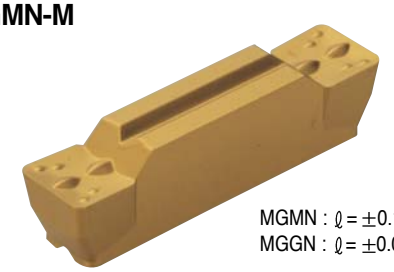
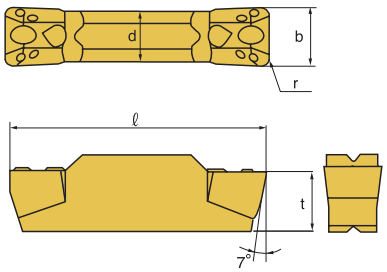


MGT Insert

MGMN-M



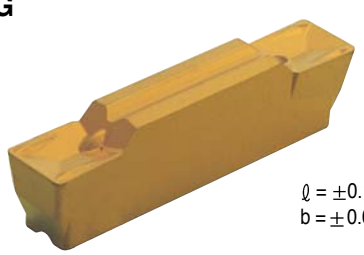
MGMN : ℓ = ±0.1 b = ±0.05
MGGN : ℓ = ±0.025 b = ±0.02



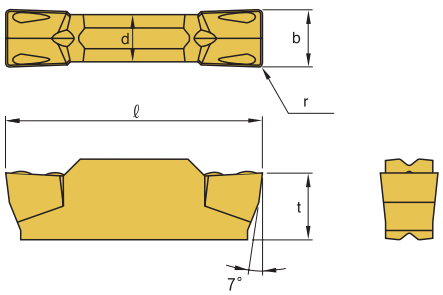
Designation	Grades							Dimensions(mm)				
	NC3010	NC3120	NC3030	PC215K	PC9030	PC230	CN20	b	r	ℓ	d	t
MGMN200-M		●			●			2.0	0.2	16.0	1.2	3.5
MGMN250-M		●			●			2.5	0.2	18.5	2.0	3.85
MGMN300-02-M				○		○		3.0	0.2	21.0	2.35	4.8
MGMN300-M	○	●	●	●	●	●		3.0	0.4	21.0	2.35	4.8
MGMN350-03-M				○		○		3.5	0.3	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



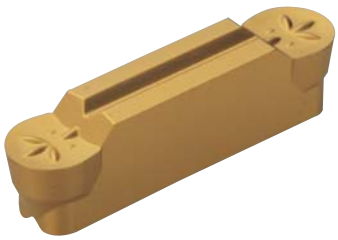
ℓ = ±0.1
b = ±0.05



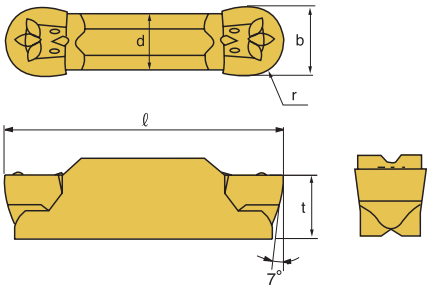
Designation	Grades				Dimensions(mm)				
	NC3120	PC9030	PC3535	PC215K	b	r	ℓ	d	t
MGMN150-G	●		●		1.5	0.15	16.0	1.2	3.5
MGMN200-G	●	●			2.0	0.2	16.0	1.6	3.5
MGMN250-G	●	●			2.5	0.2	18.5	2.0	3.85
MGMN300-G		○			3.0	0.4	21.0	2.35	4.8
MGMN400-G		○			4.0	0.4	21.0	3.3	4.8
MGMN500-G		○			5.0	0.8	26.0	4.1	5.8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

MGT Insert

MRMN-M



ℓ = ±0.1
b = ±0.05



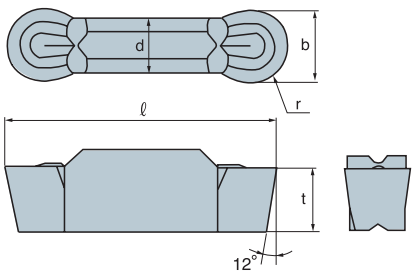
Designation	Grades				Dimensions(mm)				
	NC3120	NC3030	PC9030	PC230	b	r	ℓ	d	t
MRMN200-M	●		○		2.0	1.0	16.0	1.50	3.5
MRMN300-M	●		○	●	3.0	1.5	21.0	2.35	4.8
MRMN400-M	●	●	○	○	4.0	2.0	21.0	3.3	4.8
MRMN500-M	●		○	●	5.0	2.5	26.0	4.1	5.8
MRMN600-M	●	●	○		6.0	3.0	26.0	5.0	5.8
MRMN800-M	●		○		8.0	4.0	31.0	6.0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

●Stock item, ○Under preparing for stock

MRGN-A



ℓ = ±0.03
b = ±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

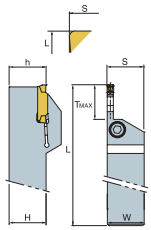
●Stock item, ○Under preparing for stock



External Holder

MGEHR/L





Designation	Stock		H(h)	W	L	S	TMAX	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			
MGEHR/L1616-2.5	●	●	16	16	100	16.30	16.5	MGMN250-G MGMN250-M	MHA0512	HW40L
MGEHR/L2020-2.5	●	●	20	20	125	20.30	16.5			
MGEHR/L2525-2.5	●	●	25	25	150	25.30	16.5			
MGEHR/L1616-3	●	●	16	16	100	16.35	18.5	MGMN300-M MGGN300-□□-M MRMN300-M	BHA0616	HW50L
MGEHR/L2020-3	●	●	20	20	125	20.4	18			
MGEHR/L2020-3-T10	●		20	20	125	20.4	10			
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			
MGEHR/L3232-3-T10			32	32	170	32.4	10			
MGEHR/L2020-4	●	●	20	20	125	20.4	18	MGMN400-M MGGN400-□□-M MRMN400-M		
MGEHR/L2020-4-T10	●		20	20	125	20.4	10			
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			
MGEHR/L3232-4-T10			32	32	170	32.4	10			
MGEHR/L2020-5	●	●	20	20	150	20.5	23	MGMN500-M MGGN500-□□-M MRMN500-M		
MGEHR/L2020-5-T15			20	20	150	20.5	15			
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			
MGEHR/L3232-5-T15			32	32	170	32.5	15			
MGEHR/L2020-6	●	●	20	20	125	20.6	23	MGMN600-M MGGN600-□□-M MRMN600-M		
MGEHR/L2020-6-T15			20	20	125	20.6	15			
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			
MGEHR/L3232-6-T15			32	32	170	32.6	15			
MGEHR/L2525-8	●	●	25	25	150	26.1	28	MRMN800-M MGMN800-M		
MGEHR/L2525-8-T15	●		25	25	150	26.1	15			
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	MRGN600-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			
MGEHR/L2525-8A	●	●	25	25	150	26.1	28	MRGN800-A		
MGEHR/L2525-8A-T15	●	●	25	25	150	26.1	16			
MGEHR/L3232-8A			32	32	170	33.1	28			
MGEHR/L3232-8A-T15			32	32	170	33.1	15			

●Stock item, ○Under preparing for stock

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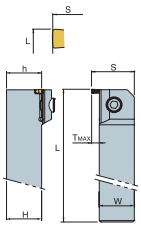
External Holder

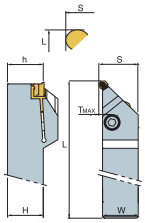
MGEVR/L





MGEUR/L





Designation	Stock R	Stock L	H(h)	W	L	S	TMAX	Insert	Screw	Wrench
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

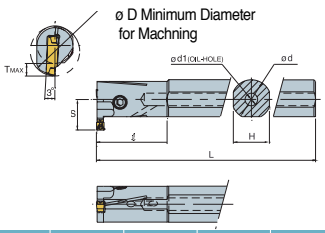
Designation	Stock R	Stock L	H(h)	W	L	S	TMAX	Insert	Screw	Wrench
MGEUR/L2020-3	●		20	20	125	23	3	MRMN300-M	BHA0616	HW 50L
MGEUR/L2525-3	●		25	25	150	28	3			
MGEUR/L3232-3			32	32	170	35	3			
MGEUR/L2020-4	○		20	20	125	23	3	MRMN400-M		
MGEUR/L2525-4	●		25	25	150	28	3			
MGEUR/L3232-4	○		32	32	170	35	3			
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

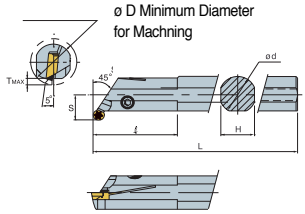
MGIVR/L





MGIUR/L





Designation	Stock R	Stock L	ø D	ød	L	ℓ	TMAX	H	S	Insert	Screw	Wrench
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 MGMN200-M	MHB0310	HW25L
MGIVR/L2520-2	●	●	25	20	150	45	5	18	14.0		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		MHB0512	HW40L
MGIVR/L29252.5	○		29	25	200	45	6	23	18.2			
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	MGMN600-M MGGN600-□□-M MRMN600-M		
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 R	Stock L	ø D	ød	L	ℓ	TMAX	H	S	Insert	Screw	Wrench
MGIUR/L3520-3	○		35	20	150	45	3.5	18	13	MRMN300-M	MHA0512	HW40L
MGIUR/L4025-3	●		40	25	200	45	3.5	23	15.5			
MGIUR/L5032-3			50	32	250	65	3.5	30	19			
MGIUR/L3520-4			35	20	150	45	3.5	18	13	MRMN400-M		
MGIUR/L4025-4	●		40	25	200	45	3.5	23	15.5			
MGIUR/L5032-4	●		50	32	250	65	3.5	30	19			
MGIUR/L4025-5	○		40	25	200	45	3.5	23	15.5	MRMN500-M		
MGIUR/L5032-5	○		50	32	250	65	3.5	30	19			
MGIUR/L4025-6			40	25	200	45	3.5	23	19	MRMN600-M		
MGIUR/L5032-6	○		50	32	250	65	3.5	30	19			
MGIUR/L4025-8			40	25	200	45	6.5	23	15.5	MRMN800-M		
MGIUR/L5032-8	○		50	32	250	65	6.5	30	19			
MGIUR/L4025-6A			40	25	200	45	3.5	23	15.5	MRGN600-A		
MGIUR/L5032-6A			50	32	250	65	3.5	30	19			
MGIUR/L4025-8A			40	25	200	45	5.0	23	18.5	MRGN800-A		
MGIUR/L5032-8A			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
MGMN150-G MGMN200-G MGMN200-M MGMN250-G MGMN250-M	0.05	200	170	170	180	150	150	130	100	100	160	210	
	0.002	660	560	560	595	495	495	430	330	330	530	695	
	0.12	180	150	150	160	130	130	120	90	90	150	180	
	0.005	595	495	495	530	430	430	395	295	295	495	595	
	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	
MGMN300-M MGMN300-G MGGN300-00-M MRMN300-M	0.07	190	160	160	160	130	130	120	90	90	160	200	
	0.003	625	530	530	530	430	430	395	295	295	530	660	
	0.15	170	140	140	140	110	110	100	70	70	140	180	
	0.006	560	460	460	460	365	365	330	230	230	460	595	
	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	
MGMN400-M MGMN400-G MGGN400-00-M MRMN400-M	0.13	200	170	170	180	150	150	130	100	100	160	210	
	0.005	660	560	560	595	495	495	430	330	330	530	695	
	0.25	170	140	140	160	130	130	110	80	80	140	180	
	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	
MGMN500-M MGMN500-G MGGN500-00-M MRMN500-M	0.15-0.20	180	150	150	160	130	130	120	90	90	150	180	
	0.006-0.008	595	495	495	530	430	430	395	295	295	495	595	
	0.30	150	120	120	130	100	100	90	60	60	130	150	
	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	
MGMN600-M MGGN600-00-M MRMN600-M	0.25	190	160	160	160	130	130	100	70	70	160	190	
	0.010	625	530	530	530	430	430	330	230	230	530	625	
	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	
	0.50	120	90	90	80	50	50	50	30	30	80	120	
	0.020	395	295	295	265	165	165	165	100	100	265	395	
MGMN800-M MRMN800-M	0.25	190	160	160	160	130	130	100	70	70	160	190	
	0.010	625	530	530	530	430	430	330	230	230	530	625	
	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	
MRGN600-A	0.10												250-1000
	0.004												825-3300
	0.25												250-800
	0.010												825-2640
	0.40												250-700
	0.016												825-2310
MRGN800-A	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.

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MGT Multi Grooving Tools

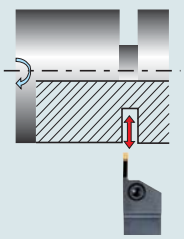
Recommended Grade

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	-	-	-		-	-	-	△		-	-	●

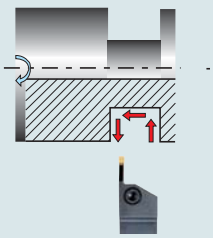
● : Stock △ : Order made

Applications for M.G.T

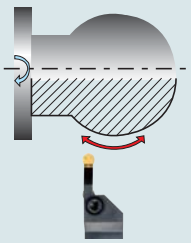
■ External



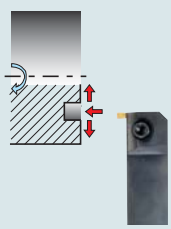
Grooving, Parting



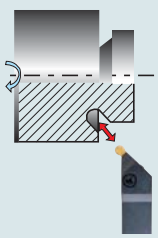
Grooving & Turning



Profiling

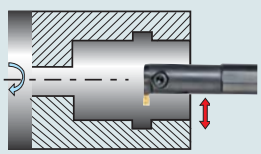


Face Grooving

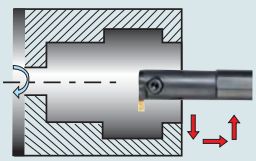


Under Cut

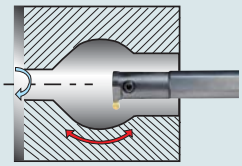
■ Internal



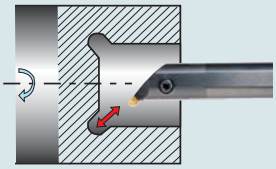
Internal Grooving



Internal Grooving & Turning



Internal Profiling



Internal Under Cut