




Insert for Small Internal Grooving

Applicable Inserts (GIV / GIV-E / GIV-W)

				(mm)																	
Description	A	L	H	P	Carbon Steel / Alloy Steel											Classification of usage					
GV^{R/L}...SS	3.6	9	3.0	M	Stainless Steel											●	Continuous-Light Interruption / 1st Choice				
GV^{R/L}...S	4.0	11	4.0	K	Cast Iron											●	Continuous-Light Interruption / 2nd Choice				
GV^{R/L}...A	4.0	12	5.0	N	Non-ferrous Metals											●	Continuous / 1st Choice				
GV^{R/L}...B	4.5	15	5.5	S	Titanium Alloy											○	Continuous / 2nd Choice				
GV^{R/L}...C	5.8	21	6.5	H	Hard materials (under 40HRC)																
					Hard materials (over 40HRC)																
Insert R-hand shown	Description	(Previous Description)	Dimensions (mm)			Cermet			PVD Coated Carbide		Carbide	PCD		Applicable Toolholder	Ref. Page for Toolholder						
			W	B	ε	TN90	TC40	TC60	PR630	PR930	KW10	KPD001	KPD010								
 1-Edge	GV^{R/L} 100-020SS	GV^{R/L} 100SS	1.00	2.3	0.2			R	R					GIV^{R/L}...1SS	G52						
	125-020SS	125SS	1.25			R	R	●													
	145-020SS	145SS	1.45			R	●	●													
	200-020SS	200SS	2.00			R	R	●													
	250-020SS	250SS	2.50			R	R	●													
	300-020SS	300SS	3.00			R	R	●													
	GV^{R/L} 100-020S	GV^{R/L} 100S	1.00			R	●	●													
	125-020S	125S	1.25			R	R	●													
	145-020S	145S	1.45			R	R	●													
	185-020S	185S	1.85			R	R	●													
 2-Edge	GV^{R/L} 100-020A	GV^{R/L} 100A	1.00	2.3	0.2					●	●			GIV^{R/L}...1A GIV^{R/L}...1AE GIV^{R/L}...1AW	G52						
	120-020A	120A	1.20						R	●											
	125-020A	125A	1.25																		
	140-020A	140A	1.40																		
	145-020A	145A	1.45							R	●										
	170-020A	170A	1.70																		
	185-020A	185A	1.85						R	●											
	195-020A	195A	1.95																		
	200-020A	200A	2.00						●	●											
	225-020A	225A	2.25																		
	250-020A	250A	2.50						R	●											
	275-020A	275A	2.75																		
	300-020A	300A	3.00							R	●										
	340-020A	340A	3.40						R	R	●										
	GV^{R/L} 145-020B	GV^{R/L} 145B	1.45			2.8	0.2				●	●						GIV^{R/L}...1B GIV^{R/L}...1BE GIV^{R/L}...1BW	G52		
	185-020B	185B	1.85								R	●									
	200-020B	200B	2.00								●	●									
	225-020B	225B	2.25																		
	230-020B	230B	2.30					3.2	0.2				●			R					
	250-020B	250B	2.50										●			●					
275-020B	275B	2.75	4.2	0.2																	
280-020B	280B	2.80								R	R										
300-020B	300B	3.00								●	●										
325-020B	325B	3.25																			
340-020B	340B	3.40	4.2	0.2			R	R	R				GIV^{R/L}...2B GIV^{R/L}...2BE GIV^{R/L}...2BW	G52							
400-020B	400B	4.00					R	R	●												
GV^{R/L} 280-020C	GV^{R/L} 280C	2.80	4.5	0.2				R	●				GIV^{R/L}...1C GIV^{R/L}...1CE GIV^{R/L}...1CW	G52							
300-020C	300C	3.00							●	●											
325-020C	325C	3.25																			
340-020C	340C	3.40																			
400-020C	400C	4.00			5.5	0.2				●	●					GIV^{R/L}...2C GIV^{R/L}...2CE GIV^{R/L}...2CW	G52				
425-020C	425C	4.25																			
430-020C	430C	4.30			6.3	0.2				R	●										
460-020C	460C	4.60									R	●									
500-020C	500C	5.00								●	●										
 2-Edge Full-R	GV^{R/L} 145-020A	GV^{R/L} 145A			1.45	2.3	0.2										R	GIV^{R/L}...1A GIV^{R/L}...1AE GIV^{R/L}...1AW	G52		
	200-020A	200A	2.00											R							
	300-020A	300A	3.00											○							
	GV^{R/L} 200-020B	GV^{R/L} 200B	2.00	3.2	0.2										R						
	250-020B	250B	2.50													R					
	300-020B	300B	3.00	4.2	0.2										○						
	300-020C	300C	3.00					4.5	0.2							○					
	400-020C	400C	4.00	5.5	0.2											○					
	GV^{R/L} 200-100AR	GV^{R/L} 100AR	2.00					2.3	1.00			R	●	R						GIV^{R/L}...1A GIV^{R/L}...1AE GIV^{R/L}...1AW	G52
	250-125AR	125AR	2.50									R	R	R							
300-150AR	150AR	3.00					R			R	R										
GV^{R/L} 200-100BR	GV^{R/L} 100BR	2.00	3.2	1.00			R	R	R				GIV^{R/L}...1B GIV^{R/L}...1BE GIV^{R/L}...1BW	G52							
250-125BR	125BR	2.50							R	R	R										
300-150BR	150BR	3.00			4.2	1.50			R	R	R					GIV^{R/L}...2B GIV^{R/L}...2BE GIV^{R/L}...2BW	G52				

* Dimension B shows available grooving depth.

For recommended cutting conditions, see page **G92**

- : Std. Item
- : Check Availability
- R : Std. Item (R-hand Only)
- L : Std. Item (L-hand Only)

Inserts are sold in 10 piece boxes.

CBN & PCD Inserts are sold in 1 piece boxes.