

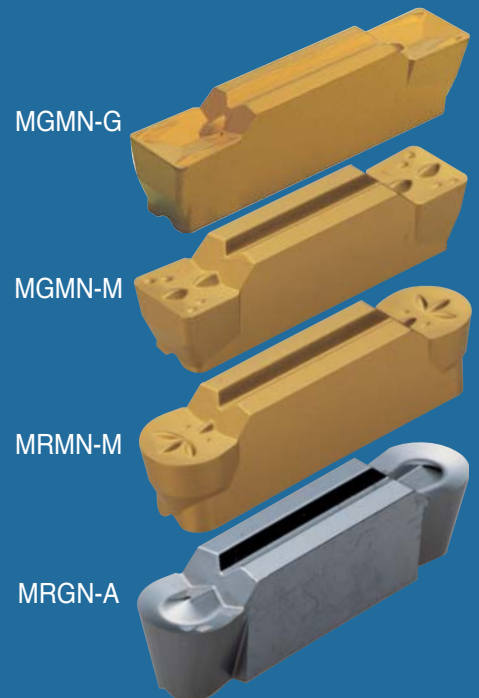
## Multi Grooving Tools

Multitude of operations

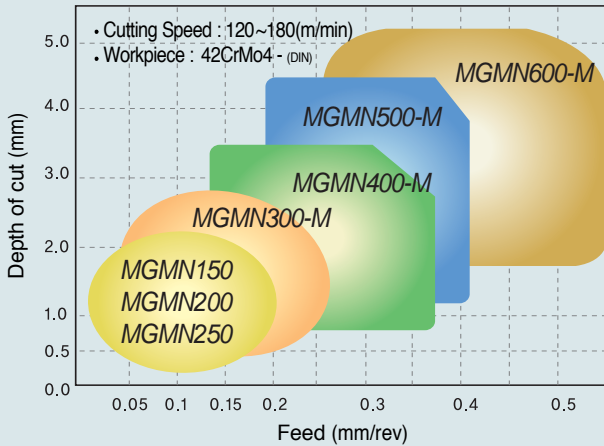
# MGT

### Features

- Unique W shape strong clamping system ensures stability of machining
- M.G.T Insert can be used at Internal operations as well as External operations
- M.G.T Insert's M chip breaker covers a wide range of application from finishing to roughing
- M.G.T has wide application range because a M.G.T Holder can adopt various inserts



## Application Range of MGMN Inserts



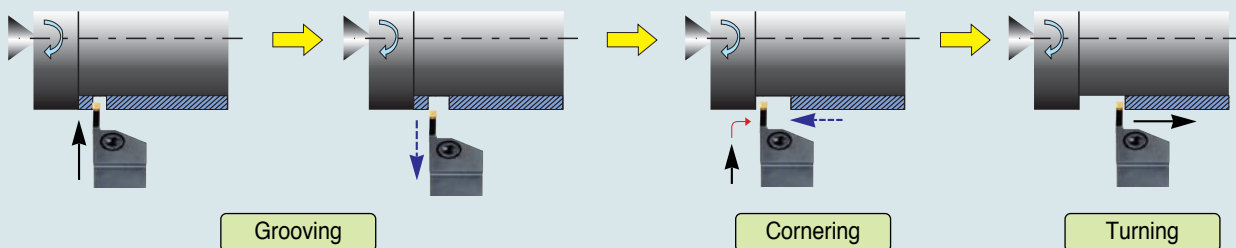
- Depth of cut, feed and Width of Cutting edge
  - If the depth of cut and feed are too bigger than the width of cutting edge, it may bring to breakage due to increasing of cutting resistance of insert.
  - If the depth of cut and feed are too smaller than the width of cutting edge, it may lead to a vibration or unstable machining due to no formation of the sub cutting edge relief angle against no direct influence of tool deflection.
- Grooving Depth of cut
  - Up to  $T_{MAX}$ (projecting part)of holder

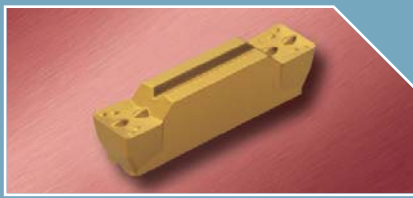
## Recommended Grade

Workpiece		Wear resistance (Grooving, Turning )					
ISO	Material	Grade	Wear Resistance ↔ Toughness				
			01	10	20	30	40
P	Carbon steel · Alloy steel	CVD	NC3010	NC3015	NC3020, NC3120	NC3030	
		PVD	PC230				
		Cermet	CT10	CN20			
M	Stainless steel	CVD	NC9020	NC3030			
		PVD	PC9030				
K	Cast irons	CVD	NC315K				
		PVD	PC205K	PC215K			
	Aluminum	Uncoated	H01		G10		

\* ■ ■ : 1st Choice

## M.G.T for External Machining

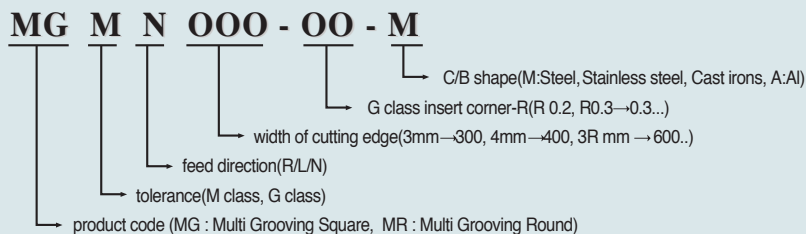




## Tooling Guide

Holder		Grooving, Turning		Relief, Copy	for Aluminum
		MGMN000-M MGMN000-G MGGN000-OO-M		MRMN000-M	MRGN000-A
External		1.5, 2, 2.5, 3, 4, 5, 6, 8 mm		1R, 1.5R, 2R, 2.5R, 3R, 4R mm	2R, 2.5R, 3R, 4R mm
		MGEHRL 2020-1.5, 2, 2.5, 3, 4, 5, 6 2525-1.5, 2, 2.5, 3, 4, 5, 6, 8 3232-3, 4, 5, 6, 8			MGEHRL 2020-6A 2525-6A, 8A 3232-6A, 8A
		1.5, 2, 2.5, 3, 4, 5, 6, 8 mm		1.5R, 2R, 2.5R, 3R, 4R mm	
		MGEVRL 2020-1.5, 2, 2.5, 3, 4, 5, 6 2525-1.5, 2, 2.5, 3, 4, 5, 6, 8 3232-3, 4, 5, 6, 8			
				1R, 1.5R, 2R, 2.5R, 3R, 4R mm	2R, 2.5R, 3R, 4R mm
		MGEURL 2020-3, 4, 5, 6 2525-3, 4, 5, 6, 8 3232-3, 4, 5, 6, 8			MGEURL 2020-6A 2525-6A, 8A 3232-6A, 8A
Internal		1.5, 2, 2.5, 3, 4, 5, 6, 8 mm		1.5R, 2R, 2.5R, 3R, 4R mm	2R, 2.5R, 3R, 4R mm
		MGIVRL 2016-1.5, 2, 2.5 2520-1.5, 2, 2.5, 3, 4 2925-1.5, 2, 2.5 3125-3, 4, 5, 6	3732-3, 4, 5, 6, 8 4540-8		MGIVRL 3125-6A 3732-6A, 8A 4540-6A, 8A
				1.5R, 2R, 2.5R, 3R, 4R mm	2R, 2.5R, 3R, 4R mm
		MGIURL 3020-3, 4 4025-3, 4, 5, 6, 8 5032-3, 4, 5, 6, 8			MGIURL 4025-6A, 8A 5032-6A, 8A

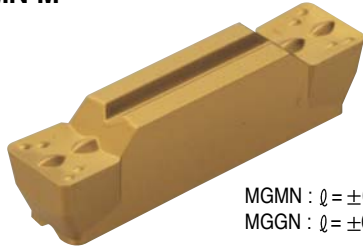
## Insert Code System



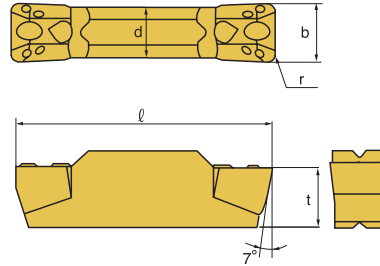


### MGT Insert

#### MGMN-M



MGMN :  $\ell = \pm 0.1$      $b = \pm 0.05$   
 MGGN :  $\ell = \pm 0.025$      $b = \pm 0.02$



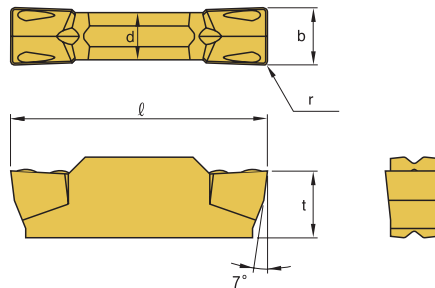
Designation	Grades							Dimensions(mm)				
	NC3010	NC3120	NC3030	PC215K	PC9030	PC230	CN20	b	r	$\ell$	d	t
MGMN200-M		●			●			2.0	0.2	16.0	1.2	3.5
MGMN250-M		●			●			2.5	0.2	18.5	2.0	3.85
MGMN300-02-M				○		○		3.0	0.2	21.0	2.35	4.8
MGMN300-M	○	●	●	●	●	●		3.0	0.4	21.0	2.35	4.8
MGMN350-03-M				○		○		3.5	0.3	21.0	2.9	4.8
MGMN400-02-M				○		○		4.0	0.2	21.0	3.3	4.8
MGMN400-M		●	●	●		●		4.0	0.4	21.0	3.3	4.8
MGMN500-04-M		○	○	○		○		5.0	0.4	26.0	4.1	5.8
MGMN500-M		●		○		●		5.0	0.8	26.0	4.1	5.8
MGMN600-M		●		○				6.0	0.8	26.0	5.0	5.8
MGMN800-M			●					8.0	0.8	31.0	6.0	6.5
MGGN300-02-M							●	3.0	0.2	21.0	2.35	4.8
MGGN300-04-M							●	3.0	0.4	21.0	2.35	4.8
MGGN300-08-M							○	3.0	0.8	21.0	2.35	4.8
MGGN400-02-M							●	4.0	0.2	21.0	3.3	4.8
MGGN400-04-M							●	4.0	0.4	21.0	3.3	4.8
MGGN400-08-M							○	4.0	0.8	21.0	3.3	4.8
MGGN500-02-M							○	5.0	0.2	26.0	4.1	5.8
MGGN500-04-M							●	5.0	0.4	26.0	4.1	5.8
MGGN500-08-M							●	5.0	0.8	26.0	4.1	5.8
MGGN600-02-M							○	6.0	0.2	26.0	5.0	5.8
MGGN600-04-M								6.0	0.4	26.0	5.0	5.8
MGGN600-08-M								6.0	0.8	26.0	5.0	5.8

● Stock item, ○ Under preparing for stock

#### MGMN-G



$\ell = \pm 0.1$   
 $b = \pm 0.05$



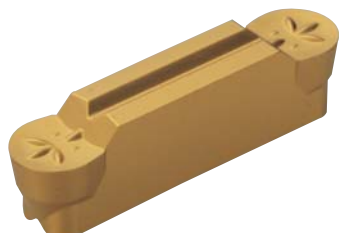
Designation	Grades				Dimensions(mm)				
	NC3120	PC9030	PC3535	PC215K	b	r	$\ell$	d	t
MGMN150-G	●		●		1.5	0.15	16.0	1.2	3.5
MGMN200-G	●	●			2.0	0.2	16.0	1.6	3.5
MGMN250-G	●	●			2.5	0.2	18.5	2.0	3.85
MGMN300-G		○			3.0	0.4	21.0	2.35	4.8
MGMN400-G		○			4.0	0.4	21.0	3.3	4.8
MGMN500-G		○			5.0	0.8	26.0	4.1	5.8
MGMN600-G					6.0	0.8	26.0	5.0	5.8

● Stock item, ○ Under preparing for stock

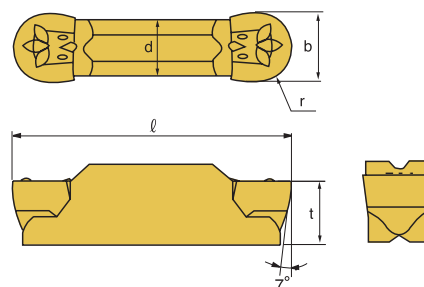


### MGT Insert

#### MRMN-M



$\varnothing = \pm 0.1$   
 $b = \pm 0.05$



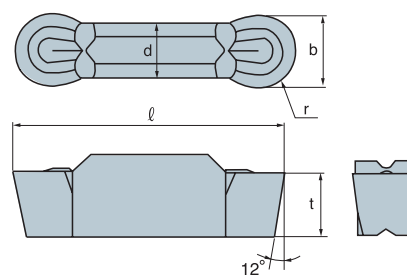
Designation	Grades				Dimensions(mm)				
	NC3120	NC3030	PC9030	PC230	b	r	l	d	t
MRMN200-M	●		○		2.0	1.0	16.0	1.50	3.5
MRMN300-M	●		○	●	3.0	1.5	21.0	2.35	4.8
MRMN400-M	●	●	○	○	4.0	2.0	21.0	3.3	4.8
MRMN500-M	●		○	●	5.0	2.5	26.0	4.1	5.8
MRMN600-M	●	●	○		6.0	3.0	26.0	5.0	5.8
MRMN800-M	●		○		8.0	4.0	31.0	6.0	6.5

● Stock item, ○ Under preparing for stock

#### MRGN-A



$\varnothing = \pm 0.03$   
 $b = \pm 0.03$



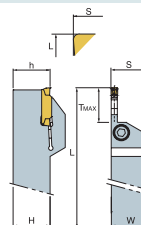
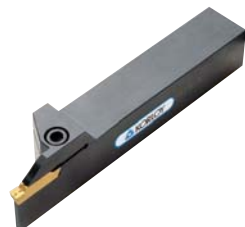
Designation	Grades		Dimensions(mm)				
	H01	G10	b	r	l	d	t
MRGN400-A	○		4.0	2.0	21.0	3.3	4.8
MRGN500-A	○		5.0	2.5	26.0	4.1	5.8
MRGN600-A	●		6.0	3.0	26.0	5.0	5.8
MRGN800-A	●		8.0	4.0	31.0	6.0	6.5

● Stock item, ○ Under preparing for stock



### External Holder

#### MGEHR/L



Designation	Stock		H(h)	W	L	S	T <sub>MAX</sub>	Insert	Screw	Wrench
	R	L								
MGEHR/L1616-1.5	●	●	16	16	100	16.25	14.5	MGMN150-G	LTX0514	TW20L
MGEHR/L2020-1.5	●	●	20	20	125	20.25	14.5			
MGEHR/L2525-1.5	●	●	25	25	150	25.25	14.5			
MGEHR/L1212-2	●		12	12	100	14.25	14.5	MGMN200-G MGMN200-M	MHA0512	HW40L
MGEHR/L1616-2	●	●	16	16	100	16.25	14.5			
MGEHR/L2020-2	●	●	20	20	125	20.25	14.5			
MGEHR/L2525-2	●	●	25	25	150	25.25	14.5	MGMN250-G MGMN250-M	MHA0512	HW40L
MGEHR/L1616-2.5	●	●	16	16	100	16.30	16.5			
MGEHR/L2020-2.5	●	●	20	20	125	20.30	16.5			
MGEHR/L2525-2.5	●	●	25	25	150	25.30	16.5	MGMN300-M MGGN300-□□-M MRMN300-M		
MGEHR/L1616-3	●	●	16	16	100	16.35	18.5			
MGEHR/L2020-3	●	●	20	20	125	20.4	18			
MGEHR/L2020-3-T10	●		20	20	125	20.4	10	MGMN400-M MGGN400-□□-M MRMN400-M		
MGEHR/L2525-3	●	●	25	25	150	25.4	18			
MGEHR/L2525-3-T10	●		25	25	150	25.4	10			
MGEHR/L3232-3	●	●	32	32	170	32.4	18	MGMN500-M MGGN500-□□-M MRMN500-M	BHA0616	HW50L
MGEHR/L3232-3-T10	●		32	32	170	32.4	10			
MGEHR/L2020-4	●	●	20	20	125	20.4	18			
MGEHR/L2020-4-T10	●		20	20	125	20.4	10	MGMN600-M MGGN600-□□-M MRMN600-M		
MGEHR/L2525-4	●	●	25	25	150	25.4	18			
MGEHR/L2525-4-T10	●	●	25	25	150	25.4	10			
MGEHR/L3232-4	●	●	32	32	170	32.4	18	MRMN800-M MGMN800-M		
MGEHR/L3232-4-T10			32	32	170	32.4	10			
MGEHR/L2020-5	●	●	20	20	150	20.5	23			
MGEHR/L2020-5-T15			20	20	150	20.5	15	MRGN600-A		
MGEHR/L2525-5	●	●	25	25	150	25.5	23			
MGEHR/L2525-5-T15			25	25	150	25.5	15			
MGEHR/L3232-5	●	●	32	32	170	32.5	23	MRGN800-A		
MGEHR/L3232-5-T15			32	32	170	32.5	15			
MGEHR/L2020-6	●	●	20	20	125	20.6	23			
MGEHR/L2020-6-T15			20	20	125	20.6	15	MRGN800-A		
MGEHR/L2525-6	●	●	25	25	150	25.6	23			
MGEHR/L2525-6-T15			25	25	150	25.6	15			
MGEHR/L3232-6	●	●	32	32	170	32.6	23	MRGN800-A		
MGEHR/L3232-6-T15			32	32	170	32.6	15			
MGEHR/L2525-8	●	●	25	25	150	26.1	28			
MGEHR/L2525-8-T15	●		25	25	150	26.1	15	MRGN800-A		
MGEHR/L3232-8	●		32	32	170	33.1	28			
MGEHR/L3232-8-T15			32	32	170	33.1	16			
MGEHR/L2525-6A	●	●	25	25	150	25.6	23	MRGN800-A		
MGEHR/L2525-6A-T15			25	25	150	25.6	15			
MGEHR/L3232-6A			32	32	170	32.6	23			
MGEHR/L3232-6A-T15			32	32	170	32.6	15	MRGN800-A		
MGEHR/L2525-8A	●	●	25	25	150	26.1	28			
MGEHR/L2525-8A-T15	●	●	25	25	150	26.1	16			
MGEHR/L3232-8A			32	32	170	33.1	28	MRGN800-A		
MGEHR/L3232-8A-T15			32	32	170	33.1	15			

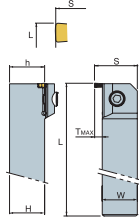
● Stock item, ○ Under preparing for stock



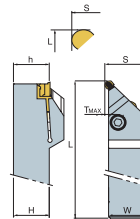


### External Holder

#### MGEVR/L



#### MGEUR/L



Designation	Stock		H(h)	W	L	S	TMAX	Insert	Screw	Wrench
	R	L								
MGEVR20201.5	○		20	20	125	23	3	MGMN150-G	LTX0514	TW 20L
MGEVR25251.5			25	25	150	28	3			
MGEVR32321.5			32	32	170	35	3			
MGEVR/L2020-2	●		20	20	125	23.5	3.5	MGMN200-M MGMN200-G	BHA0616	HW 50L
MGEVR/L2525-2	○		25	25	150	28.5	3.5			
MGEVR3232-2			32	32	170	35.5	3.5			
MGEVR2020-2.5	○		20	20	125	24	4	MGMN250-M MGMN250-G		
MGEVR2525-2.5	○		25	25	150	29	4			
MGEVR3232-2.5			32	32	170	36	4			
MGEVR/L2020-3	●		20	20	125	25.5	5	MGMN300-M MGGN300-□□-M MRMN300-M		
MGEVR/L2525-3	●	●	25	25	150	30.5	5			
MGEVR/L3232-3	○		32	32	170	37.5	5			
MGEVR/L2020-4	○		20	20	125	25.5	5	MGMN400-M MGGN400-□□-M MRMN400-M		
MGEVR/L2525-4	●		25	25	150	30.5	5			
MGEVR/L3232-4	○		32	32	170	37.5	5			
MGEVR/L2020-5			20	20	125	27	7	MGMN500-M MGGN500-□□-M MRMN500-M		
MGEVR/L2525-5	○		25	25	150	32	7			
MGEVR/L3232-5	○		32	32	170	39	7			
MGEVR/L2020-6			20	20	125	27	7	MGMN600-M MGGN600-□□-M MRMN600-M		
MGEVR/L2525-6	○		25	25	150	32	7			
MGEVR/L3232-6	○		32	32	170	39	7			
MGEVR/L2525-8			25	25	150	34	9	MRMN800-M		
MGEVR/L3232-8	○		32	32	170	41	9			
MGEVR/L2525-6A			25	25	150	32	7	MRGN600-A		
MGEVR/L3232-6A			32	32	170	39	7			
MGEVR/L2525-8A			25	25	150	34	9	MRGN800-A		
MGEVR/L3232-8A			32	32	170	41	9			

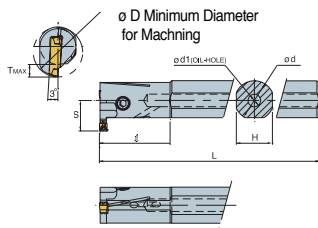
● Stock item, ○ Under preparing for stock

Designation	Stock		H(h)	W	L	S	TMAX	Insert	Screw	Wrench
	R	L								
MGEUR/L2020-3	●		20	20	125	23	3	MRMN300-M	BHA0616	HW 50L
MGEUR/L2525-3	●		25	25	150	28	3			
MGEUR/L3232-3			32	32	170	35	3			
MGEUR/L2020-4	○		20	20	125	23	3	MRMN400-M		
MGEUR/L2525-4	●		25	25	150	28	3			
MGEUR/L3232-4	○		32	32	170	35	3			
MGEUR/L2020-5			20	20	125	24	4	MRMN500-M		
MGEUR/L2525-5	○		25	25	150	29	4			
MGEUR/L3232-5	○		32	32	170	36	4			
MGEUR/L2020-6			20	20	125	24	4	MRMN600-M		
MGEUR/L2525-6	○		25	25	150	29	4			
MGEUR/L3232-6	○		32	32	170	36	4			
MGEUR/L2525-8			25	25	150	30	5	MRMN800-M		
MGEUR/L3232-8			32	32	170	37	5			
MGEUR/L2525-6A			25	25	150	29	4	MRGN600-A		
MGEUR/L3232-6A			32	32	170	36	4			
MGEUR/L2525-8A			25	25	150	30	5	MRGN800-A		
MGEUR/L3232-8A			32	32	170	37	5			

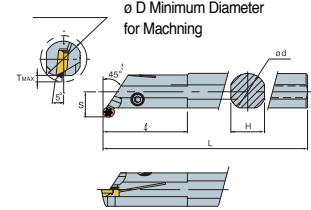
● Stock item, ○ Under preparing for stock

### Internal Holder

#### MGIVR/L



#### MGIURL



Designation	Stock		øD	ød	L	ℓ	TMAX	H	S	Insert	Screw	Wrench
	R	L										
MGIVR/L20161.5	○		20	16	125	35	4	15	11.3	MGMN150-G	MHB0310	HW25L
MGIVR/L25201.5			25	20	150	45	4	18	13.1		MHA0512	HW40L
MGIVR/L29251.5			29	25	200	45	4	23	16.2			
MGIVR/L2016-2	●	●	20	16	125	35	5	15	12.4	MGMN200-G	MHB0310	HW25L
MGIVR/L2520-2	●	●	25	20	150	45	5	18	14.0	MGMN200-M	MHA0512	HW40L
MGIVR/L2925-2	●	●	29	25	200	45	5	23	17.2			
MGIVR/L20162.5			20	16	125	35	6	15	12.5	MGMN250-G MGMN250-M	MHB0310	HW25L
MGIVR/L25202.5	○		25	20	150	45	6	18	15.1			
MGIVR/L29252.5	○		29	25	200	45	6	23	18.2		MHB0512	HW40L
MGIVR/L2520-3	●	●	25	20	150	45	6	18	15.6	MGMN300-M MGGN300-□□-M MRMN300-M	MHA0512	HW40L
MGIVR/L3125-3	●	●	31	25	200	45	6	23	18.9			
MGIVR/L3732-3	●	●	37	32	250	65	6	30	21.5			
MGIVR/L2520-4	●	●	25	20	150	45	6	18	15.6	MGMN400-M MGGN400-□□-M MRMN400-M		
MGIVR/L3125-4	●		31	25	200	45	6	23	18.9			
MGIVR/L3732-4	●		37	32	250	65	6	30	21.5			
MGIVR/L3125-5	●		31	25	200	45	8	23	19.4	MGMN500-M MGGN500-□□-M MRMN500-M		
MGIVR/L3732-5			37	32	250	65	8	30	21.5			
MGIVR/L3125-6	●	●	31	25	200	45	8	23	19.4			
MGIVR/L3732-6	●		37	32	250	65	8	30	21.5			
MGIVR/L3732-8			37	32	250	65	10	30	23.4	MRMN800-M		
MGIVR/L4540-8	●		45	40	300	70	10	37	27.2			
MGIVR/L3125-6A	●		31	25	200	45	8	23	19.4	MRGN600-A		
MGIVR/L3732-6A			37	32	250	65	8	30	21.5			
MGIVR/L3732-8A			37	32	250	65	10	30	23.4	MRGN800-A		
MGIVR/L4540-8A			45	40	300	70	10	37	27.2			

● Stock item, ○ Under preparing for stock

Designation	Stock		øD	ød	L	ℓ	TMAX	H	S	Insert	Screw	Wrench
	R	L										
MGIURL3520-3	○		35	20	150	45	3.5	18	13	MRMN300-M	MHA0512	HW40L
MGIURL4025-3	●		40	25	200	45	3.5	23	15.5			
MGIURL5032-3			50	32	250	65	3.5	30	19			
MGIURL3520-4			35	20	150	45	3.5	18	13	MRMN400-M		
MGIURL4025-4	●		40	25	200	45	3.5	23	15.5			
MGIURL5032-4	●		50	32	250	65	3.5	30	19			
MGIURL4025-5	○		40	25	200	45	3.5	23	15.5	MRMN500-M		
MGIURL5032-5	○		50	32	250	65	3.5	30	19			
MGIURL4025-6			40	25	200	45	3.5	23	19	MRMN600-M		
MGIURL5032-6	○		50	32	250	65	3.5	30	19			
MGIURL4025-8			40	25	200	45	6.5	23	15.5	MRMN800-M		
MGIURL5032-8	○		50	32	250	65	6.5	30	19			
MGIURL4025-6A			40	25	200	45	3.5	23	15.5	MRGN600-A		
MGIURL5032-6A			50	32	250	65	3.5	30	19			
MGIURL4025-8A			40	25	200	45	5.0	23	18.5	MRGN800-A		
MGIURL5032-8A			50	32	250	65	6.5	30	22			

● Stock item, ○ Under preparing for stock





### Recommended Cutting Conditions

Designation	feed (mm/rev) (ipr)	Cutting Speed V(m/min) (sfm)											
		Carbon steel			Alloy steel			High Hardened Alloy steel			STS	Cast irons	Al
		NC3020 NC3120	NC3030	CN20 CT10	NC3020 NC3120	NC3030 PC230	CN20 CT10	NC3020 NC3120	NC3030	CN20 CT10	PC230 PC9030	PC215K	H01
<b>MGMN150-G</b>	0.05	200	170	170	180	150	150	130	100	100	160	210	
<b>MGMN200-G</b>	0.002	660	560	560	595	495	495	430	330	330	530	695	
<b>MGMN200-M</b>	0.12	180	150	150	160	130	130	120	90	90	150	180	
<b>MGMN250-G</b>	0.005	595	495	495	530	430	430	395	295	295	495	595	
<b>MGMN250-M</b>	0.20	150	120	120	130	100	100	90	60	60	130	150	
	0.008	495	395	395	430	330	330	395	200	200	430	495	
<b>MGMN300-M</b>	0.07	190	160	160	160	130	130	120	90	90	160	200	
<b>MGMN300-G</b>	0.003	625	530	530	530	430	430	395	295	295	530	660	
<b>MGGN300-00-M</b>	0.15	170	140	140	140	110	110	100	70	70	140	180	
<b>MRMN300-M</b>	0.25	140	110	110	120	90	90	60	40	40	120	150	
	0.010	460	365	365	395	295	295	200	130	130	395	495	
<b>MGMN400-M</b>	0.13	200	170	170	180	150	150	130	100	100	160	210	
<b>MGMN400-G</b>	0.005	660	560	560	595	495	495	430	330	330	530	695	
<b>MGGN400-00-M</b>	0.25	170	140	140	160	130	130	110	80	80	140	180	
<b>MRMN400-M</b>	0.010	560	460	460	530	430	430	365	265	265	460	595	
	0.35	120	100	100	130	100	100	70	50	50	120	130	
	0.014	395	330	330	430	330	330	230	165	165	395	430	
<b>MGMN500-M</b>	0.15-0.20	180	150	150	160	130	130	120	90	90	150	180	
<b>MGMN500-G</b>	0.006-0.008	595	495	495	530	430	430	395	295	295	495	595	
<b>MGGN500-00-M</b>	0.30	150	120	120	130	100	100	90	60	60	130	150	
<b>MRMN500-M</b>	0.012	495	395	395	430	330	330	295	200	200	430	495	
	0.40	120	100	100	100	80	80	60	40	40	100	120	
	0.016	395	330	330	330	265	265	200	130	130	330	395	
<b>MGMN600-M</b>	0.25	190	160	160	160	130	130	100	70	70	160	190	
<b>MGMN600-G</b>	0.010	625	530	530	530	430	430	330	230	230	530	625	
<b>MGGN600-00-M</b>	0.35	150	120	120	100	80	80	70	50	50	110	150	
<b>MRMN600-M</b>	0.014	495	395	395	330	265	265	230	165	165	365	495	
	0.50	120	90	90	80	50	50	50	30	30	80	120	
	0.020	395	295	295	265	165	165	165	100	100	265	395	
<b>MGMN800-M</b>	0.25	190	160	160	160	130	130	100	70	70	160	190	
<b>MGMN800-G</b>	0.010	625	530	530	530	430	430	330	230	230	530	625	
<b>MRMN800-M</b>	0.35	150	120	120	100	80	80	70	50	50	110	150	
	0.014	495	395	395	330	265	265	230	165	165	365	495	
	0.40	120	90	90	80	50	50	50	30	30	80	120	
	0.016	395	295	295	265	165	165	165	100	100	265	395	
<b>MRGN600-A</b>	0.10												250-1000
	0.004												825-3300
	0.25												250-800
	0.010												825-2640
	0.40												250-700
	0.016												825-2310
<b>MRGN800-A</b>	0.10												250-1000
	0.004												825-3300
	0.25												250-800
	0.010												825-2640
	0.40												250-700
	0.016												825-2310

※ Above cutting conditions can be adjusted by each machine, workpiece and other factors.

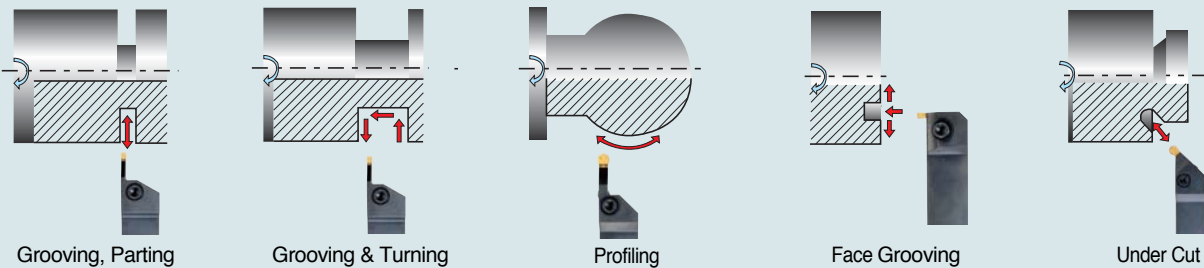
## Recommended Grade

Designation	Steel						Stainless steel			Cast iron		Al
	CVD		PVD		Cermet		CVD	PVD		PVD	Uncoated	Uncoated
	NC3020 NC3120	NC3030	PC230	PC3535	CN20	CT10	NC3030	PC230	PC9030	PC215K	G10	H01
MGMN150-G	●			●					●			
MGMN200-G	●	△	△		-	-	△	△	●	△	△	
MGMN200-M	●								●			
MGMN250-G	●								●			
MGMN250-M	●											
MGMN300-G	△	△	△		-	-	△	△		△	△	-
MGMN400-G	△	△	△		-	-	△	△		△	△	-
MGMN500-G	△	△	△		-	-	△	△		△	△	-
MGMN300-M	●	●	●		-	-	●	●		●	△	-
MGMN400-M	●	●	●		-	-	●	●		●	△	-
MGMN500-M	●	△	●		-	-	△	●		△	△	-
MGMN600-M	●	△	△		-	-	△	△		△	△	-
MGMN800-M	△	△	△		-	-	△	△		△	△	-
MGGN300-00-M	-	-	-		△	△	-	-		-	-	-
MGGN400-00-M	-	-	-		△	△	-	-		-	-	-
MGGN500-00-M	-	-	-		△	△	-	-		-	-	-
MGGN600-00-M	-	-	-		△	△	-	-		-	-	-
MRMN300-M	●	△	△		-	-	△	△		△	△	-
MRMN400-M	●	△	△		-	-	△	△		△	△	-
MRMN500-M	●	△	△		-	-	△	△		△	△	-
MRMN600-M	●	△	△		-	-	△	△		△	△	-
MRMN800-M	△	△	△		-	-	△	△		△	△	-
MRGN600-A	-	-	-		-	-	-	△		-	-	●
MRGN800-A	-	-	-		-	-	-	△		-	-	●

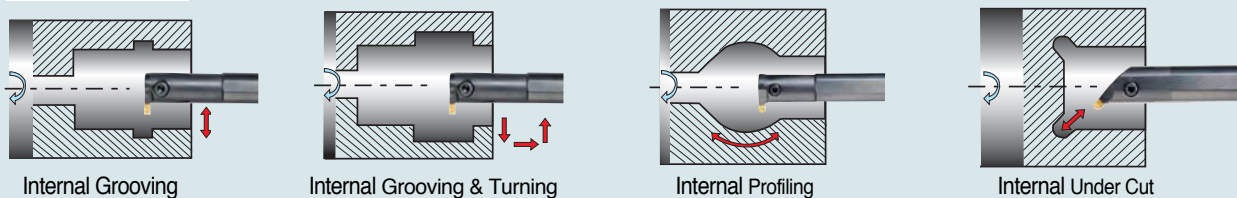
● : Stock △ : Order made

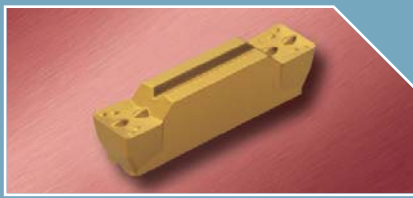
## Applications for M.G.T

### External



### Internal





### Multi Grooving Tools



MGEHR



MGEVR



MGEUR



MGIVR



MGIUR

### MGT FORMING INSERT Code System

Classification	Designation	Configuration
NO.1	<p><b>M F G N 4 - 0.5R - 30D</b></p> <p>① ② ③ ④ ⑤ ⑥ ⑦</p> <p>① Multi ② Forming ③ Grinding ④ Feed Direction</p> <p>⑤ Clamp part : 4mm ⑥ Nose Radius : 0.5 ⑦ Degree : 30°</p>	<p>ex) MFGN4-0.5R-30D</p>
NO.2	<p><b>MFGN4 - 0.5R - L 50D - R 30D</b></p> <p>① ② ③ ④ ⑤ ⑥</p> <p>① Refer to No.1 ② Nose Radius : 0.5 ③ Left ④ Degree : 50°</p> <p>⑤ Right ⑥ Degree : 30°</p>	<p>ex) MFGN4-0.5R-L50D-R30D</p>
NO.3	<p><b>MFGN4 - 2.0 - R 020 250 - L 105 335</b></p> <p>① ② ③ ④ ⑤ ⑥ ⑦ ⑧</p> <p>① Refer to No.1 ② Width of cutting edge : 2.0mm ③ Right ④ Nose Radius : 0.20</p> <p>⑤ Degree : 25.0° ⑥ Left ⑦ Nose Radius : 1.05 ⑧ Degree : 33.5°</p>	<p>ex) MFGN4-2.0-R020250-L105335</p>
NO.4	<p><b>MFGN5 - 4.0R F</b></p> <p>① ② ③</p> <p>① Refer to No.1 ② Radius : 4.0 ③ Front(Concave)</p>	<p>ex) MFGN5-4.0RF</p>
	<p><b>MFGN5 - 4.0R B</b></p> <p>① ③ ④</p> <p>① Refer to No.1 ② Radius : 4.0 ③ Back(Concave)</p>	<p>ex) MFGN5-4.0RB</p>
NO.5	<p><b>MFGN5 - 4.0 - R 005 - L 030</b></p> <p>① ② ③ ④ ⑤ ⑥</p> <p>① Refer to No.1 ② Width of cutting edge : 4.0mm ③ Right ④ Nose Radius : 0.05</p> <p>⑤ Left ⑥ Nose Radius : 0.30</p>	<p>ex) MFGN5-4.0-R005-L030</p>

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