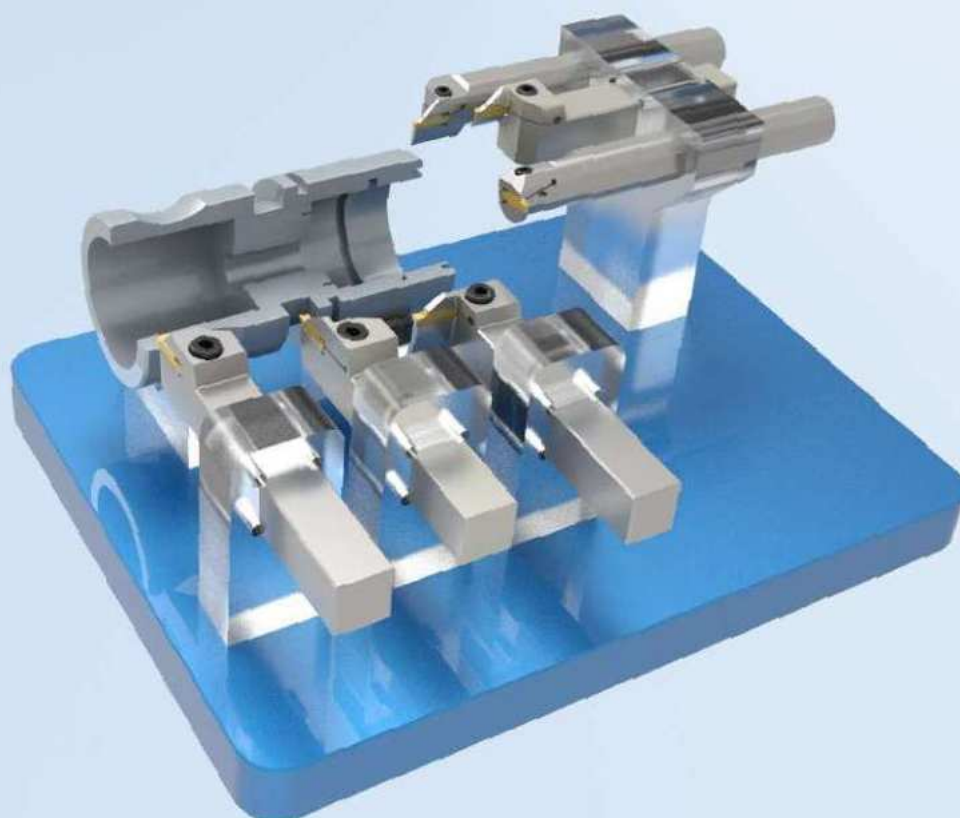
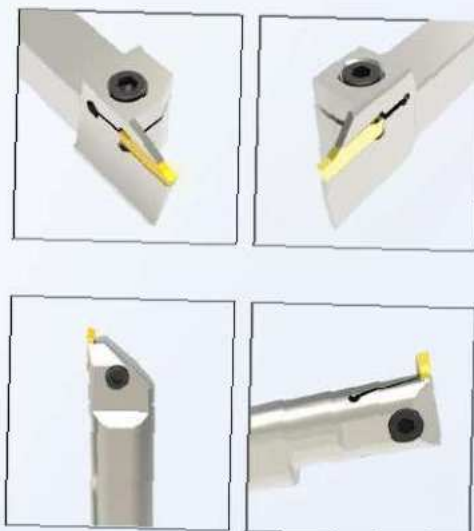




Chaoer Slotting Cutter Series

Make slotting easier!

- ① TTER/L
- ② TTFR/L-RN
- ③ TGIFR/L
- ④ TTIR/L

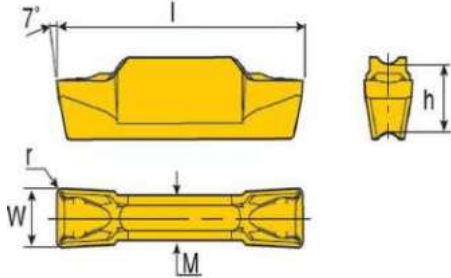


TDGU/TDGX

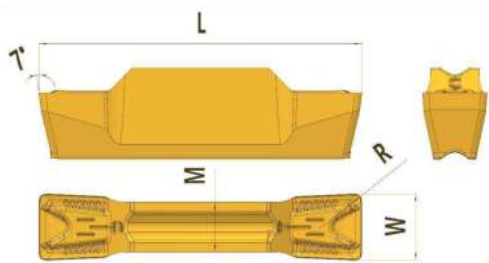


Grooving Insert

FLAT INSERTS: PRESSED INSERTS FOR EXTERNAL, INTERNAL FACETURNING , GROOVING AND PARTING

 									
Model	Dimension (mm)					Turning		Grooving	Grade
	$W \pm 0.05$	M	L	h	r	Feed (mm/rev)	Cut . Dept h (mm)	Feed (mm/rev)	CT5320
TDGU 200	2.0	1.7	20.0	4.7	0.3	0.12-0.18	0.4-1.2	0.03-0.18	●
TDGU 250	2.5	2.2	20.0	4.7	0.3	0.15-0.19	0.4-1.8	0.04-0.11	
TDGU 300	3.0	2.2	20.0	4.7	0.3	0.15-0.19	0.4-1.8	0.04-0.11	
TDGU 400	4.0	3.0	20.0	4.7	0.4	0.18-0.24	0.5-2.4	0.09-0.15	
TDGU 500	5.0	4.0	25.0	5.2	0.4	0.20-0.30	0.5-3.0	0.11-0.20	
TDGU 600	6.0	5.0	25.0	5.2	0.8	0.22-0.36	0.1-0.4	0.13-0.23	

FLAT INSERTS: PRESSED INSERTS FOR EXTERNAL, INTERNAL FACETURNING , GROOVING AND PARTING

 									
Model	Dimension (mm)				Turning		Grooving	Grade	
	$W \pm 0.05$	M	L	R	Feed (mm/rev)	Cut . Dept h (mm)	Feed (mm/rev)	CT5320	CT7320
TDGX 3E-0.4	3.0	2.2	20.0	0.4	0.17-0.20	0.5-1.8	0.06-0.18	●	●
TDGX 4E-0.4	4.0	3.0	20.0	0.4	0.20-0.27	0.5-2.4	0.07-0.20		
TDGX 4E-0.8	4.0	3.0	20.0	0.8	0.22-0.27	1.0-2.4	0.07-0.20		
TDGX 5E-0.4	5.0	4.0	25.0	0.4	0.22-0.32	0.5-3.0	0.08-0.23		
TDGX 5E-0.8	5.0	4.0	25.0	0.8	0.25-0.37	1.0-3.0	0.08-0.23		
TDGX 6E-0.4	6.0	5.0	25.0	0.4	0.25-0.38	0.5-3.6	0.12-0.35		
TDGX 6E-0.8	6.0	5.0	25.0	0.8	0.26-0.42	1.0-3.6	0.12-0.35		

TDGC/TDGU-R



Grooving Insert

FLAT INSERTS FOR GROOVING PARTING & TURNING MILL PROCESS

Model	Dimension (mm)				Turning		Grooving	Grade	
	W ± 0.05	M	L	R	Feed (mm/rev)	Cut. Depth (mm)	Feed (mm/rev)	CT5320	CT7320
TDGC 2E-02	2.0	1.7	20.0	0.2	0.17-0.20	0.5-1.8	0.05-0.18	●	●
TDGC 3E-02	3.0	2.4	20.0	0.2	0.20-0.27	0.5-2.4	0.07-0.25		
TDGC 4E-03	4.0	3.0	20.0	0.3	0.22-0.27	1.0-2.4	0.08-0.30		
TDGC 5E-03	5.0	4.0	25.0	0.3	0.20-0.27	0.5-2.4	0.09-0.35		
TDGC 6E-03	6.0	5.0	25.0	0.3	0.22-0.27	1.0-2.4	0.12-0.40		

ROUND INSERTS FOR EXTERNAL, INNER HOLE TURNING MILL, GROOVING AND PROFILING

Model	Dimension (mm)				Turning		Grooving	Grade	
	W ± 0.05	M	L	R	Feed (mm/rev)	Cut. Depth (mm)	Feed (mm/rev)	CT5320	
TDGU 200-1.0R	2.0	1.7	20.0	1.0	0.10-0.25	0.0-1.0	0.05-0.15	●	
TDGU 300-1.5R	3.0	2.2	20.0	1.5	0.15-0.28	0.0-1.5	0.08-0.18		
TDGU 400-2.0R	4.0	3.0	20.0	2.0	0.18-0.35	0.0-2.0	0.10-0.20		
TDGU 500-2.5R	5.0	4.0	25.0	2.5	0.20-0.42	0.0-2.5	0.12-0.23		
TDGU 600-3.0R	6.0	5.0	25.0	3.0	0.25-0.54	0.0-3.0	0.15-0.27		
TDGU 800-4.0R	8.0	6.0	30.0	4.0	0.30-0.67	0.0-4.0	0.18-0.35		

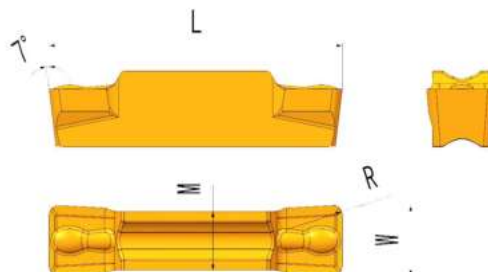
©The slot cutter with a blade width of 8mm currently has no standard tool holder available and can be customized according to requirements.

TDEF



Grooving Insert

FLAT INSERTS FOR EXTERNAL, INNER HOLE, FACE TURNING MILLING & GROOVING & PARTING



Model	Dimension (mm)				Turning		Grooving	Grade	
	W ± 0.05	M	L	R	Feed (mm/rev)	Cut. Depth (mm)	Feed (mm/rev)	CT5320	CT101
TDEF 3.00E-0.40	3.0	2.2	20.0	0.4	0.15-0.22	0.5-2.0	0.07-0.15	●	●
TDEF 4.00E-0.40	4.0	3.0	20.0	0.4	0.18-0.30	0.5-2.4	0.09-0.18		
TDEF 4.00E-0.80	4.0	3.0	20.0	0.8	0.18-0.30	1.0-2.4	0.09-0.18		
TDEF 5.00E-0.40	5.0	4.0	25.0	0.4	0.20-0.35	0.5-2.3	0.11-0.20		
TDEF 5.00E-0.80	5.0	4.0	25.0	0.8	0.23-0.35	1.0-3.0	0.11-0.20		
TDEF 6.00E-0.80	6.0	5.0	25.0	0.8	0.24-0.42	1.0-3.6	0.13-0.30		
TDEF 6.00E-1.20	6.0	5.0	25.0	1.2	0.24-0.42	1.3-3.6	0.13-0.30		
TDEF 8.00E-0.80	8.0	6.0	30.0	0.8	0.30-0.56	1.0-4.8	0.15-0.40		
TDEF 8.00E-1.20	8.0	6.0	30.0	1.2	0.30-0.56	1.3-4.8	0.15-0.40		

©The slot cutter with a blade width of 8mm currently has no standard tool holder available and can be customized according to requirements.

©The CT101 grade is part of the "Aluminum" machining series.

- Considerations for Selecting Slot Cutters
- Minimum Cutting Diameter (mm) for End Face Slotting Inserts

End Face Machining	Insert (Flat)	Wdth	Min. Dia	Insert (Flat)	Wdth	Min. Dia	Insert (Flat)	Wdth	Min. Dia	Insert (Round)	Wdth	Min. Dia
	TDGU TDGX	3	18	TDGC	3	54	TDEF	3	44	TDGU -R	3	41
		4	18		4	34		4	42		4	36
		5	20		/	/		5	50		5	54
		6	18		/	/		6	48		6	48

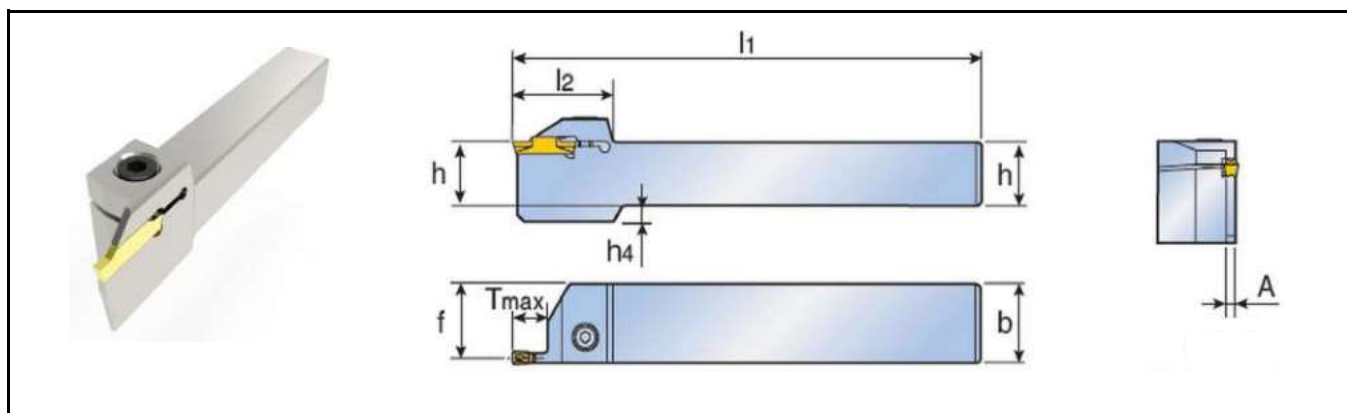
- Minimum Cutting Diameter (mm) for Internal Slotting Inserts

Internal Hole Machining	Insert (Flat)	Wdth	Min. Dia	Insert (Flat)	Wdth	Min. Dia	Insert (Flat)	Wdth	Min. Dia	Insert (Round)	Wdth	Min. Dia
	TDGU TDGX	2	24	TDGC	2	40	TDEF	/	/	TDGU -R	2	41
		2.5	24		/	/		/	/		/	/
		3	24		3	50		3	40		3	38
		4	21		4	50		4	40		4	38
		5	30		5	60		5	50		5	43
		6	31		6	60		6	50		6	46
		/	/		/	/		8	62		8	56

TTER/L



Groove Tool Holder Series: External Turning and Grooving



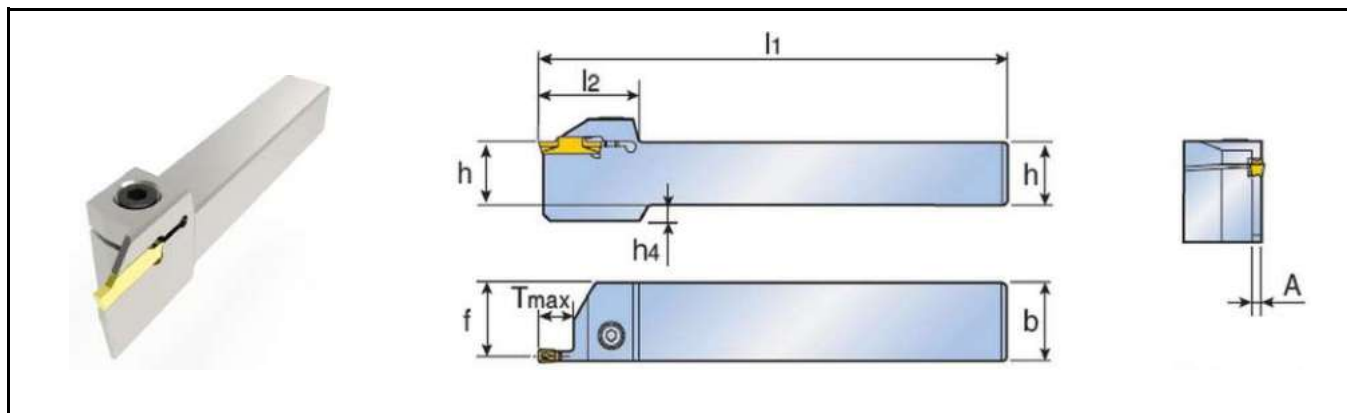
Model	Seat Size	Dimension (mm)								Insert
		h	b	l1	f	l2	A	h4	Tmax	
TTER/L 1616-2T08	2	16	16	110	15.1	33	1.8	4	8.0	TDGU TDGX TDGC TDEF
TTER/L 2020-2T08	2	20	20	125	19.1	33	1.8	—	8.0	
TTER/L 2525-2T08	2	25	25	150	24.1	33	1.8	—	8.0	
TTER/L 1616-2	2	16	16	110	15.1	32	1.8	4	12.0	
TTER/L 2020-2	2	20	20	125	19.1	32	1.8	—	12.0	
TTER/L 2525-2	2	25	25	150	24.1	32	1.8	—	12.0	
TTER/L 1616-2T17	2	16	16	110	15.1	37	1.8	4	17.0	
TTER/L 2020-2T17	2	20	20	125	19.1	37	1.8	—	17.0	
TTER/L 2525-2T17	2	25	25	150	24.1	37	1.8	—	17.0	
TTER/L 1616-2.5	2.5	16	16	110	15.1	32	2.0	4	12.0	
TTER/L 2020-2.5	2.5	20	20	125	19.1	32	2.0	—	12.0	
TTER/L 2525-2.5	2.5	25	25	150	24.1	32	2.0	—	12.0	
TTER/L 1616-3T09	3	16	16	110	14.8	32	2.4	4	9.0	
TTER/L 2020-3T09	3	20	20	125	18.8	32	2.4	—	9.0	
TTER/L 2525-3T09	3	25	25	150	23.8	32	2.4	—	9.0	
TTER/L 1616-3	3	16	16	110	14.8	32	2.4	4	12.0	
TTER/L 2020-3	3	20	20	125	18.8	32	2.4	—	12.0	
TTER/L 2525-3	3	25	25	150	23.8	32	2.4	—	12.0	
TTER/L 1616-3T20	3	16	16	110	14.8	38.5	2.4	—	20.0	
TTER/L 2020-3T20	3	20	20	125	18.8	38.5	2.4	—	20.0	
TTER/L 2525-3T20	3	25	25	150	23.8	38.5	2.4	—	20.0	
TTER/L 2525-3T25	3	25	25	150	23.8	44.5	2.4	—	25.0	
TTER/L 1616-4T10	4	16	16	110	14.5	32	3.0	4	10.0	
TTER/L 2020-4T10	4	20	20	125	18.5	32	3.0	—	10.0	
TTER/L 2525-4T10	4	25	25	150	23.5	32	3.0	—	10.0	

© Inserts must be ordered separately. This tool holder has no internal cooling.

TTER/L



External Turning and Grooving



Model	Seat Size	Dimension (mm)								Insert
		h	b	l1	f	l2	A	h4	Tmax	
TTER/L 1616-4	4	16	16	110	14.5	33	3.0	4	15.0	TDGU TDGX TDGC TDEF
TTER/L 2020-4	4	20	20	125	18.5	33	3.0	—	15.0	
TTER/L 2525-4	4	25	25	150	23.5	33	3.0	—	15.0	
TTER/L 1616-4T25	4	16	16	110	14.5	45	3.0	—	25.0	
TTER/L 2020-4T25	4	20	20	125	18.5	45	3.0	—	25.0	
TTER/L 2525-4T25	4	25	25	150	23.5	45	3.0	—	25.0	
TTER/L 2020-5T12	5	20	20	125	18.1	37	4.0	—	12.0	
TTER/L 2525-5T12	5	25	25	150	23.1	37	4.0	—	12.0	
TTER/L 2020-5	5	20	20	125	18.1	37	4.0	—	20.0	
TTER/L 2525-5	5	25	25	150	23.1	37	4.0	—	20.0	
TTER/L 2525-5T25	5	25	25	150	23.1	37	4.0	—	25.0	
TTER/L 2525-5T32	5	25	25	150	23.0	56	4.0	—	32.0	
TTER/L 2020-6T12	6	20	20	125	17.6	37	5.0	—	12.0	
TTER/L 2525-6T12	6	25	25	150	22.6	37	5.0	7	12.0	
TTER/L 2020-6	6	20	20	125	17.6	41	5.0	—	20.0	
TTER/L 2525-6	6	25	25	150	22.6	41	5.0	7	20.0	
TTER/L 2525-6T32	6	25	25	150	22.5	56	5.0	7	32.0	

© Inserts must be ordered separately. This tool holder has no internal cooling

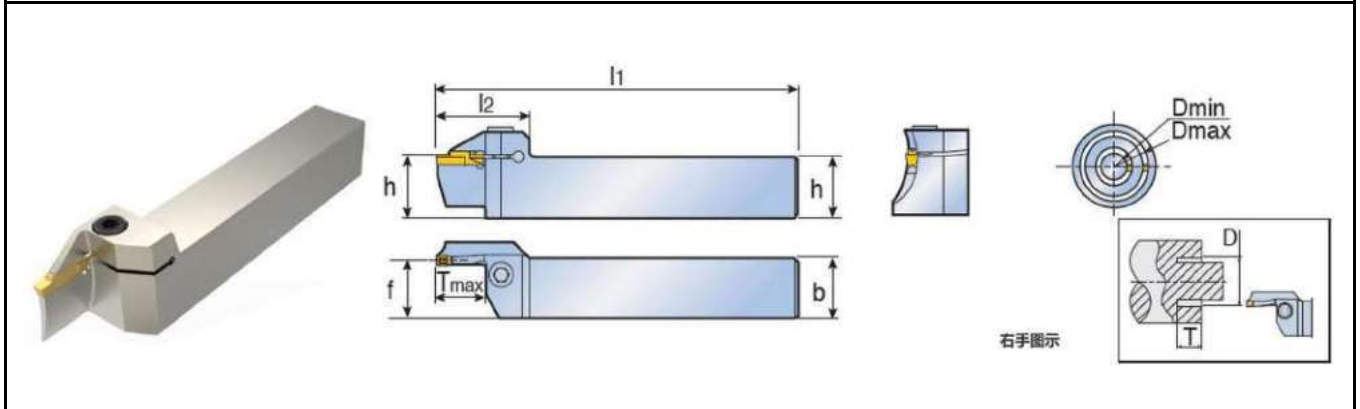
Spare Parts

Model	Screw	Wench	Model	Screw	Wench
TTER/L 1616-2/2.5/3	CLA0501608	CBL40	TTER/L 2020-4/5	CLA0602010	CBL50
TTER/L 2020-2/2.5/3	CLA0502008	CBL40	TTER/L 2525-4/5	CLA08020125	CBL60
TTER/L 2525-2/2.5/3	CLA0601610	CBL50	TTER/L 2020-6	CLA08020125	CBL60
TTER/L 1616-4/5	CLA0601610	CBL50	TTER/L 2525-6	CLA08020125	CBL60

TTFR/L-RN



End Face Deep Grooving and Turning



Model	Seat Size	Dimension (mm)								Insert
		h	b	l1	f	l2	Tmax	Dmin	Dmax	
TTFR/L 20-21-30-3T10RN	3	20	20	125	19	31	10	21	30	TDGU TDGX TDGC TDEF
TTFR/L 20-24-35-3T10RN	3	20	20	125	19	31	10	24	35	
TTFR/L 20-29-40-3T10RN	3	20	20	125	19	31	10	29	40	
TTFR/L 20-34-50-3T10RN	3	20	20	125	19	31	10	34	50	
TTFR/L 20-44-70-3T15RN	3	20	20	125	19	35	15	44	70	
TTFR/L 20-64-100-3T15RN	3	20	20	125	19	35	15	64	100	
TTFR/L 20-19-30-4T10RN	4	20	20	125	18.6	31	10	19	30	
TTFR/L 20-22-36-4T10RN	4	20	20	125	18.6	31	10	22	36	
TTFR/L 20-28-42-4T16RN	4	20	20	125	18.6	36	16	28	42	
TTFR/L 20-34-50-4T16RN	4	20	20	125	18.6	36	16	34	50	
TTFR/L 20-42-70-4T16RN	4	20	20	125	18.6	36	16	42	70	
TTFR/L 20-62-120-4T16RN	4	20	20	125	18.6	36	16	62	120	
TTFR/L 20-112-200-4T16RN	4	20	20	125	18.6	36	16	112	200	
TTFR/L 25-30-3RN	3	25	25	150	24.0	38	10.0	24	35	
TTFR/L 25-35-3RN	3	25	25	150	24.0	38	10.0	29	40	
TTFR/L 25-40-3RN	3	25	25	150	24.0	38	10.0	34	50	
TTFR/L 25-50-3RN	3	25	25	150	24.0	38	15.0	44	70	
TTFR/L 25-70-3RN	3	25	25	150	24.0	38	15.0	64	100	
TTFR/L 25-30-4RN	4	25	25	150	23.6	39	10.0	22	36	
TTFR/L 25-36-4RN	4	25	25	150	23.6	39	20.0	28	42	
TTFR/L 25-42-4RN	4	25	25	150	23.6	39	20.0	34	50	
TTFR/L 25-50-4RN	4	25	25	150	23.6	39	20.0	42	70	
TTFR/L 25-70-4RN	4	25	25	150	23.6	39	20.0	62	120	

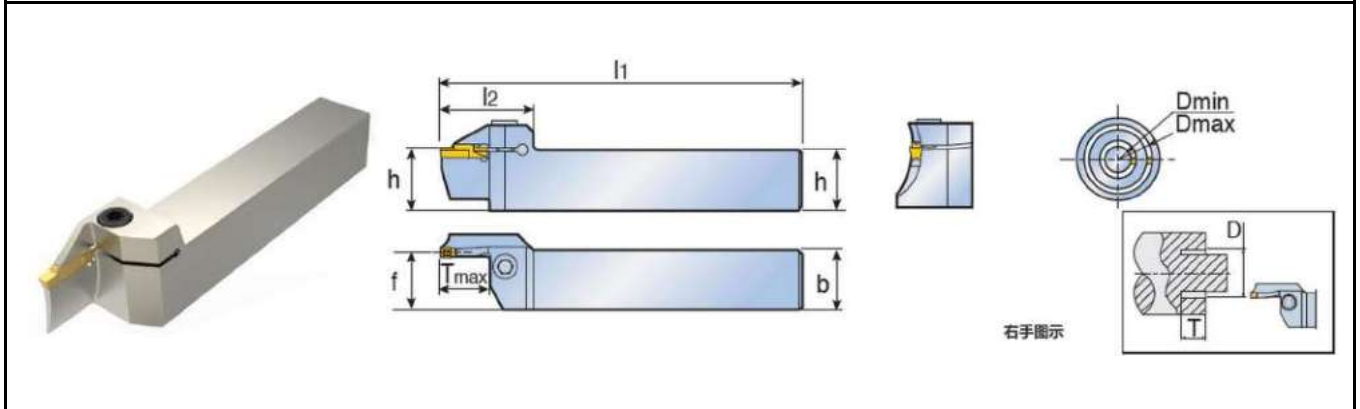
©Inserts must be ordered separately.

©This tool holder has no internal cooling

TTFR/L-RN



End Face Deep Grooving and Turning



Model	Seat Size	Dimension (mm)								Insert
		h	b	l1	f	l2	Tmax	Dmin	Dmax	
TTFR/L 25-120-4RN	4	25	25	150	23.6	39	20.0	112	200	TDGU TDGX TDGC TDEF
TTFR/L 25-200-4RN	4	25	25	150	23.6	39	20.0	200	∞	
TTFR/L 25-60-5RN	5	25	25	150	23.1	49	25.0	50	80	
TTFR/L 25-60-5T15RN	5	25	25	150	23.1	41	15.0	50	80	
TTFR/L 25-80-5RN	5	25	25	150	23.1	49	25.0	70	110	
TTFR/L 25-80-5T15RN	5	25	25	150	23.1	41	15.0	70	110	
TTFR/L 25-110-5RN	5	25	25	150	23.1	49	25.0	100	150	
TTFR/L 25-150-5RN	5	25	25	150	23.1	49	25.0	140	200	
TTFR/L 25-200-5RN	5	25	25	150	23.1	49	25.0	200	∞	
TTFR/L 25-60-6RN	6	25	25	150	22.6	49	25.0	48	70	
TTFR/L 25-70-6RN	6	25	25	150	22.6	49	25.0	58	100	
TTFR/L 25-100-6RN	6	25	25	150	22.6	49	25.0	88	180	
TTFR/L 25-180-6RN	6	25	25	150	22.6	49	25.0	168	400	
TTFR/L 25-400-6RN	6	25	25	150	22.6	49	25.0	400	∞	

©Inserts must be ordered separately.

©This tool holder has no internal cooling

Spare Parts

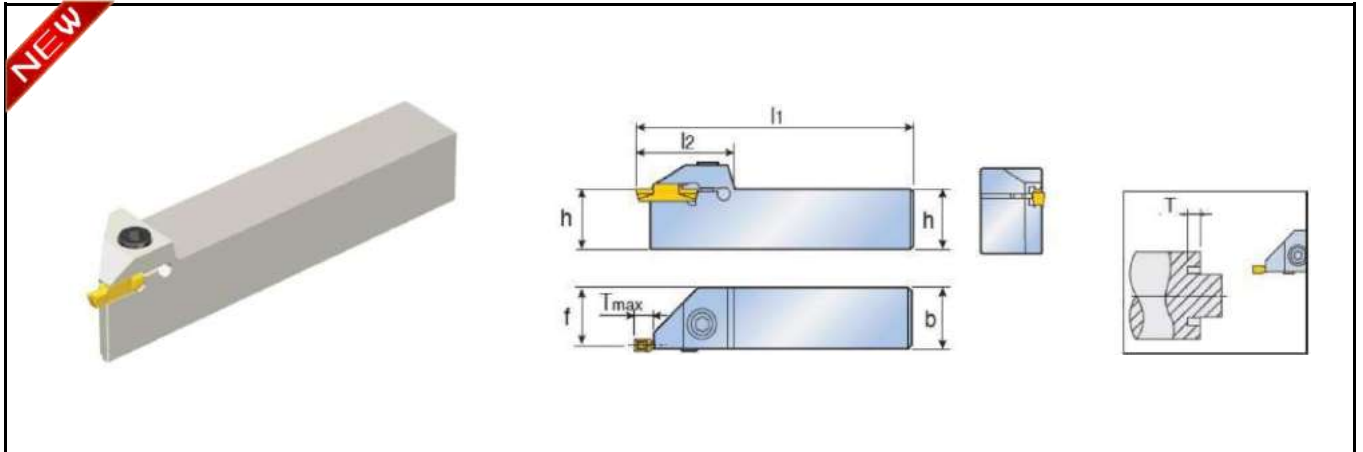
Model	Screw	Wrench
TTFR/L 20...RN	CLA0602010	CBL50
TTFR/L 25...3/4RN	CLA0602510	CBL50
TTFR/L 25...5/6RN	CLA08020125	CBL60

End Face Machining	Considerations for Tool Insert Selection
	During the tool insert selection, please first confirm the minimum machining diameter for internal grooving on page E04.

TGFR/L



External Diameter End Face Grooving and Turning



Model	Seat Size	Dimension (mm)						Insert
		h	b	l1	f	L2	Tmax	
TGFR/L 1616-4	2/3/4	16	16	110	14.6	33	4.8	TDGU TDGX TDGC TDEF
TGFR/L 2020-4	2/3/4	20	20	125	18.6	33	4.8	
TGFR/L 2525-4	2/3/4	25	25	150	23.6	33	4.8	
TGFR/L 2020-6	5/6	20	20	125	17.6	37	4.8	
TGFR/L 2525-6	5/6	25	25	150	22.6	37	4.8	

©Inserts must be ordered separately.

©This tool holder has no internal cooling

Spare Parts

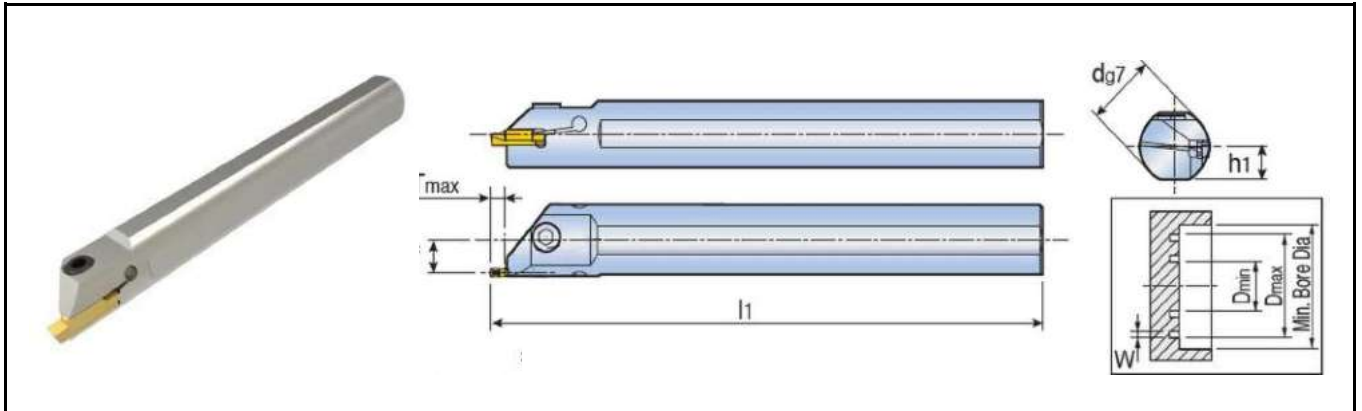
Model	Screw	Wrench
		
TGFR/L 1616	CLA0601610	CBL50
TGFR/L 2020	CLA0602010	CBL50
TGFR/L 2525	CLA0602510	CBL50

End Face Machining	Considerations for Tool Insert Selection
	During the tool insert selection, please first confirm the minimum machining diameter for internal grooving on page E04.

TGIFR/L



End Face Internal Shallow Grooving and End Face Turning Tool Holder



Model	Seat Size	Dimension (mm)					Insert
		d	l1	f	h1	Tmax	
TGIFR/L 25-4C-T5.5	3, 4	25	200	11.3	11.5	5.5	TDGU TDGX TDGC TDEF
TGIFR/L 32-4C-T5.5	3, 4	32	250	14.8	15	5.5	
TGIFR/L 25-6C-T5.5	5, 6	25	200	10.3	11.5	5.5	
TGIFR/L 32-6C-T5.5	5, 6	32	250	13.8	15	5.5	

©Inserts must be ordered separately.

©This tool holder has no internal cooling

W	Min. Boring Hole Diameter		Dmin		Dmax
	d=25	d=32	TDGU	TDGU round insert	
3	26.3	33.3	20	44	∞
4	26.8	33.8	18	42	
5	26.3	33.3	20		
6	26.8	33.8	18		

Spare Parts

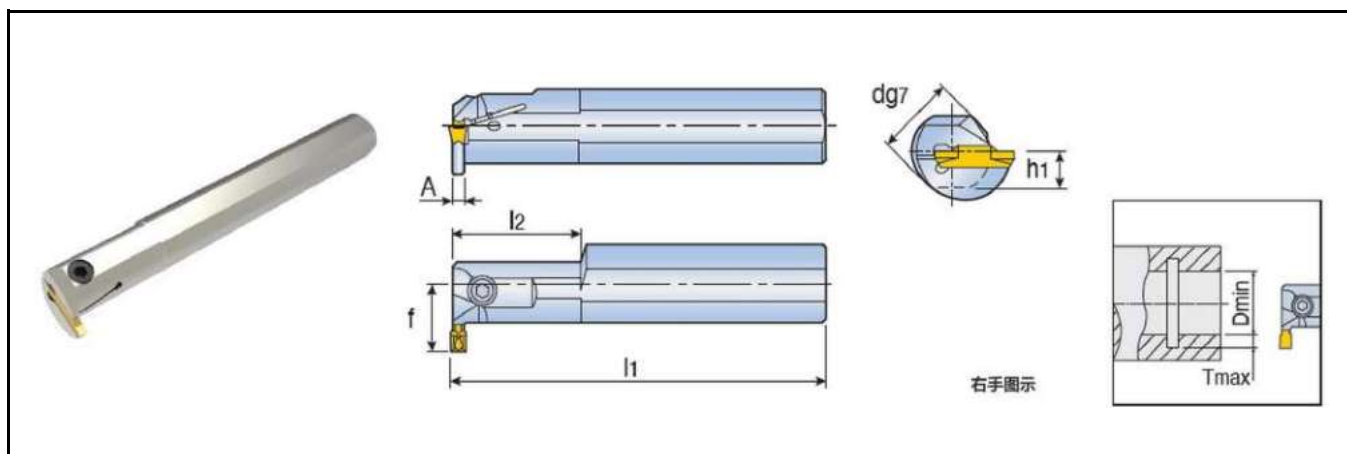
Model	Screw	Wrench
		
TGIFR/L 25	CLA0602010	CBL50
TGIFR/L 32	CLA0602510	CBL50

End Face Machining	Considerations for Tool Insert Selection
	During the tool insert selection, please first confirm the minimum machining diameter for internal grooving on page E04.

TTIR/L



Internal boring, grooving, and profile turning



Model	Seat Size	Dimension (mm)								Insert
		d	l1	l2	f	h1	A	Tmax	Dmin	
TTIR/L 16-2	2	16	125	—	16.5	7.5	1.8	8.5	25	TDGU TDGX TDGC TDEF
TTIR/L 20-2	2	20	160	40	15.8	9.0	1.6	6.0	25	
TTIR/L 25-2	2	25	200	40	17.5	11.5	1.6	5.0	25	
TTIR/L 20-2.5	2.5	20	160	40	15.8	9.0	2.0	6.0	25	
TTIR/L 25-2.5	2.5	25	200	40	17.5	11.5	2.0	5.0	25	
TTIR/L 32-2.5	2.5	32	250	60	19.8	14.0	2.0	4.7	31	
TTIR/L 20-3	3	20	160	40	15.8	9.0	2.1	6.0	25	
TTIR/L 25-3	3	25	200	40	17.5	11.5	2.1	5.1	25	
TTIR/L 32-3	3	32	250	60	19.8	14.0	2.1	4.7	31	
TTIR/L 20-4	4	20	160	40	15.8	9.0	2.9	6.0	25	
TTIR/L 25-4	4	25	200	40	17.5	11.5	2.9	5.2	25	
TTIR/L 32-4	4	32	250	60	20.8	14.0	2.9	4.7	31	

©Inserts must be ordered separately.

©This tool holder has no internal cooling

Spare Parts

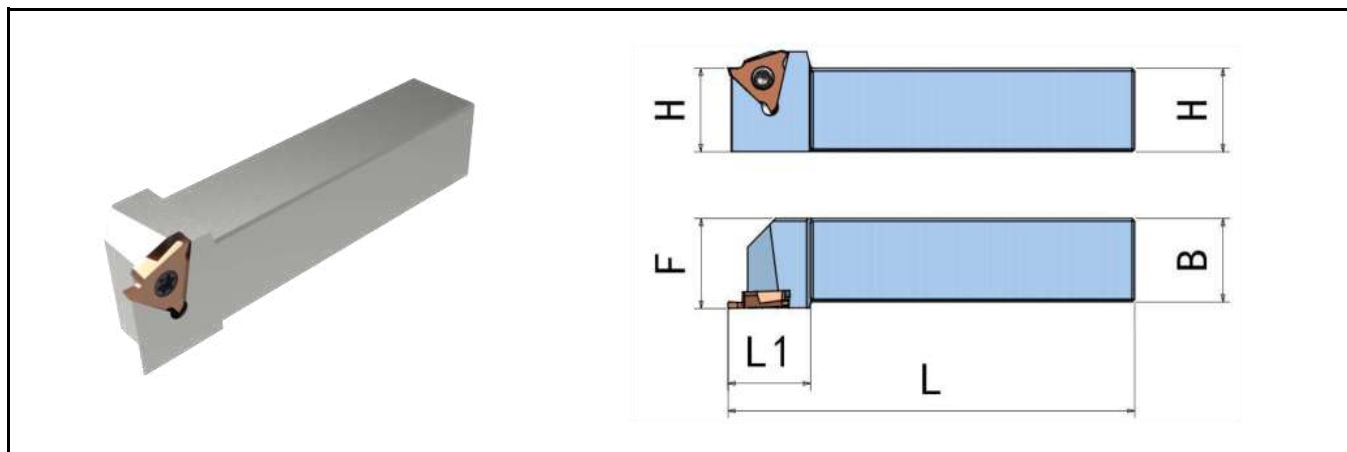
Model	Screw	Wrench
		
TTIR/L 16/20-2	CLA0501208	CBL40
TTIR/L 20-2.5/3/4	CLA0501608	CBL40
TTIR/L 25-2/2.5/3/4	CLA0502008	CBL40
TTIR/L 32-2.5/3/4	CLA0502508	CBL40

End Face Machining	Considerations for Tool Insert Selection
	During the tool insert selection, please first confirm the minimum machining diameter for internal grooving on page E04.

CQCR/L



External Shallow Grooving Holders



©Shows a right-hand tool holder

Model	Dimension (mm)						Insert
	H	B	L	F	L1	Cutting Width	
CQCR/L 1616K16-15	16	16	125	21	25.5	1.1-1.8	3CGF 16R/L 110-180
CQCR/L 2020K16-15	20	20	125	25			
CQCR/L 2525M16-15	25	25	150	30		1.8-3.0	3CGF 16R/L 180-300
CQCR/L 1616K16-25	16	16	125	21			
CQCR/L 2020K16-25	20	20	125	25		1.0-2.3	3CGF 22R/L 100-230
CQCR/L 2525M16-25	25	25	150	30			
CQCR/L 2020K22-15	20	20	125	25		2.3-3.3	3CGF 22R/L 230-330
CQCR/L 2525M22-15	25	25	150	30			
CQCR/L 2020K22-25	20	20	125	25		3.3-4.8	3CGF 22R/L 330-480
CQCR/L 2525M22-25	25	25	150	30			
CQCR/L 2020K22-35	20	20	125	25			
CQCR/L 2525M22-35	25	25	150	30			

©Inserts must be ordered separately.

©Select the right (R) holder for the right (R) insert, and select the left (L) holder for the left (L) insert.

©This tool holder has no internal cooling

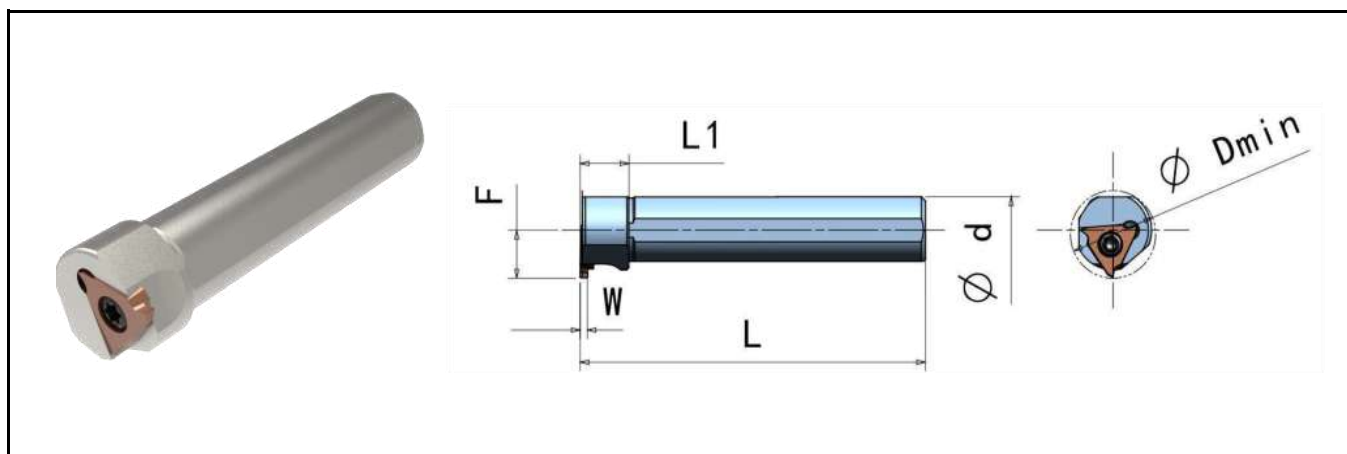
Spare Parts

Model	Screw	Wrench
CQCR/L**16	CSC4090	CTS15W
CQCR/L**22	CSG5012-P	CTS20W-P

SQCR/L



Internal Shallow Grooving Holders



©Shows a right-hand tool holder

Model	Dimension (mm)						Insert
	ϕD_{min}	ϕd	L	F	L1	Cut. Width	
S20M-QC1615R/L 25	26	20	150	12.5	15	1.1-1.8	3CGF 16R/L 110-180
S20M-QC1625R/L 25	26	20	150	12.5	15	1.8-3.0	3CGF 16R/L 180-300
S25M-QC2215R/L 35	35	25	150	18.2	15	1.0-2.3	3CGF 22R/L 100-230
S25M-QC2225R/L 35	35	25	150	18.2	20	2.3-3.3	3CGF 22R/L 230-330
S25M-QC2235R/L 35	35	25	150	18.2	20	3.3-4.8	3CGF 22R/L 330-480

©Inserts must be ordered separately.

©Right (R) tool holders are paired with left (L) inserts, while left (L) tool holders are paired with right (R) inserts

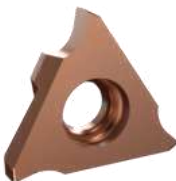
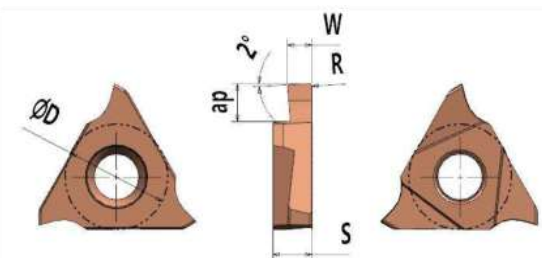
©This tool holder has no internal cooling

Spare Parts

Model	Screw	Wrench
S**QCR/L**16	CSC4090	CTS15W
S**QCR/L**22	CSG5012-P	CTS20W-P

3CGF**16L/22L

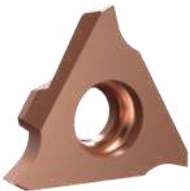
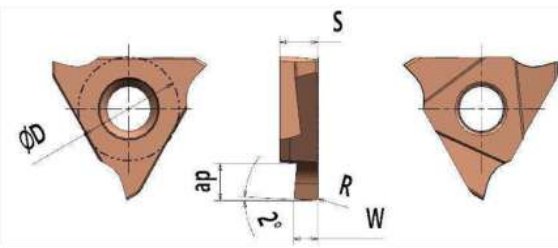


		Intro				
 left-hand insert.						• Vertical Insert • Shallow Grooving Insert • 3CGF 16/20L**is for left-hand insert.
	Di mension (mm)					Grade
Model	W	ap	øD	S	R	CT5520
3CGF 16L110-R01	1.10	2.0	9.525	3.18	0.1	●
3CGF 16L125-R02	1.25	2.0	9.525	3.18	0.2	●
3CGF 16L145-R02	1.45	2.0	9.525	3.18	0.2	●
3CGF 16L150-R02	1.50	2.0	9.525	3.18	0.2	●
3CGF 16L175-R02	1.75	2.0	9.525	3.18	0.2	●
3CGF 16L185-R02	1.85	2.5	9.525	3.18	0.2	●
3CGF 16L200-R02	2.00	2.5	9.525	3.18	0.2	●
3CGF 16L250-R02	2.50	2.5	9.525	3.18	0.2	●
3CGF 16L300-R02	3.00	3.0	9.525	3.18	0.2	●
3CGF 22L125-R02	1.25	2.0	12.7	3.18	0.2	●
3CGF 22L145-R02	1.45	2.0	12.7	3.18	0.2	●
3CGF 22L150-R02	1.50	3.5	12.7	4.76	0.2	●
3CGF 22L175-R02	1.75	3.5	12.7	4.76	0.2	●
3CGF 22L185-R02	1.85	3.5	12.7	4.76	0.2	●
3CGF 22L200-R02	2.00	3.5	12.7	4.76	0.2	●
3CGF 22L230-R02	2.30	3.5	12.7	4.76	0.2	●
3CGF 22L250-R03	2.50	4.0	12.7	4.76	0.3	●
3CGF 22L265-R03	2.65	4.0	12.7	4.76	0.3	●
3CGF 22L280-R03	2.80	4.0	12.7	4.76	0.3	●
3CGF 22L300-R03	3.00	4.0	12.7	4.76	0.3	●
3CGF 22L320-R03	3.20	4.0	12.7	4.76	0.3	●
3CGF 22L330-R03	3.30	4.0	12.7	4.76	0.3	●
3CGF 22L350-R03	3.50	5.0	12.7	4.76	0.3	●
3CGF 22L400-R04	4.0	5.0	12.7	4.76	0.4	●
3CGF 22L430-R04	4.3	5.0	12.7	4.76	0.4	●
3CGF 22L450-R04	4.5	5.0	12.7	4.76	0.4	●
3CGF 22L480-R04	4.8	5.0	12.7	5.06	0.4	●

3CGF**16L/22R



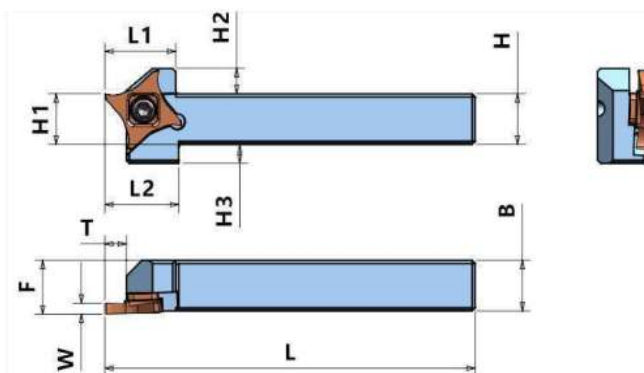
3CGF**16R/22R

		Intro				
 Right-hand insert						• Vertical Insert • Shallow Grooving Insert • 3CGF 16/20R**is for Right-hand insert.
	Di mensi on (mm)					Grade
Model	W	ap	ØD	S	R	CT5520
3CGF 16R110-R01	1.10	2.0	9.525	3.18	0.1	●
3CGF 16R125-R02	1.25	2.0	9.525	3.18	0.2	●
3CGF 16R145-R02	1.45	2.0	9.525	3.18	0.2	●
3CGF 16R150-R02	1.50	2.0	9.525	3.18	0.2	●
3CGF 16R175-R02	1.75	2.0	9.525	3.18	0.2	●
3CGF 16R185-R02	1.85	2.5	9.525	3.18	0.2	●
3CGF 16R200-R02	2.00	2.5	9.525	3.18	0.2	●
3CGF 16R250-R02	2.50	2.5	9.525	3.18	0.2	●
3CGF 16R300-R02	3.00	3.0	9.525	3.18	0.2	●
3CGF 22R125-R02	1.25	2.0	12.7	3.18	0.2	●
3CGF 22R145-R02	1.45	2.0	12.7	3.18	0.2	●
3CGF 22R150-R02	1.50	3.5	12.7	4.76	0.2	●
3CGF 22R175-R02	1.75	3.5	12.7	4.76	0.2	●
3CGF 22R185-R02	1.85	3.5	12.7	4.76	0.2	●
3CGF 22R200-R02	2.00	3.5	12.7	4.76	0.2	●
3CGF 22R230-R02	2.30	3.5	12.7	4.76	0.2	●
3CGF 22R250-R03	2.50	4.0	12.7	4.76	0.3	●
3CGF 22R265-R03	2.65	4.0	12.7	4.76	0.3	●
3CGF 22R280-R03	2.80	4.0	12.7	4.76	0.3	●
3CGF 22R300-R03	3.00	4.0	12.7	4.76	0.3	●
3CGF 22R320-R03	3.20	4.0	12.7	4.76	0.3	●
3CGF 22R330-R03	3.30	4.0	12.7	4.76	0.3	●
3CGF 22R350-R03	3.50	5.0	12.7	4.76	0.3	●
3CGF 22R400-R04	4.0	5.0	12.7	4.76	0.4	●
3CGF 22R430-R04	4.3	5.0	12.7	4.76	0.4	●
3CGF 22R450-R04	4.5	5.0	12.7	4.76	0.4	●
3CGF 22R480-R04	4.8	5.0	12.7	5.06	0.4	●

4CHR/L



External Diameter Shallow Grooving Tool Holder



©Right - Hl der

Model	Di mensi on (mm)								I nsert
	H	B	L	F	T	Out . Wdth	L1/12	H2/H3	
4CHR/L 10-27-2	10	10	120	13	4.5-5.5	2.0-2.5	23/25	8/10	4CGF 27
4CHR/L 12-27-2	12	12	120	13			23/24	8/8	
4CHR/L 16-27-2	16	16	120	17			23/24	8/6	
4CHR/L 20-27-2	20	20	120	21			23/24	8/2	
4CHR/L 25-27-2	25	25	135	26			23/—	8/—	
4CHR/L 10-27	10	10	120	13	5.5-6.5	2.7-3.5	23/25	8/10	
4CHR/L 12-27	12	12	120	13			23/24	8/8	
4CHR/L 16-27	16	16	120	17			23/24	8/6	
4CHR/L 20-27	20	20	120	21			23/24	8/2	
4CHR/L 25-27	25	25	135	26			23/—	8/—	
4CHR/L 10-27-4	10	10	120	14	6.5	3.6-4.5	23/25	8/10	
4CHR/L 12-27-4	12	12	120	14			23/24	8/8	
4CHR/L 16-27-4	16	16	120	17			23/24	8/6	
4CHR/L 20-27-4	20	20	120	21			23/24	8/2	
4CHR/L 25-27-4	25	25	135	26			23/—	8/—	

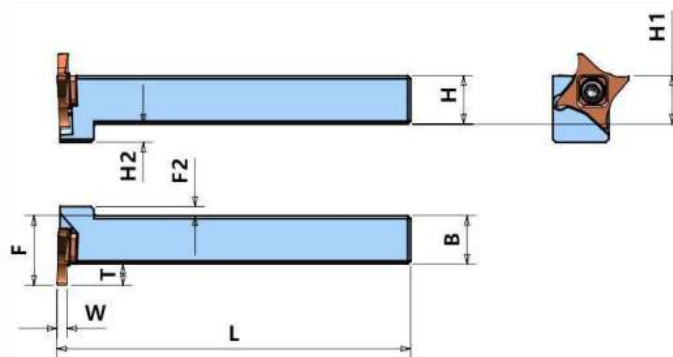
© Inserts must be ordered separately. This tool holder has no internal cooling

© Select the right (R) holder for the right (R) insert, and select the left (L) holder for the left (L) insert.

4CHPR/L



External Shallow Turning Holder



©Right holder

Model	Dimension (mm)								Insert
	H	B	L	F	T	Cut. Width	H2	F2	
4CHPR/L 16-27-2	16	16	120	23	4.5-5.5	2.0-2.5	6	3	4CGF 27
4CHPR/L 20-27-2	20	20	120	27			2	—	
4CHPR/L 25-27-2	25	25	135	32			—	—	
4CHPR/L 16-27	16	16	120	23	5.5-6.5	2.7-3.5	6	3	
4CHPR/L 20-27	20	20	120	27			2	—	
4CHPR/L 25-27	25	25	135	32			—	—	
4CHPR/L 16-27-4	16	16	120	23	6.5	3.6-4.5	6	3	
4CHPR/L 20-27-4	20	20	120	27			2	—	
4CHPR/L 25-27-4	25	25	135	32			—	—	

© Inserts must be ordered separately. This tool holder has no internal cooling

© Right (R) tool holders are paired with left (L) inserts, while left (L) tool holders are paired with right (R) inserts

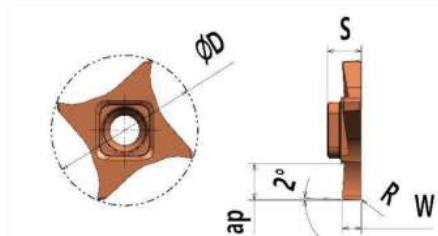


Spare Parts

Model	Screw	Wrench
4CH/4CHP-27	CSC5012	CTS20W

4CGF



						Intro	
 Right - hand Insert						• Vertical Insert • Shallow Grooving Insert • 4CGF 27L**left hand insert • 4CGF 27R**right hand insert	
Mdel	Di mensi on (mm)					Type	Grade
	øD	W	S	ap	R		CT5520
4CGF 27L200-R02	27.0	2.0	5.2	4.5	0.2	L Left	●
4CGF 27L230-R02		2.3		5.5	0.2		●
4CGF 27L250-R03		2.5		5.5	0.3		●
4CGF 27L270-R03		2.7	6.2	5.5	0.3		●
4CGF 27L300-R03		3.0		6.5	0.3		●
4CGF 27L320-R03		3.2		6.5	0.3		●
4CGF 27L330-R03		3.3		6.5	0.3		●
4CGF 27L340-R03		3.4		6.5	0.3		●
4CGF 27L350-R03		3.5		6.5	0.3		●
4CGF 27L360-R02		3.6	7.2	6.5	0.2		●
4CGF 27L375-R02		3.75		6.5	0.2		●
4CGF 27L400-R04		4.0		6.5	0.4		●
4CGF 27L400-R08		4.0		6.5	0.8		●
4CGF 27L415-R02		4.15		6.5	0.2		●
4CGF 27L450-R04		4.5		6.5	0.4		●
4CGF 27R200-R02	27.0	2.0	5.2	4.5	0.2	R Right	●
4CGF 27R230-R02		2.3		5.5	0.2		●
4CGF 27R250-R03		2.5		5.5	0.3		●
4CGF 27R270-R03		2.7	6.2	5.5	0.3		●
4CGF 27R300-R03		3.0		6.5	0.3		●
4CGF 27R320-R03		3.2		6.5	0.3		●
4CGF 27R330-R03		3.3		6.5	0.3		●
4CGF 27R340-R03		3.4		6.5	0.3		●
4CGF 27R350-R03		3.5		6.5	0.3		●
4CGF 27R360-R02		3.6	7.2	6.5	0.2		●
4CGF 27R375-R02		3.75		6.5	0.2		●
4CGF 27R400-R04		4.0		6.5	0.4		●
4CGF 27R400-R08		4.0		6.5	0.8		●
4CGF 27R415-R02		4.15		6.5	0.2		●
4CGF 27R450-R04		4.5		6.5	0.4		●