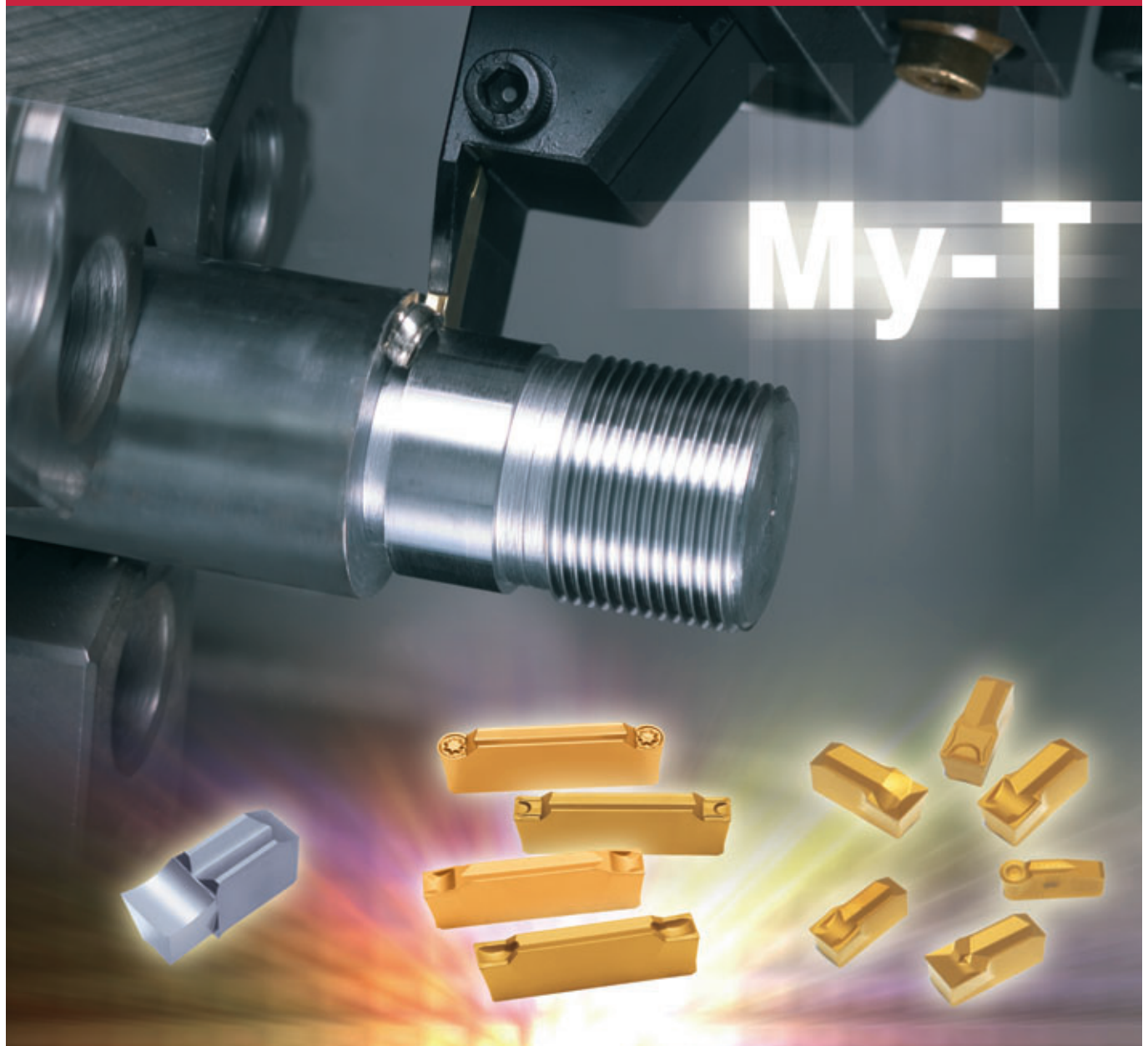


TURNLINE New grooving and parting off tools

MY-T SERIES

Extended version
with new items

Wide variety of tools drastically reduce set up time!



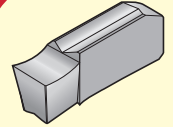
Features

My-T G series

For aluminium

GE-AL Width: 2.0 ~ 4.0 mm

Reduce cutting force and chip welding due to the combination of sharp chipbreaker and fine grain cemented carbide.



GE-AL

For internal grooving

GN Width: 3.0 ~ 5.0 mm

Lower cutting resistance and better cutting action than GE type. Used for internal grooving when problems with chip control and chattering occur.

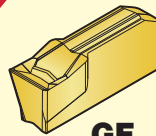


GN

For face grooving

GF Width: 3.0 ~ 5.0 mm

Larger width of chipbreaker than GE type and with good chip control. Used for face grooving when problems with chip control and chattering occur.

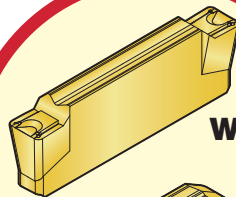


GF

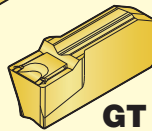
For traversing

WGT•GT Width: 3.0 ~ 5.0 mm

Lower cutting resistance and better cutting action for traversing. Suitable for external, internal grooving and extending face slots etc.



WGT



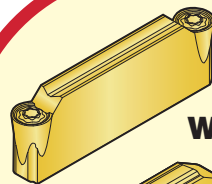
GT

For profiling

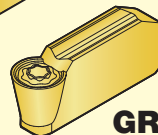
WGT•GR

Width: 3.0 (1.5R) ~ 5.0 (2.5R) mm

Lower cutting resistance and better chip control for profiling.



WGR



GR

For parting off

WGE R/L•GE R/L Width: 3.0 ~ 5.0 mm

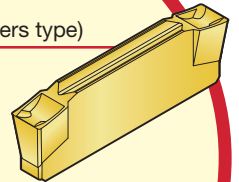
A chipbreaker with good chip control for parting off. These inserts are effective to minimize burr generation when workpiece is cut off.

1st choice

WGE (Two corners type)

Width: 2.0 ~ 5.0 mm

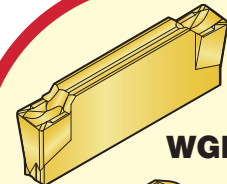
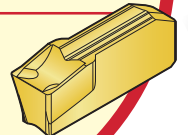
- ◆ External grooving
- ◆ Parting off



GE

Width: 2.0 ~ 5.0 mm

- ◆ External grooving
- ◆ Internal grooving
- ◆ Face grooving
- ◆ Parting off



WGE R/L



GE R/L

My-T G series

■WGE, GE type inserts almighty chipbreaker

- Excellent chip control for external grooving, internal grooving and face grooving.

■Specialist of grooving

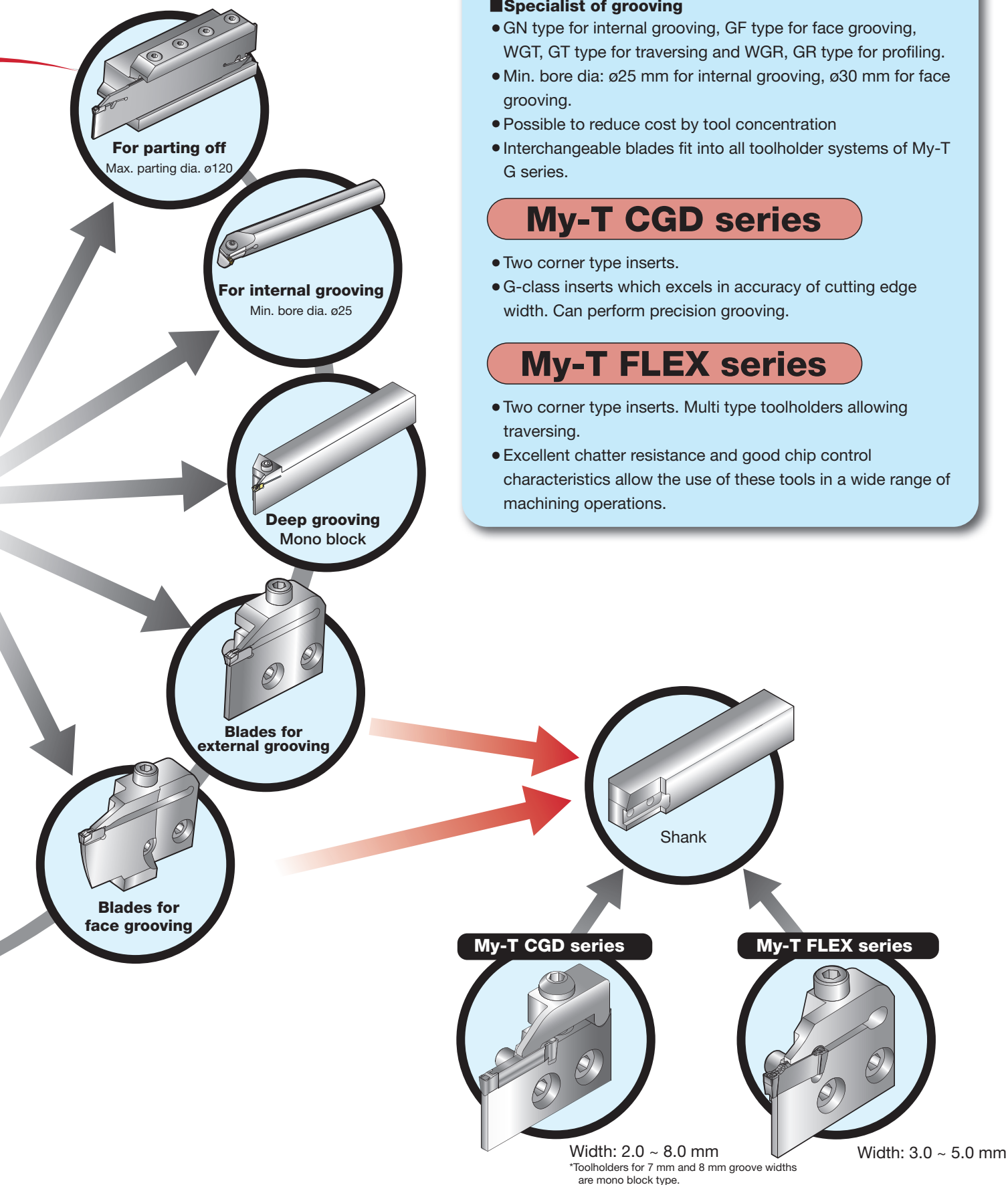
- GN type for internal grooving, GF type for face grooving, WGT, GT type for traversing and WGR, GR type for profiling.
- Min. bore dia: $\phi 25$ mm for internal grooving, $\phi 30$ mm for face grooving.
- Possible to reduce cost by tool concentration
- Interchangeable blades fit into all toolholder systems of My-T G series.

My-T CGD series

- Two corner type inserts.
- G-class inserts which excels in accuracy of cutting edge width. Can perform precision grooving.

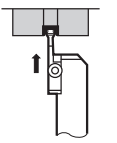
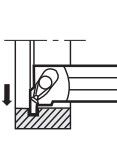
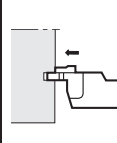
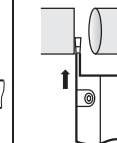
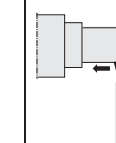
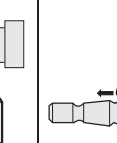
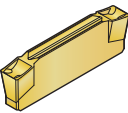
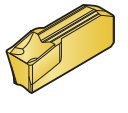
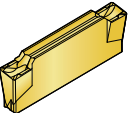
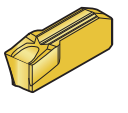
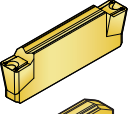
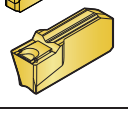
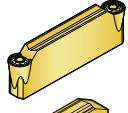
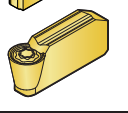
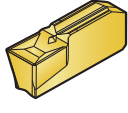
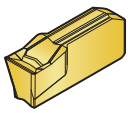
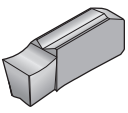
My-T FLEX series

- Two corner type inserts. Multi type toolholders allowing traversing.
- Excellent chatter resistance and good chip control characteristics allow the use of these tools in a wide range of machining operations.

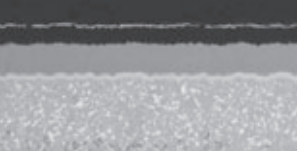

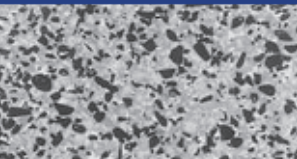



Chipbreaker recommendation for applications

⊙...Basic recommendation ○...Complementary recommendation

Type	Cat. No.	Shape	Grooving width W (mm)	External	Internal	Face	Parting off	Traversing	Profiling
									
For general	WGE20 GE20		2	⊙			○		
	WGE30 GE30		3	⊙	○ GE type only	○ GE type only	○		
	WGE40 GE40		4	⊙	○ GE type only	○ GE type only	○		
	WGE50 GE50		5	⊙	○ GE type only	○ GE type only	○		
Parting off	WGE20R/L		2				⊙		
	WGE30R/L GE30R/L		3				⊙		
	WGE40R/L GE40R/L		4				⊙		
	WGE50R/L GE50R/L		5				⊙		
Traversing	WGT30 GT30		3	○	○ GT type only	○ GT type only	○	⊙	○
	WGT40 GT40		4	○	○ GT type only	○ GT type only	○	⊙	○
	WGT50 GT50		5	○	○ GT type only	○ GT type only	○	⊙	○
Profiling	WGR30 GR30		3	○	○	○		○	⊙
	WGR40 GR40		4	○	○	○		○	⊙
	WGR50 GR50		5	○	○	○		○	⊙
Internal grooving	GN30		3	○	⊙	○	○		
	GN40		4	○	⊙	○	○		
	GN50		5	○	⊙	○	○		
Face grooving	GF30		3	○	○	⊙	○		
	GF40		4	○	○	⊙	○		
	GF50		5	○	○	⊙	○		
For Aluminium alloys, Non-ferrous metals	GE20-AL		2	⊙			○		
	GE30-AL		3	⊙	○	○	○		
	GE40-AL		4	⊙	○	○	○		

Grades

Grades	Substrate			Coating layer	
	Specific gravity	Hardness (Hv)	Transverse rupture strength (GPa)	Main composition	Thickness (μm)
T9125 	13.7	90.0	2.5	CVD coated grade, Continuously formed columnar crystal TiCN + Al ₂ O ₃	14
GH730 	14.4	91.5	3.0	PVD coated grade, Ti (C,N,O)	3
NS9530 	15.0	93.0	2.9	—	—
KS05F 	15.0	93.0	2.9	—	—
Features	Coating layer demonstrates the incredible adhesion strength due to the Double-Bridge effect. Exclusive substrate delivers an outstanding balance of wear and chipping resistance.				
Features	“Premium – Coat” PVD coated grade combined with tough and fine carbide substrate. Provides high reliability and stable long tool life in small parts machining at the lower cutting speed condition.				
Features	Versatile cermet grade with incredible fracture and wear resistance for steel machining.				
Features	Fine cemented carbide grade for non-ferrous metal cutting. Demonstrates improved wear and fracture resistance due to the high hardness and strength.				

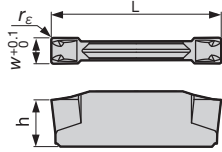
Standard cutting conditions

Cutting speed: Vc (m/min)		0	100	200	300	400	
P Steel	Low carbon steels, Alloy steels (~ 150HB) S10C, SCM415, SS400, SCr420H / C10E, E275A, 20Cr4H etc.	80	T9125	200	150	NS9530	250
	Medium carbon steels, Alloy steels (150 ~ 250HB) S45C, SCM440 / C45, 42CrMo4 etc.	80	T9125	180	80	NS9530	220
	High carbon steels, Alloy steels (250HB ~) S55C, SNCM439 / C55, C60 etc.	80	T9125	150	80	NS9530	180
M Stainless	Stainless steels SUS304, SUS316 / X5CrNi18-9, X5CrNiMo17-12-3 etc.	80	T9125	150	50	GH730	120
K Cast Iron	Grey cast irons, Ductile cast irons FC250, FCD400 / GG25, GGG40 etc.	80	T9125	200	50	GH730	180
N Non-ferrous	Aluminium alloys, Non-ferrous A2000, AC4C / AlCu4SiMg, AISi7Mg etc.	200	KS05F	300			

Inserts

2 corner

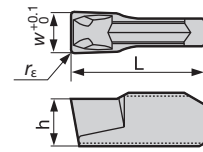
For external grooving and parting off



Cat. No.	Grades			Dimensions (mm)			
	Coated		Cermet	w	L	h	r _E
	T9125	GH730					
WGE20	●	●	●	2	20	4.7	0.2
WGE30	●	●	●	3		5.5	
WGE40	●	●	●	4	25	5.7	
WGE50	●	●	●	5		5.9	

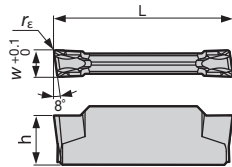
1 corner

For grooving and parting off



Cat. No.	Grades			Dimensions (mm)			
	Coated		Cermet	w	L	h	r _E
	T9125	GH730					
GE20		●	●	2	10	3.5	0.2
GE30	●	●	●	3		4.0	
GE40	●	●	●	4		4.5	
GE50	●	●	●	5	12	4.5	

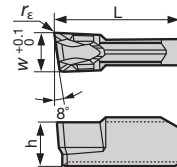
For parting off (handed insert)



Right hand (R) shown.

Cat. No.	Grades		Dimensions (mm)				
	Coated		w	L	h	r _E	
	GH730						
	R	L					
WGE20R/L	●	●	2	20	4.7	0.2	
WGE30R/L	●	●	3		5.5		
WGE40R/L	●	●	4	25	5.7		
WGE50R/L	●	●	5		5.9		

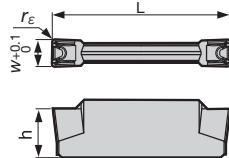
For parting off (handed insert)



Right hand (R) shown.

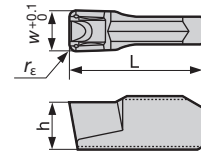
Cat. No.	Grades		Dimensions (mm)			
	Coated		w	L	h	r _E
	GH730					
	R	L				
GE30R/L	●	●	3	10	3.5	0.2
GE40R/L	●	●	4		4.0	
GE50R/L	●	●	5	12	4.5	

For grooving and traversing



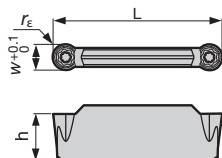
Cat. No.	Grades			Dimensions (mm)			
	Coated		Cermet	w	L	h	r _E
	T9125	GH730					
WGT30	●	●	●	3	20	5.5	0.4
WGT40	●	●	●	4		5.7	
WGT50	●	●	●	5	25	5.9	

For grooving and traversing



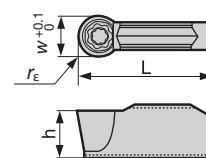
Cat. No.	Grades			Dimensions (mm)			
	Coated		Cermet	w	L	h	r _E
	T9125	GH730					
GT30		●	●	3	10	3.5	0.2
GT40		●	●	4		4.0	
GT50	●	●	●	5	12	4.5	

For profiling



Cat. No.	Grades			Dimensions (mm)			
	Coated		Cermet	w	L	h	r _E
	T9125	GH730					
WGR30	●	●	●	3	20	5.5	1.5
WGR40	●	●	●	4		5.7	2.0
WGR50		●	●	5	25	5.9	2.5

For profiling

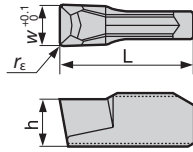


Cat. No.	Grades			Dimensions (mm)			
	Coated		Cermet	w	L	h	r _E
	T9125	GH730					
GR30		●	●	3	10	3.5	1.5
GR40	●	●	●	4		4.0	2.0
GR50	●	●	●	5	12	4.5	2.5

● : Stocked items.

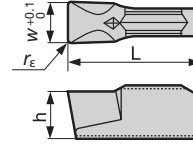
1 corner

For face grooving
(Improved chip control)



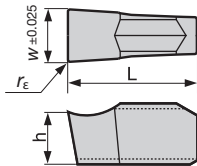
Cat. No.	Grades		Dimensions (mm)			
	Coated	Cermet	w	L	h	r _E
	GH730	NS9530				
GF30	●	●	3	10	3.5	0.2
GF40	●	●	4		4.0	
GF50	●	●	5	12	4.5	

For internal grooving



Cat. No.	Grades		Dimensions (mm)			
	Coated	Cermet	w	L	h	r _E
	GH730	NS9530				
GN30	●	●	3	10	3.5	0.2
GN40	●	●	4		4.0	
GN50	●	●	5	12	4.5	

For aluminium
and non-ferrous
metals



Cat. No.	Grades	Dimensions (mm)			
	Uncoated	w	L	h	r _E
	KS05F				
GE20-AL	●	2	10	3.5	0.2
GE30-AL	●	3		4.0	
GE40-AL	●	4		4.0	

Parts

(Mono block type)

Cat. No.	Clamping screw	Wrench
	CGWSR/L□□□□-□□-W CGWSR/L□□□□-□□-W-L	 CHHM5-18

(Blade type)

Cat. No.	Clamping screw	Blade fixing screw	Wrench
	CGWSR/L□□□□-□□WGR/L CGWSR/L□□□□-□□WGR/L-L	 CHHM5-18	 CSHB-6

Standard cutting conditions

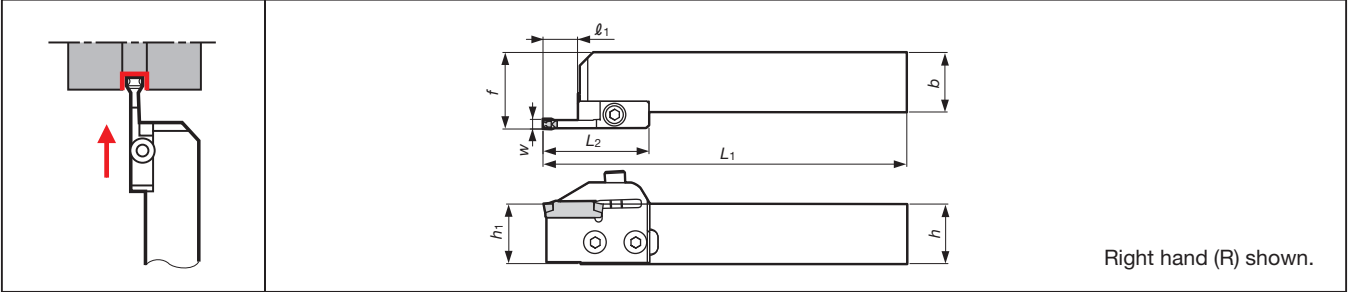
Work materials	Recommended grade	Cutting speed V _c (m/min)	Operation	Feed: f (mm/rev)			
				Groove width: W (mm)			
				2	3	4	5
Low carbon steels Alloy steels (~ 150HB)	T9125	80 ~ 200	Grooving (GE□□)	0.06 ~ 0.20	0.06 ~ 0.25	0.07 ~ 0.27	0.07 ~ 0.30
	NS9530	100 ~ 200					
	GH730	50 ~ 180					
Medium carbon steels Alloy steels (150 ~ 250HB)	T9125	80 ~ 180	Parting off (GE□□R/L)	0.04 ~ 0.10	0.04 ~ 0.14	0.04 ~ 0.14	0.04 ~ 0.14
	NS9530	80 ~ 180					
	GH730	50 ~ 150					
High carbon steels Alloy steels (250HB ~)	T9125	80 ~ 150	Traversing (GT□□)	-	ap = 0.5 ~ 1.5	ap = 0.5 ~ 2.0	ap = 0.5 ~ 2.5
	NS9530	80 ~ 150			f = 0.06 ~ 0.2	f = 0.06 ~ 0.25	f = 0.06 ~ 0.27
	GH730	50 ~ 120					
Stainless steels	T9125	80 ~ 150	Profiling (GR□□)	-	ap = 0.5 ~ 1.4	ap = 0.5 ~ 1.5	ap = 0.5 ~ 1.6
	GH730	50 ~ 120			f = 0.05 ~ 0.25	f = 0.05 ~ 0.26	f = 0.05 ~ 0.3
Grey and ductile cast irons	T9125	80 ~ 200	Grooving for Aluminium alloys (GE□□-AL)	0.03 ~ 0.1	0.03 ~ 0.1	0.03 ~ 0.1	-
	GH730	50 ~ 180					
Aluminium alloys, Non-ferrous metals	KS05F	200 ~ 300					

● : Stocked items.

Toolholders

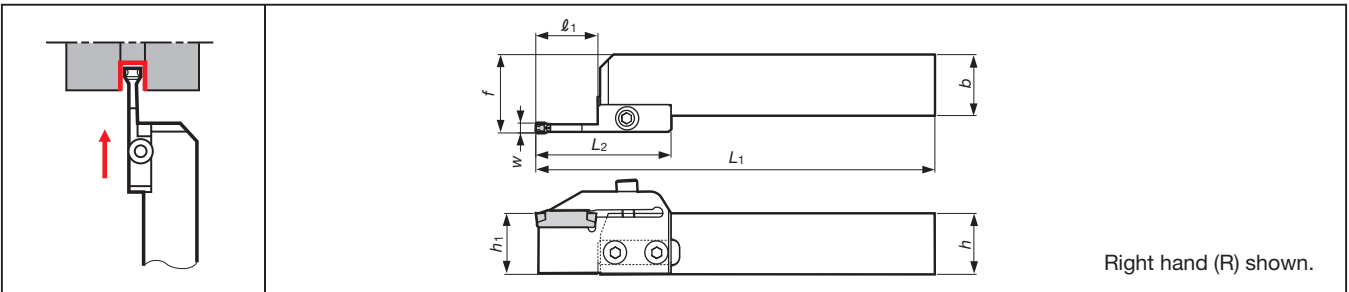
External grooving

CGWS R/L-WG External grooving Blade type



Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						Parts							
		R	L			h ₁	b	h	L ₁	f	l ₁	L ₂	Shank		Blade set				
3	CGWSR/L2020-W30GR/L	●	●	WGE30 WGE30R/L WGT30 WGR30	12	20	20	20	150.5	26.9	13.5	43.5	CGWSR/L2020		●	●	W30G R/L	●	●
	CGWSR/L2525-W30GR/L	●	●			25	25	25		31.9			CGWSR/L2525						
4	CGWSR/L2020-W40GR/L	●	●	WGE40 WGE40R/L WGT40 WGR40	13	20	20	20	151.5	26.9	14.5	44.5	CGWSR/L2020		●	●	W40G R/L	●	
	CGWSR/L2525-W40GR/L	●	●			25	25	25		31.9			CGWSR/L2525						
5	CGWSR/L2020-W50GR/L	●	●	WGE50 WGE50R/L WGT50 WGR50	13	20	20	20	151.5	26.9	14.5	44.5	CGWSR/L2020		●	●	W50G R/L	●	
	CGWSR/L2525-W50GR/L	●	●			25	25	25		31.9			CGWSR/L2525						

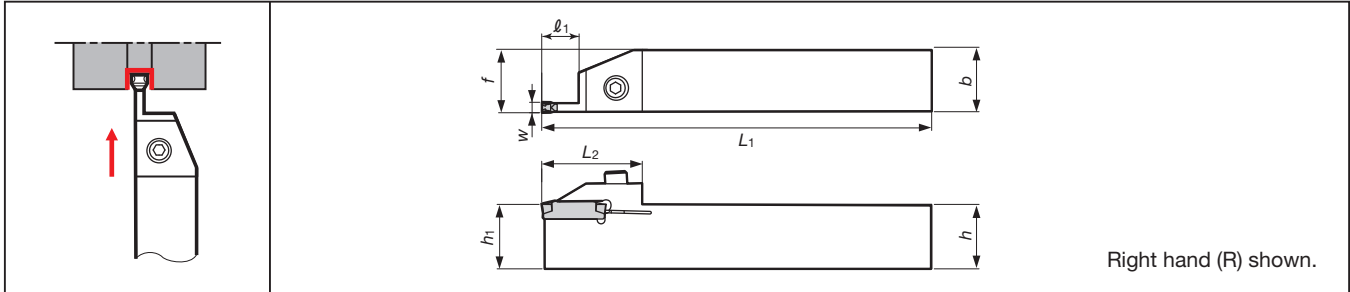
CGWS R/L-WG-L External grooving Blade type



Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						Parts							
		R	L			h ₁	b	h	L ₁	f	l ₁	L ₂	Shank		Blade set				
2	CGWSR/L2020-W20GR/L-L	●	●	WGE20 WGE20R/L	15	20	20	20	153.5	26.7	16.5	46.5	CGWSR/L2020		●	●	W20G R/L-L	●	
	CGWSR/L2525-W20GR/L-L	●	●			25	25	25		31.7			CGWSR/L2525						
3	CGWSR/L2020-W30GR/L-L	●	●	WGE30 WGE30R/L WGT30 WGR30	16.5 16.5 16.5 17.5	20	20	20	157.5	26.9	20.5	50.5	CGWSR/L2020		●	●	W30G R/L-L	●	●
	CGWSR/L2525-W30GR/L-L	●	●			25	25	25		31.9			CGWSR/L2525						
4	CGWSR/L2020-W40GR/L-L	●	●	WGE40 WGE40R/L WGT40 WGR40	21 21 21 21.5	20	20	20	162.5	26.9	25.5	55.5	CGWSR/L2020		●	●	W40G R/L-L	●	
	CGWSR/L2525-W40GR/L-L	●	●			25	25	25		31.9			CGWSR/L2525						
5	CGWSR/L2020-W50GR/L-L	●	●	WGE50 WGE50R/L WGT50 WGR50	21	20	20	20	162.5	26.9	25.5	55.5	CGWSR/L2020		●	●	W50G R/L-L	●	
	CGWSR/L2525-W50GR/L-L	●	●			25	25	25		31.9			CGWSR/L2525						

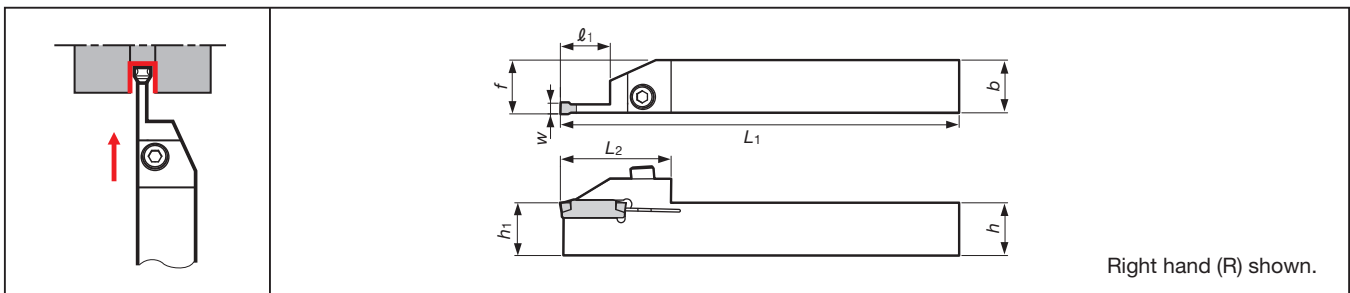
- Notes:
- Max. groove depth may differ by using inserts.
 - When ordering, shank and blade set Cat. No. or shank and blade set are required.
 - When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

● : Stocked items.

CGWS-W
External grooving
Mono block without offset


Right hand (R) shown.

Groove width W (mm)	Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						
		R	L			h_1	b	h	L_1	f	ℓ_1	L_2
3	CGWSR/L1616-W30	●		WGE30 WGE30R/L WGT30 WGR30	12	16	16	16	125	16.4	13.5	34
	CGWSR/L2020-W30	●	●			20	20	20	150	20.4		
	CGWSR/L2525-W30	●				25	25	25	25.4			
4	CGWSR/L2020-W40	●		WGE40 WGE40R/L WGT40 WGR40	13	20	20	20	150	20.4	14.5	39
	CGWSR/L2525-W40	●				25	25	25	25.4			
5	CGWSR/L2020-W50	●	●	WGE50 WGE50R/L WGT50 WGR50	13	20	20	20	150	20.4	14.5	39
	CGWSR/L2525-W50		●			25	25	25	25.4			

CGWS R/L-W-L
External deep grooving
Mono block without offset


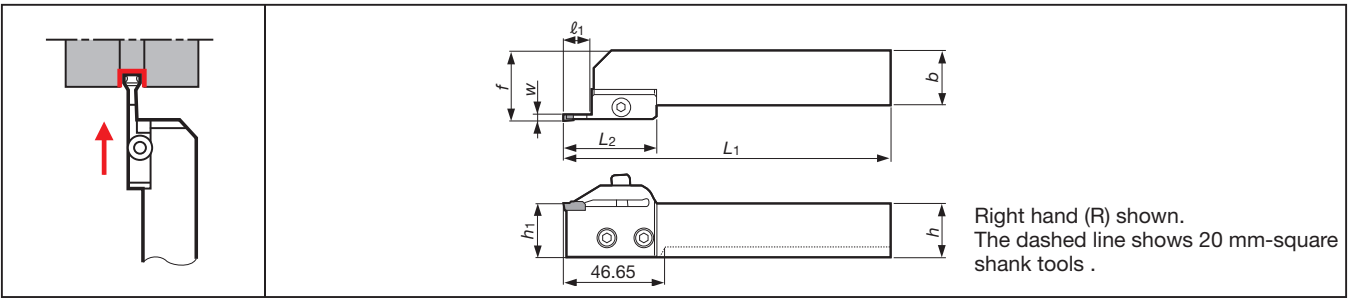
Right hand (R) shown.

Groove width W (mm)	Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						
		R	L			h_1	b	h	L_1	f	ℓ_1	L_2
2	CGWSR/L1616-W20-L	●		WGE20 WGE20R/L	15	16	16	16	125	16.2	16.5	37
	CGWSR/L2020-W20-L	●	●			20	20	20	150	20.2		
	CGWSR/L2525-W20-L	●	●			25	25	25	25.2			
3	CGWSR/L1616-W30-L	●		WGE30 WGE30R/L WGT30 WGR30	16.5 16.5 16.5 17.5	16	16	16	125	16.4	20.5	37
	CGWSR/L2020-W30-L	●	●			20	20	20	150	20.4		
	CGWSR/L2525-W30-L	●	●			25	25	25	25.4			
4	CGWSR/L2020-W40-L	●		WGE40 WGE40R/L WGT40 WGR40	21 21 21 21.5	20	20	20	150	20.4	25.5	42
	CGWSR/L2525-W40-L	●				25	25	25	25.4			
5	CGWSR/L2020-W50-L	●	●	WGE50 WGE50R/L WGT50 WGR50	21	20	20	20	150	20.4	25.5	42
	CGWSR/L2525-W50-L	●	●			25	25	25	25.4			

Note: Max. groove depth may differ by using inserts.

● : Stocked items.

CGWS R/L-G External grooving Toolholders (S: Vertical type)

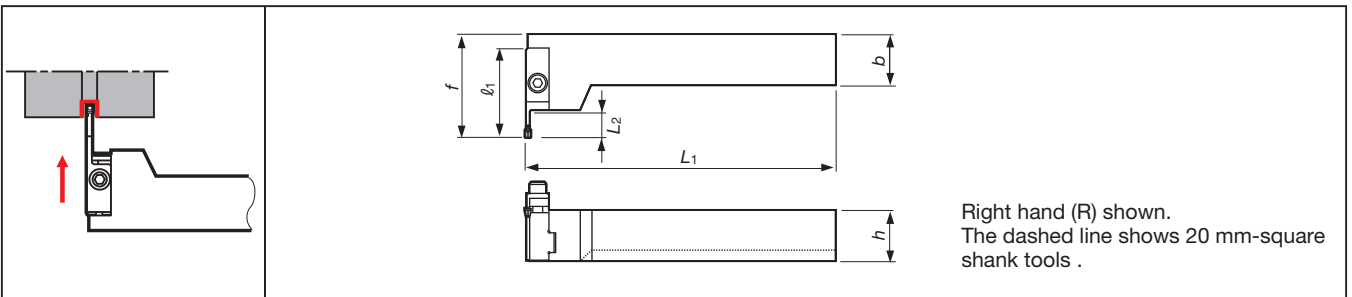


Right hand (R) shown.
The dashed line shows 20 mm-square shank tools .

Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						Parts						
		R	L			h ₁	b	h	L ₁	f	ℓ ₁	L ₂	Shank		Blade set	Stock		
2	CGWSR/L2020-20GR/L	●	●	GE20 GE20-AL	12	20	20	20	150.2	26.8	13.15	43.15	CGWSR/L2020	●	●	20GR/L	●	●
	CGWSR/L2525-20GR/L	●	●			25	25	25		31.8				CGWSR/L2525			●	
3	CGWSR/L2020-30GR/L	●	●	GE30 GE30R/L GT30 GR30 GE30-AL	12	20	20	20	150.2	27	13.15	43.15	CGWSR/L2020	●	●	30GR/L	●	●
	CGWSR/L2525-30GR/L	●	●			25	25	25		32				CGWSR/L2525			●	
4	CGWSR/L2020-40GR/L	●	●	GE40 GE40R/L GT40 GR40 GE40-AL	12	20	20	20	150.2	27.1	13.15	43.15	CGWSR/L2020	●	●	40GR/L	●	●
	CGWSR/L2525-40GR/L	●	●			25	25	25		32.1				CGWSR/L2525			●	
5	CGWSR/L2020-50GR/L	●	●	GE50 GE50R/L GT50 GR50	12	20	20	20	150.2	27.2	13.15	43.15	CGWSR/L2020	●	●	50GR/L	●	●
	CGWSR/L2525-50GR/L	●	●			25	25	25		32.2				CGWSR/L2525			●	

Notes: ● When ordering, shank and blade set Cat. No. or shank and blade set are required.
● When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

CGWT R/L-G External grooving Toolholders (T: Horizontal type)



Right hand (R) shown.
The dashed line shows 20 mm-square shank tools .

Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						Parts					
		R	L			b	h	L ₁	f	ℓ ₁	L ₂	Shank		Blade set	Stock		
3	CGWTR/L2020-30GL/R			GE30 GE30R/L GT30 GR30 GE30-AL	12	20	20	150	49.9	43.15	12.9	CGWTR/L2020	●	●	30GL/R	●	●
	CGWTR/L2525-30GL/R					25	25						CGWTR/L2525			●	
4	CGWTR/L2020-40GL/R			GE40 GE40R/L GT40 GR40 GE40-AL	12	20	20	150.1	49.9	43.15	12.9	CGWTR/L2020	●	●	40GL/R	●	●
	CGWTR/L2525-40GL/R					25	25						CGWTR/L2525			●	
5	CGWTR/L2020-50GL/R			GE50 GE50R/L GT50 GR50	12	20	20	150.2	49.9	43.15	12.9	CGWTR/L2020	●	●	50GL/R	●	●
	CGWTR/L2525-50GL/R					25	25						CGWTR/L2525			●	

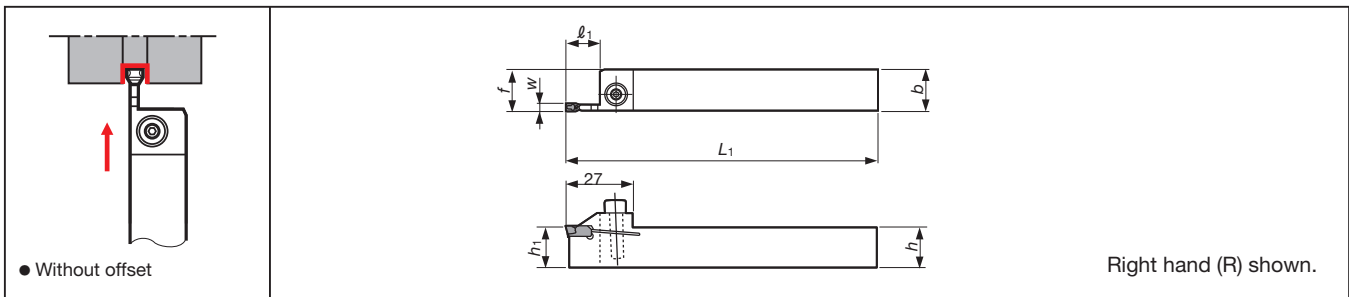
Notes: ● When ordering, shank and blade set Cat. No. or shank and blade set are required.
● When using a right or left hand blade set, the right hand blade set is used with left hand shank and the left hand blade set is used with right hand shank.

● : Stocked items.

CGSS R/L

External grooving

Toolholders (Mono block type)

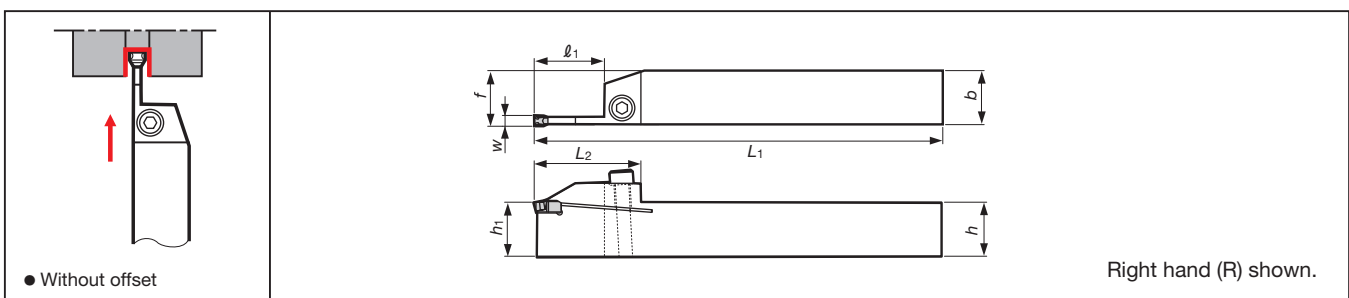


Groove width W (mm)	Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					
		R	L			h ₁	b	h	L ₁	f	l ₁
2	CGSSR/L1616-20	●	●	GE20 GE20-AL	16	16	16	16	125	16.2	17
	CGSSR/L2020-20	●	●			20	20	20			
	CGSSR/L2525-20	●	●			25	25	25	25.2		
3	CGSSR/L1616-30	●	●	GE30 GE30R/L GT30 GR30 GE30-AL	12	16	16	16	125	16.5	13.5
	CGSSR/L2020-30	●	●			20	20	20			
	CGSSR/L2525-30	●	●			25	25	25	25.5		
4	CGSSR/L1616-40			GE40 GE40R/L GT40 GR40 GE40-AL	12	16	16	16	125	16.6	13.5
	CGSSR/L2020-40	●	●			20	20	20			
	CGSSR/L2525-40	●	●			25	25	25	25.6		
5	CGSSR/L1616-50			GE50 GE50R/L GT50 GR50	12	16	16	16	125	16.7	13.5
	CGSSR/L2020-50	●	●			20	20	20			
	CGSSR/L2525-50	●	●			25	25	25	25.7		

CGSS R/L-D

External deep grooving

Toolholders (Mono block type)



Groove width W (mm)	Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)						
		R	L			h ₁	b	h	L ₁	f	l ₁	L ₂
3	CGSSR/L1616-30D	●	●	GE30 GE30R/L GE30-AL	22	16	16	16	125	16.5	23	36.2
	CGSSR/L2020-30D	●	●			20	20	20				
	CGSSR/L2525-30D	●	●			25	25	25	25.5			
4	CGSSR/L1616-40D			GE40 GE40R/L GE40-AL	25	16	16	16	125	16.6	26	39.5
	CGSSR/L2020-40D	●	●			20	20	20				
	CGSSR/L2525-40D	●	●			25	25	25	25.6			
5	CGSSR/L1616-50D			GE50 GE50R/L	25	16	16	16	125	16.7	26	39.5
	CGSSR/L2020-50D	●	●			20	20	20				
	CGSSR/L2525-50D	●	●			25	25	25	25.7			

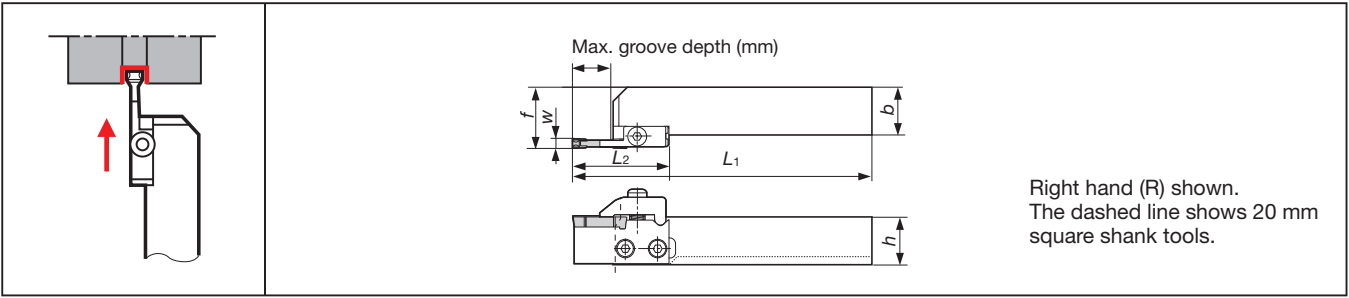
Note: Max. groove depth may differ by using inserts.

● : Stocked items.

CGWS R/L

External grooving

Toolholders (S: Vertical type)



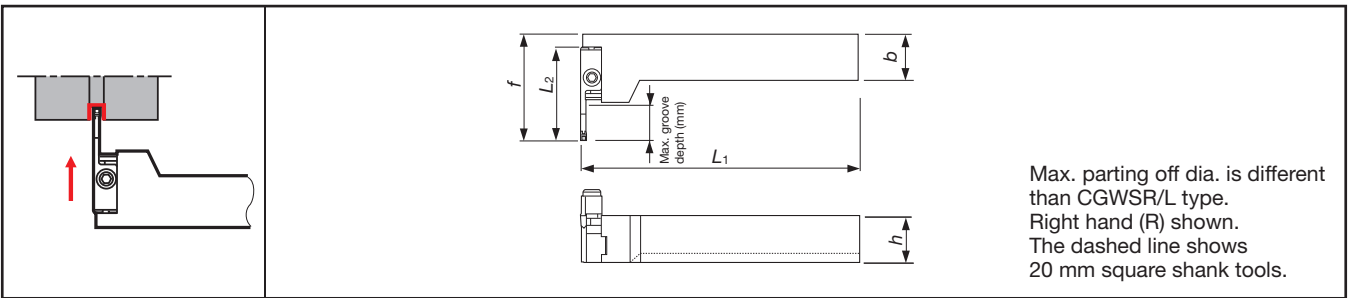
Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Max. parting off dia. (mm)	Dimensions (mm)					Parts				
		R	L				b	h	L ₁	f	L ₂	Shank	Stock R L	Blade set	Stock R L	
2	CGWSR/L2020-CGDR/L2	●	●	CGD200	16	35	20	20	152	26.45	45	CGWSR/L2020	●	●	CGDR/L2	●
	CGWSR/L2525-CGDR/L2		●				25	25		31.45		CGWSR/L2525	●	●		
3	CGWSR/L2020-CGDR/L3		●	CGD300	21.6	46	20	20	157.6	26.45	50.6	CGWSR/L2020	●	●	CGDR/L3	●
	CGWSR/L2525-CGDR/L3	●					25	25		31.45		CGWSR/L2525	●	●		
4	CGWSR/L2020-CGDR/L4	●	●	CGD400	21.6	46	20	20	157.6	26.65	50.6	CGWSR/L2020	●	●	CGDR/L4	●
	CGWSR/L2525-CGDR/L4	●	●				25	25		31.65		CGWSR/L2525	●	●		
5	CGWSR/L2020-CGDR/L5	●	●	CGD500	21.6	46	20	20	157.6	26.95	50.6	CGWSR/L2020	●	●	CGDR/L5	●
	CGWSR/L2525-CGDR/L5		●				25	25		31.95		CGWSR/L2525	●	●		
6	CGWSR/L2020-CGDR/L6	●	●	CGD600	21.6	46	20	20	157.6	27.1	50.6	CGWSR/L2020	●	●	CGDR/L6	●
	CGWSR/L2525-CGDR/L6	●	●				25	25		32.1		CGWSR/L2525	●	●		
7-8	CGWSR/L2525-8	●		CGD700	21.6	50	25	25	150	26.35	-	-			-	
	CGWSR/L3232-8	●					32	32		33.35		-				

- Notes:
- When ordering, shank and blade set Cat. No. or shank and blade set are required.
 - When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

CGWT R/L

External grooving

Toolholders (T: Horizontal type)



Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Max. parting off dia. (mm)	Dimensions (mm)					Parts				
		R	L				b	h	L ₁	f	L ₂	Shank	Stock R L	Blade set	Stock R L	
2	CGWTR/L2020-CGDL/R2			CGD200	13.5	27	20	20	149.4	51.75	45	CGWTR/L2020	●	●	CGDL/R2	●
	CGWTR/L2525-CGDL/R2						25	25				CGWTR/L2525	●	●		
3	CGWTR/L2020-CGDL/R3			CGD300	19.5	39	20	20	149.4	57.35	50.6	CGWTR/L2020	●	●	CGDL/R3	●
	CGWTR/L2525-CGDL/R3						25	25				CGWTR/L2525	●	●		
4	CGWTR/L2020-CGDL/R4			CGD400	19.5	39	20	20	149.6	57.35	50.6	CGWTR/L2020	●	●	CGDL/R4	●
	CGWTR/L2525-CGDL/R4						25	25				CGWTR/L2525	●	●		
5	CGWTR/L2020-CGDL/R5			CGD500	19.5	39	20	20	149.9	57.35	50.6	CGWTR/L2020	●	●	CGDL/R5	●
	CGWTR/L2525-CGDL/R5						25	25				CGWTR/L2525	●	●		
6	CGWTR/L2020-CGDL/R6			CGD600	19.5	39	20	20	150.1	57.35	50.6	CGWTR/L2020	●	●	CGDL/R6	●
	CGWTR/L2525-CGDL/R6						25	25				CGWTR/L2525	●	●		

- Notes:
- When ordering, shank and blade set Cat. No. or shank and blade set are required.
 - When using a right or left hand blade set, the right hand blade set is used with left hand shank and the left hand blade set is used with right hand shank.

● : Stocked items.

Applicable inserts

	Dimensions (mm)				Cat. No.	Grades		
	w±0.025	L	T	rε		Coated	Cermet	Uncoated
						GH330	NS9530	UX30
	2	20	3.25	0.2	CGD200	●	★	●
	3	28.6	6.3		CGD300	●	★	●
	4				CGD400	●	★	●
	5				CGD500	●	★	●
	6	8.5			CGD600	●	★	●
	7				CGD700	●	★	●
	8				CGD800	●	★	●

Note: Please contact us when ordering special sizes (2.0 - 8.5 mm).

Packing : 5 pcs.

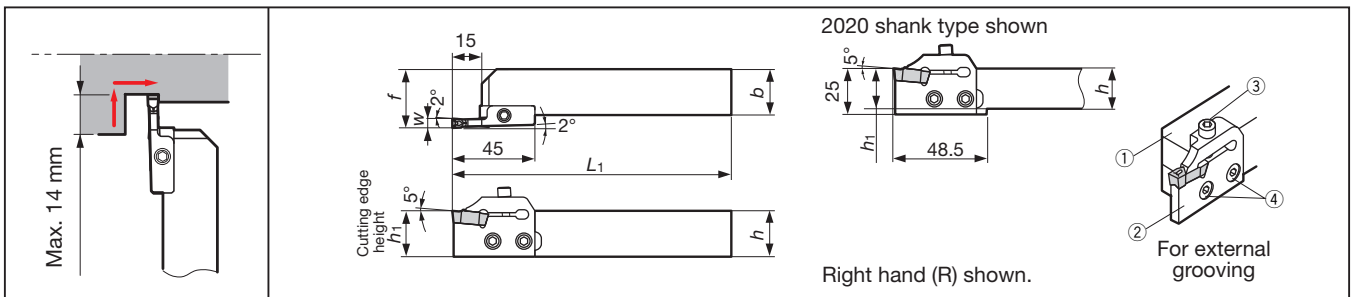
Parts

	Cat. No.	Parts						Applicable insert
		Blade	Clamp	Clamping screw	Spring pin	Spring	Wrench	
	CGDR/L2	TCR/L2	CCR/L2	CSHB-6 (2 pieces) RT-1 (1 piece)	-	BP-9	P-4	CGD200
	CGDR/L3	TCR/L3	CCR/L3					CGD300
	CGDR/L4	TCR/L4	CCR/L4					CGD400
	CGDR/L5	TCR/L5	CCR/L5					CGD500
	CGDR/L6	TCR/L6	CCR/L6					CGD600
	CGWSR/L2525-8	-	CCR/L8					CHHM6-20
	CGWSR/L3232-8							CGD800

Standard cutting conditions

Operation	Cutting speed v _c (m/min)	Groove width: W (mm)						
		Feed: f (mm/rev)						
		2	3	4	5	6	7	8
Grooving Low carbon steels	100 ~ 200	0.08 ~ 0.20	0.08 ~ 0.25	0.08 ~ 0.25	0.08 ~ 0.25	0.08 ~ 0.25	0.08 ~ 0.25	0.08 ~ 0.25
Grooving Medium carbon steels				0.08 ~ 0.30	0.08 ~ 0.30	0.08 ~ 0.30	0.08 ~ 0.30	0.08 ~ 0.30
Parting off	100 ~ 150	0.08 ~ 0.15	0.08 ~ 0.15	0.08 ~ 0.15	0.08 ~ 0.15	0.08 ~ 0.15	0.08 ~ 0.15	0.08 ~ 0.15

CGWS R/L External grooving Toolholders (S: Vertical type)



Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					Parts					
		R	L			h ₁	b	h	L ₁	f	Shank		Blade set		Stock	
3	CGWSR/L2020-FLR/L3GP	●	●	FLEX30R/L	10	20	20	20	152	27	CGWSR/ L2020	●	●	FLR/L3GP	●	
4	CGWSR/L2020-FLR/L4GP			FLEX40R/L	12									FLR/L4GP	●	●
5	CGWSR/L2020-FLR/L5GP			FLEX50R/L	14									FLR/L5GP	●	●
3	CGWSR/L2525-FLR/L3GP	●	●	FLEX30R/L	10	25	25	25	152	32	CGWSR/ L2525	●	●	FLR/L3GP	●	
4	CGWSR/L2525-FLR/L4GP			FLEX40R/L	12									FLR/L4GP	●	●
5	CGWSR/L2525-FLR/L5GP			FLEX50R/L	14									FLR/L5GP	●	●

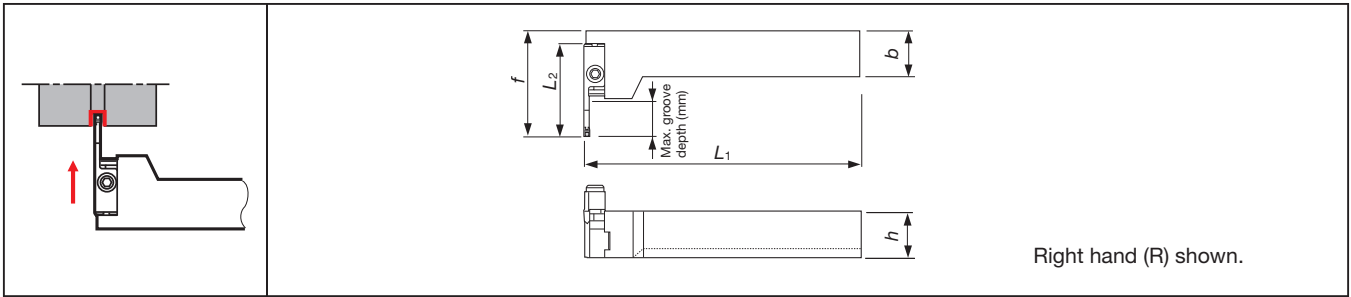
Notes: ● When ordering, shank and blade set Cat. No. or shank and blade set are required.
● When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

● : Stocked items.

CGWT R/L

External grooving

Toolholders (T: Horizontal type)



Right hand (R) shown.

Groove width W (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					Parts							
		R	L			b	h	L ₁	f	L ₂	Shank		Blade set					
3	CGWTR/L2020-FLL/R3GP			FLEX30L/R	10	20	20	150	52	45	CGWTR/L2020		FLL/R3GP		●			
4	CGWTR/L2020-FLL/R4GP			FLEX40L/R	12								FLL/R4GP		●	●	●	
5	CGWTR/L2020-FLL/R5GP			FLEX50L/R	14								FLL/R5GP		●	●	●	
3	CGWTR/L2525-FLL/R3GP			FLEX30L/R	10						CGWTR/L2525		FLL/R3GP		●	●	●	
4	CGWTR/L2525-FLL/R4GP			FLEX40L/R	12								FLL/R4GP		●	●	●	
5	CGWTR/L2525-FLL/R5GP			FLEX50L/R	14								FLL/R5GP		●	●	●	

- Notes:
- When ordering, shank and blade set Cat. No. or shank and blade-set are required.
 - When using a right or left hand blade set, the right hand blade set is used with left hand shank and the left hand blade set is used with right hand shank.

Applicable inserts

	Dimensions (mm)			Hand	Cat. No.	Grades			
	W	r _ε	W ₁			Coated	Cermet	Uncoated	
						T9125	NS9530	UX30	
3	0.4	2.15	R	FLEX30R		★			
			L	FLEX30L		★			
4	0.4	3.1	R	FLEX40R		★			
			L	FLEX40L		★			
5	0.4	4	R	FLEX50R	●	★	●		
			L	FLEX50L	●	★	●		

Note: When using a right or left insert, the right hand insert is used with right hand blade set and the left hand insert is used with left hand blade set.

Parts

	Cat. No.	Clamping screw	Blade fixing screw	Wrench	
		③		④	
		CGWSR/L□□□□-FLR/L□GP	CHHM5-18	C SHB-6	P-4
CGWTR/L□□□□-FLL/R□GP					

● : Stocked items.

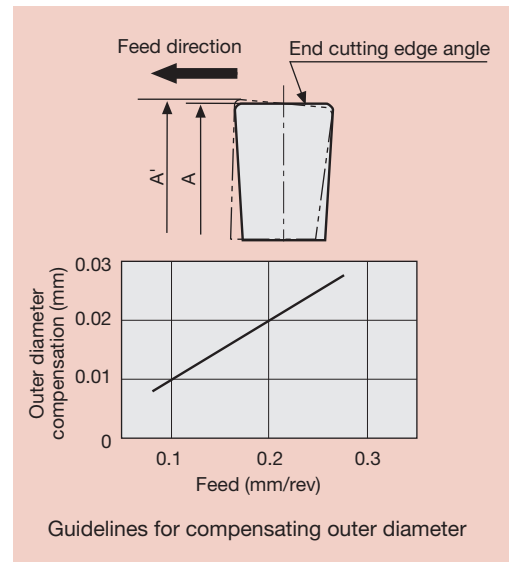
Standard cutting conditions

Insert grades		Insert Cat. No.	Grooving		Lateral feed machining			Coolant
			Cutting speed v_c (m/min)	Feed f (mm/rev)	Cutting speed v_c (m/min)	Feed f (mm/rev)	Depth of cut a_p (mm)	
T9125	Coated	FLEX50R/L	80 ~ 150	0.05 ~ 0.3	80 ~ 250	0.1 ~ 0.3	1.0 ~ 2.5	Necessary
NS9530	Cermet	FLEX30R/L	80 ~ 200	0.05 ~ 0.2	80 ~ 200	0.1 ~ 0.2	0.8 ~ 1.5	
		FLEX40R/L		0.05 ~ 0.25			0.8 ~ 2.0	
		FLEX50R/L		0.05 ~ 0.3		0.1 ~ 0.3	1.0 ~ 2.5	
UX30	Uncoated	FLEX50R/L	60 ~ 150	0.05 ~ 0.3	60 ~ 150	0.1 ~ 0.3	1.0 ~ 2.5	

- Notes:
- The cutting conditions given above are based on cutting medium carbon steel (S48C, 200HB).
 - When the 20 mm square shank tools are used, machining should be performed at approximately 80% of the values shown above.

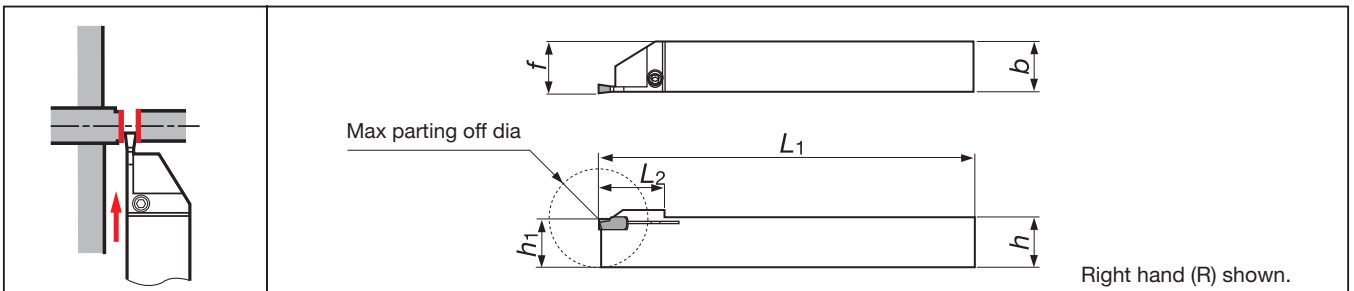
Cautionary Notes

- When performing OD machining, the tool point must be set at a right angle to the axial direction of the work.
- When replacing an insert, the replacement should be made only after completely removing any chips or other foreign matter from the tool clamping area on the holder by using compressed air, etc.
- Never tighten the insert mounting screws when an insert has not been installed since doing so can deform the screws and prevent the future installation of an insert.
- Flex-Tool has a mechanism in which the end cutting edge angle is formed by accepting a cutting force. In external grooving, there is a possibility that if the cutting conditions (feed and depth of cut) are set too high, the programmed diameter will not be achieved. To prevent this problem, it is necessary to perform a compensation in the program by an amount that is equal to the amount A'-A that is shown in the drawing on the right. The values of compensation corresponding to the feeds are also shown in the graph.



Parting off

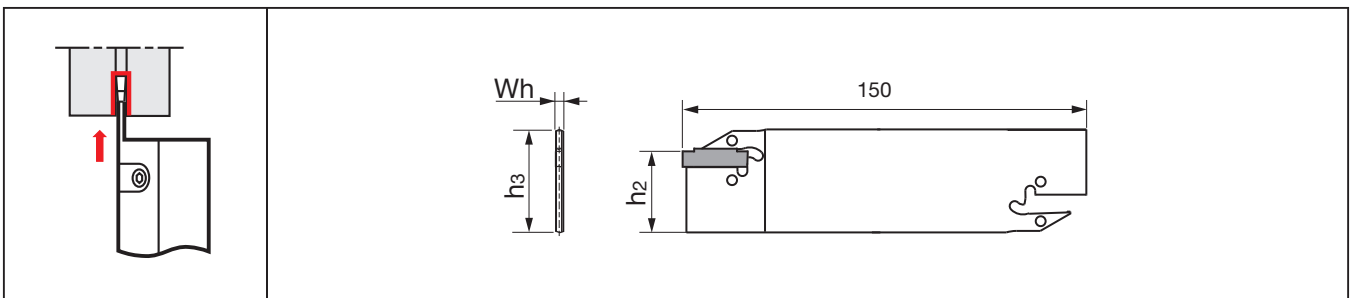
JCGSS R/L Parting off Toolholders for parting off on small lathes



Groove width W (mm)	Cat. No.	Stock		Applicable inserts	Max. parting off dia. (mm)	Dimensions (mm)					
		R	L			b	h	h ₁	L ₁	f	L ₂
2	JCGSSR/L1010-20	●	●	GE20 GE20-AL	20	10	10	10	125	10.2	15
	JCGSSR/L1212-20	●	●		25	12	12	12		12.2	19
	JCGSSR/L1616-20	●	●		32	16	16	16		16.2	22.5

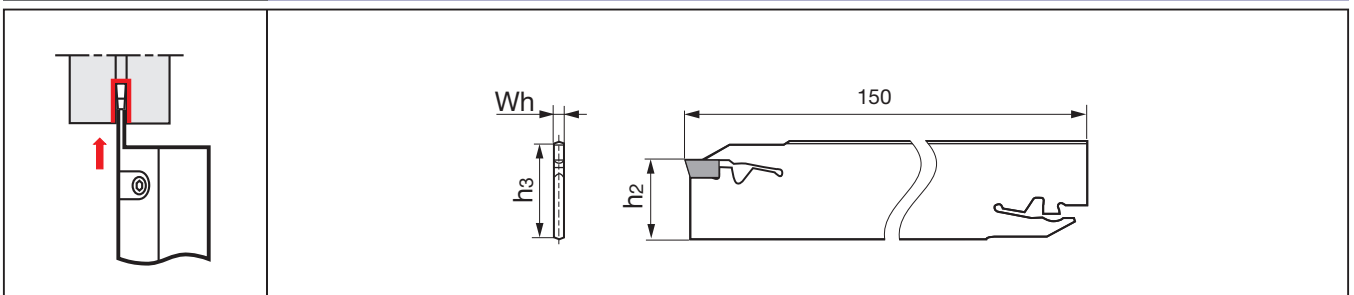
NEW

CCH-W Parting off Blades for parting off (2 corner)



Groove width W (mm)	Cat. No.	Stock	Applicable inserts	Max. parting off dia. (mm)	Dimensions (mm)		
					Wh	h ₂	h ₃
2	CCH32-W20	●	WGE20 WGE20R/L	33	1.6	24.6	(32)
3	CCH32-W30	●	WG*30 WGE30R/L	33	2.2	24.6	(32)
4	CCH32-W40	●	WG*40 WGE40R/L	42	3.2	24.5	(32)
5	CCH32-W50	●	WG*50 WGE50R/L	42	4.2	24.3	(32)

CCH Parting off Blades for parting off (1 corner)



Groove width W (mm)	Cat. No.	Stock	Applicable inserts	Max. parting off dia. (mm)	Dimensions (mm)		
					Wh	h ₂	h ₃
3	CCH32-30	●	GE30 GE30R/L GE30-AL	100	2.2	24.6	(32)
4	CCH32-40	●	GE40 GE40R/L GE40-AL	100	3.2	24.5	(32)
5	CCH32-50	●	GE50 GE50R/L	120	4.2	24.3	(32)

● : Stocked items.

Tool blocks

Cat. No.	Stock	Suitable blade	Overhang ad (mm)	Dimensions (mm)			
				h ₁	ℓ	h	h ₀
CCBS20-32	●	CCH32-W□□ CCH32-□□	Groove width W = 3 ~ 4: 50 W = 5: 60	20	38	20	13
CCBS25-32	●			25		25	8
CCBS32-32	●			32	32	5	

Parts

Cat. No.	Clamping screw	Wrench	Cat. No.	Wedge	Screw	Wrench for screw	Wrench for blade	Wrench
	JCGSSR/L□□□□-□□	CSTB-3		T-9F	CCH□□-W□□	-	-	-
			CCH□□-□□	-	-	-	CTL-2	-
			CCBS□□-□□	CC-32	CM6×2	P-5	-	-

* Wrench (CRW33) should be ordered separately.

Standard cutting conditions

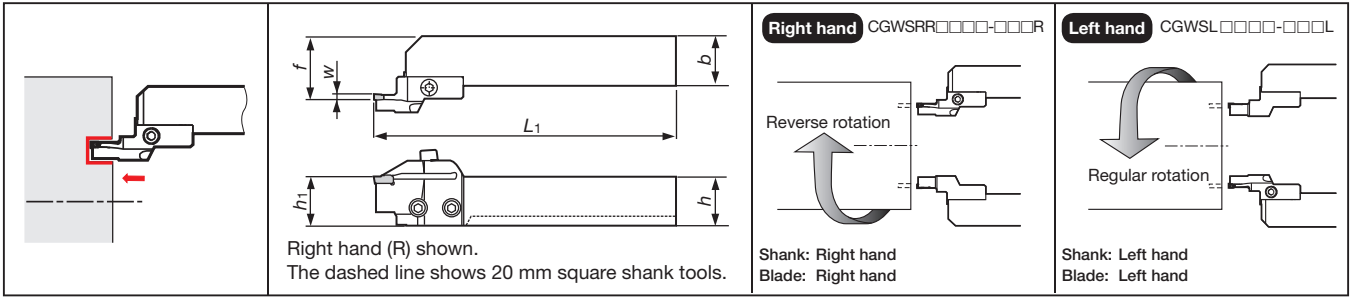
Work materials	Recommended grade	Cutting speed v _c (m/min)	Operation	Feed: f (mm/rev)			
				Groove width: W (mm)			
				2	3	4	5
Low carbon steels Alloy steels (~ 150HB)	T9125	80 ~ 200	Parting off (GE□□R/L)	-	0.04 ~ 0.14	0.04 ~ 0.14	0.04 ~ 0.14
	NS9530	100 ~ 200					
Medium carbon steels Alloy steels (150 ~ 250HB)	GH730	50 ~ 180	Grooving, Parting off (GE□□)	0.05 ~ 0.14	0.05 ~ 0.15	0.05 ~ 0.16	0.05 ~ 0.17
	T9125	80 ~ 180					
	NS9530	80 ~ 180					
High carbon steels Alloy steels (250HB ~)	GH730	50 ~ 150	Grooving, Parting off for Aluminium alloys (GE□□-AL)	0.03 ~ 0.1	0.03 ~ 0.1	0.03 ~ 0.1	
	T9125	80 ~ 150					
	NS9530	80 ~ 150					
Stainless steels	GH730	50 ~ 120					
	T9125	80 ~ 200					
Grey and ductile cast irons	GH730	50 ~ 180					
	T9125	80 ~ 200					
Aluminium alloys, Non-ferrous metals	KS05F	200 ~ 300					

Face grooving

CGWS R/L

Face grooving

Toolholders (S: Vertical type)



Groove width W (mm)	Min. bore dia. ϕD (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					Shank	Parts				
			R	L			h_1	b	h	L_1	f		Stock R	Stock L	Blade set	Stock R	Stock L
3	30 ~ 40	CGWSR/L2020-30S3040R/L			GE30	10	20	20	20	152.5	27	CGWSR/L2020	●	●	30S3040R/L	●	●
	40 ~ 50	CGWSR/L2020-30S4050R/L											30S4050R/L	●	●		
	50 ~ 65	CGWSR/L2020-30S5065R/L											30S5065R/L	●	●		
	65 ~ 90	CGWSR/L2020-30S6590R/L											30S6590R/L	●	●		
	90 ~ 150	CGWSR/L2020-30S90150R/L											30S90150R/L	●	●		
	150 ~ 500	CGWSR/L2020-30S150500R/L											30S150500R/L	●	●		
	30 ~ 40	CGWSR/L2525-30S3040R/L			GE30- AL	10	25	25	25	152.5	32	CGWSR/L2525	●	●	30S3040R/L	●	●
	40 ~ 50	CGWSR/L2525-30S4050R/L											30S4050R/L	●	●		
	50 ~ 65	CGWSR/L2525-30S5065R/L											30S5065R/L	●	●		
	65 ~ 90	CGWSR/L2525-30S6590R/L											30S6590R/L	●	●		
	90 ~ 150	CGWSR/L2525-30S90150R/L											30S90150R/L	●	●		
	150 ~ 500	CGWSR/L2525-30S150500R/L											30S150500R/L	●	●		
	30 ~ 40	CGWSR/L2020-30D3040R/L			GE30	14	20	20	20	160.5	27	CGWSR/L2020	●	●	30D3040R/L		
	40 ~ 50	CGWSR/L2020-30D4050R/L											30D4050R/L				
	50 ~ 65	CGWSR/L2020-30D5065R/L											30D5065R/L				
	65 ~ 90	CGWSR/L2020-30D6590R/L											30D6590R/L				
	90 ~ 150	CGWSR/L2020-30D90150R/L											30D90150R/L				
	150 ~ 500	CGWSR/L2020-30D150500R/L											30D150500R/L				
	30 ~ 40	CGWSR/L2525-30D3040R/L			GE30- AL	14	25	25	25	160.5	32	CGWSR/L2525	●	●	30D3040R/L		
	40 ~ 50	CGWSR/L2525-30D4050R/L											30D4050R/L				
50 ~ 65	CGWSR/L2525-30D5065R/L			30D5065R/L													
65 ~ 90	CGWSR/L2525-30D6590R/L			30D6590R/L													
90 ~ 150	CGWSR/L2525-30D90150R/L			30D90150R/L													
150 ~ 500	CGWSR/L2525-30D150500R/L			30D150500R/L													
4	35 ~ 45	CGWSR/L2020-40S3545R/L			GE40	14	20	20	20	152.5	27	CGWSR/L2020	●	●	40S3545R/L	●	
	45 ~ 55	CGWSR/L2020-40S4555R/L											40S4555R/L		●		
	55 ~ 80	CGWSR/L2020-40S5580R/L											40S5580R/L		●		
	80 ~ 140	CGWSR/L2020-40S80140R/L											40S80140R/L		●		
	140 ~ 500	CGWSR/L2020-40S140500R/L											40S140500R/L		●		

Notes: ● When ordering, shank and blade set are required.
● When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

● : Stocked items.

Groove width W (mm)	Min. bore dia. ϕD (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					Parts																
			R	L			h_1	b	h	L_1	f	Shank	Stock		Blade set		Stock											
													R	L	R	L	R	L										
4	35 ~ 45	CGWSR/L2525-40S3545R/L			GE40	14	25	25	25	152.5	32	CGWSR/L2525	●	●	40S3545R/L	●	●											
	45 ~ 55	CGWSR/L2525-40S4555R/L			GF40										40S4555R/L	●	●											
	55 ~ 80	CGWSR/L2525-40S5580R/L			GT40										40S5580R/L	●	●											
	80 ~ 140	CGWSR/L2525-40S80140R/L			GR40										40S80140R/L	●	●											
	140 ~ 500	CGWSR/L2525-40S140500R/L			GE40-AL										40S140500R/L	●	●											
	35 ~ 45	CGWSR/L2020-40D3545R/L			GE40	22	20	20	20	160.5	27	CGWSR/L2020	●	●	40D3545R/L	●	●											
	45 ~ 55	CGWSR/L2020-40D4555R/L													GF40	40D4555R/L												
	55 ~ 80	CGWSR/L2020-40D5580R/L													GT40	40D5580R/L	●	●										
	80 ~ 140	CGWSR/L2020-40D80140R/L													GR40	40D80140R/L	●	●										
	140 ~ 500	CGWSR/L2020-40D140500R/L													GE40-AL	40D140500R/L	●	●										
	35 ~ 45	CGWSR/L2525-40D3545R/L			GE40-AL										22	25	25	25	160.5	32	CGWSR/L2525	●	●	40D3545R/L	●	●		
	45 ~ 55	CGWSR/L2525-40D4555R/L																						GR40	40D4555R/L			
	55 ~ 80	CGWSR/L2525-40D5580R/L																						GT40	40D5580R/L	●	●	
	80 ~ 140	CGWSR/L2525-40D80140R/L																						GR40	40D80140R/L	●	●	
	140 ~ 500	CGWSR/L2525-40D140500R/L																						GE40-AL	40D140500R/L	●	●	
	5	35 ~ 45	CGWSR/L2020-50S3545R/L			GE50	14	20	20	20	152.5	27	CGWSR/L2020	●										●	50S3545R/L	●	●	
		45 ~ 55	CGWSR/L2020-50S4555R/L																						GF50	50S4555R/L	●	●
		55 ~ 75	CGWSR/L2020-50S5575R/L																						GT50	50S5575R/L		
75 ~ 130		CGWSR/L2020-50S75130R/L			GR50																				50S75130R/L	●	●	
130 ~ 500		CGWSR/L2020-50S130500R/L			GE50																				50S130500R/L			
35 ~ 45		CGWSR/L2525-50S3545R/L			GE50	22									25	25	25	152.5	32	CGWSR/L2525	●	●	50S3545R/L		●	●		
45 ~ 55		CGWSR/L2525-50S4555R/L																					GF50		50S4555R/L	●	●	
55 ~ 75		CGWSR/L2525-50S5575R/L																					GT50		50S5575R/L			
75 ~ 130		CGWSR/L2525-50S75130R/L																					GR50		50S75130R/L	●	●	
130 ~ 500		CGWSR/L2525-50S130500R/L																					GE50		50S130500R/L			
35 ~ 45		CGWSR/L2020-50D3545R/L			GE50		22	20	20	20	160.5	27	CGWSR/L2020	●									●	50D3545R/L				
45 ~ 55		CGWSR/L2020-50D4555R/L																						GF50	50D4555R/L	●	●	
55 ~ 75		CGWSR/L2020-50D5575R/L																						GT50	50D5575R/L	●	●	
75 ~ 130		CGWSR/L2020-50D75130R/L																						GR50	50D75130R/L			
130 ~ 500		CGWSR/L2020-50D130500R/L																						GE50	50D130500R/L	●	●	
35 ~ 45		CGWSR/L2525-50D3545R/L			GE50	22									25	25	25	160.5	32	CGWSR/L2525	●	●		50D3545R/L				
45 ~ 55		CGWSR/L2525-50D4555R/L																						GF50	50D4555R/L	●	●	
55 ~ 75		CGWSR/L2525-50D5575R/L																						GT50	50D5575R/L	●	●	
75 ~ 130	CGWSR/L2525-50D75130R/L			GR50																				50D75130R/L				
130 ~ 500	CGWSR/L2525-50D130500R/L			GE50																				50D130500R/L	●	●		

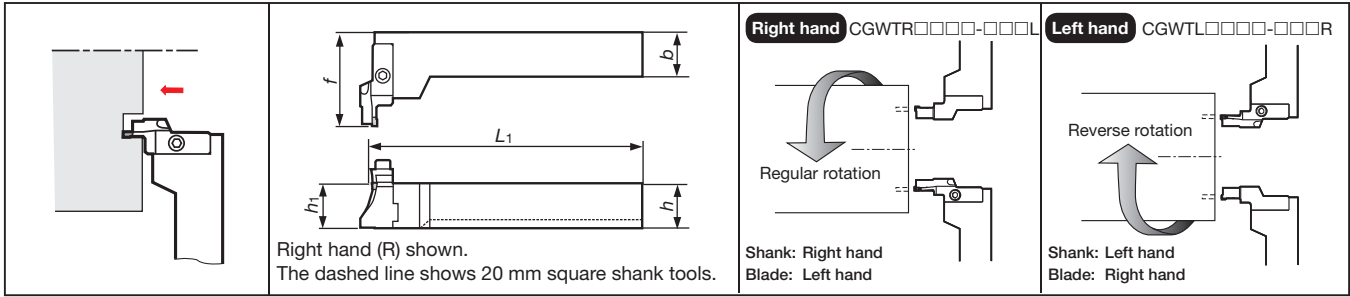
Notes: ● When ordering, shank and blade set are required.
 ● When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

● : Stocked items.

CGWS R/L

Face grooving

Toolholders (T: Horizontal type)



Groove width W (mm)	Min. bore dia. ϕD (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					Parts						
			R	L			h_1	b	h	L_1	f	Shank	Stock		Blade set		Stock	
													R	L	R	L	R	L
3	30 ~ 40	CGWTR/L2020-30S3040L/R			GE30	10	20	20	20	150	52.25	CGWTR/L2020	●	●	30S3040L/R	●	●	
	40 ~ 50	CGWTR/L2020-30S4050L/R													30S4050L/R	●	●	
	50 ~ 65	CGWTR/L2020-30S5065L/R													30S5065L/R	●	●	
	65 ~ 90	CGWTR/L2020-30S6590L/R													30S6590L/R	●	●	
	90 ~ 150	CGWTR/L2020-30S90150L/R													30S90150L/R	●	●	
	150 ~ 500	CGWTR/L2020-30S150500L/R													30S150500L/R	●	●	
	30 ~ 40	CGWTR/L2525-30S3040L/R			GE30-AL	10	25	25	25	150	52.25	CGWTR/L2525	●	●	30S3040L/R	●	●	
	40 ~ 50	CGWTR/L2525-30S4050L/R													30S4050L/R	●	●	
	50 ~ 65	CGWTR/L2525-30S5065L/R													30S5065L/R	●	●	
	65 ~ 90	CGWTR/L2525-30S6590L/R													30S6590L/R	●	●	
	90 ~ 150	CGWTR/L2525-30S90150L/R													30S90150L/R	●	●	
	150 ~ 500	CGWTR/L2525-30S150500L/R													30S150500L/R	●	●	
	30 ~ 40	CGWTR/L2020-30D3040L/R			GE30	14	20	20	20	150	60.25	CGWTR/L2020	●	●	30D3040L/R			
	40 ~ 50	CGWTR/L2020-30D4050L/R													30D4050L/R			
	50 ~ 65	CGWTR/L2020-30D5065L/R													30D5065L/R			
	65 ~ 90	CGWTR/L2020-30D6590L/R													30D6590L/R			
	90 ~ 150	CGWTR/L2020-30D90150L/R													30D90150L/R			
	150 ~ 500	CGWTR/L2020-30D150500L/R													30D150500L/R			
	30 ~ 40	CGWTR/L2525-30D4050L/R			GE30-AL	14	25	25	25	150	60.25	CGWTR/L2525	●	●	30D3040L/R			
	40 ~ 50	CGWTR/L2525-30D4050L/R													30D4050L/R			
50 ~ 65	CGWTR/L2525-30D5065L/R			30D5065L/R														
65 ~ 90	CGWTR/L2525-30D6590L/R			30D6590L/R														
90 ~ 150	CGWTR/L2525-30D90150L/R			30D90150L/R														
150 ~ 500	CGWTR/L2525-30D150500L/R			30D150500L/R														
4	35 ~ 45	CGWTR/L2020-40S3545L/R			GE40	14	20	20	20	150	52.25	CGWTR/L2020	●	●	40S3545L/R	●		
	45 ~ 55	CGWTR/L2020-40S4555L/R			GF40										40S4555L/R	●		
	55 ~ 80	CGWTR/L2020-40S5580L/R			GT40										40S5580L/R	●		
	80 ~ 140	CGWTR/L2020-40S80140L/R			GR40										40S80140L/R	●		
	140 ~ 500	CGWTR/L2020-40S140500L/R			GE40-AL										40S140500L/R	●		

Notes: ● When ordering, shank and blade set are required.
 ● When using a right or left hand blade set, the right hand blade set is used with left hand shank and the left hand blade set is used with right hand shank.




● : Stocked items.

Groove width W (mm)	Min. bore dia. ϕD (mm)	Shank and blade set Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)					Parts						
			R	L			h_1	b	h	L_1	f	Shank	Stock		Blade set		Stock	
													R	L	R	L	R	L
4	35 ~ 45	CGWTR/L2525-40S3545L/R			GE40	14	25	25	25	150	52.25	CGWTR/L2525	●	●	40S3545L/R	●	●	
	45 ~ 55	CGWTR/L2525-40S4555L/R			GF40										40S4555L/R	●	●	
	55 ~ 80	CGWTR/L2525-40S5580L/R			GT40										40S5580L/R	●	●	
	80 ~ 140	CGWTR/L2525-40S80140L/R			GR40										40S80140L/R	●	●	
	140 ~ 500	CGWTR/L2525-40S140500L/R			GE40-AL										40S140500L/R	●	●	
	35 ~ 45	CGWTR/L2020-40D3545L/R			GE40	22	20	20	20	150	60.25	CGWTR/L2020	●	●	40D3545L/R	●	●	
	45 ~ 55	CGWTR/L2020-40D4555L/R													GF40	40D4555L/R		
	55 ~ 80	CGWTR/L2020-40D5580L/R													GT40	40D5580L/R	●	●
	80 ~ 140	CGWTR/L2020-40D80140L/R													GR40	40D80140L/R	●	●
	140 ~ 500	CGWTR/L2020-40D140500L/R													GE40-AL	40D140500L/R	●	●
35 ~ 45	CGWTR/L2525-40D3545L/R			GE40-AL	22	25	25	25	150	60.25	CGWTR/L2525	●	●	40D3545L/R	●	●		
45 ~ 55	CGWTR/L2525-40D4555L/R													40D4555L/R				
55 ~ 80	CGWTR/L2525-40D5580L/R													40D5580L/R	●	●		
80 ~ 140	CGWTR/L2525-40D80140L/R													40D80140L/R	●	●		
140 ~ 500	CGWTR/L2525-40D140500L/R													40D140500L/R	●	●		
5	35 ~ 45	CGWTR/L2020-50S3545L/R			GE50	14	20	20	20	150	52.25	CGWTR/L2020	●	●	50S3545L/R	●	●	
	45 ~ 55	CGWTR/L2020-50S4555L/R													GF50	50S4555L/R	●	●
	55 ~ 75	CGWTR/L2020-50S5575L/R													GT50	50S5575L/R		
	75 ~ 130	CGWTR/L2020-50S75130L/R													GR50	50S75130L/R	●	●
	130 ~ 500	CGWTR/L2020-50S130500L/R													50S130500L/R			
	35 ~ 45	CGWTR/L2525-50S3545L/R			GE50	22	25	25	25	150	52.25	CGWTR/L2525	●	●	50S3545L/R	●	●	
	45 ~ 55	CGWTR/L2525-50S4555L/R													GF50	50S4555L/R	●	●
	55 ~ 75	CGWTR/L2525-50S5575L/R													GT50	50S5575L/R		
	75 ~ 130	CGWTR/L2525-50S75130L/R													GR50	50S75130L/R	●	●
	130 ~ 500	CGWTR/L2525-50S130500L/R													50S130500L/R			
35 ~ 45	CGWTR/L2020-50D3545L/R			GE50	22	20	20	20	150	60.25	CGWTR/L2020	●	●	50D3545L/R				
45 ~ 55	CGWTR/L2020-50D4555L/R													GF50	50D4555L/R	●	●	
55 ~ 75	CGWTR/L2020-50D5575L/R													GT50	50D5575L/R	●	●	
75 ~ 130	CGWTR/L2020-50D75130L/R													GR50	50D75130L/R			
130 ~ 500	CGWTR/L2020-50D130500L/R													50D130500L/R	●	●		
35 ~ 45	CGWTR/L2525-50D3545L/R			GE50	22	25	25	25	150	60.25	CGWTR/L2525	●	●	50D3545L/R				
45 ~ 55	CGWTR/L2525-50D4555L/R													GF50	50D4555L/R	●	●	
55 ~ 75	CGWTR/L2525-50D5575L/R													GT50	50D5575L/R	●	●	
75 ~ 130	CGWTR/L2525-50D75130L/R													GR50	50D75130L/R			
130 ~ 500	CGWTR/L2525-50D130500L/R													50D130500L/R	●	●		

Notes: ● When ordering, shank and blade set are required.
● When using a right or left hand blade set, the right hand blade set is used with left hand shank and the left hand blade set is used with right hand shank.

● : Stocked items.

Parts

Cat. No.	Clamping screw	Blade fixing screw	Wrench
			
CGWTR/L□□□□- □□S/D□□□□L/R	S:CHHM5-18 D:CM5x0.8x16	CSHB-6	P-4

Example: CGWTR2020-30 **S** 3040L
 ↓
S:CHHM5-18
D:CM5x0.8x16

Standard cutting conditions

Work materials	Recommended grade	Cutting speed v_c (m/min)	Operation	Feed: f (mm/rev)		
				Groove width: W (mm)		
				3	4	5
Low carbon steels	T9125	80 ~ 200	Face grooving (GE□□)	0.06 ~ 0.22	0.06 ~ 0.24	0.07 ~ 0.26
	NS9530	100 ~ 200				
Alloy steels (~ 150HB)	GH730	50 ~ 180	Face grooving (GF□□)	0.04 ~ 0.25	0.05 ~ 0.26	0.05 ~ 0.30
	T9125	80 ~ 180				
Medium carbon steels	NS9530	80 ~ 180	Face traversing (GT□□)	$ap = 0.5 \sim 1.5$ $f = 0.06 \sim 0.2$	$ap = 0.5 \sim 2.0$ $f = 0.06 \sim 0.25$	$ap = 0.5 \sim 2.5$ $f = 0.06 \sim 0.27$
	GH730	50 ~ 150				
Alloy steels (150 ~ 250HB)	T9125	80 ~ 150	Face traversing (GR□□)	$ap = 0.5 \sim 1.4$ $f = 0.05 \sim 0.25$	$ap = 0.5 \sim 1.5$ $f = 0.05 \sim 0.26$	$ap = 0.5 \sim 1.6$ $f = 0.05 \sim 0.3$
	GH730	50 ~ 120				
High carbon steels	T9125	80 ~ 150	Face grooving for aluminium alloys (GE□□-AL)	0.03 ~ 0.1	0.03 ~ 0.1	-
	NS9530	80 ~ 150				
Alloy steels 250HB	GH730	50 ~ 120				
	T9125	80 ~ 150				
Stainless steels	GH730	50 ~ 120				
	T9125	80 ~ 200				
Grey and ductile cast irons	GH730	50 ~ 180				
	NS05F	200 ~ 300				
Aluminium alloys, Non-ferrous metals	KS05F	200 ~ 300				

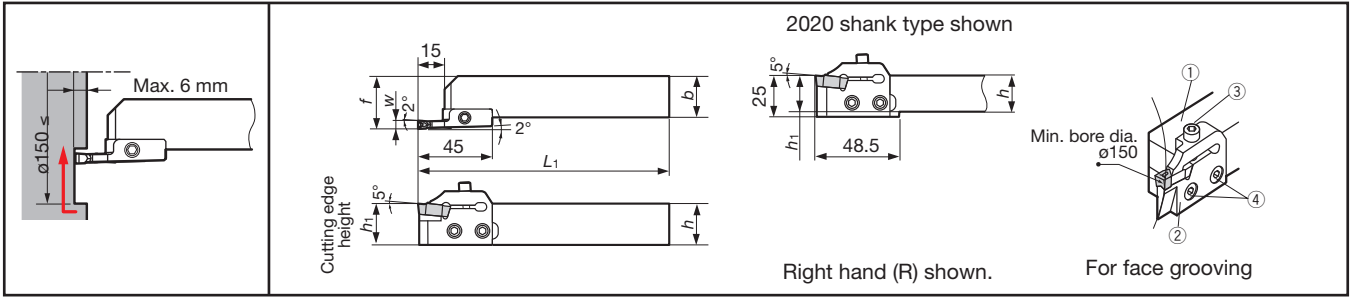
Notes: • For diameter compensation values in traversing, see page 28.
 • For occurrence of vibrations in face traversing, set the feed to the lower side of the values show in the above table.

● : Stocked items.

CGWS R/L

Face grooving

Toolholders (S: Vertical type)



Groove width w (mm)	Min. bore dia. øD (mm)	Max. groove depth (mm)	Shank and blade set Cat. No.		Stock		Applicable insert	Dimensions (mm)					Parts						
			R	L	b	h		L ₁	h ₁	f	Shank ^①		Blade set		Stock				
5	>150	6	●	●	CGWSR/L2020-FLR/L5TP	●	●	FLEX50R/L	20	20	152	20	27	CGWSR/L2020	●	●	FLR/L5TP		●
			●	●	CGWSR/L2525-FLR/L5TP	●	●	FLEX50R/L	25	25		25	32		CGWSR/L2525	●		●	

- Notes:
- When ordering, shank and blade set Cat. No. or shank and blade set are required.
 - When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

Applicable inserts

	Dimensions (mm)				Cat. No.	Grades			
	W	r _ε	W ₁	Hand		Coated	Cermet	Uncoated	
					T9125	NS9530	UX30		
	5	0.4	4	R	FLEX50R	●	★	●	Left hand inserts are identified with a recessed dot.
				L	FLEX50L	●	★	●	

- Note: When using a right or left hand blade set, the right hand blade set is used with right hand shank and the left hand blade set is used with left hand shank.

Parts

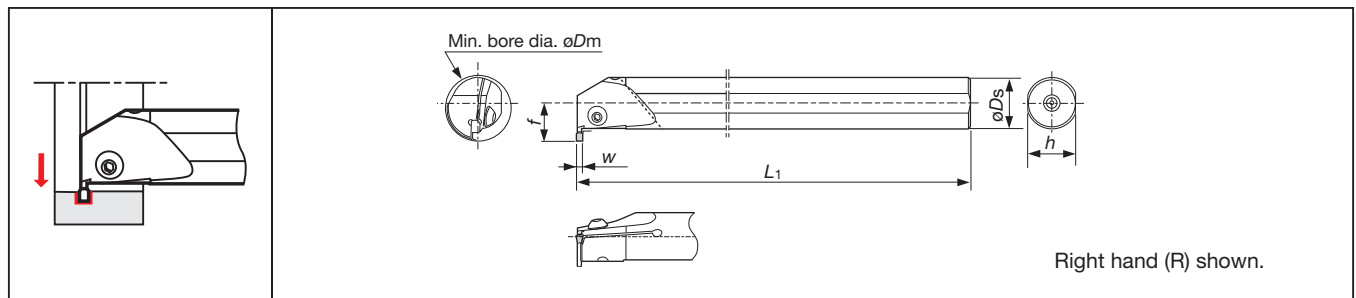
Cat. No.	Clamping screw ^③	Blade fixing screw ^④	Wrench
CGWSR/L□□□□-FLR/L□TP	CHHM5-18	CSHB-6	P-4

Cautionary notes

- When facing, the operation should proceed from the OD toward the center in order to prevent tool breakage.
- When facing, depth of cut and feed should be performed at approximately 70% of the values shown above.

Internal grooving

CGT R/L Internal grooving Toolholders for parting off on small lathes



Groove width w (mm)	Min. bore dia. ϕD_m (mm)	Cat. No.	Stock		Applicable inserts	Max. groove depth (mm)	Dimensions (mm)			
			R	L			ϕD_s	f	L_1	h
3	25	S20Q-CGTR/L30	●	●	GE30,GN30,GT30	3.5	20	14.5	180	18
	32	S25R-CGTR/L30	●	●	GR30,GE30-AL	5	25	18.5	200	23
4	32	S25R-CGTR/L40	●	●	GE40,GN40,GT40	5				
	40	S32S-CGTR/L40	●	●	GR40,GE40-AL	6	32	23	250	30
5	32	S25R-CGTR/L50	●	●	GE50,GN50	5	25	18.5	200	23
	40	S32S-CGTR/L50	●	●	GT50,GR50	6	32	23	250	30

Parts

Cat. No.	Clamping screw	Wrench
	S□□□-CGTR/L□□	BHM5-14

Standard cutting conditions

Work materials	Recommended grade	Cutting speed v_c (m/min)	Operation	Feed: f (mm/rev)		
				Groove width: W (mm)		
				3	4	5
Low carbon steels Alloy steels (~ 150HB)	T9125	80 ~ 200	Internal Grooving (GE□□)	0.04 ~ 0.14	0.05 ~ 0.15	0.05 ~ 0.16
	NS9530	100 ~ 200				
	GH730	50 ~ 180				
Medium carbon steels Alloy steels (150 ~ 250HB)	T9125	80 ~ 180	Internal Grooving (GN□□)	0.04 ~ 0.16 $ap = 0.5 \sim 1.5$	0.05 ~ 0.18 $ap = 0.5 \sim 2.0$	0.05 ~ 0.20 $ap = 0.5 \sim 2.5$
	NS9530	80 ~ 180				
	GH730	50 ~ 150				
High carbon steels Alloy steels (250HB ~)	T9125	80 ~ 150	Internal Traversing (GT□□)	$ap = 0.5 \sim 1.4$ $f = 0.05 \sim 0.25$	$ap = 0.5 \sim 1.5$ $f = 0.05 \sim 0.26$	$ap = 0.5 \sim 1.6$ $f = 0.05 \sim 0.3$
	NS9530	80 ~ 150				
	GH730	50 ~ 120				
Stainless steels	T9125	80 ~ 150	Internal Traversing (GR□□)			
	GH730	50 ~ 120				
Grey and ductile cast irons	T9125	80 ~ 200	Internal Grooving for Aluminium alloys (GE□□-AL)	0.03 ~ 0.1	0.03 ~ 0.1	-
	GH730	50 ~ 180				
Aluminium alloys, Non-ferrous metals	KS05F	200 ~ 300				

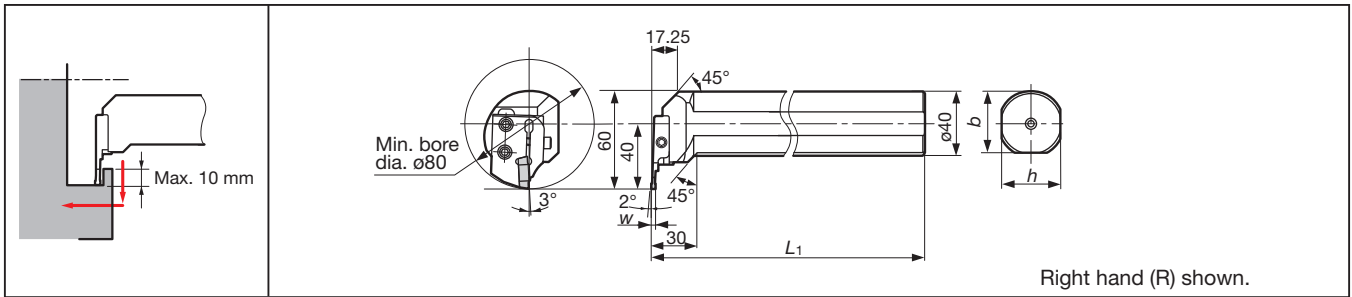
Notes: ● For diameter compensation values in traversing, see page 28.
 ● For occurrence of vibrations in traversing, set the feed to the lower side of the values show in the above table.

● : Stocked items.

CGWT R/L

Internal grooving

Toolholders (T: Horizontal type)



Right hand (R) shown.

Groove width W (mm)	Min. bore dia. ϕ Dm (mm)	Shank and blade set Cat. No.	Stock		Applicable insert	Max. groove depth (mm)	Dimensions (mm)					Parts							
			R	L			f	h	b	L ₁	ℓ	Shank ^①		Blade set ^②		Stock			
3	80	CGWTR/L0040-FLL/R3NP	●	●	FLEX30L/R	10	-	37.5	37	180	-	CGWTR/L0040		●	●	FLL/R3NP		●	●

Notes: ● Special shank and blade for FLEX type.

- When using a right or left hand blade set, the right hand blade set is used with left hand shank and the left hand blade set is used with right hand shank.

Applicable inserts



Dimensions (mm)				Cat. No.	Grades		
W	r _E	W ₁	Hand		Coated T9125	Cermet NS9530	
3	0.4	2.15	R	FLEX30R		★	
			L	FLEX30L		★	

Right hand (R) shown.

Left hand inserts are identified with a recessed dot.

Note: When using a right or left insert, the right hand insert is used with right hand blade set and the left hand insert is used with left hand blade set.

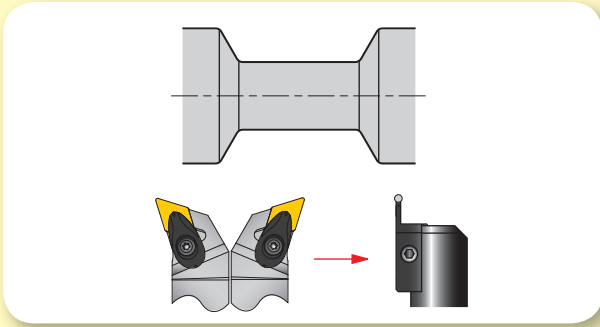
Parts

Cat. No.	Clamping screw	Blade fixing screw	Wrench
	CGWTR/L0040-FLL/R3NP		
	CHHM5-18	CSHB-6	P-4

Recommended tool path

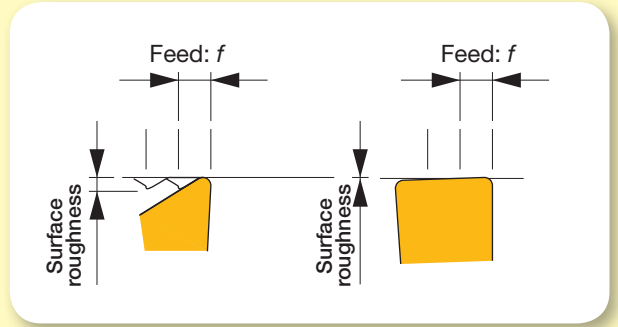
Example of tool integration

WGT/GT type or WGR/GR type inserts can replace the several numbers of handed tools for both side cutting.



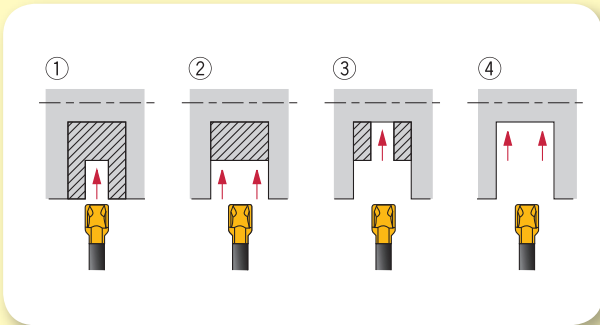
Comparison of surface roughness in My-T and conventional tool

WGR/GT type inserts can work like a wiper edge when traversing, and may improve the surface roughness.



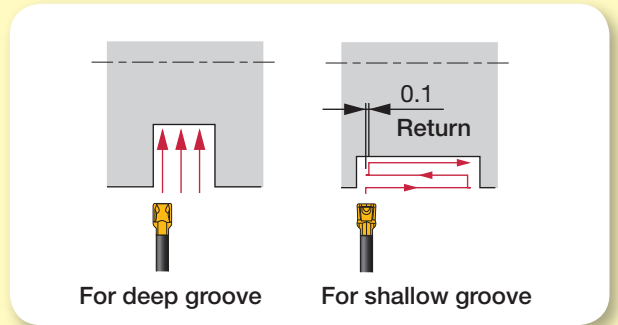
Machining deep groove

When machining a deep groove, the following process is recommended.



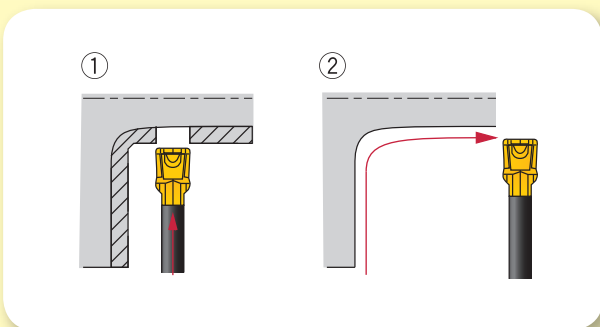
Machining wide groove

When machining a wide groove, the following two types of processes can be selected depending on the groove depth.



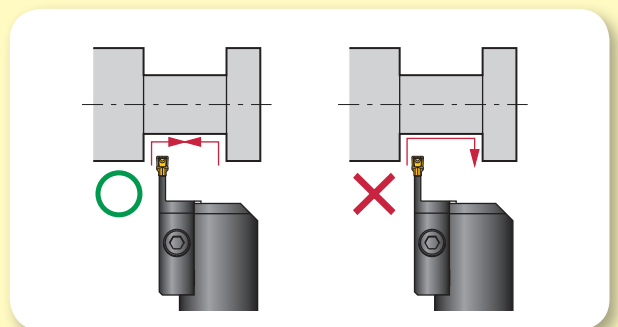
Machining radius shape or chamfering

When making a radius shape or chamfer at the bottom, the following process is recommended.



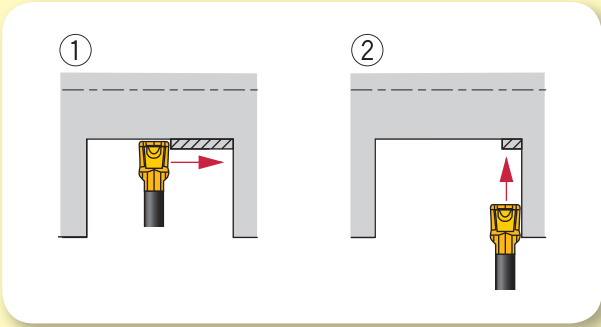
Machining the wall of groove

When finishing the wall with WGT/GT type, pull cutting is not recommended. Plunge cutting for both sides is recommended.



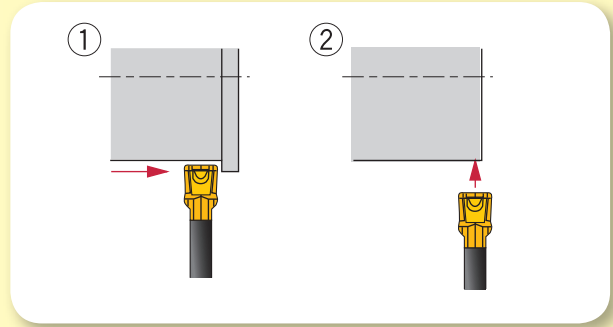
Machining the bottom

When machining the bottom, chip re-cutting may occur at the corner. To prevent this, stop cutting before the end and remove remaining portion by plunging.



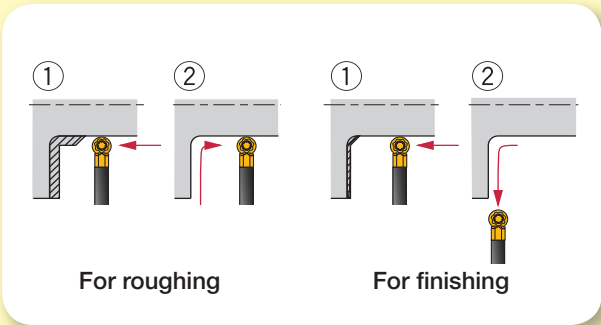
Preventing the ring burr

When traversing, ring burr may be left at the end. To prevent this, stop cutting before the end and remove remaining portion by plunging.



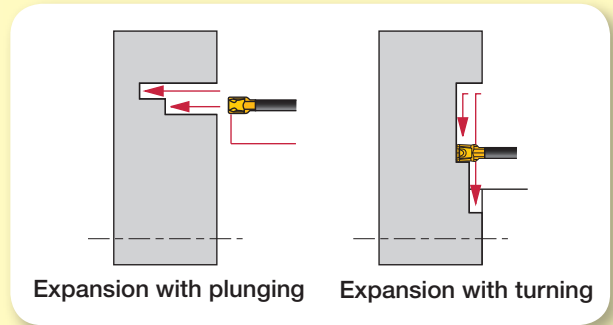
Machining with full radius insert

For roughing operation, groove wall should be cut by plunging. When finishing, if ap is less than 5% of insert radius, pull machining can be applied.



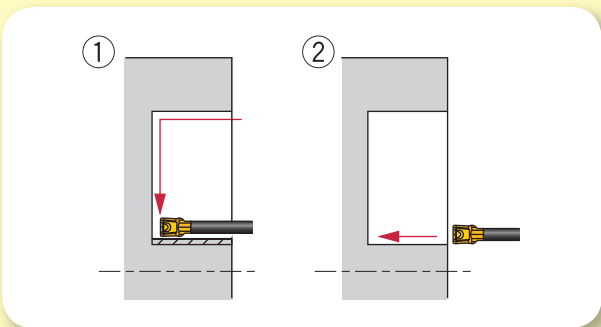
Expanding the face groove

When expanding the face groove, the blade should be selected depend on the outer diameter. And the machining direction should be from outside to inside.



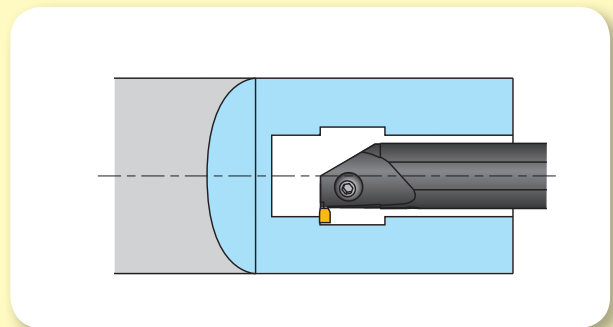
Face profiling

When profiling on the face, the tool path should be from outside to inside. And the inside wall should be cut by plunging.



Expanding the internal groove

When expanding the internal groove, the tool path should be referred to paths in external grooving.

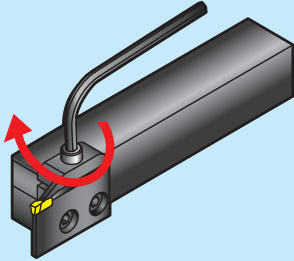


Precautions for use

1

Clamping torque for screw

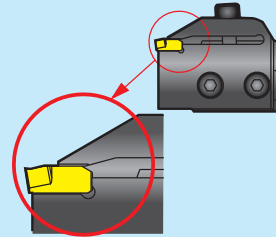
Recommended torque for clamping screw is 4 – 5 N·m.



2

When installing the insert

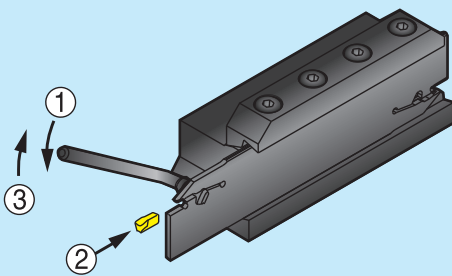
Install the insert until it touches the end of seat.



3

When installing insert into the blade

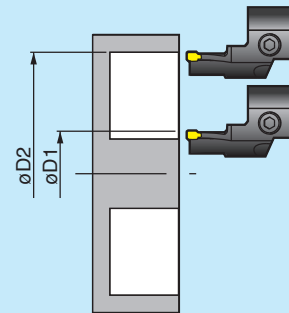
- ① Insert the wrench (CTL-2) into the blade and twist in CW.
- ② Install the insert until it touches the end of seat.
- ③ When twisting the wrench in CCW, the insert is clamped.



4

Definition of Max and Min diameter of face grooving

In face grooving, a specific blade should be selected depending on the diameter. Please check the catalog for details. $\phi D2$ shows the max diameter and $\phi D1$ shows the min diameter in the range. In diameters of this range, the tool doesn't interfere with groove. If expanding the groove to larger diameter than $\phi D2$, there is no interference. If expanding groove to smaller diameter than $\phi D1$, the tool may interfere with groove wall.

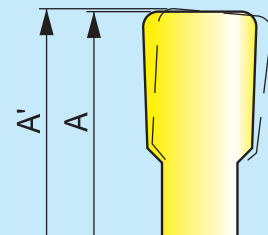
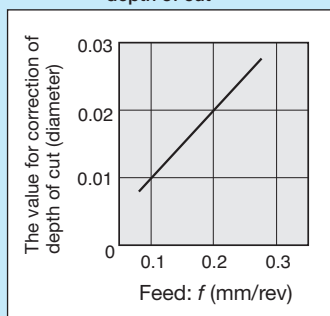


5

Precautions for turning

When traversing, the tool is bent by cutting force and the end cutting edge angle is formed. If traversing with large depth of cut or high feed rate, the flexure of tool becomes larger and the machined diameter may be different from programmed value. To prevent this, trial machining and correcting the condition based on the difference between programmed and machined values are required. For your reference, the corrected value when machining carbon steel are shown in the graph.

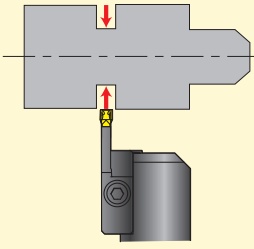
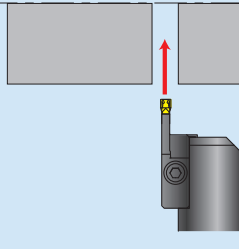
Reference: the value for correction of depth of cut

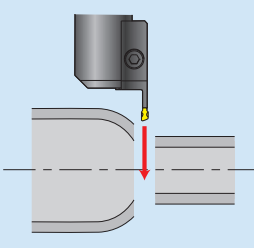
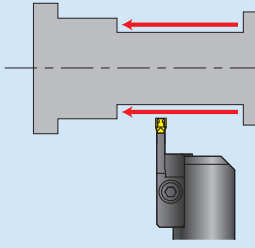


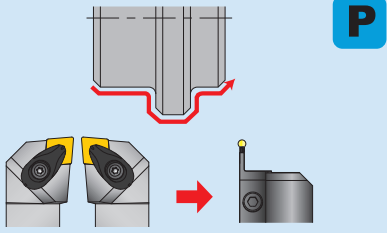
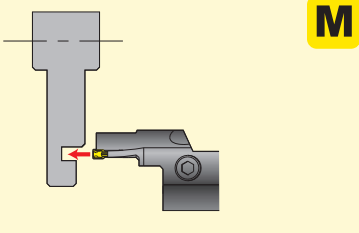
Troubleshooting

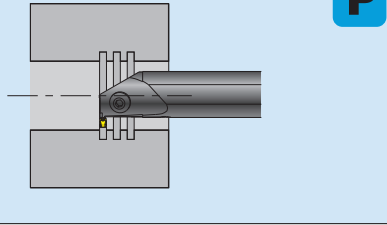
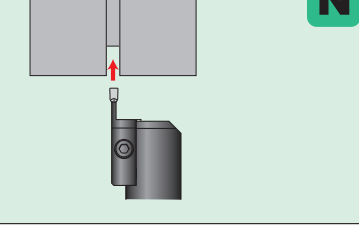
Trouble / Countermeasure	Long and uncontrolled chips (When grooving)	Long and uncontrolled chips (When traversing)	Chattering	Rough surface	Behind or beyond the programmed value	Unstable wear on the edge	Fractures on the edge
Increase the feed	●	●	●				
Decrease the feed				●		●	●
Increase the depth of cut		●					
Decrease the depth of cut			●	●		●	●
Increase the cutting speed				●			
Decrease the cutting speed	●	●	●		●	●	●
Change to Cermet grade				●			
Change to coated grade							●
Feed with the pecking	●						
Apply coolant				●		●	
Check the corrected value by bent tool					●		
Check the damages on edge				●	●		
Change to optimum chipbreaker	●	●	●	●	●	●	●
Shorten the tool overhang			●				
(For traversing operation) Use both sides of edge as equal as possible						●	●

Practical examples

Workpiece type		Machine parts	Machine parts
Toolholder		CGWSR2525-W30GR	CGWSR2525-W30GR-L
Insert		WGE30	WGE30
Grade		GH730	GH730
Workpiece material		SUS316 / X5CrNiMo17-12-3	S43C / C43
		 M	 P
Cutting conditions	Grooving width: W (mm)	3	3
	Cutting speed: V_c (m/min)	75	75
	Feed: f (mm/rev)	0.1	0.08
	Machining	External grooving	Parting off
	Coolant	Water soluble	Water soluble
Results		My-T tool offers lower cutting forces providing higher accuracy and better surface finish rather than competitor's tool.	My-T tool provides excellent chip control, achieving doubled the tool life.

Workpiece type		Hydraulic component	Automotive parts
Toolholder		CGWSR2020-30GR	CGWSR2525-W50GR
Insert		GE30L	WGT50
Grade		GH730	T9125
Workpiece material		STKM15A / R50	S45C / C45
		 P	 P
Cutting conditions	Grooving width: W (mm)	3	5
	Cutting speed: V_c (m/min)	100	180
	Feed: f (mm/rev)	0.05	0.1
	Machining	Parting off	Traversing
	Coolant	Water soluble	Water soluble
Results		Due to the higher impact resistance of grade GH730, the number of workpiece processed can be increased by 40%.	Large chattering with competitor's tool. When machining with My-T tool, there is no chattering and tool life is 7 times longer.

Workpiece type		Automotive parts	Gear
Toolholder		CGWSR2525-50GR	CGWSL2525-50S5575L
Insert		GT50	GT50
Grade		T9125	T9125
Workpiece material		S45C / C45	SUS304 / X5CrNi18-9
			
Cutting conditions	Grooving width: W (mm)	5	5
	Cutting speed: V_c (m/min)	150	115
	Feed: f (mm/rev)	0.25	0.13
	Machining	Profiling	Face grooving
Coolant		Water soluble	Water soluble
Results		Previously, both right and left hand tools were needed. Instead of handed tools, only one My-T tool with GR type insert can machine, reducing the number of tools.	My-T tool can drastically improve the chip control and increase the number of workpiece processed by 40%.

Workpiece type		Machine parts	Machine parts
Toolholder		S25R-CGTR40	CGWSR2525-30GR
Insert		GE40	GE30-AL
Grade		NS9530	KS05F
Workpiece material		S45C / C45	A2017 / AlCu4SiMg
			
Cutting conditions	Grooving width: W (mm)	4	3
	Cutting speed: V_c (m/min)	120	300
	Feed: f (mm/rev)	0.1	0.1
	Machining	Internal grooving	Aluminium wheel machining
Coolant		Water soluble	Water soluble
Results		By using My-T tool, the number of workpiece is increased by 25%.	My-T tool with AL type insert can drastically improve the surface finish.



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