



Ten Applications ... One System

- | | |
|----------------------|-----------------------|
| 1. External grooving | 6. External under cut |
| 2. Parting off | 7. Internal grooving |
| 3. Side turning | 8. Internal turning |
| 4. Profiling | 9. Internal profiling |
| 5. Face grooving | 10. Internal undercut |

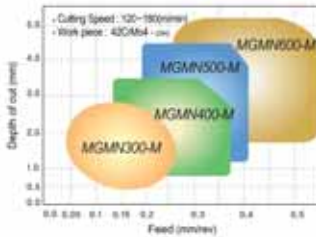


Multi Purpose Inserts

MGMN-M style inserts from 2.0 mm wide to 8 mm wide are multi purpose. You can use them for internal and external machining, grooving, parting and turning.

One Insert ... Multiple Holders

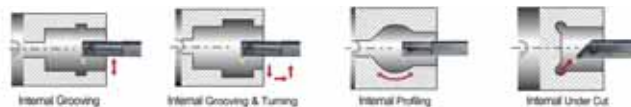
All inserts will fit in multiple holders e.g. a 3 mm wide MGMN or MRMN insert will fit into 3 holders • 3 mm external holders • 3 mm face grooving holders



MGT for External



MGT for Internal



Application Range of MGT Insert

Feed by Cat.No.	Cat.No	Feed (mm/rev)	Recommended cutting speed by Work-piece											
			Carbon Steel			High Hardened Alloy Steel				Hardened Steel		STS	Cast Iron	Al
			NC3120	NC3030	CN20 CT10	NC3120	NC3030 PC230	CN20 CT10	NC3120	NC3030	CN20 CT10	PC3030 PC230	PC215K	H01
MGMN150-G MGMN200-M(G) MRMN250-M(G)	0.05	200	170	170	180	150	150	130	100	100	160	210	-	
	0.12	180	150	150	160	130	130	120	90	90	150	180	-	
	0.2	150	120	120	130	100	100	90	60	60	130	150	-	
MGMN300-M(G) MGMN300-00-M MRMN300-M	0.07	190	160	160	160	130	130	120	90	90	160	200	-	
	0.15	170	140	140	140	110	110	100	70	70	140	180	-	
	0.25	140	110	110	120	90	90	60	40	40	120	150	-	
MGMN400-M(G) MGMN400-00-M MRMN400-M	0.13	200	170	170	180	150	150	130	100	100	160	210	-	
	0.25	170	140	140	160	130	130	110	80	80	140	180	-	
	0.35	120	100	100	130	100	100	70	50	50	120	130	-	
MGMN500-M(G) MGMN500-00-M MRMN500-M	0.15-0.2	180	150	150	160	130	130	120	90	90	150	180	-	
	0.3	150	120	120	130	100	100	70	50	50	120	130	-	
	0.4	120	100	100	100	80	80	60	40	40	100	120	-	
MGMN600-M MGMN600-00-M MRMN600-M	0.25	190	160	160	160	130	130	100	70	70	160	190	-	
	0.35	150	120	120	100	80	80	70	50	50	110	150	-	
	0.5	120	90	90	80	50	50	50	30	30	80	120	-	
MRMN800-M	0.25	190	160	160	160	130	130	100	70	70	160	190	-	
	0.35	150	120	120	100	80	80	70	50	50	110	150	-	
	0.4	120	90	90	80	50	50	50	30	30	80	120	-	
MRGN 300-A 400-A 500-A 600-A	0.1	-	-	-	-	-	-	-	-	-	-	-	250-1000	
	0.25	-	-	-	-	-	-	-	-	-	-	-	250-800	
	0.4	-	-	-	-	-	-	-	-	-	-	-	250-700	
MRGN800-A	0.1	-	-	-	-	-	-	-	-	-	-	-	250-1000	
	0.25	-	-	-	-	-	-	-	-	-	-	-	250-800	
	0.4	-	-	-	-	-	-	-	-	-	-	-	250-700	

* Recommendations written above are subject to change as per machine, work piece, etc.
 * Contact KORLOY for more information.



BRIGHT IDEAS!

Speeds and feeds

Please phone for a technical catalogue ... your tools will last much longer at the optimum cutting conditions





MGT Multi Grooving Insert Selection



PARTING + GROOVING

MGM(G)N-M For grooving, turning

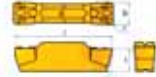


MGM(G)N-M for aluminum machining with carbide grade is available.
Please contact us for more information.

■ USE
Multi purpose

MGMN000 : b = ±0.05 MGGN000 : b = ±0.02

■ Geometry



Available Holder	Designation	2007 £	Coated Carbide						Cermet			Uncoated Carbide			(mm)							
			NC3010	NC3120	NC3030	NC3030	NC305K	NC3010	PC215K	PC3030	PC3230	CT10	CN20	CN100	CN200	H01	G10	ST10	b	r	l	d
MGEHR/L MGEVR/L MGIVR/L	MGMN 200-M	6.67	●															2.0	0.2	16.0	1.2	3.5
	250-M	7.78	●															2.5	0.2	18.5	2.0	3.85
	300-02-M	7.78	●															3.0	0.2	21.0	2.35	4.8
	300-M	7.78	●															3.0	0.4	21.0	2.35	4.8
	350-03-M	8.90	●															3.5	0.3	21.0	2.9	4.8
	400-02-M	8.90	●															4.0	0.0	21.0	3.3	4.8
	400-M	8.90	●	●														4.0	0.4	21.0	3.3	4.8
	500-04-M	9.97	●															5.0	0.4	26.0	4.1	5.8
	500-M	9.97	●															5.0	0.8	26.0	4.1	5.8
	600-M	10.64	●															6.0	0.8	26.0	5.0	5.8
800-M	12.20	●															8.0	0.8	31.0	6.0	6.5	
MGMN	300-02-M	7.78									●							3.0	0.2	21.0	2.35	4.8
	300-04-M	7.78									●							3.0	0.4	21.0	2.35	4.8
	300-08-M	7.78									●							3.0	0.8	21.0	2.35	4.8
	400-02-M	8.90									●							4.0	0.2	21.0	3.3	4.8
	400-04-M	8.90									●							4.0	0.4	21.0	3.3	4.8
	400-08-M	8.90									●							4.0	0.8	21.0	3.3	4.8
	500-02-M	9.97									●							5.0	0.0	26.0	4.1	5.8
	500-04-M	9.97									●							5.0	0.4	26.0	4.1	5.8
	500-08-M	9.97									●							5.0	0.8	26.0	4.1	5.8
	600-02-M	10.64									●							6.0	0.2	26.0	5.0	5.8
600-04-M	10.64									●							6.0	0.4	26.0	5.0	5.8	
600-08-M	10.64									●							6.0	0.8	26.0	5.0	5.8	

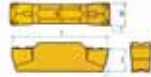
MGMN-G For grooving



■ USE
Grooving

MGMN000 : b = ±0.05

■ Geometry



Available Holder	Designation	2007 £	Coated Carbide						Cermet			Uncoated Carbide			(mm)							
			NC3010	NC3120	NC3030	NC3030	NC305K	NC3010	PC3030	PC3230	CT10	CN20	CN100	CN200	H01	G10	ST10	b	r	l	d	t
MGEHR/L MGEVR/L MGIVR/L	MGMN 150-G	6.67	●															1.5	0.15	16.0	1.2	3.5
	200-G	6.67	●															2.0	0.2	16.0	1.6	3.5
	250-G	7.78	●															2.5	0.2	18.5	2.0	3.85
	300-G	7.78																3.0	0.4	21.0	2.35	4.8
	400-G	8.90																4.0	0.4	21.0	3.3	4.8
	500-G	9.97																5.0	0.8	26.0	4.1	5.8
	600-G	10.64																6.0	0.8	26.0	5.0	5.8

For grades please see the Turning section

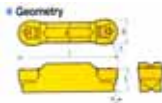


PARTING + GROOVING M.G.T. Multi Grooving Inserts

MRMN-M For Grooving, Copying



USE
Grooving
Copying



MRMN000 : b = a ± 0.05

Available Holder	Designation	2007 £	Coated Carbide						Cermet			Uncoated Carbide			(mm)							
			NC3010	NC3120	NC3030	NC3030	NC309K	NC3010	NC3010	PC3030	PC3030	CT10	CM20	CM100	CM200	H01	G10	ST10	b	r	l	d
MGEHR/L	MRMN 200-M	6.57	●	●	●													2.0	1.0	16.0	1.50	3.5
MGEHR/L	300-M	7.78	●	●	●													3.0	1.5	21.0	2.35	4.8
MGIVR/L	400-M	8.90	●	●	●													4.0	2.0	21.0	3.3	4.8
MGIVR/L	500-M	9.97	●	●	●													5.0	2.5	26.0	4.1	5.8
	600-M	10.64	●	●	●													6.0	3.0	26.0	5.0	5.8
	800-M	12.20	●	●	●													8.0	4.0	31.0	6.0	6.5

PARTING + GROOVING

Coming soon ...

MGMR Parting Off inserts for MGEHR/L toolholders

- Right hand
- Left hand

Please phone for more details



NEW

PARTING + GROOVING M.G.T. Multi Grooving Inserts

BRIGHT IDEAS!
Are you paying over the odds for your consignment stock?
E.mail or fax your tool list to us for a price comparison and see if we can save you around 30%

why not visit our website?
www.cutwel.com
E.Mail sales@cutwel.net



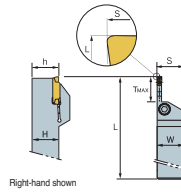
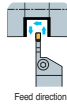


MGT Multi Grooving External Machining Holders



PARTING + GROOVING

MGEHR/L



Ref	Holder Style	Application						Available Inserts	Parts	
Comment		External Grooving, Turning & Parting								
Designation	2007 S	H(h)	W	L	S	T _{max}				
							(mm)			
MGEHR/L	1616-1.5	45.00	16	16	100	16.25	14.5			
	2020-1.5	45.00	20	20	125	20.25	14.5			
	2525-1.5	45.00	25	25	150	25.25	14.5			
	1212-2	45.00	12	12	100	14.25	14.5			
	1616-2	45.00	16	16	100	16.25	14.5		BHA0616	HW50L
	2020-2	45.00	20	20	125	20.25	14.5			
	2525-2	45.00	25	25	150	25.25	14.5			
	1616-2.5	45.00	16	16	100	16.30	16.5		MHA0512	HW40L
	2020-2.5	45.00	20	20	125	20.30	16.5			
	2525-2.5	45.00	25	25	150	25.30	16.5			
	1616-3	45.00	16	16	100	16.35	18.5	 	BHA0616	HW50L
	2020-3	45.00	20	20	125	20.4	18			
	2020-3-T10	45.00	20	20	125	20.4	10			
	2525-3	45.00	25	25	150	25.4	18			
	2525-3-T10	45.00	25	25	150	25.4	10			
	3232-3	55.00	32	32	170	32.4	18			
	3232-3-T10	55.00	32	32	170	32.4	10			
	2020-4	45.00	20	20	125	20.4	18			
	2020-4-T10	45.00	20	20	125	20.4	10			
	2525-4	45.00	25	25	150	25.4	18			
	2525-4-T10	45.00	25	25	150	25.4	10			
	3232-4	55.00	32	32	170	32.4	18	 	BHA0616	HW50L
	3232-4-T10	55.00	32	32	170	32.4	10			
	2020-5	45.00	20	20	150	20.5	23	 	BHA0616	HW50L
	2020-5-T15	45.00	20	20	150	20.5	15			
	2525-5	45.00	25	25	150	25.5	23			
	2525-5-T15	45.00	25	25	150	25.5	15			
	3232-5	55.00	32	32	170	32.5	23			
	3232-5-T15	55.00	32	32	170	32.5	15			
	2020-6	45.00	20	20	125	20.6	23	 	BHA0616	HW50L
	2020-6-T15	45.00	20	20	125	20.6	15			
	2525-6	45.00	25	25	150	25.6	23			
	2525-6-T15	45.00	25	25	150	25.6	15			
	3232-6	55.00	32	32	170	32.6	23		BHA0616	HW50L
	3232-6-T15	55.00	32	32	170	32.6	15			
	2525-8	45.00	25	25	150	25.1	28			
	2525-8-T15	45.00	25	25	150	25.1	15			
	3232-8	55.00	32	32	170	33.1	28			
	3232-8-T15	55.00	32	32	170	33.1	16			

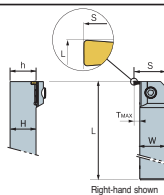
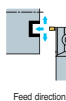
For inserts see pages 172 to 173

Note: T10 and T15 holders are stock (Korea)



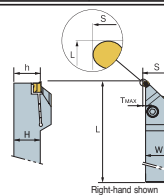
PARTING + GROOVING M.G.T. Multi Grooving

MGEVR/L



Ref	Holder Style	Application						Available Inserts	Parts	
Comment		Facial grooving, Turning								
		(mm)								
Designation	2007 £	H(h)	W	L	S	T _{max}		Screw	Wrench	
MGEVR.L 2020-1.5	45.00	20	20	125	23	3	MGMN150-G	BHA0616	HW 50L	
2525-1.5	45.00	25	25	150	28	3				
3232-1.5	49.00	32	32	170	35	3				
2020-2	45.00	20	20	125	23.5	3.5	MGMN200-M MGMN200-G			
2525-2	45.00	25	25	150	28.5	3.5				
3232-2	49.00	32	32	170	35.5	3.5				
2020-2.5	45.00	20	20	125	24	4	MGMN250-M MGMN250-G			
2525-2.5	45.00	25	25	150	29	4				
3232-2.5	49.00	32	32	170	36	4				
2020-3	45.00	20	20	125	25.5	5	MGMN300-M MGGN300-□□-M MRMN300-M			
2525-3	45.00	25	25	150	30.5	5				
3232-3	49.00	32	32	170	37.5	5				
2020-4	45.00	20	20	125	25.5	5	MGMN400-M MGGN400-□□-M MRMN400-M			
2525-4	45.00	25	25	150	30.5	5				
3232-4	49.00	32	32	170	37.5	5				
2020-5	45.00	20	20	125	27	7	MGMN500-M MGGN500-□□-M MRMN500-M			
2525-5	45.00	25	25	150	32	7				
3232-5	49.00	32	32	170	39	7				
2020-6	45.00	20	20	125	27	7	MGMN600-M MGGN600-□□-M MRMN600-M			
2525-6	45.00	25	25	150	32	7				
3232-6	49.00	32	32	170	39	7				

MGEUR/L External Relief Grooving



Ref	Holder Style	Application						Available Inserts	Parts	
Comment		External Relief Grooving								
		(mm)								
Designation	2007 £	H(h)	W	L	S	T _{max}		Screw	Wrench	
MGEUR.L 2020-3	45.00	20	20	125	23	3	MRMN300-M	BHA0616	HW 50L	
2525-3	45.00	25	25	150	28	3				
3232-3	49.00	32	32	170	35	3				
2020-4	45.00	20	20	125	23	3	MRMN400-M			
2525-4	45.00	25	25	150	28	3				
3232-4	49.00	32	32	170	35	3				

For inserts see pages 172 to 173



MGT Multi Grooving Internal Machining Holders

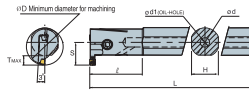


PARTING + GROOVING

MGIVR/L



Feed direction



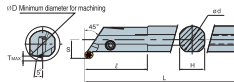
Right-hand shown

Ref	Holder Style	Application							Available Inserts	Parts		
Comment		Internal Grooving, Turning										
(mm)												
Designation	2007 £	oD	oD	L	ℓ	T _{max}	H	S		Screw	Wrench	
MGIVR/L	2016-1.5	49.00	20	16	125	35	4	15	11.3	MGMN150-G	MHB0310	HW25L
	2520-1.5	49.00	25	20	150	45	4	18	13.1		MHA0512	HW40L
	2925-1.5	59.00	29	25	200	45	4	23	16.2		MHB0310	HW25L
	2016-2	49.00	20	16	125	35	5	15	12.4	MGMN200-G	MHB0310	HW25L
	2520-2	49.00	25	20	150	45	5	18	14.0	MGMN200-M	MHA0512	HW40L
	2925-2	59.00	29	25	200	45	5	23	17.2			
	2016-2.5	49.00	20	16	125	35	6	15	12.5	MGMN250-G	MHB0310	HW25L
	2520-2.5	49.00	25	20	150	45	6	18	15.1	MGMN250-M	MHA0512	HW40L
	2925-2.5	59.00	29	25	200	45	6	23	18.2			
	2520-3	49.00	25	20	150	45	6	18	15.6	MGMN300-M		
	3125-3	59.00	31	25	200	45	6	23	18.9	MGGN300-DD-M		
	3732-3	69.00	37	32	250	65	6	30	21.5	MFRMN300-M		
	2520-4	49.00	25	20	150	45	6	18	15.6	MGMN400-M		
	3125-4	59.00	31	25	200	45	6	23	18.9	MGGN400-DD-M		
	3732-4	69.00	37	32	250	65	6	30	21.5	MFRMN400-M		
	3125-5	59.00	31	25	200	45	8	23	19.4	MGMN500-M	MHA0512	HW40L
	3732-5	69.00	37	32	250	65	8	30	21.5	MFRMN500-M		
	3125-6	59.00	31	25	200	45	8	23	19.4	MGMN600-M		
	3732-6	69.00	37	32	250	65	8	30	21.5	MGGN600-DD-M		
										MFRMN600-M		
	3732-8	69.00	37	32	250	65	10	30	23.4			
	4540-8	95.00	45	40	300	70	10	37	27.2	MFRMN800-M		

MGJUR/L



Feed direction



Right-hand shown

Ref	Holder Style	Application							Available Inserts	Parts		
Comment		Internal Relief Grooving										
(mm)												
Designation	2007 £	oD	oD	L	ℓ	T _{max}	H	S		Screw	Wrench	
MGJUR/L	3520-3	45.00	35	20	150	45	3.5	18	13	MFRMN300-M	MHA0512	HW 40L
	4025-3	49.00	40	25	200	45	3.5	23	15.5			
	5032-3	69.00	50	32	250	65	3.5	30	19			
	3520-4	45.00	35	20	150	45	3.5	18	13	MFRMN400-M		
	4025-4	49.00	40	25	200	45	3.5	23	15.5			
	5032-4	69.00	50	32	250	65	3.5	30	19			

For inserts see pages 172 to 173

PARTING + GROOVING M.G.T. Multi Grooving