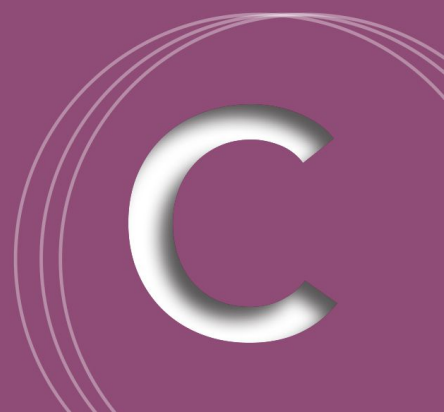
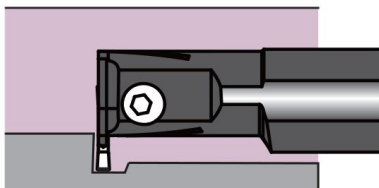
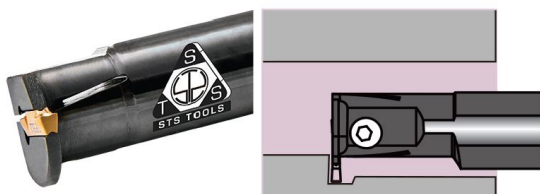


GROOVING HOLDERS

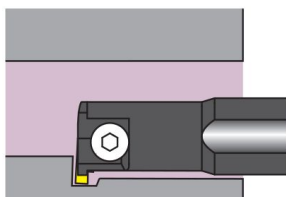




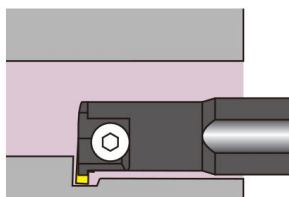
MODEL NO			DIMENSION(in mm)		
			ØB	ap	L
WMTSL/R	S16	M2	22	6	150
WMTSL/R	S16	M2	24	8	150
WMTSL/R	S20	M2	26	6	180
WMTSL/R	S20	M2	28	8	180
WMTSL/R	S25	M2	31	6	200
WMTSL/R	S25	M2	33	8	200
WMTSL/R	S25	M2	37	12	200
WMTSL/R	S32	M2	38	6	250
WMTSL/R	S32	M2	40	8	250
WMTSL/R	S40	M2	46	6	300
WMTSL/R	S40	M2	48	8	300
WMTSL/R	S40	M2	52	12	300
WMTSL/R	S16	M3	22	6	150
WMTSL/R	S16	M3	24	8	150
WMTSL/R	S20	M3	26	6	180
WMTSL/R	S20	M3	28	8	180
WMTSL/R	S25	M3	31	6	200
WMTSL/R	S25	M3	33	8	200
WMTSL/R	S25	M3	37	12	200
WMTSL/R	S32	M3	38	6	250
WMTSL/R	S32	M3	40	8	250
WMTSL/R	S32	M3	44	12	250
WMTSL/R	S40	M3	46	6	300
WMTSL/R	S40	M3	48	8	300
WMTSL/R	S40	M3	52	12	300
WMTSL/R	S20	M4	26	6	180
WMTSL/R	S20	M4	28	8	180
WMTSL/R	S25	M4	31	6	200
WMTSL/R	S25	M4	33	8	200
WMTSL/R	S25	M4	37	12	200
WMTSL/R	S32	M4	38	6	250



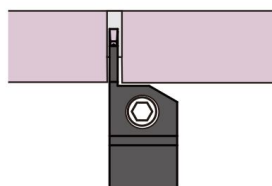
MODEL NO			DIMENSION(in mm)		
			ØB	ap	L
WMTSL/R	S32	M4	40	8	250
WMTSL/R	S32	M4	44	12	250
WMTSL/R	S40	M4	46	6	300
WMTSL/R	S40	M4	48	8	300
WMTSL/R	S40	M4	52	12	300
WMTSL/R	S16	M5	22	6	150
WMTSL/R	S16	M5	24	8	150
WMTSL/R	S20	M5	26	6	180
WMTSL/R	S20	M5	28	8	180
WMTSL/R	S25	M5	31	6	200
WMTSL/R	S25	M5	33	8	200
WMTSL/R	S25	M5	37	12	200
WMTSL/R	S32	M5	38	6	250
WMTSL/R	S32	M5	40	8	250
WMTSL/R	S32	M5	44	12	250
WMTSL/R	S40	M5	46	6	300
WMTSL/R	S40	M5	48	8	300
WMTSL/R	S40	M5	52	12	300
WMTSL/R	S16	M6	22	6	150
WMTSL/R	S16	M6	24	8	150
WMTSL/R	S20	M6	26	6	180
WMTSL/R	S20	M6	28	8	180
WMTSL/R	S25	M6	31	6	200
WMTSL/R	S25	M6	33	8	200
WMTSL/R	S25	M6	37	12	200
WMTSL/R	S32	M6	38	6	250
WMTSL/R	S32	M6	40	8	250
WMTSL/R	S32	M6	44	12	250
WMTSL/R	S40	M6	46	6	300
WMTSL/R	S40	M6	48	8	300
WMTSL/R	S40	M6	52	12	300



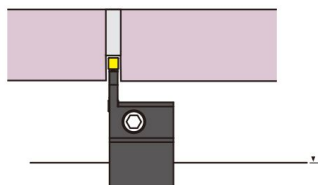
MODEL NO			DIMENSION(in mm)		
			ØB	ap	L
TTIL/R	S16	M2	22	6	150
TTIL/R	S16	M2	24	8	150
TTIL/R	S20	M2	26	6	180
TTIL/R	S20	M2	28	8	180
TTIL/R	S25	M2	31	6	200
TTIL/R	S25	M2	33	8	200
TTIL/R	S25	M2	37	12	200
TTIL/R	S32	M2	38	6	250
TTIL/R	S32	M2	40	8	250
TTIL/R	S32	M2	44	12	250
TTIL/R	S40	M2	46	6	300
TTIL/R	S40	M2	48	8	300
TTIL/R	S40	M2	52	12	300
TTIL/R	S16	M3	22	6	150
TTIL/R	S16	M3	24	8	150
TTIL/R	S20	M3	26	6	180
TTIL/R	S20	M3	28	8	180
TTIL/R	S25	M3	31	6	200
TTIL/R	S25	M3	33	8	200
TTIL/R	S25	M3	37	12	200
TTIL/R	S32	M3	38	6	250
TTIL/R	S32	M3	40	8	250
TTIL/R	S32	M3	44	12	250
TTIL/R	S40	M3	46	6	300
TTIL/R	S40	M3	48	8	300
TTIL/R	S40	M3	52	12	300
TTIL/R	S16	M4	22	6	150
TTIL/R	S16	M4	24	8	150
TTIL/R	S20	M4	26	6	180



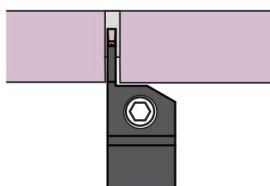
MODEL NO			DIMENSION(in mm)		
			ØB	ap	L
TTIL/R	S20	M4	28	8	180
TTIL/R	S25	M4	31	6	200
TTIL/R	S25	M4	33	8	200
TTIL/R	S25	M4	37	12	200
TTIL/R	S32	M4	38	6	250
TTIL/R	S32	M4	40	8	250
TTIL/R	S32	M4	44	12	250
TTIL/R	S40	M4	46	6	300
TTIL/R	S40	M4	48	8	300
TTIL/R	S40	M4	52	12	300
TTIL/R	S16	M5	22	6	150
TTIL/R	S16	M5	24	8	150
TTIL/R	S20	M5	26	6	180
TTIL/R	S20	M5	28	8	180
TTIL/R	S25	M5	31	6	200
TTIL/R	S25	M5	33	8	200
TTIL/R	S25	M5	37	12	200
TTIL/R	S32	M5	38	6	250
TTIL/R	S32	M5	40	8	250
TTIL/R	S32	M5	44	12	250
TTIL/R	S40	M5	46	6	300
TTIL/R	S40	M5	48	8	300
TTIL/R	S40	M5	52	12	300
TTIL/R	S16	M6	22	6	150
TTIL/R	S16	M6	24	8	150
TTIL/R	S20	M6	26	6	180
TTIL/R	S20	M6	28	8	180
TTIL/R	S25	M6	31	6	200
TTIL/R	S25	M6	33	8	200
TTIL/R	S25	M6	37	12	200
TTIL/R	S32	M6	38	6	250
TTIL/R	S32	M6	40	8	250
TTIL/R	S32	M6	44	12	250
TTIL/R	S40	M6	46	6	300
TTIL/R	S40	M6	48	8	300
TTIL/R	S40	M6	52	12	300



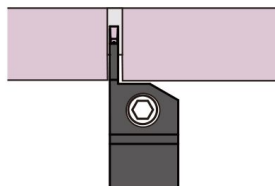
MODEL NO				DIMENSION(in mm)			W
				A	E	L	
WMTSR/L	1616	M2	T12	16	12	125	2
WMTSR/L	1616	M2	T16	16	16	125	2
WMTSR/L	2020	M2	T12	20	12	125	2
WMTSR/L	2020	M2	T16	20	16	125	2
WMTSR/L	2020	M2	T22	20	22	125	2
WMTSR/L	2525	M2	T12	25	12	150	2
WMTSR/L	2525	M2	T16	25	16	150	2
WMTSR/L	2525	M2	T22	25	22	150	2
WMTSR/L	3232	M2	T12	32	12	175	2
WMTSR/L	3232	M2	T16	32	16	175	2
WMTSR/L	3232	M2	T22	32	22	175	2
WMTSR/L	1616	M3	T12	16	12	125	3
WMTSR/L	1616	M3	T16	16	16	125	3
WMTSR/L	2020	M3	T12	20	12	125	3
WMTSR/L	2020	M3	T16	20	16	125	3
WMTSR/L	2020	M3	T22	20	22	125	3
WMTSR/L	2020	M3	T25	20	25	125	3
WMTSR/L	2020	M3	T30	20	30	125	3
WMTSR/L	2525	M3	T12	25	12	150	3
WMTSR/L	2525	M3	T16	25	16	150	3
WMTSR/L	2525	M3	T22	25	22	150	3
WMTSR/L	2525	M3	T25	25	25	150	3
WMTSR/L	2525	M3	T30	25	30	150	3
WMTSR/L	3232	M3	T12	32	12	175	3
WMTSR/L	3232	M3	T16	32	16	175	3
WMTSR/L	3232	M3	T22	32	22	175	3
WMTSR/L	3232	M3	T25	32	25	175	3
WMTSR/L	3232	M3	T30	32	30	175	3
WMTSR/L	2020	M4	T12	20	12	125	4
WMTSR/L	2020	M4	T16	20	16	125	4



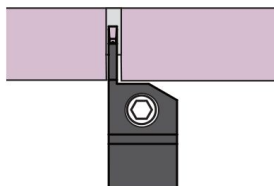
MODEL NO				DIMENSION(in mm)			W
				A	E	L	
WM TSR/L	2020	M4	T22	20	22	125	4
WM TSR/L	2020	M4	T25	20	25	125	4
WM TSR/L	2020	M4	T30	20	30	125	4
WM TSR/L	2525	M4	T12	25	12	150	4
WM TSR/L	2525	M4	T16	25	16	150	4
WM TSR/L	2525	M4	T22	25	22	150	4
WM TSR/L	2525	M4	T25	25	25	150	4
WM TSR/L	2525	M4	T30	25	30	150	4
WM TSR/L	3232	M4	T12	32	12	175	4
WM TSR/L	3232	M4	T16	32	16	175	4
WM TSR/L	3232	M4	T22	32	22	175	4
WM TSR/L	3232	M4	T25	32	25	175	4
WM TSR/L	3232	M4	T30	32	30	175	4
WM TSR/L	2020	M5	T12	20	12	125	5
WM TSR/L	2020	M5	T16	20	16	125	5
WM TSR/L	2020	M5	T22	20	22	125	5
WM TSR/L	2020	M5	T25	20	25	125	5
WM TSR/L	2020	M5	T30	20	30	125	5
WM TSR/L	2525	M5	T12	25	12	150	5
WM TSR/L	2525	M5	T16	25	16	150	5
WM TSR/L	2525	M5	T22	25	22	150	5
WM TSR/L	2525	M5	T25	25	25	150	5
WM TSR/L	2525	M5	T30	25	30	150	5
WM TSR/L	3232	M5	T12	32	12	175	5
WM TSR/L	3232	M5	T16	32	16	175	5
WM TSR/L	3232	M5	T22	32	22	175	5
WM TSR/L	3232	M5	T25	32	25	175	5
WM TSR/L	3232	M5	T30	32	30	175	5
WM TSR/L	2020	M6	T12	20	12	125	6
WM TSR/L	2020	M6	T16	20	16	125	6



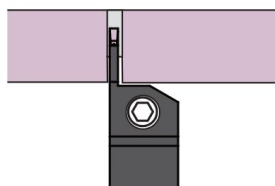
MODEL NO				DIMENSION(MM)	
				E	L
WMTSR/L	2020	M6	T22	22	125
WMTSR/L	2020	M6	T25	25	125
WMTSR/L	2020	M6	T30	30	125
WMTSR/L	2525	M6	T 12	12	150
WMTSR/L	2525	M6	T16	16	150
WMTSR/L	2525	M6	T22	22	150
WMTSR/L	2525	M6	T25	25	150
WMTSR/L	2525	M6	T30	30	150
WMTSR/L	3232	M6	T12	12	175
WMTSR/L	3232	M6	T16	16	175
WMTSR/L	3232	M6	T22	22	175
WMTSR/L	3232	M6	T25	25	175
WMTSR/L	3232	M6	T30	30	175



MODEL NO				DIMENSION(MM)
				L
TTEL/R	1616	M2	T12	125
TTEL/R	1616	M2	T16	125
TTEL/R	2020	M2	T12	125
TTEL/R	2020	M2	T16	125
TTEL/R	2020	M2	T22	125
TTEL/R	2525	M2	T12	150
TTEL/R	2525	M2	T16	150
TTEL/R	2525	M2	T22	150
TTEL/R	3232	M2	T12	175
TTEL/R	3232	M2	T16	175
TTEL/R	3232	M2	T22	175
TTEL/R	1616	M3	T12	125
TTEL/R	1616	M3	T16	125
TTEL/R	2020	M3	T12	125
TTEL/R	2020	M3	T16	125
TTEL/R	2020	M3	T22	125
TTEL/R	2020	M3	T25	125
TTEL/R	2020	M3	T30	125
TTEL/R	2525	M3	T12	150
TTEL/R	2525	M3	T16	150
TTEL/R	2525	M3	T22	150
TTEL/R	2525	M3	T25	150
TTEL/R	2525	M3	T30	150
TTEL/R	3232	M3	T12	175
TTEL/R	3232	M3	T16	175
TTEL/R	3232	M3	T22	175
TTEL/R	3232	M3	T25	175
TTEL/R	3232	M3	T30	175



MODEL NO				DIMENSION(MM)
				L
TTEL/R	2020	M4	T16	125
TTEL/R	2020	M4	T22	125
TTEL/R	2020	M4	T25	125
TTEL/R	2020	M4	T30	125
TTEL/R	2525	M4	T12	150
TTEL/R	2525	M4	T16	150
TTEL/R	2525	M4	T22	150
TTEL/R	2525	M4	T25	150
TTEL/R	2525	M4	T30	150
TTEL/R	3232	M4	T12	175
TTEL/R	3232	M4	T16	175
TTEL/R	3232	M4	T22	175
TTEL/R	3232	M4	T25	175
TTEL/R	3232	M4	T30	175
TTEL/R	2020	M5	T12	125
TTEL/R	2020	M5	T16	125
TTEL/R	2020	M5	T22	125
TTEL/R	2020	M5	T25	125
TTEL/R	2020	M5	T30	125
TTEL/R	2525	M5	T12	150
TTEL/R	2525	M5	T16	150
TTEL/R	2525	M5	T22	150
TTEL/R	2525	M5	T25	150
TTEL/R	2525	M5	T30	150
TTEL/R	3232	M5	T12	175
TTEL/R	3232	M5	T16	175
TTEL/R	3232	M5	T22	175
TTEL/R	3232	M5	T25	175
TTEL/R	3232	M5	T30	175
TTEL/R	2020	M6	T12	125
TTEL/R	2020	M6	T16	125



MODEL NO				DIMENSION(MM)
				L
TTEL/R	2020	M6	T25	125
TTEL/R	2020	M6	T30	125
TTEL/R	2525	M6	T12	150
TTEL/R	2525	M6	T16	150
TTEL/R	2525	M6	T22	150
TTEL/R	2525	M6	T25	150
TTEL/R	2525	M6	T30	150
TTEL/R	3232	M6	T12	180
TTEL/R	3232	M6	T16	180
TTEL/R	3232	M6	T22	180
TTEL/R	3232	M6	T25	180
TTEL/R	3232	M6	T30	180

S10K IGXL/R



MODEL NO			MIN BORE DIA	DIMENSION(MM)	
			ØB	ap	L
IGXL/R	S10K	M2	13	T3	125
IGXL/R	S10K	M3	13	T3	125
IGXL/R	S12M	M2	15	T3	125
IGXL/R	S12M	M3	15	T3	125



MODEL NO				STOCK	Range ØD		L
					Max	Min	
TGFPR/L	20	M3	T10	●	22	36	125
TGFPR/L	20	M4	T10	●	22	36	125
TGFPR/L	20	M3	T10	●	28	42	125
TGFPR/L	20	M4	T10	●	28	42	125
TGFPR/L	20	M3	T10	●	40	70	125
TGFPR/L	20	M3	T16	●	40	70	125
TGFPR/L	20	M3	T10	●	40	70	125
TGFPR/L	20	M4	T16	●	40	70	125
TGFPR/L	20	M3	T10	●	62	120	125
TGFPR/L	20	M3	T16	●	62	120	125
TGFPR/L	20	M4	T10	●	62	120	125
TGFPR/L	20	M4	T16	●	62	120	125
TGFPR/L	20	M3	T16	●	112	200	125
TGFPR/L	20	M3	T22	●	112	200	125
TGFPR/L	20	M4	T16	●	112	200	125
TGFPR/L	20	M4	T16	●	112	200	125
TGFPR/L	20	M3	T16	●	200	300	125
TGFPR/L	20	M3	T22	●	200	300	125
TGFPR/L	20	M4	T16	●	200	300	125
TGFPR/L	20	M4	T22	●	200	300	125



MODEL NO				STOCK	Range ØD		L
					Max	Min	
TGFPR/L	25	M3	T10	●	22	36	150
TGFPR/L	25	M4	T10	●	22	36	150
TGFPR/L	25	M3	T10	●	28	42	150
TGFPR/L	25	M4	T10	●	28	42	150
TGFPR/L	25	M3	T10	●	40	70	150
TGFPR/L	25	M3	T16	●	40	70	150
TGFPR/L	25	M4	T10	●	40	70	150
TGFPR/L	25	M4	T16	●	40	70	150
TGFPR/L	25	M3	T10	●	62	120	150
TGFPR/L	25	M3	T16	●	62	120	150
TGFPR/L	25	M4	T10	●	62	120	150
TGFPR/L	25	M4	T16	●	62	120	150
TGFPR/L	25	M3	T16	●	112	200	150
TGFPR/L	25	M3	T22	●	112	200	150
TGFPR/L	25	M4	T16	●	112	200	150
TGFPR/L	25	M4	T22	●	112	200	150
TGFPR/L	25	M3	T16	●	200	300	150
TGFPR/L	25	M3	T22	●	200	300	150
TGFPR/L	25	M4	T16	●	200	300	150
TGFPR/L	25	M4	T25	●	200	300	150



MODEL NO				STOCK	Range ØD		L	W
					Max	Min		
WMFTR/L	20	M3	T10	●	22	36	150	3
WMFTR/L	20	M4	T16	●	22	36	150	4
WMFTR/L	20	M4	T10	●	22	36	150	4
WMFTR/L	20	M4	T16	●	22	36	150	4
WMFTR/L	20	M3	T10	●	28	42	150	3
WMFTR/L	20	M3	T16	●	28	42	150	3
WMFTR/L	20	M4	T10	●	28	42	150	4
WMFTR/L	20	M4	T16	●	28	42	150	4
WMFTR/L	20	M3	T10	●	40	70	150	3
WMFTR/L	20	M3	T16	●	40	70	150	3
WMFTR/L	20	M3	T22	●	40	70	150	3
WMFTR/L	20	M4	T10	●	40	70	150	4
WMFTR/L	20	M4	T16	●	40	70	150	4
WMFTR/L	20	M4	T22	●	40	70	150	4
WMFTR/L	20	M3	T10	●	62	120	150	3
WMFTR/L	20	M3	T16	●	62	120	150	3
WMFTR/L	20	M3	T22	●	62	120	150	3
WMFTR/L	20	M3	T28	●	62	120	150	3
WMFTR/L	20	M4	T10	●	62	120	150	4
WMFTR/L	20	M4	T16	●	62	120	150	4
WMFTR/L	20	M4	T22	●	62	120	150	4
WMFTR/L	20	M4	T28	●	62	120	150	4
WMFTR/L	20	M3	T16	●	162	200	150	3
WMFTR/L	20	M3	T22	●	162	200	150	3
WMFTR/L	20	M3	T28	●	162	200	150	3
WMFTR/L	20	M4	T16	●	162	200	150	4
WMFTR/L	20	M4	T22	●	162	200	150	4
WMFTR/L	20	M4	T28	●	162	200	150	4
WMFTR/L	20	M3	T16	●	200	300	150	3
WMFTR/L	20	M3	T22	●	200	300	150	3
WMFTR/L	20	M3	T28	●	200	300	150	3
WMFTR/L	20	M4	T16	●	200	300	150	4
WMFTR/L	20	M4	T22	●	200	300	150	4
WMFTR/L	20	M4	T28	●	200	300	150	4



MODEL NO				STOCK	Range ØD		L
					Max	Min	
WMFR/L	25	M3	T10	●	22	36	150
WMFR/L	25	M4	T16	●	22	36	150
WMFR/L	25	M4	T10	●	22	36	150
WMFR/L	25	M4	T16	●	22	36	150
WMFR/L	25	M3	T10	●	28	42	150
WMFR/L	25	M3	T16	●	28	42	150
WMFR/L	25	M4	T10	●	28	42	150
WMFR/L	25	M4	T16	●	28	42	150
WMFR/L	25	M3	T10	●	40	70	150
WMFR/L	25	M3	T16	●	40	70	150
WMFR/L	25	M3	T22	●	40	70	150
WMFR/L	25	M4	T10	●	40	70	150
WMFR/L	25	M4	T16	●	40	70	150
WMFR/L	25	M4	T22	●	40	70	150
WMFR/L	25	M3	T10	●	62	120	150
WMFR/L	25	M3	T16	●	62	120	150
WMFR/L	25	M3	T22	●	62	120	150
WMFR/L	25	M3	T28	●	62	120	150
WMFR/L	25	M4	T10	●	62	120	150
WMFR/L	25	M4	T16	●	62	120	150
WMFR/L	25	M4	T22	●	62	120	150
WMFR/L	25	M4	T28	●	62	120	150
WMFR/L	25	M3	T16	●	162	200	150
WMFR/L	25	M3	T22	●	162	200	150
WMFR/L	25	M3	T28	●	162	200	150
WMFR/L	25	M4	T16	●	162	200	150
WMFR/L	25	M4	T22	●	162	200	150
WMFR/L	25	M4	T28	●	162	200	150
WMFR/L	25	M3	T16	●	200	300	150
WMFR/L	25	M3	T22	●	200	300	150
WMFR/L	25	M3	T28	●	200	300	150
WMFR/L	25	M4	T16	●	200	300	150
WMFR/L	25	M4	T22	●	200	300	150
WMFR/L	25	M4	T28	●	200	300	150



NOTES

[illegible]