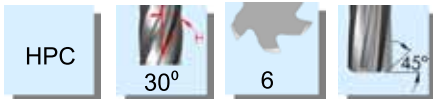
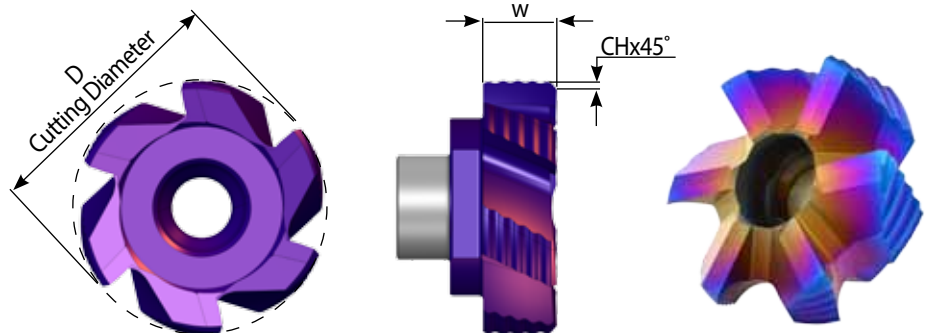
● First choice ○ Alternative

CMT Roughers

Indexable CMT roughers for excellent performance

- Solid and accurate clamping method enables full repeatability
- Working at high machining parameters
- Modular system using the standard CMT tool holders with various shank options
- Enables machining with large overhang

Carbide Grade: CR3



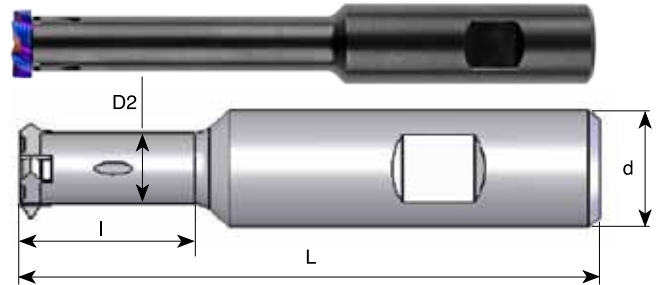
P	M	K	N	S	H
●	●	●	○	●	≤56 HRc

Insert Type	Ordering Code	D	No. of Flutes	W	CH
S20	CRM160 F W50	16.0	6	5.0	0.4
S20	CRM170 F W50	17.0	6	5.0	0.4
S20	CRM200 F W50	20.0	6	5.0	0.4

● First choice ○ Alternative

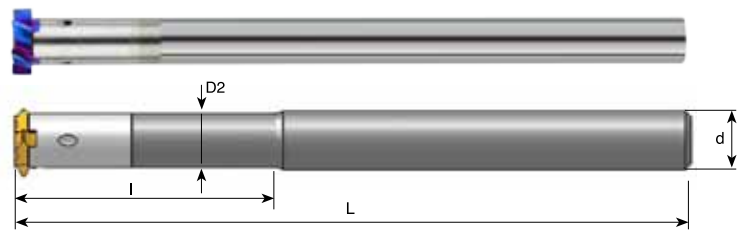
The CMT Roughers should be used with all the toolholders shown on page 6

Steel Toolholders With internal coolant



Ordering Code	Insert Type	d	D2	l	L	Insert Screw	Torx Key
SRC 1618 H	S20	16	13.8	48	100	S16	K16
SRC 2018 H	S20	20	13.8	32	100	S16	K16
SRC 2018 J	S20	20	13.8	48	110	S16	K16
SRC 2018 L	S20	20	13.8	74	140	S16	K16

Carbide Shank Toolholder With internal coolant



Ordering Code	Insert type	d	D2	l	L	Insert Screw	Torx Key
CRC 1218 P	S20	12	12.0	-	170	S16	K16

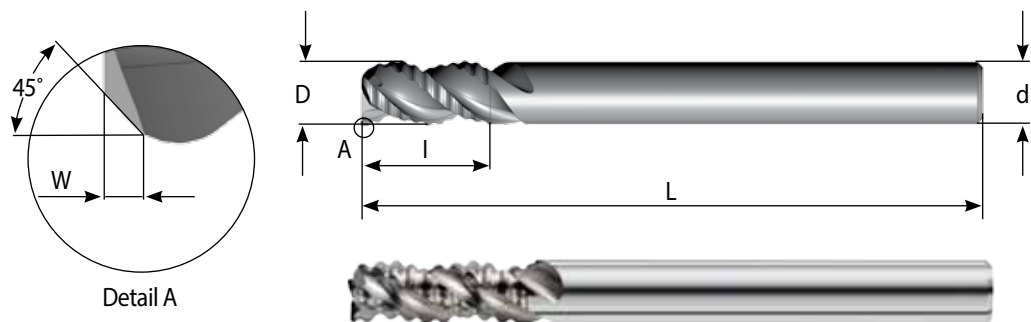
Solid Carbide Roughers- Aluminum Machining

Features

- High Performance Cutting (HPC)
- Optimal flute geometry delivers maximum metal removal rates and better chip evacuation
- Low cutting forces
- Reinforced corner chamfer, promotes additional strength for longer tool life
- Uncoated smooth polished surface finish

Carbide Grade: CA5

Ultra-Fine carbide grade with high hardness and toughness provides high cutting edge stability and wear resistance.



P	M	K	N	S	H
	○	○	●	○	

Ordering Code	d	D	W	No. of Flutes	I	L
RMA 0604 C08	6	4	0.3	3	8	57
RMA 0606 C16	6	6	0.3	3	16	57
RMA 0808 C19	8	8	0.3	3	19	63
RMA 1010 C22	10	10	0.3	3	22	72
RMA 1212 C26	12	12	0.4	3	26	83

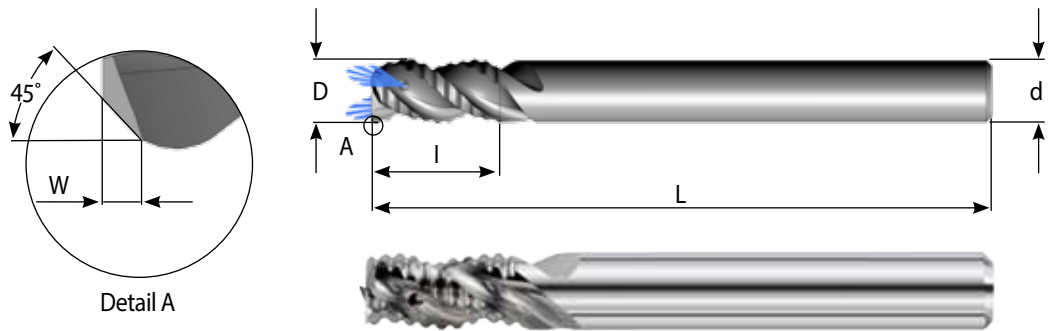
● First choice ○ Alternative

Solid Carbide Roughers - Aluminum Machining with internal coolant through the flutes

Features

- High Performance Cutting (HPC)
- The coolant washes the chip out

Carbide Grade: CA5



P	M	K	N	S	H
	○	○	●	○	

Ordering Code	d	D	W	No. of Flutes	I	L
RMA 0606 C16 Z	6	6	0.3	3	16	58
RMA 0808 C19 Z	8	8	0.3	3	19	64
RMA 1010 C22 Z	10	10	0.3	3	22	73
RMA 1212 C26 Z	12	12	0.4	3	26	84



Hacharoshet St. 1, Maalot Industrial Zone 2101302, ISRAEL
Tel: (972) 4-9077400, Fax: (972) 4-9077440.
E-mail: info@carmex.com Website: www.carmex.com
Postal address: P.O. Box 404, Maalot 2101302, ISRAEL.