# GYSeries GY Mono Block Grooving Revolution



### **INSERT**

# A WIDE SELECTION OF INSERTS

Breaker system



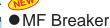
Selection of groove widths

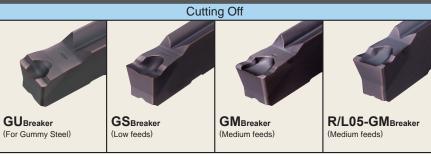


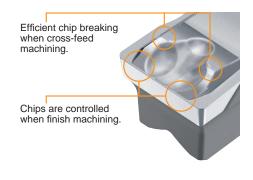
Different corner radii available



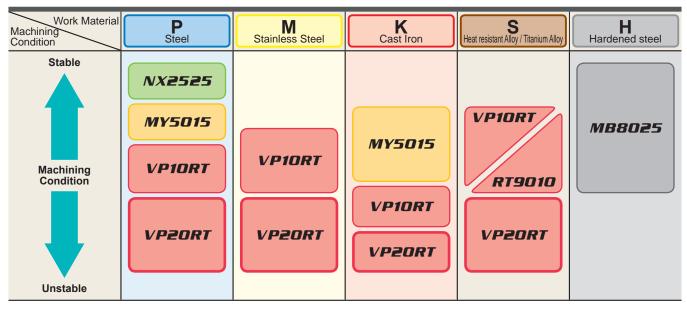






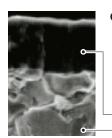


# INSERT GRADE



Note1) VP20RT is the first recommended grade for materials other than hardened steel. Note2) For VP10RT, VP20RT and MY5015, wet cutting is recommended.

### **VP20RT** (1st Recommendation)

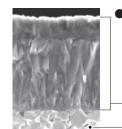


PVD coated grade suitable for a wide range of applications. The combination of a special tough cemented carbide substrate with MIRACLE coating provides an excellent balance of wear and fracture resistance.

MIRACLE Coating

Carbide substrate (HRA90.5)

### MY5015

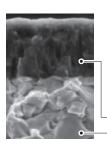


MY5015 is a CVD coated grade with excellent wear resistance even at high temperatures. It provides longer tool life when machining cast and ductile cast irons. Also suitable for high speed continuous cutting of steels.

**CVD Coated Carbide** 

Carbide substrate

### **VP10RT** (2nd Recommendation)



PVD coated grade with a cemented carbide substrate harder than VP20RT. For use on difficult to cut materials and for extending tool life.

MIRACLE Coating Carbide substrate (HRA92.0)

### RT9010

• First recommended grade for titanium alloys. It is not recommended for use on non-ferrous alloys.

### NX2525

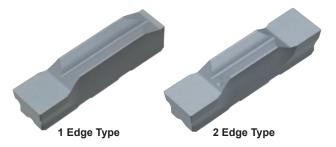
● NX2525, a cermet grade for finish machining of steels and for good surface finishes at lower cutting speeds.

### MB8025

MB8025 is a sintered CBN grade for hardened steel.

# BLANK INSERTS

Blank inserts for custom grinding



\* Blank inserts to be ground by customers.

### RT9010/RT9020 for blank insert

● First recommendation for blanks inserts is RT9020 due to the tougher carbide substrate that is suitable for a wider range of applications.

RT9010 has a harder substrate than RT9020 and is ideal for longer

tool life on stable cutting applications.
Both grades are recommended to have a coating applied that is suitable for the required application.

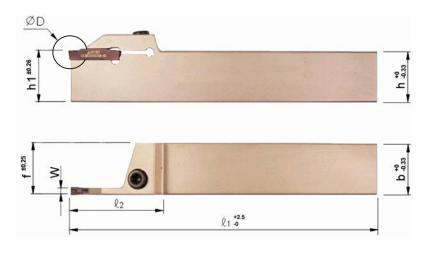
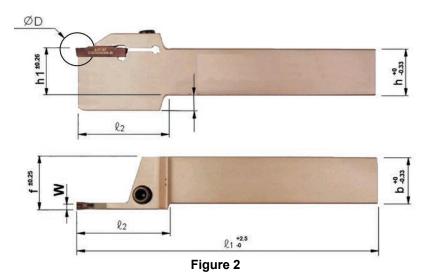


Figure 1

### Right Hand Tool Holder Shown

Short Series (Groove & Turn)													
Insert Width W (mm)	Max. Groove Depth ØD (mm)	Order Number	Insert Number			Di							
				h	b	L <sub>1</sub>	l <sub>2</sub>	h1	f	s1	fig	Clamp Screw	Wrench
	12	Z-GYHR2020K00-W20D12	- GY2M0200D***N-**	20	20	125	35	20	20.15	-	1	SR-M5X30	L4
		Z-GYHR2525M00-W20D12		25	25	150	35	25	25.15	-	1		
2.00		Z-GYHL2020K00-W20D12		20	20	125	35	20	20.15	-	1		
		Z-GYHL2525M00-W20D12		25	25	150	35	25	25.15	-	1		
	12	Z-GYHR2020K00-W30D12		20	20	125	35	20	20.15	-	1		
		Z-GYHR2525M00-W30D12		25	25	150	35	25	25.15	-	1		
3.00		Z-GYHL2020K00-W30D12		20	20	125	35	20	20.15	-	1		
		Z-GYHL2525M00-W30D12		25	25	150	35	25	25.15	-	1		
	16	Z-GYHR2020K00-W40D16	- GY2M0400G***N-**	20	20	125	40	20	20.25	-	1		
4.00		Z-GYHR2525M00-W40D16		25	25	150	40	25	25.25	-	1		
		Z-GYHL2020K00-W40D16		20	20	125	40	20	20.25	-	1		
		Z-GYHL2525M00-W40D16		25	25	150	40	25	25.25	-	1		
5.00	16	Z-GYHR2020K00-W50D16	- GY2M0500H***N-**	20	20	125	40	20	20.25	-	1		
		Z-GYHR2525M00-W50D16		25	25	150	40	25	25.25	-	1		
		Z-GYHL2020K00-W50D16		20	20	125	40	20	20.25	-	1		
		Z-GYHL2525M00-W50D16		25	25	150	40	25	25.25	-	1		



Right Hand Tool Holder Shown

Long Series (Cut-off & Groove only)													
Insert	Max. Groove	Order Number Insert Number				Di							
Width W (mm)	Depth ØD (mm)		h	b	l <sub>1</sub>	l <sub>2</sub>	h1	f	s1	fig	Clamp Screw	Wrench	
2.00	36*	Z-GYHR2020K00-W20D36	- GY2M0200D***N-**	20	20	125	39	20	20.15	1	1	SR-M5X30	L4
		Z-GYHL2020K00-W20D36		20	20	125	39	20	25.15	-	1		
2.00	40*	Z-GYHR2525M00-W20D40		25	25	150	41	25	25.15	-	1		
		Z-GYHL2525M00-W20D40		25	25	150	41	25	25.15	-	1		
3.00	36*	Z-GYHR2020K00-W30D36	GY2M0300F***N-**	20	20	125	39	20	20.25	-	1		
		Z-GYHL2020K00-W30D36		20	20	125	39	20	20.25	-	1		
3.00	40	Z-GYHR2525M00-W30D40		25	25	150	39.5	25	25.25	-	1		
		Z-GYHL2525M00-W30D40		25	25	150	39.5	25	25.25	-	1		
4.00	50	Z-GYHR2020K00-W40D50	GY2M0400G***N-**	20	20	125	44.5	20	20.25	-	1		
		Z-GYHR2525M00-W40D50		25	25	150	44.5	25	25.25	-	1		
		Z-GYHL2020K00-W40D50		20	20	125	44.5	20	20.25	-	1		
		Z-GYHL2525M00-W40D50		25	25	150	44.5	25	25.25	-	1		
5.00	50	Z-GYHR2020K00-W50D50	GY2M0500H***N-**	20	20	125	44.5	20	20.25	-	1		
		Z-GYHR2525M00-W50D50		25	25	150	44.5	25	25.25	-	1		
		Z-GYHL2020K00-W50D50		20	20	125	44.5	20	20.25	-	1		
		Z-GYHL2525M00-W50D50		25	25	150	44.5	25	25.25	-	1		
8.00	50	Z-GYPR2525M00-K50	GY2M0800K***N-**	25	25	150	47	25	28	7	2	SR-M6X30	
		Z-GYPR3225P00-K50		32	25	170	47	32	28	-	1		
		Z-GYPR3232P00-K50		32	32	170	47	32	35	-	1		
		Z-GYPL2525M00-K50		25	25	150	47	25	28	7	2		
		Z-GYPL3225P00-K50		32	25	170	47	32	28	-	1		
		Z-GYPL3232P00-K50		32	32	170	47	32	35	-	1		
		!	,										

Note: "\*" indicated latest updated.

## MMC Hardmetal (Thailand) Co., Ltd. A Subsidiary of <sup>▲</sup> MITSUBISHI MATERIALS

MMC Hardmetal (Thailand) Co., Ltd. 622 Emporium Tower, Floor 22/1-4, Sukhumvit Road, Klongton, Klongtoey, Bangkok 10110 Thailand Tel. +66-2661-8170 Fax. +66-2258-1790

Thailand Rayong Branch 789/283 m.1 Lifespace Building Floor. 4 Room no. B405 Nong Kham, Sriracha, Chonburi 20230 Thailand

Singapore Branch 33 Ubi Avenue3, #05-14 Vertex, Singapore

408868 Tel: +65-6634-8250 Fax: +65-6634.8257

Indonesia Representative Office

MM2100 Industrial Town
JJ. Jawa Blok GG-6 No.2 Jatiwangi, Cikarang,
Bekasi Indonesia 17520
Tel:+62-21-2214-3639

Fax:+62-21-2214-3772-8362

Hanoi Representative Office
403A, 4th Fl. of The 6-Storey Block, Thang Long
Ford Building, 105 Lang Ha St., Dong Da District,
Hanoi, Vietnam
Tel:+84-24-3772-8362

Tel:+84-24-3772-8369

Ho Chi Minh Representative Office

1205 12th Floor SROC, 2A-4A Ton Duc Thang, Ben Nghe, Dist. 1, Ho Chi Minh City, Vietnam Tel: +84-28-3829-7700 Fax: +84-28-3824-3344

Thailand Amata City Branch Amata Nakorn Industrial Estate Phase 9 700/843 Moo 5,Tambon Nongkakha, Amphur Phanthong, Chonburi, 20160 Thailand Tel: +66-3821-0728 Fax: +66-3821-0732

For Your Safety

•Don't handle inserts and chips without gloves. •Please machine within the recommended application range and exchange expired tools with new ones in advance of breakage. •Please use safety covers and wear safety glasses. •When using compounded cutting oils, please take fire precautions. •When attaching inserts or spare parts, please use only the correct wrench or spanner.

Please contact our local distributor