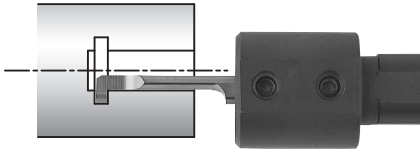


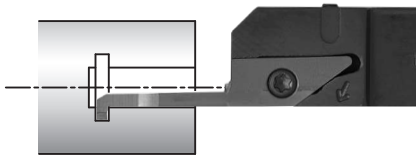
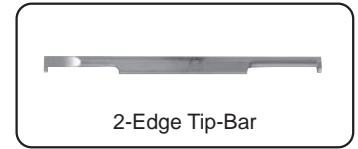
# Summary of Internal Grooving

## Small Dia. Internal Grooving $\phi 4 \sim$ (G43 ~ G45)

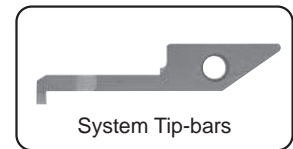
### 2-Edge Tip-Bar & System Tip-Bar



Type	HPG
Min.Bore Dia.	$\phi 4 \sim \phi 7$
Width (mm)	1.0 ~ 2.0
Grooving Depth (mm)	1.0 ~ 2.0
Ref. Page	<b>G44</b>

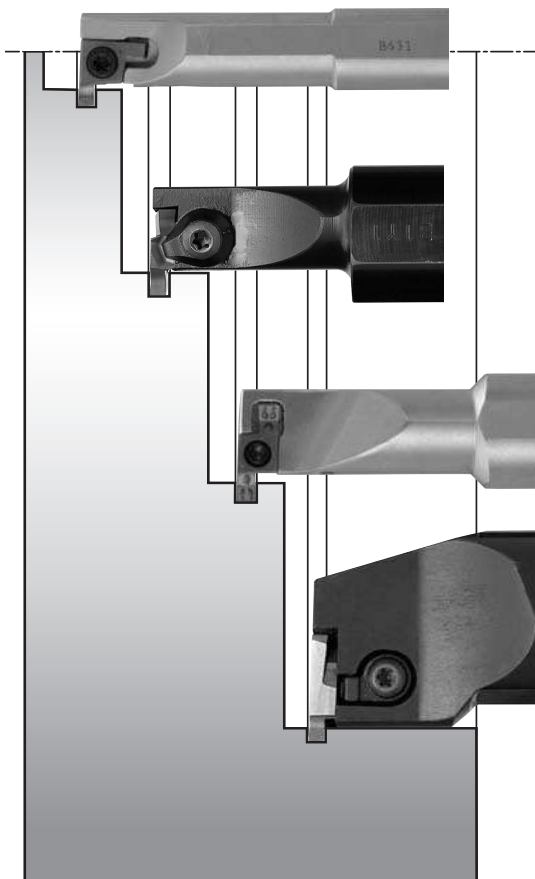


Type	VNG
Min.Bore Dia.	$\phi 4 \sim \phi 7$
Width (mm)	1.0 ~ 2.0
Grooving Depth (mm)	0.8 ~ 2.0
Ref. Page	<b>G43</b>

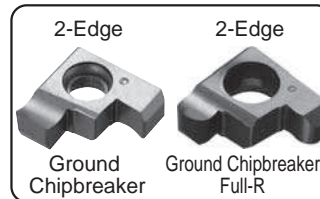


## Internal Grooving $\phi 8 \sim$ (G46 ~ G56)

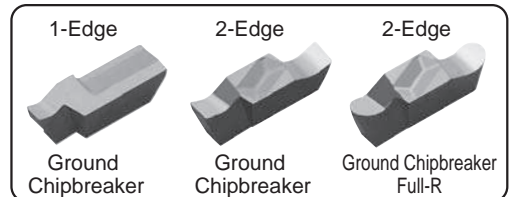
### Shallow Grooving



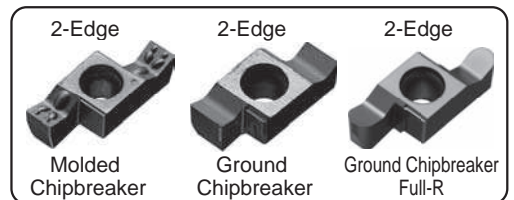
Type	SIGE
Min.Bore Dia.	$\phi 8 \sim \phi 12$
Width (mm)	1.0 ~ 3.0
Grooving Depth (mm)	1.5 ~ 2.2
Ref. Page	<b>G48</b>



Type	GIV
Min.Bore Dia.	$\phi 12 \sim \phi 40$
Width (mm)	1.0 ~ 5.0
Grooving Depth (mm)	1.7 ~ 6.3
Ref. Page	<b>G52</b>



Type	SIGE
Min.Bore Dia.	$\phi 14 \sim \phi 40$
Width (mm)	1.0 ~ 5.0
Grooving Depth (mm)	2.5 ~ 6.5
Ref. Page	<b>G48</b>



Type	KIGBA
Min.Bore Dia.	$\phi 35 \sim \phi 40$
Width (mm)	0.33 ~ 4.8
Grooving Depth (mm)	0.8 ~ 2.8
Ref. Page	<b>G55</b>



Type	KITG
Min.Bore Dia.	$\phi 35 \sim \phi 45$
Width (mm)	0.75 ~ 4.5
Grooving Depth (mm)	2.0 ~ 2.5
Ref. Page	<b>G56</b>



※KITG will be switched to KIGBA.