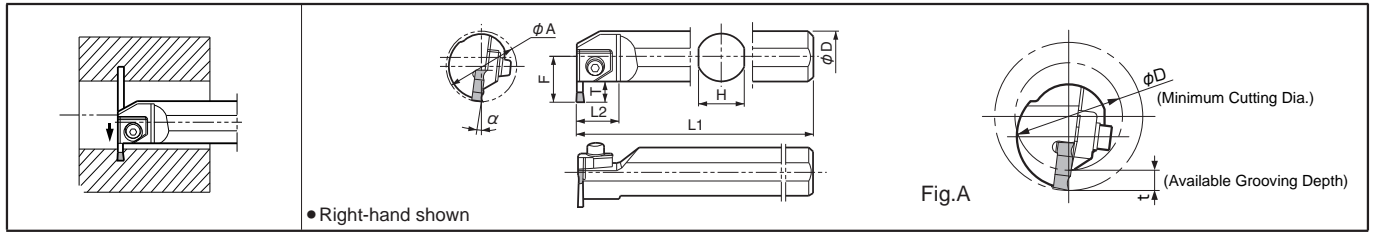


# Internal Large Diameter Deep Grooving Toolholders [GH / GHU Insert]

## KIGH



### Toolholder Dimensions

Description	Std.	Min. Cutting Dia.	Dimension (mm)							Spare Parts						
			R	L	$\phi A$	$\phi D$	H	L1	L2	F	T	Clamp	Clamp Bolt	Washer	Spring	Wrench
												CGH-1L	HH6X25	W-6	SP-6	LW-5
<b>KIGH<sup>F/L</sup></b> 4532B-4	●	45	32	30	200		28.2									
5540B-4	●	55	40	38	250	27	32.2	12								
6550B-4	●	65	50	48	300		37.2									
4532B-5	●	45	32	30	200		28.2									
5540B-5	●	55	40	38	250	27	32.2	12								
6550B-5	●	65	50	48	300		37.2									
5540B-7	●	55	40	38	250	27	32.2	12								
6550B-7	●	65	50	48	300		37.2									

\* Dimension T shows the distance from the Toolholder to the cutting edge. For the available Grooving Depth (t) see "List of Minimum Available Cutting Diameter and Groove Depth".  
 \* Dimension L2 depends on the width of the installed Insert.

### Rake Angle ( $\alpha$ ) after Installment of GH / GHU

When using GH ○○○○ - ○○		When using GHU ○○○○	
$\alpha$	Insert Grades	$\alpha$	Insert Grades
-5°	A65, A66N	+5°	TN60 CR9025
+5°	TC40		
+15°	TN90, TC60 PR630, PR930 KW10		

### List of the Minimum Cutting Diameter and Grooving Depth (Refer Fig.A)

Toolholder	$\phi D$ (Minimum Cutting Dia.)					
KIGH <sup>F/L</sup> 4532B-○	$\phi 110$	$\phi 70$	$\phi 65$	$\phi 60$	$\phi 55$	$\phi 45$
5540B-○	$\phi 70$	$\phi 60$	$\phi 55$			
6550B-○	$\phi 65$					
Available Grooving Depth t (mm)	12	11.5	11	10	9	under 8

## Applicable Inserts

Description	L (mm)	H (mm)
GH4020-○○ ~GH8020-○○	20	7.5
GHU ○○○○	20	

Insert	Carbon Steel / Alloy Steel	Stainless Steel	Cast Iron	Non-ferrous Metals	Titanium Alloy	Hard materials (under 40HRC)	Hard materials (over 40HRC)	Classification of usage
P	●							● : Continuous-Light Interruption / 1st Choice ○ : Continuous-Light Interruption / 2nd Choice ● : Continuous / 1st Choice ○ : Continuous / 2nd Choice
M		●						
K			●					
N				●				
S					●			
H						●		
H							○	

Insert	Description	Dimension (mm)		Cermet	CVD Coated Carbide	PVD Coated Carbide	Ceramic	Applicable Toolholder
		W	r $\epsilon$					
 Ground Chipbreaker	GH 4020-02	4.0	0.2	●	●			KIGH <sup>F/L</sup> 4532B-4 5540B-4 6550B-4
		4020-05	4.0	0.5	●	●		
	4520-02	4.5	0.2		●			
	4520-05	4.5	0.5		●			
	GH 5020-02	5.0	0.2	●	●			KIGH <sup>F/L</sup> 4532B-5 5540B-5 6550B-5
		5020-05	5.0	0.5	●	●		
	5520-02	5.5	0.2		●			
	5520-05	5.5	0.5		●			
	GH 6020-02	6.0	0.2	●	●			KIGH <sup>F/L</sup> 5540B-7 6550B-7
		6020-05	6.0	0.5	●	●		
6520-02	6.5	0.2		●				
6520-05	6.5	0.5		●				
GH 7020-02	7.0	0.2	●	●			KIGH <sup>F/L</sup> 5540B-7 6550B-7	
	7020-05	7.0	0.5	●	●			
7520-02	7.5	0.2		●				
7520-05	7.5	0.5		●				
GH 8020-02	8.0	0.2	●	●			KIGH <sup>F/L</sup> ...○○○ B-4	
	8020-05	8.0	0.5	●	●			
 Molded Chipbreaker	GHU 4020	4.0	0.25	●				KIGH <sup>F/L</sup> ...○○○ B-4
	5020	5.0	0.30	●				KIGH <sup>F/L</sup> ...○○○ B-5
	6020	6.0	0.30	●				KIGH <sup>F/L</sup> ...○○○ B-5

For recommended cutting conditions, see page G90

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

Inserts are sold in 10 piece boxes.