

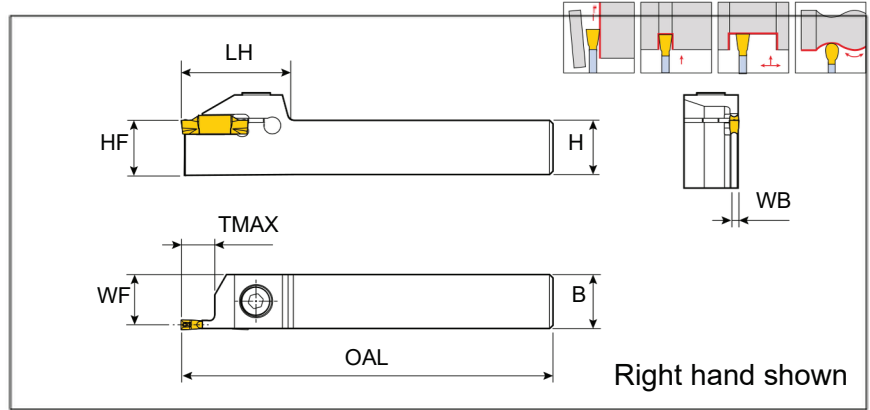
A detailed close-up photograph of a lathe operation. A dark, polished metal workpiece is mounted on a lathe bed and is rotating. A cutting tool, which has a distinctive yellow-colored tip, is positioned to cut a groove into the side of the workpiece. The background is a soft, out-of-focus blue and white, highlighting the precision of the machining process.

UNITEC

GROOVING HOLDERS

TTER/L

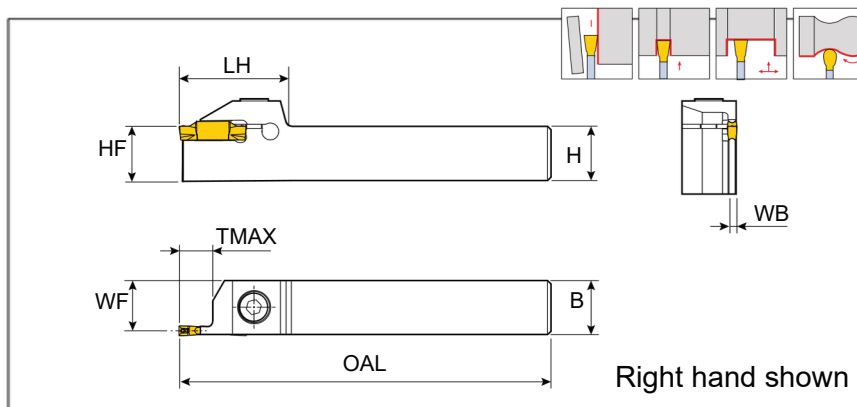
Holders for external turning and grooving



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	WB	TMAX	Insert 	Screw 	Wrench
	R	L										
TTER/L1616 2T08	•	•	2	16	28	110	15.2	1.6	8	TDC/JV/VUF TDXT/T TDCT/XU	M4X16	LW-3
1616 2T12	•	•	2	16	28	110	15.2	1.6	12			
1616 2T16	•	•	2	16	30	110	15.2	1.6	16			
TTER/L2020 2T08	•	•	2	20	32	125	19.2	1.6	8		M5X20	LW-4
2020 2T12	•	•	2	20	32	125	19.2	1.6	12			
2020 2T16	•	•	2	20	36	125	19.2	1.6	16			
2020 2T22	•	•	2	20	42	125	19.2	1.6	22			
2020 2T25	•	•	2	20	45	125	19.2	1.6	25			
TTER/L2525 2T08	•	•	2	25	32	150	24.2	1.6	8		M6X25	LW-5
2525 2T12	•	•	2	25	32	150	24.2	1.6	12			
2525 2T16	•	•	2	25	36	150	24.2	1.6	16			
2525 2T22	•	•	2	25	42	150	24.2	1.6	22			
2525 2T25	•	•	2	25	45	150	24.2	1.6	25			
TTER/L1616 3T08	•	•	3	16	28	110	14.8	2.4	8		M4X16	LW-3
1616 3T12	•	•	3	16	28	110	14.8	2.4	12			
1616 3T16	•	•	3	16	32	110	14.8	2.4	16			
TTER/L2020 3T08	•	•	3	20	32	125	18.8	2.4	8		M5X20	LW-4
2020 3T12	•	•	3	20	32	125	18.8	2.4	12			
2020 3T16	•	•	3	20	36	125	18.8	2.4	16			
2020 3T22	•	•	3	20	42	125	18.8	2.4	22			
2020 3T25	•	•	3	20	45	125	18.8	2.4	25			
TTER/L2525 3T08	•	•	3	25	32	150	23.8	2.4	8		M6X25	LW-5
2525 3T12	•	•	3	25	32	150	23.8	2.4	12			
2525 3T16	•	•	3	25	36	150	23.8	2.4	16			
2525 3T22	•	•	3	25	42	150	23.8	2.4	22			
2525 3T25	•	•	3	25	45	150	23.8	2.4	25			
2525 3T30	•	•	3	25	50	150	23.8	2.4	30			

TTER/L

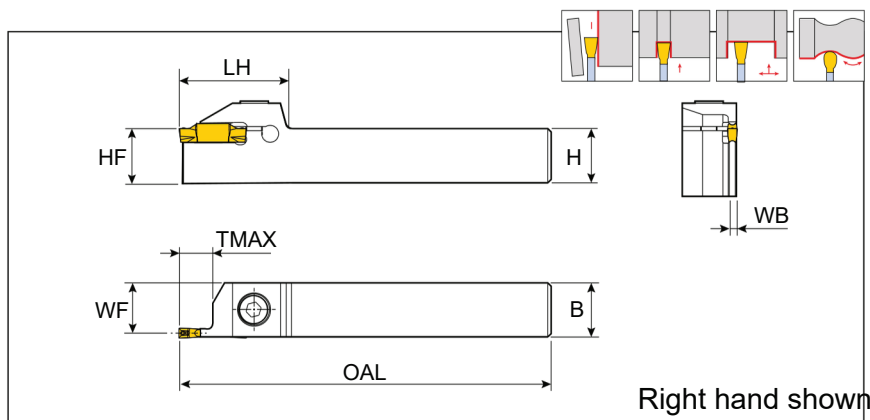
Holders for external turning and grooving



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	WB	TMAX	Insert 	Screw 	Wrench
	R	L										
TTER/L3232 3T20	•	•	3	32	42	110	30.8	2.4	20	TDC/J/V/U/F TDXT/T TDCT/XU	M6X25	LW-5
3232 3T25	•	•	3	32	45	110	30.8	2.4	25			
3232 3T30	•	•	3	32	50	110	30.8	2.4	30			
TTER/L2020 4T08	•	•	4	20	32	125	18.5	3	8		M5X20	LW-4
2020 4T12	•	•	4	20	32	125	18.5	3	12			
2020 4T16	•	•	4	20	36	125	18.5	3	16			
2020 4T22	•	•	4	20	42	125	18.5	3	22			
2020 4T25	•	•	4	20	45	125	18.5	3	25			
TTER/L2525 4T08	•	•	4	25	32	150	23.5	3	8		M6X25	LW-5
2525 4T12	•	•	4	25	32	150	23.5	3	12			
2525 4T16	•	•	4	25	36	150	23.5	3	16			
2525 4T22	•	•	4	25	42	150	23.5	3	22			
2525 4T25	•	•	4	25	45	150	23.5	3	25			
2525 4T30	•	•	4	25	50	110	23.5	3	30		M6X25	LW-5
2525 4T35	•	•	4	25	55	110	23.5	3	35			
2525 4T40	•	•	4	25	60	110	23.5	3	40			
TTER/L3232 4T20	•	•	4	32	42	125	30.5	3	20		M6X25	LW-5
3232 4T25	•	•	4	32	45	125	30.5	3	25			
3232 4T30	•	•	4	32	50	125	30.5	3	30			
TTER/L2525 5T16	•	•	5	25	36	125	23	4	16		M6X25	LW-5
2525 5T25	•	•	5	25	45	125	23	4	25			
2525 5T30	•	•	5	25	50	150	23	4	30			
2525 5T40	•	•	5	25	60	150	23	4	40			
TTER/L3232 5T20	•	•	5	32	42	150	30	4	20			
3232 5T25	•	•	5	32	45	150	30	4	25			
3232 5T30	•	•	5	32	50	150	30	4	30			
3232 5T40	•	•	5	32	60	150	30	4	40			

TTER/L

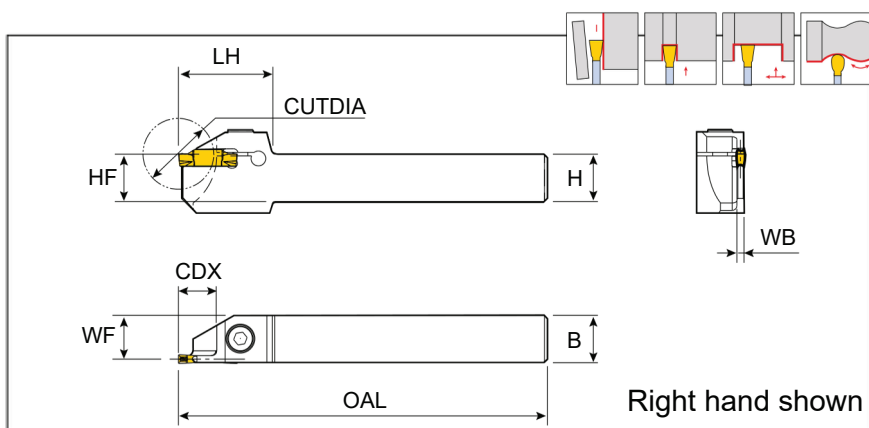
Holders for external turning and grooving



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	WB	TMAX	Insert	Screw	Wrench
	R	L										
TTER/L2525 6T20	•	•	6	25	45	150	22.5	5	20	TDC/J/V/UF TDXT/T TDCT/XU	M6X25	LW-5
2525 6T25	•	•	6	25	45	150	22.5	5	25			
2525 6T30	•	•	6	25	50	150	22.5	5	30			
2525 6T40	•	•	6	25	60	150	22.5	5	40			
TTER/L3232 6T20	•	•	6	32	45	170	29.5	5	20		M6X25	LW-5
3232 6T25	•	•	6	32	45	170	29.5	5	25			
3232 6T30	•	•	6	32	50	170	29.5	5	30			
3232 6T40	•	•	6	32	60	170	29.5	5	40			
TTER/L2525 8T20	•	•	8	25	50	150	22	6	20		M6X25	LW-5
2525 8T30	•	•	8	25	50	150	22	6	30			
2525 8T40	•	•	8	25	60	150	22	6	40			
3232 8T20	•	•	8	32	50	170	29	6	20		M6X25	LW-5
3232 8T30	•	•	8	32	50	170	29	6	30			
3232 8T40	•	•	8	32	60	170	29	6	40			
TTER/L2525 10T25	•	•	10	25	50	150	21	8	25		M6X25	LW-5
3232 10T25	•	•	10	32	50	170	28	8	25			

TTER/L

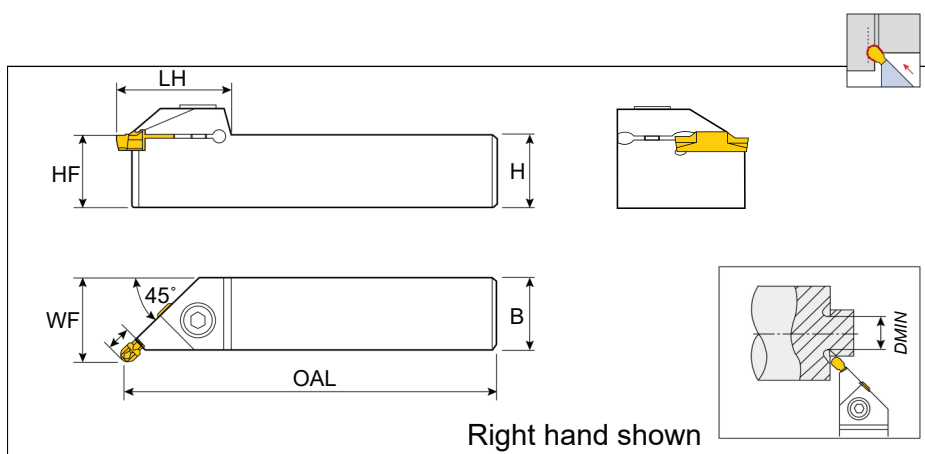
Holders for external parting



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	WBCUT		Insert 	Screw 	Wrench
	R	L										
TTER/L1212 2T12R	•	•	2	12	25	110	11.2	1.6	25	TDC/JV/UF TDXT/T TDCT/XU	M4X12	LW-3
1212 2T16R	•	•	2	12	28	110	11.2	1.6	32		M4X16	LW-3
TTER/L1616 2T12R	•	•	2	16	28	110	15.2	1.6	25		M4X16	LW-3
1616 2T16R	•	•	2	16	32	110	15.2	1.6	32		M4X16	LW-3
TTER/L2020 2C Ø25	•	•	2	20	32	125	19.2	1.6	25		M5X20	LW-4
2020 2C Ø40	•	•	2	20	40	125	19.2	1.6	40		M5X20	LW-4
TTER/L2525 2C Ø25	•	•	2	25	32	150	24.2	1.6	25		M5X25	LW-4
2525 2C Ø40	•	•	2	25	42	150	24.2	1.6	40		M5X25	LW-4
TTER/L2525 2C Ø50	•	•	2	25	45	150	24.2	1.6	50		M5X25	LW-4
TTER/L2525 3C Ø50	•	•	3	25	45	150	23.8	2.4	50		M5X25	LW-4

TGEUR/L

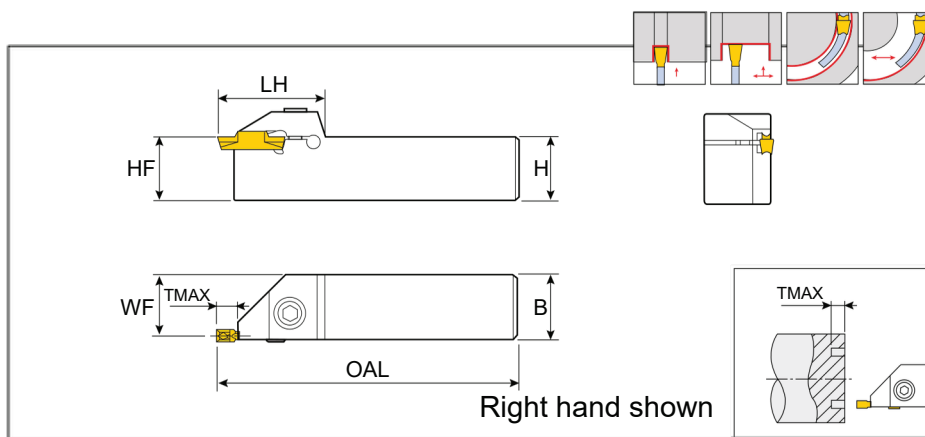
Holders for external undercutting



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	TMAX	DMIN	Insert 	Screw 	Wrench
	R	L										
TGEUR/L2020 3T06	•	•	3	20	28	125	-	6	32	TDC/JV/UF TDXT/T TDCT/XU	M5X20	LW-4
TGEUR/L2525 3T06	•	•	3	25	28	150	-	6	32		M5X25	LW-4

TGFR/L

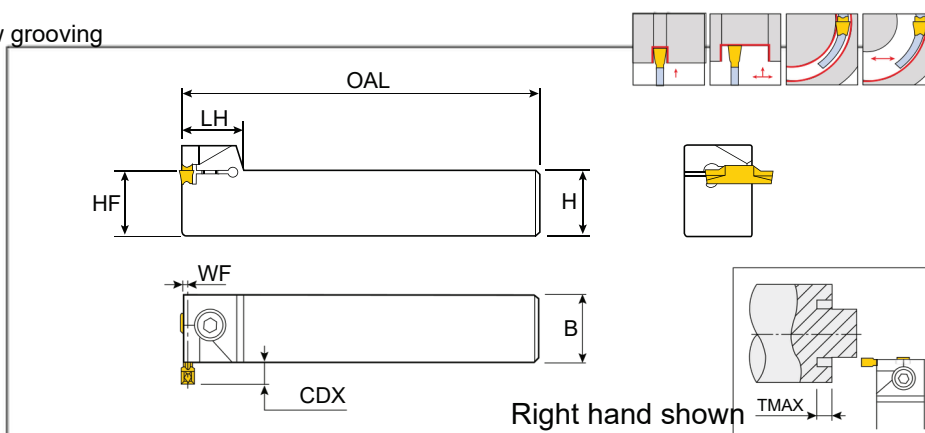
Holders for shallow grooving



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	TMAX	-	Insert 	Screw 	Wrench
	R	L										
TGFR/L2020 3T06	•	•	3	20	28	125	18.8	6	-	TDC/J/V/UF TDXT/T TDCT/XU	M5X20	LW-4
TGFR/L2525 3T06	•	•	3	25	28	150	23.8	6	-		M5X25	LW-4

TGFPR/L

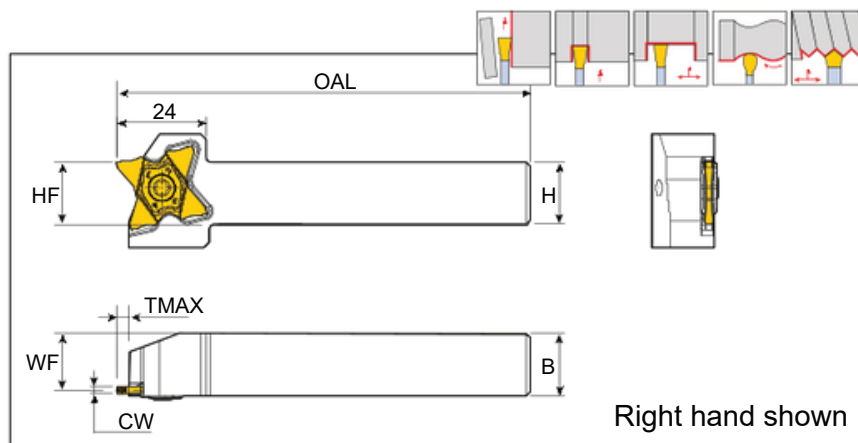
Perpendicular type holders for shallow grooving



Model No.	Stock		INSERT SEAT SIZE	HF HXB	LH	OAL	WF	TMAX	-	Insert 	Screw 	Wrench
	R	L										
TGFPR/L2020 3T06	•	•	3	20	28	125	1.5	6	-	TDC/J/V/UF TDXT/T TDCT/XU	M5X20	LW-4
TGFPR/L2525 3T06	•	•	3	25	28	150	1.5	6	-		M5X25	LW-4

TQHR/L

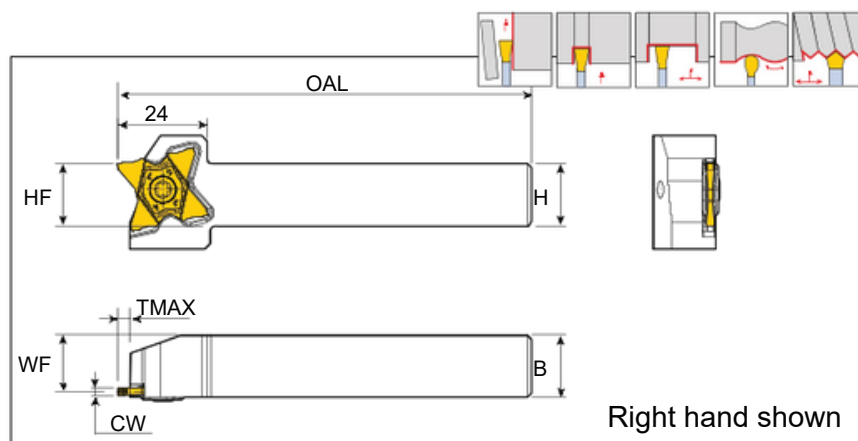
Holders for external turning and grooving



Model No.	Stock		INSERT SIZE	HF	HXB	OAL	WF	TMAX	CW	Insert	Screw	Wrench
	R	L										
TQHR/L 12-27	•	•	-	12	12	110	10.5	-	0.5 - 3.18	TQ** 27	M5X15R M5X15L	T-20
16-27	•	•	-	16	16	110	14.5	-	0.5 - 3.18			
20-27	•	•	-	20	20	125	18.5	-	0.5 - 3.18			
25-27	•	•	-	25	25	135	23.5	-	0.5 - 3.18			

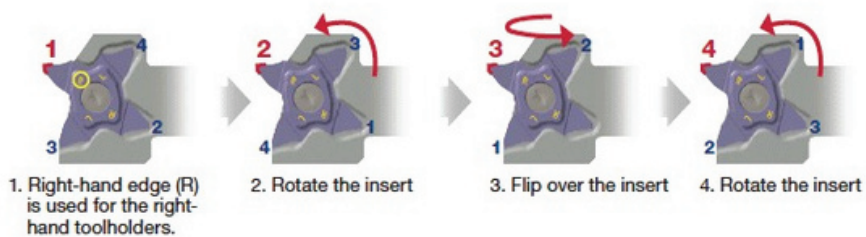
STCR/L

Holders for external turning and grooving



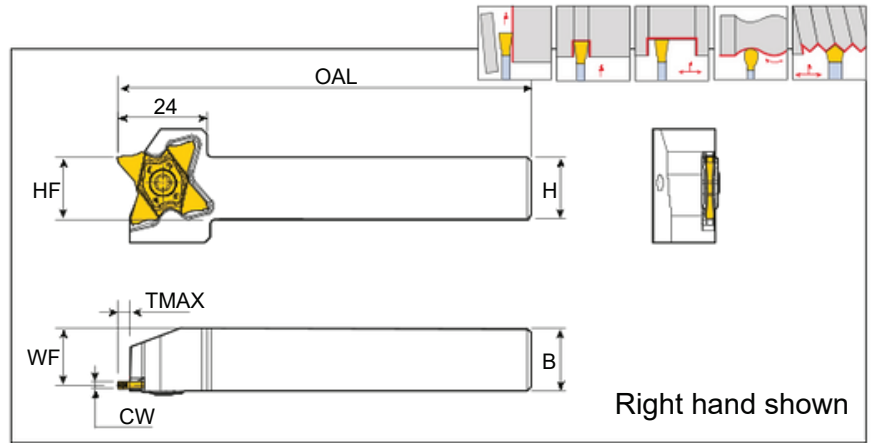
Model No.	Stock		INSERT SIZE	HF	HXB	OAL	WF	TMAX	CW	Insert	Screw	Wrench
	R	L										
STCR/L 12-27	•	•	-	12	12	110	10.5	-	0.5 - 3.18	TCS** 27	M5X15R M5X15L	T-20
16-27	•	•	-	16	16	110	14.5	-	0.5 - 3.18			
20-27	•	•	-	20	20	125	18.5	-	0.5 - 3.18			
25-27	•	•	-	25	25	135	23.5	-	0.5 - 3.18			

HOW TO INDEX INSERTS



PCHR/L (I)

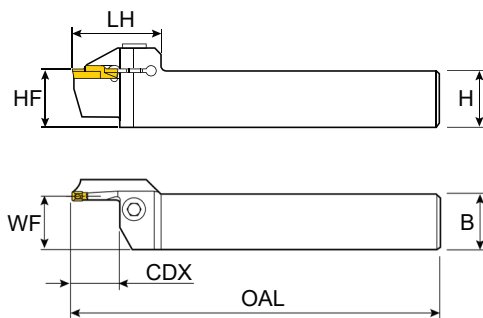
Holders for external turning and grooving



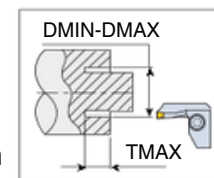
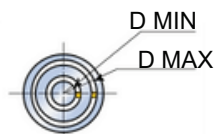
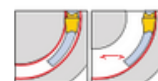
Model No.	Stock		INSERT SIZE	HF	HXB	OAL	WF	TMAX	CW	Insert	Screw	Wrench
	R	L										
PCHR/L 12-24	•	•	-	12	12	110	10.5	-	0.5 - 3.2	PENTA 24	M5X15R M5X15L	T-20
16-24	•	•	-	16	16	110	14.5	-	0.5 - 3.2			
20-24	•	•	-	20	20	125	18.5	-	0.5 - 3.2			
25-24	•	•	-	25	25	135	23.5	-	0.5 - 3.2			

TTFR/L

Holders for deep face grooving along shaft



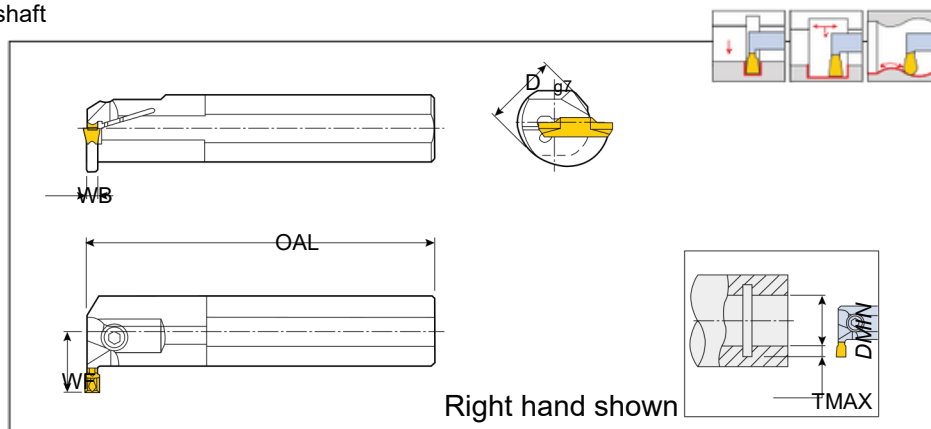
Left hand shown



	Stock									Insert	Screw	Wrench			
Model No.	R	L	INSERT SEAT SIZE	HF HXB	WF	OAL	TMAXD	MIND	MAX						
GHFR/L2020 3T09 10/24	●	●	3	20	18.8	125	9	10	24	(ISCAR) GRIP 3003Y	M5X20	LW-4			
2525 3T09 10/24	●	●	3	25	23.8	150	9	10	24						
TTFR/L2020 3T12 22/36	●	●	3	20	18.8	125	12	22	36				(TAEGUTEC) TDC/J/V/UF TDXT/T TDCT/XU	M5X20	LW-4
2020 3T16 34/50	●	●	3	20	18.8	125	16	34	50						
2020 3T16 45/70	●	●	3	20	18.8	125	16	45	70						
2020 3T16 65/100	●	●	3	20	18.8	125	16	65	100						
2020 3T16 80/150	●	●	3	20	18.8	125	16	80	150		M6X25	LW-5			
TTFR/L2525 3T12 22/36	●	●	3	25	23.8	150	12	22	36						
2525 3T16 34/50	●	●	3	25	23.8	150	16	34	50						
2525 3T16 45/70	●	●	3	25	23.8	150	16	45	70						
2525 3T16 65/100	●	●	3	25	23.8	150	16	65	100						
2525 3T16 80/150	●	●	3	25	23.8	150	16	80	150						
2525 3T16 150/300	●	●	3	25	23.8	150	16	150	300						
2525 3T16 300/∞	●	●	3	25	23.8	150	16	300	∞						
TTFR/L2525 4T12 22/36	●	●	4	25	23.5	105	16	22	36	M6X25			LW-5		
2525 4T16 34/50	●	●	4	25	23.5	150	16	34	50						
2525 4T16 45/75	●	●	4	25	23.5	150	16	45	75						
2525 4T16 65/100	●	●	4	25	23.5	150	16	65	100						
2525 4T20 80/150	●	●	4	25	23.5	150	20	80	150						
2525 4T20 150/300	●	●	4	25	23.5	150	20	150	300						
2525 4T20 300/∞	●	●	4	25	23.5	150	20	300	∞						

TTIR/L

Holders for deep face grooving along shaft

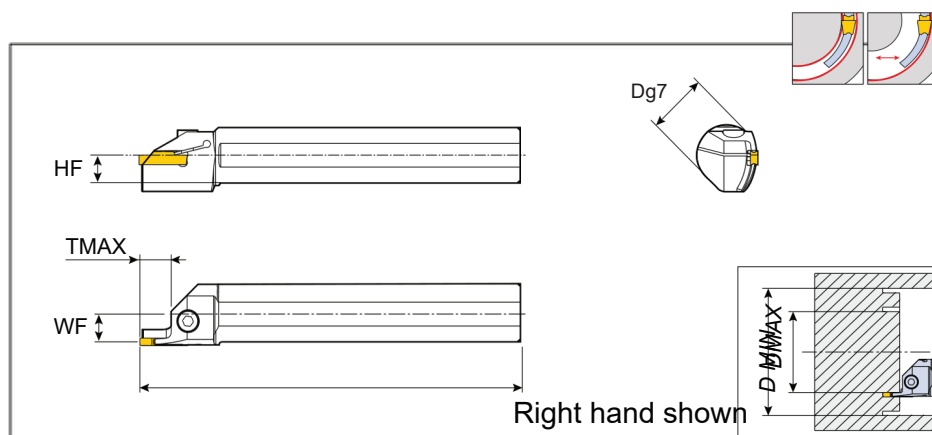


Model No.	Stock		INSERT SEAT SIZE	D SIZE	WF	OAL	WB	TMAX	MIN	Insert	Screw	Wrench
	R	L										
TTIR/L 16-2T06	•	•	2	16	14	160	1.6	6	24	TDC/J/V/UF TDXT/T TDCT/XU	M4X12	LW-3
20-2T06	•	•	2	20	16	180	1.6	6	27		M5X12	LW-4
25-2T08	•	•	2	25	20.5	200	1.6	8	34		M5X16	LW-4
32-2T10	•	•	2	32	26	250	1.6	10	42		M6X20	LW-5
40-2T12	•	•	2	40	32	300	1.6	12	54		M6X20	LW-5
TTIR/L 16-3T06	•	•	3	16	14	160	2.2	6	24		M4X12	LW-3
20-3T06	•	•	3	20	16	180	2.2	6	27		M5X12	LW-4
25-3T08	•	•	3	25	20.5	200	2.2	8	34		M5X16	LW-4
32-3T10	•	•	3	32	26	250	2.2	10	42		M6X20	LW-5
40-3T12	•	•	3	40	32	300	2.2	12	54		M6X20	LW-5
TTIR/L 16-4T06	•	•	4	16	14	160	3	6	24		M4X12	LW-3
20-4T06	•	•	4	20	16	180	3	6	27		M5X12	LW-4
25-4T08	•	•	4	25	20.5	200	3	8	34		M5X16	LW-4
32-4T10	•	•	4	32	26	250	3	10	42		M6X20	LW-5
40-4T12	•	•	4	40	32	300	3	12	54		M6X20	LW-5
TTIR/L 40-5T12	•	•	5	40	32	300	4	12	54		M6X20	LW-5
TTIR/L 40-6T12	•	•	6	40	32	300	5	12	54		M6X20	LW-5

Machining	TDJ/C/UF/V		TDT		TDT RU/RS		TDCT/TDXU/TDIT/TDXT/TDXU	
	Size (mm)	Min. dia (mm)	Size (mm)	Min. dia (mm)	Size (mm)	Min. dia (mm)	Size (mm)	
Internal grooving Min. dia. of internal machining	2	40	3	40	2	41	2	24
	3	50	4	40	3	38	3	24
	4	50	5	50	4	38	4	21
	5	60	6	50	5	43	5	30
	6	60	8	62	6	46	6	31
	8	70			8	56	8	33

TTFIR/L

Internal boring bars for face grooving



Model No.	Stock		INSERT SEAT SIZE	D	WF	OAL	TMAXD	MIND	MAX	Insert 	Screw 	Wrench
	R	L										
TTFIR/L20-3T12 22/36	•	•	3	20	18.8	180	12	22	36	TDC/J/V/UF TDXT/T TDC/TXU	M5X12	LW-4
20-3T12 34/50	•	•	3	20	18.8	180	12	34	50			
TTFIR/L25-3T12 26/42	•	•	3	25	23.8	200	12	26	42		M5X16	LW-5
25-3T12 34/50	•	•	3	25	23.8	200	12	34	50			
25-3T12 45/70	•	•	3	25	23.8	200	12	45	70			
25-3T12 65/100	•	•	3	25	23.8	200	12	65	100			
25-3T12 80/150	•	•	3	25	23.8	200	12	80	150			
25-3T12 150/300	•	•	3	25	23.8	200	12	150	300			
TTFIR/L32-3T12 34/50	•	•	3	32	30.8	250	12	34	50		M5X20	LW-4
32-3T12 45/70	•	•	3	32	30.8	250	12	45	70			
32-3T12 65/100	•	•	3	32	30.8	250	12	65	100			
32-3T12 80/150	•	•	3	32	30.8	250	12	80	150			
32-3T12 150/300	•	•	3	32	30.8	250	12	150	300			