

The Front Max

For External turning | CNC automatic lathes



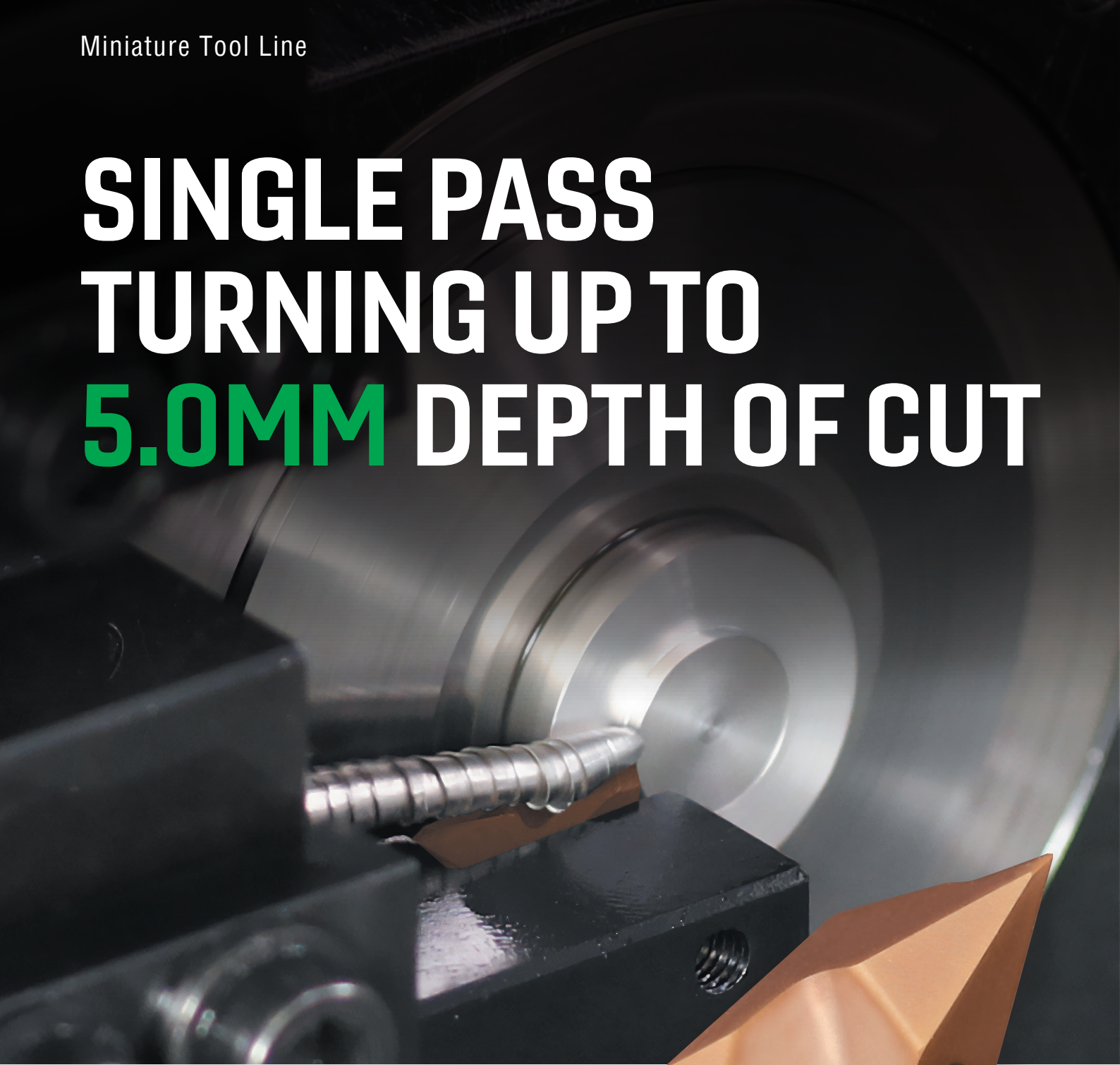
Single pass machining of up to 5.0mm depth of cut

Significant reduction in cycle time due to large depth of cut capability

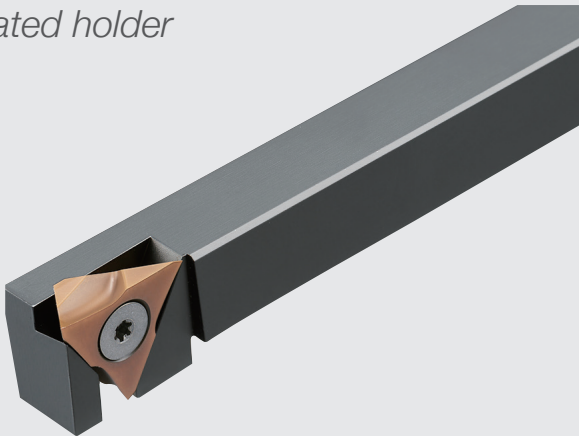
CERtainly (but not only) ***CERamics***
Outstanding solutions for demanding applications

Miniature Tool Line

SINGLE PASS TURNING UP TO **5.0MM** DEPTH OF CUT



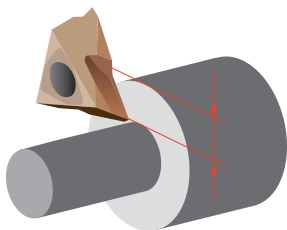
Dedicated holder



The Front Max

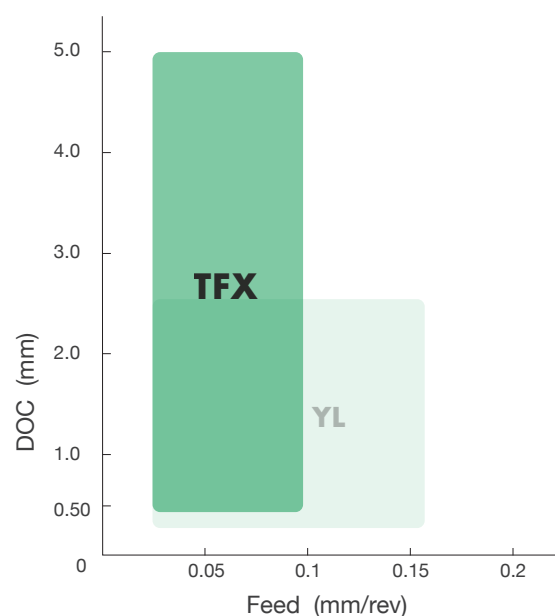
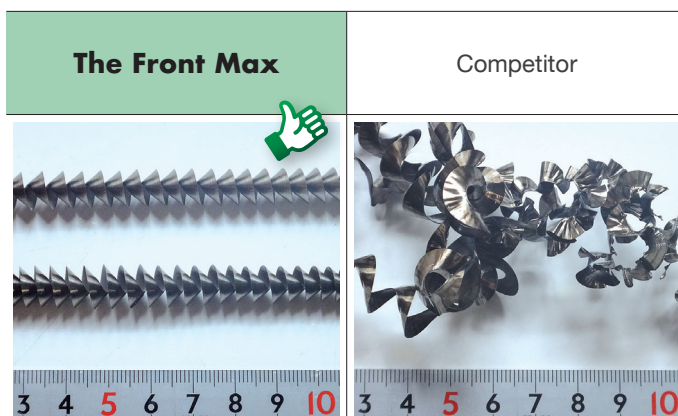
Maximum depth of cut 5.0 mm
 Single pass machining reduces cycle time.
 Fewer machining passes reduce insert wear.
 Tool life can be extended.

Uniquely Designed Chipbreaker
 Achieves Excellent Chip Control
 And Machined Surfaces.



Max 5.0mm

FUNCTIONING RANGE



material: AISI304

ap5.0mm vc=80m/min f=0.03mm/rev WET

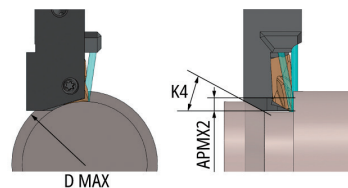
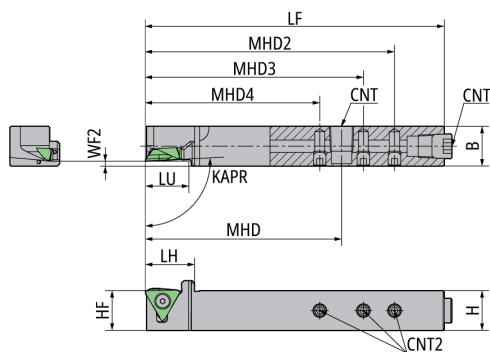


For more information

Front Turning Operations

TF.. series/Toolholder

TFT-OH3 [93 °] Coolant through (direct connect compatible) The Front Max.



[Workpiece shape restrictions during machining]
 DMAX: Max. bar stock diameter during APMX2 max DOC
 K4: Max. taper angle
 APMX2: Max depth of cut

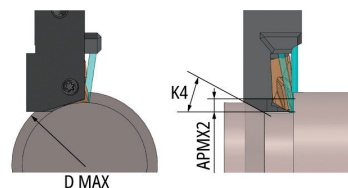
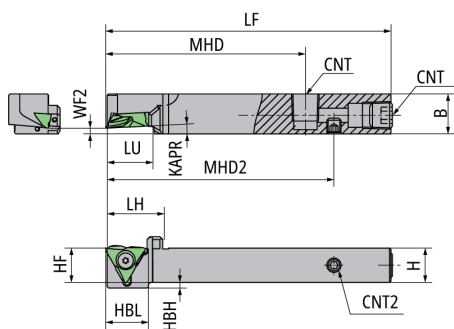
● Diagram shows right-hand tool

EDP	Item Number	Stock	Hand	DMAX mm	APMX2 mm	K4 °	B mm	CNT	CNT2	H mm	HF mm	KAPR °	LF mm	LH mm	LU mm	MHD mm	MHD2 mm	MHD3 mm	MHD4 mm	WF2 mm	Insert	Gage
5121801	TFTR1616X-OH3		R	40	2.5	30	16	Rc1/8	M5	16	16	93	120	19.75	18	78.75	100	87.5	70	2	TFX33..	TF33..

Spare Parts

Item Number	Clamp screw	Screw (for CNT)	Screw (for CNT2)	Wrench (for Clamp screw)	Wrench (for CNT2)
TFTR1616X-OH3	LR-S-4*10PW	SPR1/8L	SS0505SC	CLR-15S	LW-2.5

TFT-OH2 [93°] Coolant through (direct connect compatible) The Front Max.



[Workpiece shape restrictions during machining]
 DMAX: Max. bar stock diameter during APMX2 max DOC
 K4: Max. taper angle
 APMX2: Max depth of cut

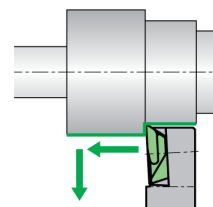
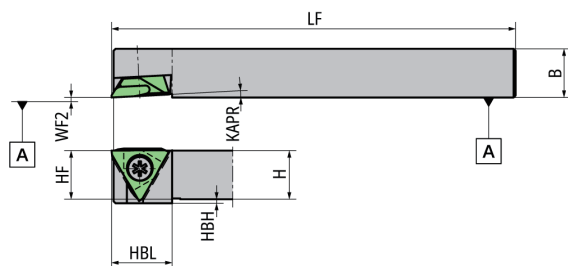
● Diagram shows right-hand tool

EDP	Item Number	Stock	Hand	DMAX mm	APMX2 mm	K4 °	B mm	CNT	CNT2	H mm	HBH mm	HBL mm	HF mm	KAPR °	LF mm	LH mm	LU mm	MHD mm	MHD2 mm	WF2 mm	Insert	Gage
5030630	TFTR1014H-OH2		R	20	2.5	30	14	M6*1	M5	10	4	15	10	3	100	20	15	70	80	2	TFX33..	TF33..
5030648	TFTR1214H-OH2		R	30	2.5	30	14	Rc1/8	M5	12	2	15	12	3	100	20	15	70	80	2	TFX33..	TF33..
5030655	TFTR1616X-OH2		R	40	2.5	30	16	Rc1/8	M5	16	-	-	16	3	120	20	17.5	70	100	2	TFX33..	TF33..

Spare Parts

Item Number	Clamp screw	Screw (for CNT)	Screw (for CNT2)	Wrench (for Clamp screw)	Wrench (for CNT2)
TFTR1014H-OH2	LR-S-4*10PW	SS0605SC	SS0505SC	CLR-15S	LW-2.5
TFTR1214H-OH2	LR-S-4*10PW	SPR1/8	SS0505SC	CLR-15S	LW-2.5
TFTR1616X-OH2	LR-S-4*10PW	SPR1/8L	SS0505SC	CLR-15S	LW-2.5

TFT [93°]



● Diagram shows right-hand tool

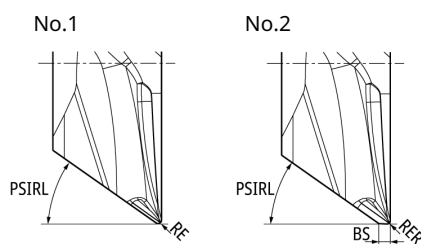
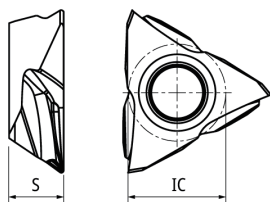
EDP	Item Number	Stock	Hand	B mm	H mm	HBH mm	HBL mm	HF mm	KAPR °	LF mm	WF2 mm	Insert Gage	
5196993	TFTR10	●	R	10	10	3	15	10	3	120	0	TFX33..	TF33..
5197025	TFTR12	●	R	12	12	1	15	12	3	120	0	TFX33..	TF33..
5205190	TFTR16	●	R	16	16	–	–	16	3	120	0	TFX33..	TF33..
5562723	TFTR20	●	R	20	20	–	–	20	3	120	0	TFX33..	TF33..

Spare Parts

Item Number	Clamp screw	Wrench (for Clamp screw)
TFTR10	LR-S-4*10PW	CLR-15S
TFTR12	LR-S-4*10PW	CLR-15S
TFTR16	LR-S-4*10PW	CLR-15S
TFTR20	LR-S-4*10PW	CLR-15S

TF.. series/Inserts

TFX The Front Max



● Diagram shows right-hand tool
All angles shown are obtained when insert is set in the holder.

Figure	Item Number	Hand	Wiper	APMX	IC	S	BS	PSIRL	RE	RER	Carbide PVD	
				mm	mm	mm	mm	°	mm	mm	DM4	ST4
1	TFX3301MR	R	No	5	9.525	4.76	–	32	0.08	–	●	●
1	TFX3302MR	R	No	5	9.525	4.76	–	32	0.18	–	●	●
1	TFX3304MR	R	No	5	9.525	4.76	–	32	0.38	–	●	●
2	TFX3301MRW	R	Straight	5	9.525	4.76	0.5	32	–	0.08	●	●
2	TFX3302MRW	R	Straight	5	9.525	4.76	0.5	32	–	0.18	●	●
2	TFX3304MRW	R	Straight	5	9.525	4.76	0.5	32	–	0.38	●	●



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