

Grooving System

GY Series PSC Holder

New
Products

High-rigidity, High-precision Machining

Easy exchange between different sizes and types of application by simply changing the blade.



Grooving System

GY Series PSC Holder

Modular blades from the GY series are easily mounted. Providing a wide range of machining choices.

Coolant Nozzles with Adjustable Angles

Coolant nozzles mounted on the main body can be adjusted to any desired angle (approx. $\pm 10^\circ$) to supply cutting fluid to the cutting edges efficiently and accurately.

Recommended Maximum
Coolant Pressure: 1MPa

Over 100 Types of Modular Blades

External, face and recess machining blades can be used for machining a huge range of applications.



PSC System

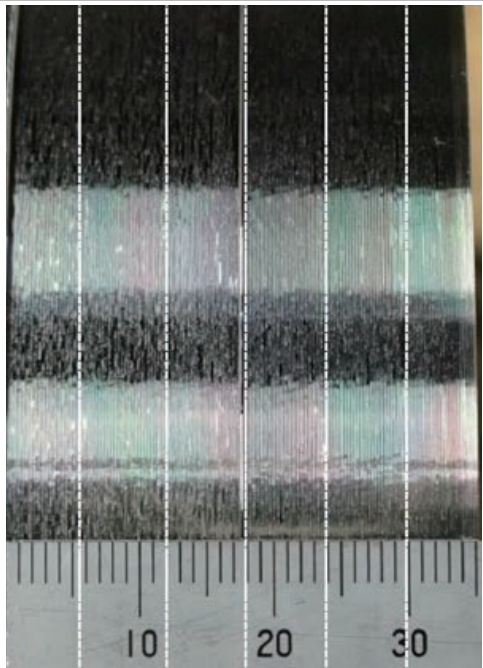
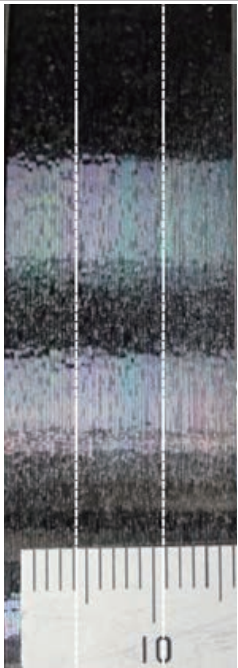
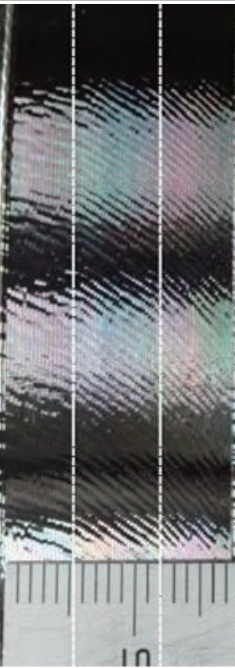
The double taper and face contact uses the precision machined polygon geometry to provide high clamping rigidity. In addition it provides accuracy and easy positional repeatability when tool changing.

Installation size DCONMS
PSC40, PSC50, PSC63

Cutting Performance

Comparison of Finished Surfaces when Cross-feed Machining of S45C Carbon Steel

The GY series uses modular blades with short overhang which exhibit excellent rigidity, especially during cross-feed machining.

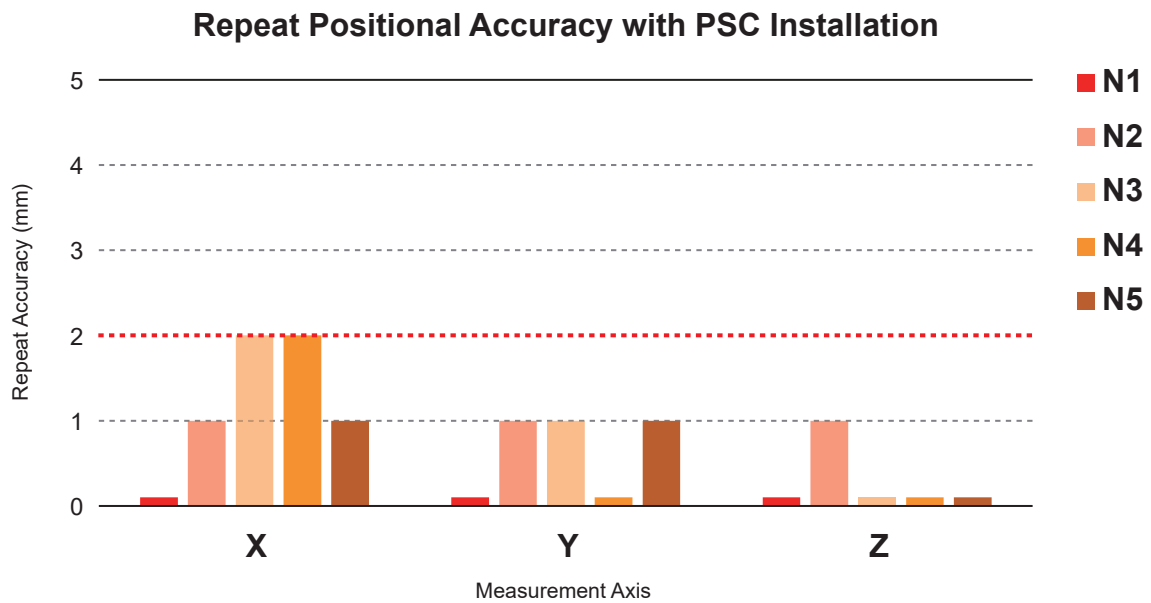
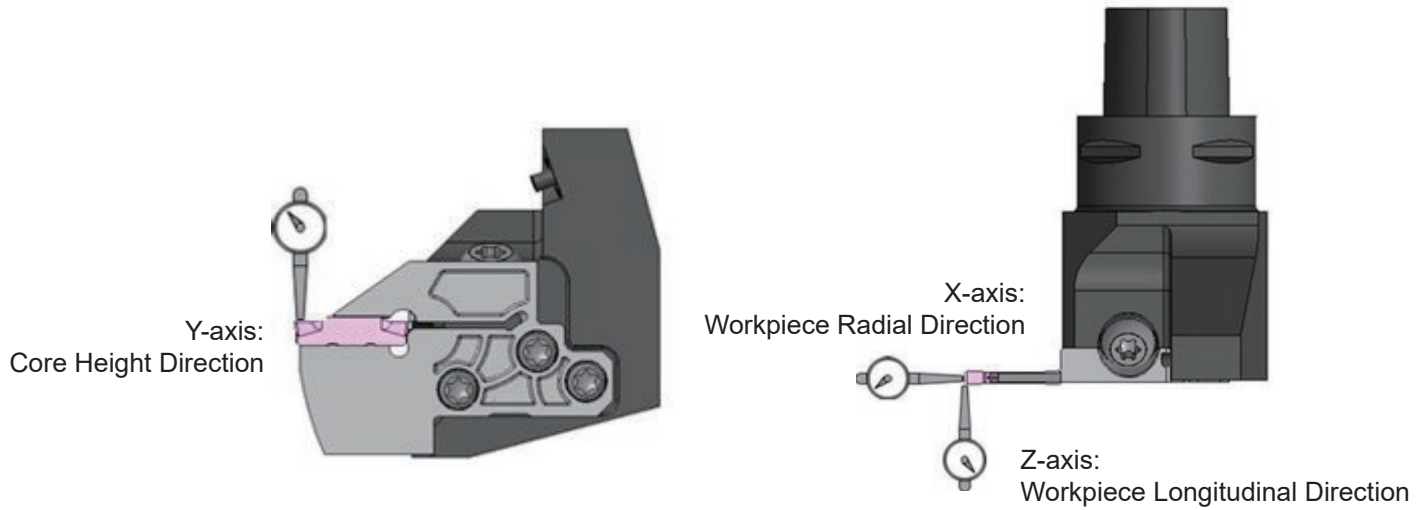
	GY PSC						GY PSC			Conventional		
	Max.Groove Depth 6mm						Max.Groove Depth 12mm			Max.Groove Depth 20mm		
Depth of Cut mm	1.0			1.5			1.0			1.0		
Feed mm/rev	0.30	0.25	0.20	0.30	0.25	0.20	0.30	0.25	0.20	0.30	0.25	0.20
Machined Surface												
Finished Surface Evaluation	OK	OK	OK	OK	OK	OK	OK	OK	OK	NG	NG	NG
Machining Sound	OK	OK	OK	OK	OK	OK	OK	OK	OK	NG	NG	NG

NG - Displays chatter and vibration

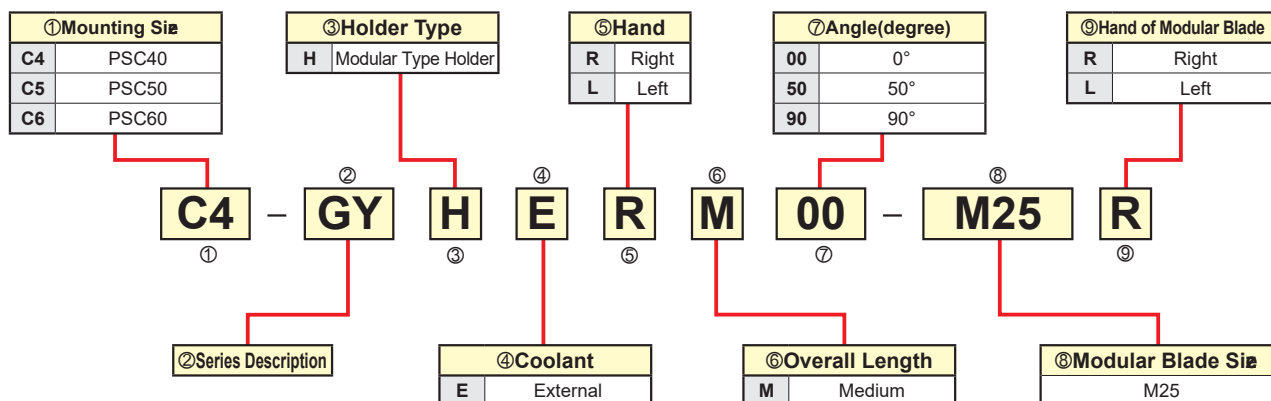
<Cutting Conditions>
 Workpiece Material : JIS S45C ø150mm
 Cutting Width : 3mm
 Cutting Speed : $v_c = 180\text{ m/min}$
 Cutting Mode : Cross-feed Machining
 External Coolant 1 Mpa

Repeat Positional Accuracy with PSC Installation

Accuracy of $\pm 2\mu\text{m}$ or less for all 3 axes is achieved when replacing tools.



PSC Holder Order Number



GY Series L Dimension Tolerance Conversion Table

The setting dimensions LF and LH shown on the next pages will change depending on the installed insert.
The standard published dimensions assume GM breakers for a cutting edge angle of 00 °90°, and BM breakers for 50°.

Cutting Width CW (mm)	*1 Dimensions L (mm)	*2 Dimensional tolerance (mm) versus standard dimension (L) of each breaker							
		GU	GS/GM	MS/MM	R/L-GM	Flat Top	MF	BM	GL
2.00	20.70	0	0	0	0.10	0	0.35	0.20	0.35
2.24	*3 (20.7)						0.35		
2.39	20.70	0	0			0	0.35		
2.50	20.70	0	0	0	0.125	0	0.35	0.20	0.35
2.74	*3 (20.7)						0.35		
3.00	20.70	0	0	0	0.15	0	0.35	0.20	0.35
3.18	20.70	0	0			0	0.35	0.20	
3.24	*3 (20.7)						0.35		
4.00	25.65	0	0	0	0.20	0	0.30	0.15	
4.24	*3 (25.65)						0.30		
4.75	25.65	0	0			0	0.30	0.15	
5.00	25.65	0	0	0	0.30	0	0.30	0.15	
5.24	*3 (25.65)						0.30		
6.00	25.65	0	0	0		0	0.30	0.25	
6.31	*3 (25.65)						0.30		
6.35	25.65	0	0				0.30	0.25	

*1 This value is used at the described holder dimension.

*2 when there is no applicable breaker.

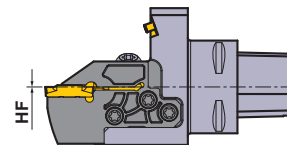
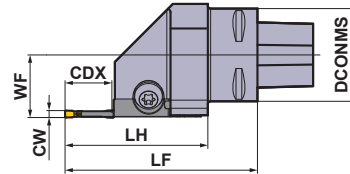
*3 The standard dimensions shown here use an approximate insert width.

GY SERIES (EXTERNAL)

PSC 00° type holder

Note 1) Please order the modular blade and modular holder separately.

Note 2) Please set the right hand modular blade at the right hand holder and the left hand modular blade at the left hand holder.



Right hand tool holder shown.

Order Number	Stock	Hand (R/L)	Coolant	Mounting Size	DCONMS	CW
C4-GYHERM00-M25R	●	R	External	PSC40	40	2.0—6.35
C4-GYHELM00-M25L	●	L	External	PSC40	40	2.0—6.35
C5-GYHERM00-M25R	●	R	External	PSC50	50	2.0—6.35
C5-GYHELM00-M25L	●	L	External	PSC50	50	2.0—6.35
C6-GYHERM00-M25R	●	R	External	PSC60	60	2.0—6.35
C6-GYHELM00-M25L	●	L	External	PSC60	60	2.0—6.35

(mm)

Set Dimensions with Modular Blades

Holder Type	Modular Blade Type	Standard CW	CDX	WF	HF	LF	LH
C4-GYHER/LM00-M25R/L	GYM25R/L○-D06	2.0	6	27.0	0	69	47.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-D12	2.0	12	27.0	0	77	55.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-D20	2.0	20	27.0	0	83	61.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-E06	2.5	6	27.0	0	69	47.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-E12	2.5	12	27.0	0	77	55.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-E20	2.5	20	27.0	0	83	61.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-F06	3.0	6	27.0	0	69	47.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-F12	3.0	12	27.0	0	77	55.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-F20	3.0	20	27.0	0	83	61.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-G08	4.0	8	27.0	0	71	49.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-G14	4.0	14	27.0	0	77	55.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-G25	4.0	25	27.0	0	88	66.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-H08	5.0	8	27.0	0	71	49.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-H14	5.0	14	27.0	0	77	55.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-H25	5.0	25	27.0	0	88	66.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-J08	6.0	8	27.0	0	71	49.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-J14	6.0	14	27.0	0	77	55.6
C4-GYHER/LM00-M25R/L	GYM25R/L○-J25	6.0	25	27.0	0	88	66.6

*Modular blade type: Blades for face machining indicate a code for the minimum face grooving diameter. Example) GYM25RD-D12-040

The "○" symbol is a position to insert the letter "A" for external diameter machining or "D" for face machining.

To select modular blades, refer to the Modular Blade List (starting from pg.11).

Note 1) The indicated dimensions are values for standard inserts (GM breakers). If other inserts are mounted, LF and LH may differ. Select the inserts and recommended conditions from "TOOL NEWS B255J-G GYGW Inserts". Links to PDF data are provided at the end of the document using QR codes.

(mm)

Holder Type	Modular Blade Type	Standard CW	CDX	WF	HF	LF	LH
C5-GYHER/LM00-M25R/L	GYM25R/L-D06	2.0	6	35.0	0	69	47.6
C5-GYHER/LM00-M25R/L	GYM25R/L-D12	2.0	12	35.0	0	77	55.6
C5-GYHER/LM00-M25R/L	GYM25R/L-D20	2.0	20	35.0	0	83	61.6
C5-GYHER/LM00-M25R/L	GYM25R/L-E06	2.5	6	35.0	0	69	47.6
C5-GYHER/LM00-M25R/L	GYM25R/L-E12	2.5	12	35.0	0	77	55.6
C5-GYHER/LM00-M25R/L	GYM25R/L-E20	2.5	20	35.0	0	83	61.6
C5-GYHER/LM00-M25R/L	GYM25R/L-F06	3.0	6	35.0	0	69	47.6
C5-GYHER/LM00-M25R/L	GYM25R/L-F12	3.0	12	35.0	0	77	55.6
C5-GYHER/LM00-M25R/L	GYM25R/L-F20	3.0	20	35.0	0	83	61.6
C5-GYHER/LM00-M25R/L	GYM25R/L-G08	4.0	8	35.0	0	71	49.6
C5-GYHER/LM00-M25R/L	GYM25R/L-G14	4.0	14	35.0	0	77	55.6
C5-GYHER/LM00-M25R/L	GYM25R/L-G25	4.0	25	35.0	0	88	66.6
C5-GYHER/LM00-M25R/L	GYM25R/L-H08	5.0	8	35.0	0	71	49.6
C5-GYHER/LM00-M25R/L	GYM25R/L-H14	5.0	14	35.0	0	77	55.6
C5-GYHER/LM00-M25R/L	GYM25R/L-H25	5.0	25	35.0	0	88	66.6
C5-GYHER/LM00-M25R/L	GYM25R/L-J08	6.0	8	35.0	0	71	49.6
C5-GYHER/LM00-M25R/L	GYM25R/L-J14	6.0	14	35.0	0	77	55.6
C5-GYHER/LM00-M25R/L	GYM25R/L-J25	6.0	25	35.0	0	88	66.6
C6-GYHER/LM00-M25R/L	GYM25R/L-D06	2.0	6	45.0	0	71	47.6
C6-GYHER/LM00-M25R/L	GYM25R/L-D12	2.0	12	45.0	0	79	55.6
C6-GYHER/LM00-M25R/L	GYM25R/L-D20	2.0	20	45.0	0	85	61.6
C6-GYHER/LM00-M25R/L	GYM25R/L-E06	2.5	6	45.0	0	71	47.6
C6-GYHER/LM00-M25R/L	GYM25R/L-E12	2.5	12	45.0	0	79	55.6
C6-GYHER/LM00-M25R/L	GYM25R/L-E20	2.5	20	45.0	0	85	61.6
C6-GYHER/LM00-M25R/L	GYM25R/L-F06	3.0	6	45.0	0	71	47.6
C6-GYHER/LM00-M25R/L	GYM25R/L-F12	3.0	12	45.0	0	79	55.6
C6-GYHER/LM00-M25R/L	GYM25R/L-F20	3.0	20	45.0	0	85	61.6
C6-GYHER/LM00-M25R/L	GYM25R/L-G08	4.0	8	45.0	0	73	49.6
C6-GYHER/LM00-M25R/L	GYM25R/L-G14	4.0	14	45.0	0	79	55.6
C6-GYHER/LM00-M25R/L	GYM25R/L-G25	4.0	25	45.0	0	90	66.6
C6-GYHER/LM00-M25R/L	GYM25R/L-H08	5.0	8	45.0	0	73	49.6
C6-GYHER/LM00-M25R/L	GYM25R/L-H14	5.0	14	45.0	0	79	55.6
C6-GYHER/LM00-M25R/L	GYM25R/L-H25	5.0	25	45.0	0	90	66.6
C6-GYHER/LM00-M25R/L	GYM25R/L-J08	6.0	8	45.0	0	73	49.6
C6-GYHER/LM00-M25R/L	GYM25R/L-J14	6.0	14	45.0	0	79	55.6
C6-GYHER/LM00-M25R/L	GYM25R/L-J25	6.0	25	45.0	0	90	66.6

*Modular blade type: Blades for face machining indicate a code for the minimum face grooving diameter. Example) GYM25RD-D12-040

The "" symbol is a position to insert the letter "A" for external diameter machining or "D" for face machining.

To select modular blades, refer to the Modular Blade List (starting from pg.11).

Note 1) The indicated dimensions are values for standard inserts (GM breakers). If other inserts are mounted, LF and LH may differ. Select the inserts and recommended conditions from "TOOL NEWS B255J-G GYGW Inserts". Links to PDF data are provided at the end of the document using QR codes.

Spare Parts

Clamp Screw		Blade Screw		Plug		Nozzle		Wrench 1		Wrench 2	
Order Number	Pcs.	Order Number	Pcs.	Order Number	Pcs.	Order Number	Pcs.	Order Number		Order Number	
GY06013M	1	TS55	5	HSD05004S	1	NZ22042080S	1	TKY25D		TKY30R	

* Clamp Torque (N · m) : GY06013M=6.0, TS55=5.0

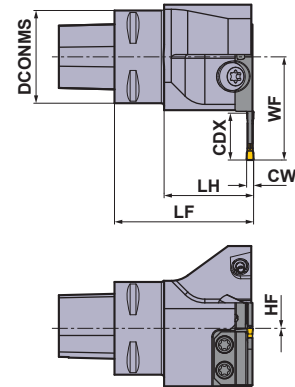
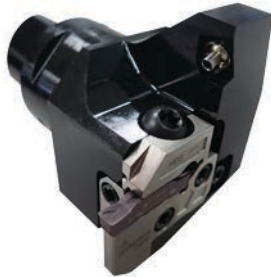
Nozzle Exchange Key : NZKH050S

GY SERIES (EXTERNAL)

PSC 90° type holder

Note 1) Please order the modular blade and modular holder separately.

Note 2) Please set the left hand modular blade at the right hand holder and the right hand modular blade at the left hand holder.



Left hand tool holder shown.

Order Number	Stock	Hand (R/L)	Coolant	Mounting Size	DCONMS	CW
C4-GYHERM90-M25L	●	R	External	PSC40	40	2.0—6.35
C4-GYHELM90-M25R	●	L	External	PSC40	40	2.0—6.35
C5-GYHERM90-M25L	●	R	External	PSC50	50	2.0—6.35
C5-GYHELM90-M25R	●	L	External	PSC50	50	2.0—6.35
C6-GYHERM90-M25L	●	R	External	PSC60	60	2.0—6.35
C6-GYHELM90-M25R	●	L	External	PSC60	60	2.0—6.35

(mm)

Set Dimensions with Modular Blades

Holder Type	Modular Blade Type	Standard CW	CDX	WF	HF	LF	LH
C4-GYHER/LM90-M25L/R	GYM25L/R-D06	2.0	6	30.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-D12	2.0	12	38.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-D20	2.0	20	44.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-E06	2.5	6	30.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-E12	2.5	12	38.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-E20	2.5	20	44.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-F06	3.0	6	30.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-F12	3.0	12	38.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-F20	3.0	20	44.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-G08	4.0	8	32.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-G14	4.0	14	38.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-G25	4.0	25	49.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-H08	5.0	8	32.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-H14	5.0	14	38.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-H25	5.0	25	49.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-J08	6.0	8	32.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-J14	6.0	14	38.5	0	60	38.6
C4-GYHER/LM90-M25L/R	GYM25L/R-J25	6.0	25	49.5	0	60	38.6

*Modular blade type: Blades for face machining indicate a code for the minimum face grooving diameter. Example) GYM25RD-D12-040

The "○" symbol is a position to insert the letter "A" for external diameter machining or "D" for face machining.

To select modular blades, refer to the Modular Blade List (starting from pg.11).

Note 1) The indicated dimensions are values for standard inserts (GM breakers). If other inserts are mounted, LF and LH may differ. Select the inserts and recommended conditions from "TOOL NEWS B255J-G GYGW Inserts". Links to PDF data are provided at the end of the document using QR codes.

(mm)

Holder Type	Modular Blade Type	Standard CW	CDX	WF	HF	LF	LH
C5-GYHER/LM90-M25L/R	GYM25L/R-  D06	2.0	6	33.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  D12	2.0	12	41.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  D20	2.0	20	47.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  E06	2.5	6	33.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  E12	2.5	12	41.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  E20	2.5	20	47.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  F06	3.0	6	33.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  F12	3.0	12	41.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  F20	3.0	20	47.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  G08	4.0	8	35.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  G14	4.0	14	41.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  G25	4.0	25	52.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  H08	5.0	8	35.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  H14	5.0	14	41.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  H25	5.0	25	52.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  J08	6.0	8	35.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  J14	6.0	14	41.0	0	60	38.6
C5-GYHER/LM90-M25L/R	GYM25L/R-  J25	6.0	25	52.0	0	60	38.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  D06	2.0	6	40.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  D12	2.0	12	48.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  D20	2.0	20	54.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  E06	2.5	6	40.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  E12	2.5	12	48.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  E20	2.5	20	54.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  F06	3.0	6	40.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  F12	3.0	12	48.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  F20	3.0	20	54.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  G08	4.0	8	42.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  G14	4.0	14	48.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  G25	4.0	25	59.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  H08	5.0	8	42.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  H14	5.0	14	48.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  H25	5.0	25	59.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  J08	6.0	8	42.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  J14	6.0	14	48.0	0	70	46.6
C6-GYHER/LM90-M25L/R	GYM25L/R-  J25	6.0	25	59.0	0	70	46.6

*Modular blade type: Blades for face machining indicate a code for the minimum face grooving diameter. Example) GYM25RD-D12-040

The "

To select modular blades, refer to the Modular Blade List (starting from pg.11).

Note 1) The indicated dimensions are values for standard inserts (GM breakers). If other inserts are mounted, LF and LH may differ. Select the inserts and recommended conditions from "TOOL NEWS B255J-G GYGW Inserts". Links to PDF data are provided at the end of the document using QR codes.

Spare Parts

											
Clamp Screw		Blade Screw		Plug		Nozzle		Wrench 1		Wrench 2	
Order Number	Pcs.	Order Number	Pcs.	Order Number	Pcs.	Order Number	Pcs.	Order Number		Order Number	
GY06013M	1	TS55	5	HSD05004S	1	NZ22042080S	1	TKY25D		TKY30R	

* Clamp Torque (N • m) : GY06013M=6.0, TS55=5.0

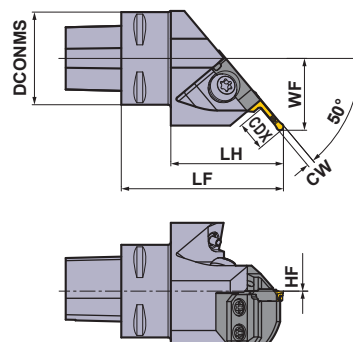
Nozzle Exchange Key : NZKH050S

GY SERIES (FOR RECESSING)

PSC For 50° recessing holder

Note 1) Please order the modular blade and modular holder separately.

Note 2) Please set the left hand modular blade at the right hand holder and the right hand modular blade at the left hand holder.



Left hand tool holder shown.

(mm)

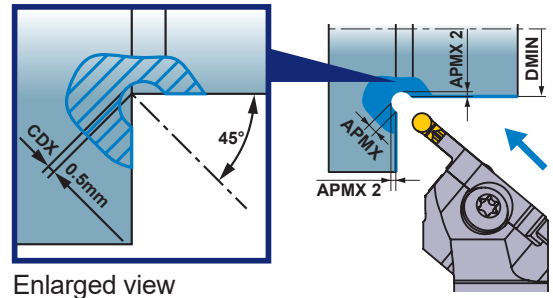
Order Number	Stock	Hand (R/L)	Coolant	Mounting Size	DCONMS	CW
C4-GYHERM50-M25L	●	R	External	PSC40	40	2.0—6.35
C4-GYHELM50-M25R	●	L	External	PSC40	40	2.0—6.35
C5-GYHERM50-M25L	●	R	External	PSC50	50	2.0—6.35
C5-GYHELM50-M25R	●	L	External	PSC50	50	2.0—6.35
C6-GYHERM50-M25L	●	R	External	PSC60	60	2.0—6.35
C6-GYHELM50-M25R	●	L	External	PSC60	60	2.0—6.35

Spare Parts

Clamp Screw		Blade Screw		Plug		Nozzle		Wrench 1	Wrench 2
Order Number	Pcs.	Order Number	Pcs.	Order Number	Pcs.	Order Number	Pcs.	Order Number	Order Number
GY06013M	1	TS55	4	HSD05004S	1	NZ22042080S	1	TKY25D	TKY30R

* Clamp Torque (N • m) : GY06013M=6.0, TS55=5.0

Nozzle Exchange Key : NZKH050S



Set Dimensions with Modular Blades

Holder Type	Modular Blade Type	Standard CW	CDX	DMIN	APMX	APMX2	WF	HF	LF	LH
C4-GYHER/LM50-M25L/R	GYM25L/RC-D005	2.0	0.5	30	1.50	0.646	30.6	0	70.2	48.8
C4-GYHER/LM50-M25L/R	GYM25L/RC-E005	2.5	0.5	30	1.75	0.720	30.8	0	70.1	48.7
C4-GYHER/LM50-M25L/R	GYM25L/RC-F005	3.0	0.5	30	2.00	0.793	31.0	0	70.0	48.6
C4-GYHER/LM50-M25L/R	GYM25L/RC-G005	4.0	0.5	20	2.50	0.939	31.4	0	69.8	48.4
C4-GYHER/LM50-M25L/R	GYM25L/RC-H005	5.0	0.5	20	2.88	1.049	31.8	0	39.6	48.2
C4-GYHER/LM50-M25L/R	GYM25L/RC-J005	6.0	0.5	20	3.50	1.232	32.4	0	69.4	48.0
C5-GYHER/LM50-M25L/R	GYM25L/RC-D005	2.0	0.5	30	1.50	0.646	32.6	0	70.2	48.8
C5-GYHER/LM50-M25L/R	GYM25L/RC-E005	2.5	0.5	30	1.75	0.720	32.8	0	70.1	48.7
C5-GYHER/LM50-M25L/R	GYM25L/RC-F005	3.0	0.5	30	2.00	0.793	33.0	0	70.0	48.6
C5-GYHER/LM50-M25L/R	GYM25L/RC-G005	4.0	0.5	20	2.50	0.939	33.4	0	69.8	48.4
C5-GYHER/LM50-M25L/R	GYM25L/RC-H005	5.0	0.5	20	2.88	1.049	33.8	0	39.6	48.2
C5-GYHER/LM50-M25L/R	GYM25L/RC-J005	6.0	0.5	20	3.50	1.232	34.4	0	69.4	48.0
C6-GYHER/LM50-M25L/R	GYM25L/RC-D005	2.0	0.5	30	1.50	0.646	39.6	0	70.2	46.8
C6-GYHER/LM50-M25L/R	GYM25L/RC-E005	2.5	0.5	30	1.75	0.720	39.8	0	70.1	46.7
C6-GYHER/LM50-M25L/R	GYM25L/RC-F005	3.0	0.5	30	2.00	0.793	40.0	0	70.0	46.6
C6-GYHER/LM50-M25L/R	GYM25L/RC-G005	4.0	0.5	20	2.50	0.939	40.4	0	69.8	46.4
C6-GYHER/LM50-M25L/R	GYM25L/RC-H005	5.0	0.5	20	2.88	1.049	40.8	0	39.6	46.2
C6-GYHER/LM50-M25L/R	GYM25L/RC-J005	6.0	0.5	20	3.50	1.232	41.4	0	69.4	46.0

DMIN = Min. Cut Diameter

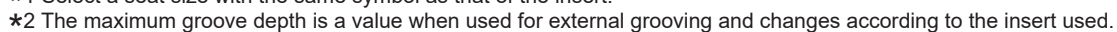
*Modular blade type: Blades for face machining indicate a code for the minimum face grooving diameter. Example) GYM25RD-D12-040

The "○" symbol is a position to insert the letter "A" for external diameter machining or "D" for face machining.

To select modular blades, refer to the Modular Blade List (starting from pg.11).

Note 1) The indicated dimensions are values for standard inserts (GM breakers). If other inserts are mounted, LF and LH may differ. Select the inserts and recommended conditions from "TOOL NEWS B255J-G GYGW Inserts". Links to PDF data are provided at the end of the document using QR codes.

● EXTERNAL/FOR RECESSING



Modular Blades Selection Chart

Holder Angle	Cutting Mode	Holder Type	Hand (R/L)	Seat Size	Modular Blade	
					Order Number	Hand (R/L)
00°	External	C-GYHERM00-M25R	R	D	GYM25RA-D06	R
				D	GYM25RA-D12	R
				D	GYM25RA-D20	R
				E	GYM25RA-E06	R
				E	GYM25RA-E12	R
				E	GYM25RA-E20	R
				F	GYM25RA-F06	R
				F	GYM25RA-F12	R
				F	GYM25RA-F20	R
				G	GYM25RA-G08	R
				G	GYM25RA-G14	R
				G	GYM25RA-G25	R
				H	GYM25RA-H08	R
				H	GYM25RA-H14	R
				H	GYM25RA-H25	R
				J	GYM25RA-J08	R
				J	GYM25RA-J14	R
				J	GYM25RA-J25	R
		C-GYHELM00-M25L	L	D	GYM25LA-D06	L
				D	GYM25LA-D12	L
				D	GYM25LA-D20	L
				E	GYM25LA-E06	L
				E	GYM25LA-E12	L
				E	GYM25LA-E20	L
				F	GYM25LA-F06	L
				F	GYM25LA-F12	L
				F	GYM25LA-F20	L
				G	GYM25LA-G08	L
				G	GYM25LA-G14	L
				G	GYM25LA-G25	L
				H	GYM25LA-H08	L
				H	GYM25LA-H14	L
				H	GYM25LA-H25	L
				J	GYM25LA-J08	L
				J	GYM25LA-J14	L
				J	GYM25LA-J25	L
00°	Face Grooving	C-GYHERM00-M25R	R	D	GYM25RD-D12-040	R
				D	GYM25RD-D12-050	R
				D	GYM25RD-D12-060	R
				D	GYM25RD-D12-075	R
				D	GYM25RD-D12-100	R
				D	GYM25RD-D12-135	R
				D	GYM25RD-D12-180	R
				E	GYM25RD-E12-040	R
				E	GYM25RD-E12-050	R
				E	GYM25RD-E12-060	R
				E	GYM25RD-E12-075	R
				E	GYM25RD-E12-100	R
				E	GYM25RD-E12-135	R
				E	GYM25RD-E12-180	R
				F	GYM25RD-F12-035	R
				F	GYM25RD-F12-040	R
				F	GYM25RD-F12-050	R
				F	GYM25RD-F12-060	R
				F	GYM25RD-F12-075	R
				F	GYM25RD-F12-100	R
				F	GYM25RD-F12-135	R
				F	GYM25RD-F12-180	R
				F	GYM25RD-F12-225	R
				F	GYM25RD-F20-060	R
				F	GYM25RD-F20-075	R
				F	GYM25RD-F20-100	R
				F	GYM25RD-F20-135	R
				F	GYM25RD-F20-180	R
				F	GYM25RD-F20-225	R
				G	GYM25RD-G14-040	R
				G	GYM25RD-G14-050	R
				G	GYM25RD-G14-060	R
00°	Face Grooving	C-GYHERM00-M25R	R	G	GYM25RD-G14-085	R
				G	GYM25RD-G14-125	R
				G	GYM25RD-G14-180	R
				G	GYM25RD-G14-250	R
				G	GYM25RD-G25-060	R
				G	GYM25RD-G25-085	R
				G	GYM25RD-G25-125	R
				G	GYM25RD-G25-180	R
				G	GYM25RD-G25-250	R
				H	GYM25RD-H14-050	R
				H	GYM25RD-H14-060	R
				H	GYM25RD-H14-085	R
				H	GYM25RD-H14-125	R
				H	GYM25RD-H14-180	R
				H	GYM25RD-H14-250	R
				H	GYM25RD-H25-060	R
				H	GYM25RD-H25-085	R
				H	GYM25RD-H25-125	R
				H	GYM25RD-H25-180	R
				H	GYM25RD-H25-250	R
		C-GYHELM00-M25L	L	J	GYM25RD-J14-050	R
				J	GYM25RD-J14-070	R
				J	GYM25RD-J14-110	R
				J	GYM25RD-J14-170	R
				J	GYM25RD-J14-250	R
				J	GYM25RD-J25-070	R
				J	GYM25RD-J25-110	R
				J	GYM25RD-J25-170	R
				J	GYM25RD-J25-250	R
				D	GYM25LD-D12-040	L
				D	GYM25LD-D12-050	L
				D	GYM25LD-D12-060	L
				D	GYM25LD-D12-075	L
				D	GYM25LD-D12-100	L
				D	GYM25LD-D12-135	L
				D	GYM25LD-D12-180	L
				E	GYM25LD-E12-040	L
				E	GYM25LD-E12-050	L
				E	GYM25LD-E12-060	L
				E	GYM25LD-E12-075	L
				E	GYM25LD-E12-100	L
				E	GYM25LD-E12-135	L
				E	GYM25LD-E12-180	L
				F	GYM25LD-F12-035	L
				F	GYM25LD-F12-040	L
				F	GYM25LD-F12-050	L
				F	GYM25LD-F12-060	L
				F	GYM25LD-F12-075	L
				F	GYM25LD-F12-100	L
				F	GYM25LD-F12-135	L
				F	GYM25LD-F12-180	L
				F	GYM25LD-F12-225	L
				F	GYM25LD-F20-060	L
				F	GYM25LD-F20-075	L
				F	GYM25LD-F20-100	L
				F	GYM25LD-F20-135	L
				F	GYM25LD-F20-180	L
				F	GYM25LD-F20-225	L
				G	GYM25LD-G14-040	L
				G	GYM25LD-G14-050	L
				G	GYM25LD-G14-060	L
				G	GYM25LD-G14-085	L
				G	GYM25LD-G14-125	L
				G	GYM25LD-G14-180	L
				G	GYM25LD-G14-250	L
				G	GYM25LD-G25-060	L
				G	GYM25LD-G25-085	L
				G	GYM25LD-G25-125	L

Grooving System

Modular Blades Selection Chart

Holder Angle	Cutting Mode	Holder Type	Hand (R/L)	Seat Size	Modular Blade	
					Order Number	Hand (R/L)
00°	Face Grooving	GYHELM00-M25L	L	G	GYM25LD-G25-180	L
				G	GYM25LD-G25-250	L
				H	GYM25LD-H14-050	L
				H	GYM25LD-H14-060	L
				H	GYM25LD-H14-085	L
				H	GYM25LD-H14-125	L
				H	GYM25LD-H14-180	L
				H	GYM25LD-H14-250	L
				H	GYM25LD-H25-060	L
				H	GYM25LD-H25-085	L
				H	GYM25LD-H25-125	L
				H	GYM25LD-H25-180	L
				H	GYM25LD-H25-250	L
				J	GYM25LD-J14-050	L
				J	GYM25LD-J14-070	L
				J	GYM25LD-J14-110	L
				J	GYM25LD-J14-170	L
				J	GYM25LD-J14-250	L
				J	GYM25LD-J25-070	L
				J	GYM25LD-J25-110	L
				J	GYM25LD-J25-170	L
				J	GYM25LD-J25-250	L
90°	External	GYHERM90-M25L	R	D	GYM25LA-D06	L
				D	GYM25LA-D12	L
				D	GYM25LA-D20	L
				E	GYM25LA-E06	L
				E	GYM25LA-E12	L
				E	GYM25LA-E20	L
				F	GYM25LA-F06	L
				F	GYM25LA-F12	L
				F	GYM25LA-F20	L
				G	GYM25LA-G08	L
				G	GYM25LA-G14	L
				G	GYM25LA-G25	L
				H	GYM25LA-H08	L
				H	GYM25LA-H14	L
				H	GYM25LA-H25	L
				J	GYM25LA-J08	L
				J	GYM25LA-J14	L
				J	GYM25LA-J25	L
		GYHELM90-M25R	L	D	GYM25RA-D06	R
				D	GYM25RA-D12	R
				D	GYM25RA-D20	R
				E	GYM25RA-E06	R
				E	GYM25RA-E12	R
				E	GYM25RA-E20	R
				F	GYM25RA-F06	R
				F	GYM25RA-F12	R
				F	GYM25RA-F20	R
				G	GYM25RA-G08	R
				G	GYM25RA-G14	R
				G	GYM25RA-G25	R
				H	GYM25RA-H08	R
				H	GYM25RA-H14	R
				H	GYM25RA-H25	R
				J	GYM25RA-J08	R
				J	GYM25RA-J14	R
				J	GYM25RA-J25	R
90°	端面	GYHERM90-M25L	R	D	GYM25LD-D12-040	L
				D	GYM25LD-D12-050	L
				D	GYM25LD-D12-060	L
				D	GYM25LD-D12-075	L
				D	GYM25LD-D12-100	L
				D	GYM25LD-D12-135	L
				D	GYM25LD-D12-180	L
				E	GYM25LD-E12-040	L
				E	GYM25LD-E12-050	L
				E	GYM25LD-E12-060	L
90°	Face Grooving	GYHERM90-M25L	R	E	GYM25LD-E12-075	L
				E	GYM25LD-E12-100	L
				E	GYM25LD-E12-135	L
				E	GYM25LD-E12-180	L
				F	GYM25LD-F12-035	L
				F	GYM25LD-F12-040	L
				F	GYM25LD-F12-050	L
				F	GYM25LD-F12-060	L
				F	GYM25LD-F12-075	L
				F	GYM25LD-F12-100	L
				F	GYM25LD-F12-135	L
				F	GYM25LD-F12-180	L
				F	GYM25LD-F12-225	L
				F	GYM25LD-F20-060	L
				F	GYM25LD-F20-075	L
				F	GYM25LD-F20-100	L
				F	GYM25LD-F20-135	L
				F	GYM25LD-F20-180	L
				F	GYM25LD-F20-225	L
		GYHERM90-M25L	R	G	GYM25LD-G14-040	L
				G	GYM25LD-G14-050	L
				G	GYM25LD-G14-060	L
				G	GYM25LD-G14-085	L
				G	GYM25LD-G14-125	L
				G	GYM25LD-G14-180	L
				G	GYM25LD-G14-250	L
				G	GYM25LD-G25-060	L
				G	GYM25LD-G25-085	L
				G	GYM25LD-G25-125	L
				G	GYM25LD-G25-180	L
				G	GYM25LD-G25-250	L
				H	GYM25LD-H14-050	L
				H	GYM25LD-H14-060	L
				H	GYM25LD-H14-085	L
				H	GYM25LD-H14-125	L
				H	GYM25LD-H14-180	L
				H	GYM25LD-H14-250	L
				H	GYM25LD-H25-060	L
				H	GYM25LD-H25-085	L
				H	GYM25LD-H25-125	L
				H	GYM25LD-H25-180	L
				H	GYM25LD-H25-250	L
90°	Face Grooving	GYHELM90-M25R	L	J	GYM25LD-J14-050	L
				J	GYM25LD-J14-070	L
				J	GYM25LD-J14-110	L
				J	GYM25LD-J14-170	L
				J	GYM25LD-J14-250	L
				J	GYM25LD-J25-070	L
				J	GYM25LD-J25-110	L
				J	GYM25LD-J25-170	L
				J	GYM25LD-J25-250	L
		GYHELM90-M25R	L	D	GYM25RD-D12-040	R
				D	GYM25RD-D12-050	R
				D	GYM25RD-D12-060	R
				D	GYM25RD-D12-075	R
				D	GYM25RD-D12-100	R
				D	GYM25RD-D12-135	R
				D	GYM25RD-D12-180	R
				E	GYM25RD-E12-040	R
				E	GYM25RD-E12-050	R
				E	GYM25RD-E12-060	R
				E	GYM25RD-E12-075	R
				E	GYM25RD-E12-100	R
				E	GYM25RD-E12-135	R
				E	GYM25RD-E12-180	R
				F	GYM25RD-F12-035	R
				F	GYM25RD-F12-040	R
				F	GYM25RD-F12-050	R

Holder Angle	Cutting Mode	Holder Type	Hand (R/L)	Seat Size	Modular Blade	
					Order Number	Hand (R/L)
90°	Face Grooving	C-GYHELM90-M25R	L	F	GYM25RD-F12-060	R
				F	GYM25RD-F12-075	R
				F	GYM25RD-F12-100	R
				F	GYM25RD-F12-135	R
				F	GYM25RD-F12-180	R
				F	GYM25RD-F12-225	R
				F	GYM25RD-F20-060	R
				F	GYM25RD-F20-075	R
				F	GYM25RD-F20-100	R
				F	GYM25RD-F20-135	R
				F	GYM25RD-F20-180	R
				F	GYM25RD-F20-225	R
				G	GYM25RD-G14-040	R
				G	GYM25RD-G14-050	R
				G	GYM25RD-G14-060	R
				G	GYM25RD-G14-085	R
				G	GYM25RD-G14-125	R
				G	GYM25RD-G14-180	R
				G	GYM25RD-G14-250	R
				G	GYM25RD-G25-060	R
				G	GYM25RD-G25-085	R
				G	GYM25RD-G25-125	R
				G	GYM25RD-G25-180	R
				G	GYM25RD-G25-250	R
				H	GYM25RD-H14-050	R
				H	GYM25RD-H14-060	R
				H	GYM25RD-H14-085	R
				H	GYM25RD-H14-125	R
				H	GYM25RD-H14-180	R
				H	GYM25RD-H14-250	R
				H	GYM25RD-H25-060	R
				H	GYM25RD-H25-085	R
				H	GYM25RD-H25-125	R
				H	GYM25RD-H25-180	R
				H	GYM25RD-H25-250	R
				J	GYM25RD-J14-050	R
				J	GYM25RD-J14-070	R
				J	GYM25RD-J14-110	R
				J	GYM25RD-J14-170	R
				J	GYM25RD-J14-250	R
				J	GYM25RD-J25-070	R
				J	GYM25RD-J25-110	R
				J	GYM25RD-J25-170	R
				J	GYM25RD-J25-250	R

Holder Angle	Cutting Mode	Holder Type	Hand (R/L)	Seat Size	Modular Blade	
					Order Number	Hand (R/L)
50°	For Recessing	C-GYHERM50-M25L	R	D	GYM25LC-D005	L
				E	GYM25LC-E005	L
				F	GYM25LC-F005	L
				G	GYM25LC-G005	L
				H	GYM25LC-H005	L
				J	GYM25LC-J005	L
		C-GYHELM50-M25R	L	D	GYM25RC-D005	R
				E	GYM25RC-E005	R
				F	GYM25RC-F005	R
				G	GYM25RC-G005	R
				H	GYM25RC-H005	R
				J	GYM25RC-J005	R

Cutting Off & Grooving System

Please use the catalogues below for insert selection and recommended cutting conditions.

C009B 2019-2020

General Catalog



B255G-G TOOL NEWS

GY/GW Series Inserts



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 driver. ●When using rotating tools, please make a trial run to check run-out, vibration and abnormal sounds etc.

MITSUBISHI MATERIALS CORPORATION

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 Amata City Branch
Amata Nakorn Industrial Estate Phase 9
700/643 Moo 5, Tambon Nongkakha, Amphur
Phanthong, Chonburi, 20160 Thailand
Tel: +66-3821-0728 Fax: +66-3821-0732

Singapore Branch
33 Ubi Avenue3, #05-14 Vertex, Singapore
408868
Tel: +65-6634-8250 Fax: +65-6634-8257

Indonesia Representative Office
MM2100 Industrial Town
Jl. Jawa Blok GG-6 No.2 Jatiwangi, Cikarang,
Bekasi Indonesia 17520
Tel: +62-21-2214-3639 Fax: +62-21-2214-3745

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

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 Fax: +84-24-3772-8299

<http://www.mitsubishicarbide.com/en/>
(Tools specifications subject to change without notice.)

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