

Grooving Programme

Flexible Line

Grooving

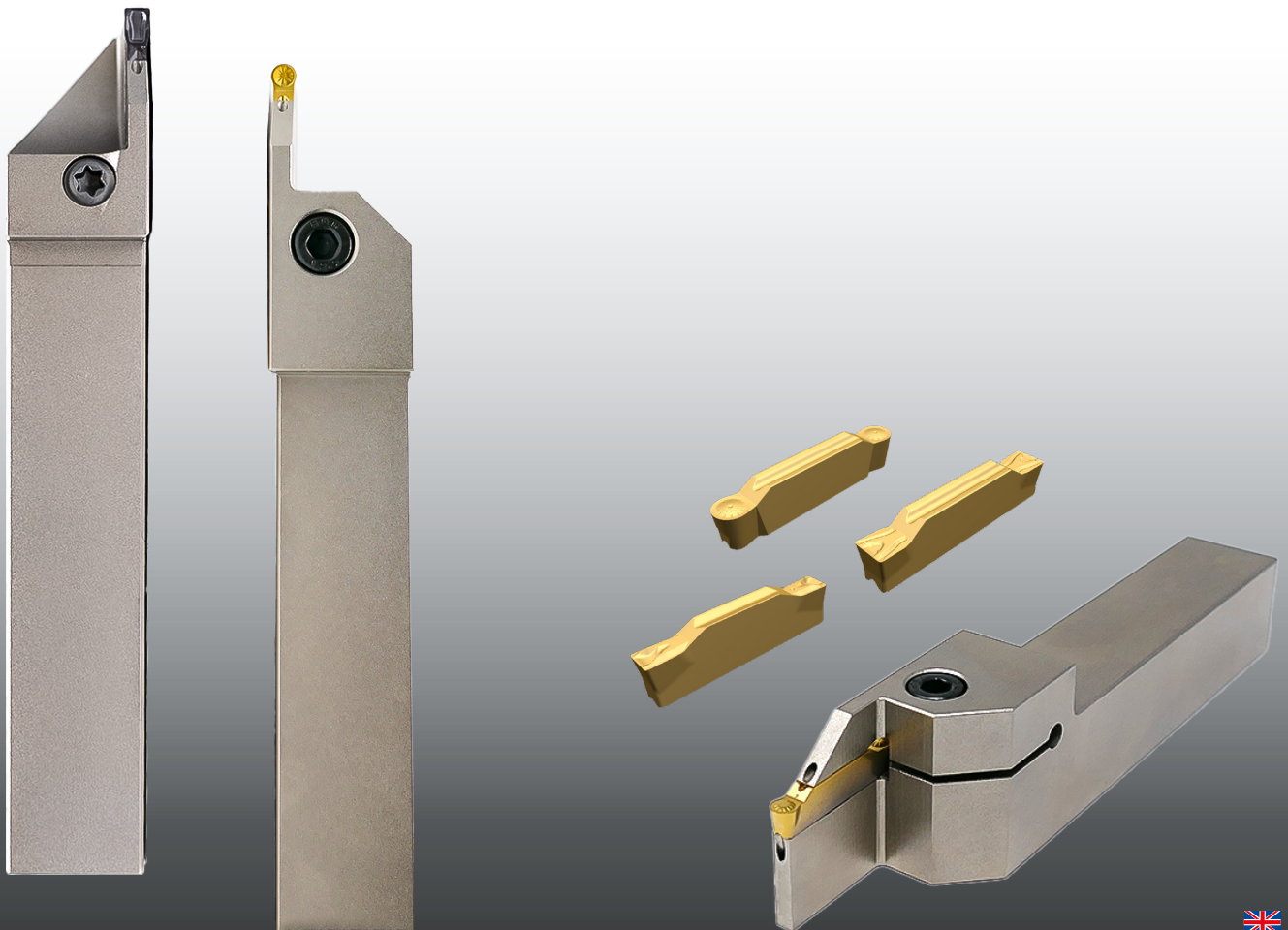


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Precise Grooving to the Highest Standards

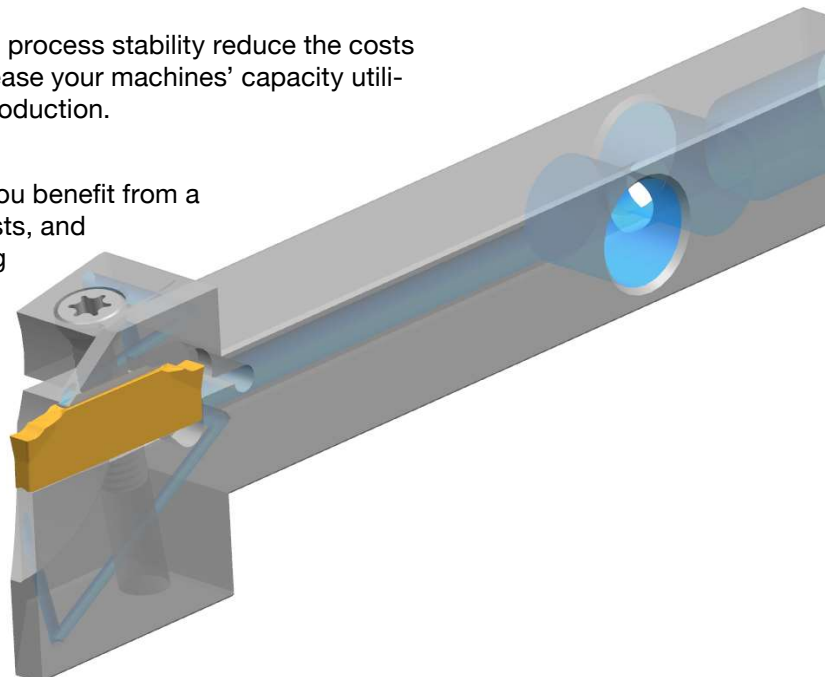
Our new grooving programme has been designed explicitly for grooving, parting-off, groove turning and profile grooving. The system offers a combination of high-quality indexable inserts, stable groove holders, and continuous internal coolant.

The result is a maximum level of process reliability, high dimensional accuracy and outstanding surface finish consistency.

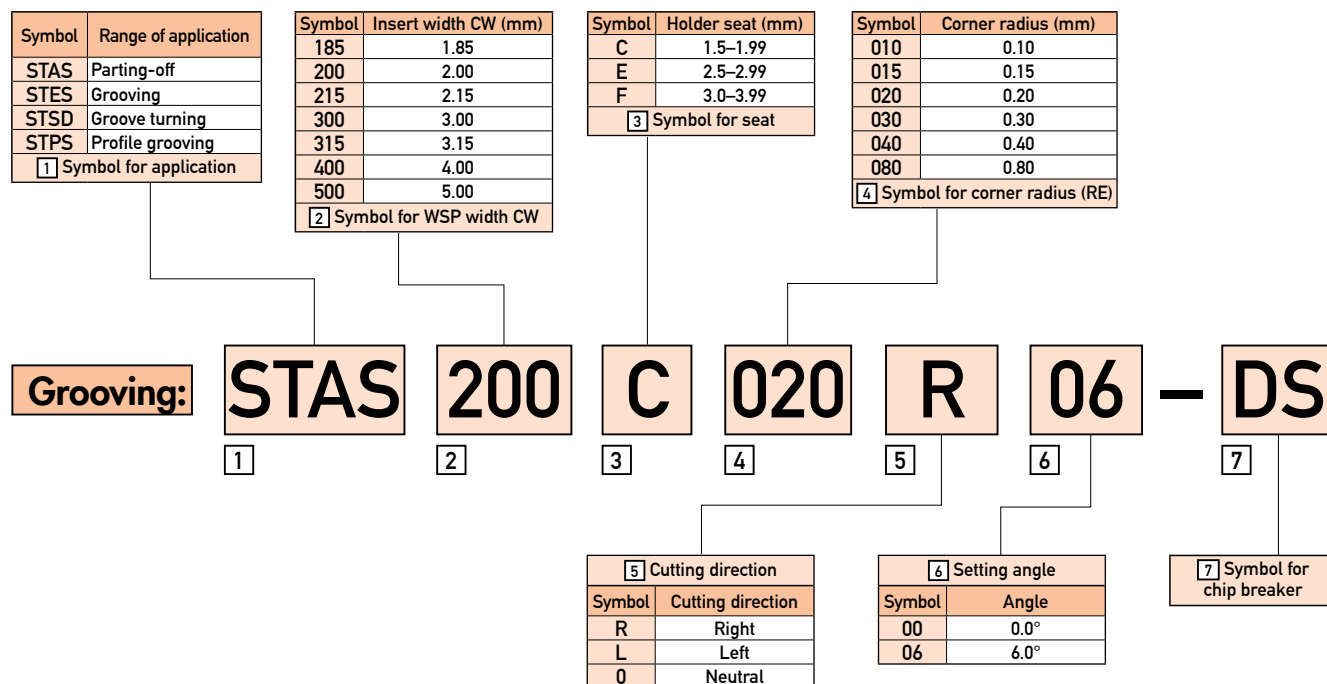
Significant benefits that will boost your productivity!

- **Internal coolant in all holders**
The coolant is fed directly into the cutting zone, effectively dissipating the heat. This reduces wear, increases tool life and ensures high process stability – even when machining difficult materials such as special alloys.
- **The controlled chip removal ensures stable processes**
The combination of optimised cutting geometry and integrated internal coolant guarantees reliable chip formation. Chip jams in tight grooves are avoided, reducing machine downtime.
- **High surface finish is ensured by reduced heat impact**
Targeted cooling and low-vibration cutting ensure burr-free cutting edges and outstanding surfaces. There is no need for additional reworking, making your process chain more efficient.
- **High flexibility and cost-effectiveness**
Our programme covers standard and special applications in steel, stainless steel, cast iron and special alloys. With a variety of grades and graduated grooving widths, our grooving programme is suitable for everyday use and complex profile geometries.
- **Efficient tool management**
The modular holder system and matching range of inserts help to reduce both your storage requirements and handling effort.
- **Lower costs per part**
Extended tool life, fewer tool changes and high process stability reduce the costs per workpiece. At the same time, you can increase your machines' capacity utilisation and improve the predictability of your production.

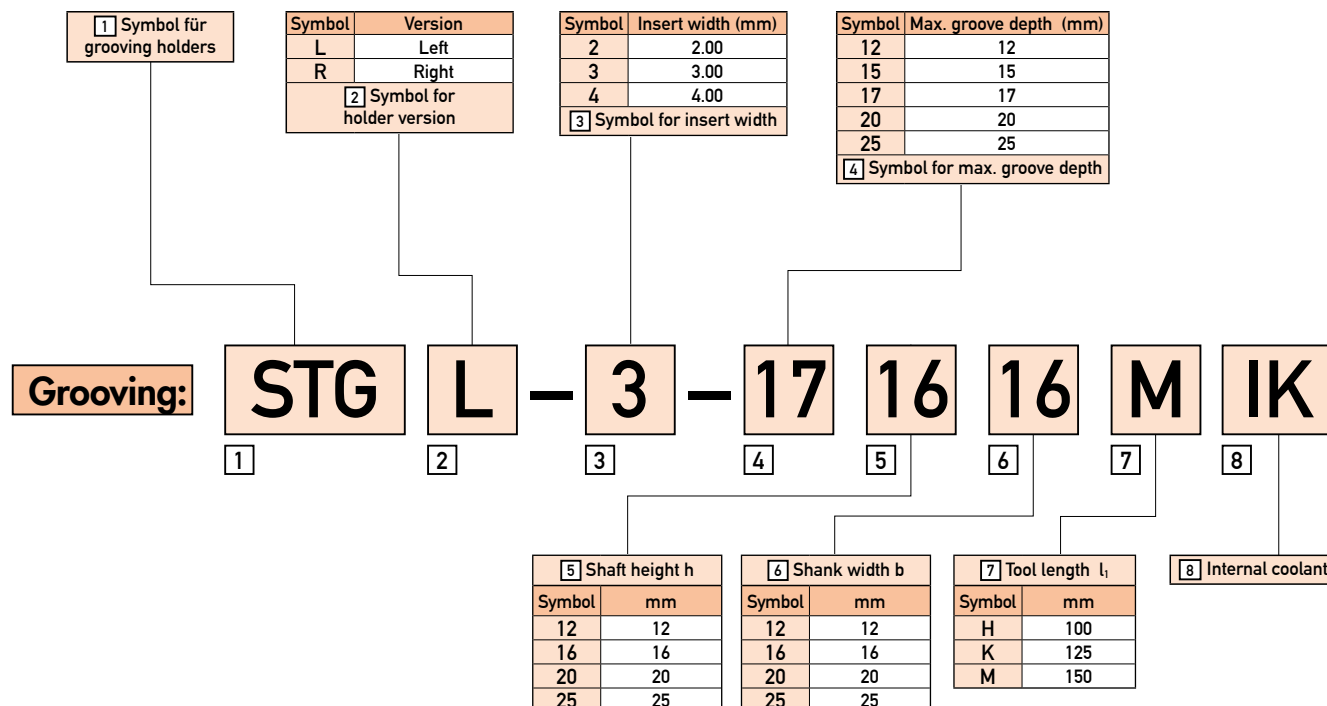
Conclusion: With our new grooving programme, you benefit from a measurable increase in efficiency, reduced unit costs, and high process reliability even in the most demanding machining applications.



Indexable Inserts – Identification system



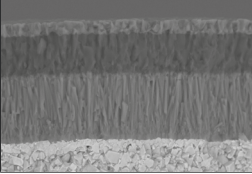
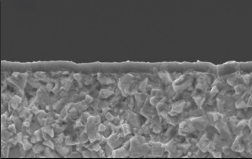
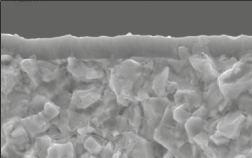
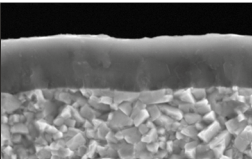
Grooving Holders – Identification system



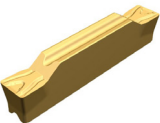
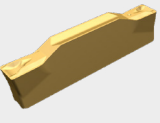
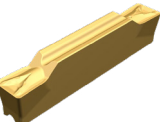
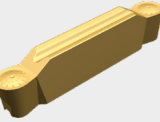
Carbide Grades and Coating – Applications

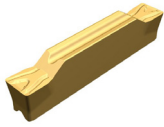
Steel					Inox					Cast iron					Nonferrous metal					Super alloys				
P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	K40	N01	N10	N20	N30	N40	S01	S10	S20	S30	S40
Grooving																								
HM PVD			TF PZ31 25				TF PZ31 25				TF PZ31 25													
								TF PO51 35																TF PO51 35
HM CVD		TF CB32 20									TF CB32 20													
							TF CY22 30																	

Carbide Grades and Coating – Grooving

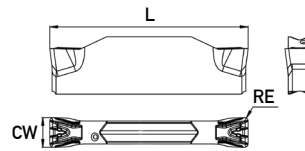
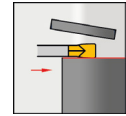
Carbide grade		Scope	Coating	Characteristics
P	TF CB32 20	Suitable for a wide range of cutting conditions at medium to high speeds		- Recommended for carbon steels and alloy steels - Brand new CVD coating with a unique low-stress re-treatment that matches the carbide substrate and provides perfect thermoplastic deformation resistance - Guarantees high wear resistance and toughness
PM	TF PZ31 25	For use with steel and stainless steel under unstable cutting conditions		- New PVD technology combined with a high-carbon carbide substrate - Excellent toughness and firm cutting edges
M	TF CY22 30	Recommended for continuous and slightly interrupted machining of stainless steel		- Thinner Al₂O₃ layer and nanocolumnar MT-TiCN layer with a gradient substrate - Retreatment to reduce cutting force and reduce built-up edges, improving stability
S	TF PO51 35	Recommended for general machining of high-temperature alloys and stainless steels under unstable conditions		- With a state-of-the-art PVD coating, combined with a high-cobalt carbide substrate - Exceptional versatility, as well as excellent wear and breaking resistance

Grooving Inserts – Overview

Type		Chip breaker					Suitability					Page
		DL	DM	DS	DSS		P	M	K	N	S	
STAS Parting-off	200C						P	M	K		S	7
	300E						P	M	K		S	7
	400F						P	M	K		S	7
STES Grooving	185C										S	9
	200C						P		K		S	9
	215C										S	9
	300E						P	M	K		S	9
	315E										S	9
	400F							M			S	9
	500F							M			S	9
STSD Groove turning	200C						P	M	K		S	10
	300E						P	M	K		S	10
	400F						P	M	K		S	10
STPS Profile grooving	200C						P	M	K		S	11
	400E						P		K		S	11
	400F										S	11
	500F						P	M	K		S	11



Parting-off STAS...


 Product family **770**


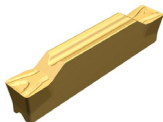
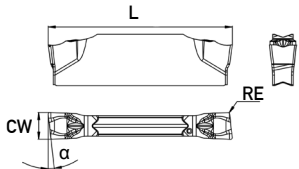
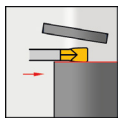
Radius	Machining	Grade	Type	Holder	Insert width [CW] Tolerance ± 0.05	α	Length	f_n Feed rate
mm					mm		mm	mm/rev
								min – Start – max
0.15		TF PZ31 25	STAS 200C01500-DL TF PZ31 25	STGR/L-2-12 1212 STGR/L-2-17 1616 STGR/L-2-15 2020 STGR/L-2-15 2525	2.00	0°	20.0	0.03 – 0.05 – 0.08
		TF PO51 35	STAS 200C01500-DL TF PO51 35		2.00	0°	20.0	0.03 – 0.05 – 0.08
		TF PZ31 25	STAS 200C015L06-DL TF PZ31 25		2.00	6°	21.0	0.03 – 0.05 – 0.08
		TF PO51 35	STAS 200C015L06-DL TF PO51 35		2.00	6°	21.0	0.03 – 0.05 – 0.08
		TF PZ31 25	STAS 200C015R06-DL TF PZ31 25		2.00	6°	21.0	0.03 – 0.05 – 0.08
		TF PO51 35	STAS 200C015R06-DL TF PO51 35		2.00	6°	21.0	0.03 – 0.05 – 0.08
		TF PZ31 25	STAS 300E01500-DL TF PZ31 25	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	0°	20.0	0.04 – 0.08 – 0.12
		TF PO51 35	STAS 300E01500-DL TF PO51 35		3.00	0°	20.0	0.04 – 0.08 – 0.12
		TF PZ31 25	STAS 300E015L06-DL TF PZ31 25		3.00	6°	21.0	0.04 – 0.08 – 0.12
		TF PO51 35	STAS 300E015L06-DL TF PO51 35		3.00	6°	21.0	0.04 – 0.08 – 0.12
		TF PZ31 25	STAS 300E015R06-DL TF PZ31 25		3.00	6°	21.0	0.04 – 0.08 – 0.12
		TF PO51 35	STAS 300E015R06-DL TF PO51 35		3.00	6°	21.0	0.04 – 0.08 – 0.12
		TF PZ31 25	STAS 400F01500-DL TF PZ31 25	STGR/L-4-20 2020 STGR/L-4-25 2525	4.00	0°	25.0	0.05 – 0.11 – 0.15
		TF PO51 35	STAS 400F01500-DL TF PO51 35		4.00	0°	25.0	0.08 – 0.15 – 0.22
0.20		TF PZ31 25	STAS 200C020L06-DS TF PZ31 25	STGR/L-2-12 1212 STGR/L-2-17 1616 STGR/L-2-15 2020 STGR/L-2-15 2525	2.00	6°	20.6	0.05 – 0.08 – 0.14
		TF PO51 35	STAS 200C020L06-DS TF PO51 35		2.00	6°	20.6	0.05 – 0.08 – 0.14
		TF PZ31 25	STAS 200C020R06-DS TF PZ31 25		2.00	6°	20.6	0.05 – 0.08 – 0.14
		TF PO51 35	STAS 200C020R06-DS TF PO51 35		2.00	6°	20.6	0.05 – 0.08 – 0.14
		TF PZ31 25	STAS 200C02000-DM TF PZ31 25		2.00	0°	20.0	0.05 – 0.07 – 0.12
		TF PO51 35	STAS 200C02000-DM TF PO51 35		2.00	0°	20.0	0.05 – 0.07 – 0.12
		TF PZ31 25	STAS 200C020L06-DM TF PZ31 25		2.00	6°	20.0	0.05 – 0.07 – 0.12
		TF PO51 35	STAS 200C020L06-DM TF PO51 35		2.00	6°	20.0	0.05 – 0.07 – 0.12
		TF PZ31 25	STAS 200C020R06-DM TF PZ31 25		2.00	6°	20.0	0.05 – 0.07 – 0.12
		TF PO51 35	STAS 200C020R06-DM TF PO51 35		2.00	6°	20.0	0.05 – 0.07 – 0.12

 * Cutting speed v_c : p. 12

Low feed rate

Medium feed rate

High feed rate

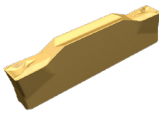
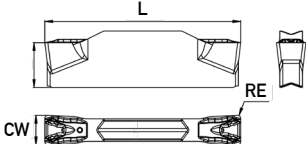
 Parting-off STAS...  Product family 770 								
Radius	Machining	Grade	Type	Holder	Insert width (CW) Tolerance ±0.05	α	Length	f_n Feed rate
mm					mm		mm	mm/rev
								min – Start – max
0.20		TF PZ31 25	STAS 300E020L06-DM TF PZ31 25	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	6°	21.0	0.05 – 0.11 – 0.16
		TF PO51 35	STAS 300E020L06-DM TF PO51 35		3.00	6°	21.0	0.05 – 0.11 – 0.16
		TF PZ31 25	STAS 300E02000-DM TF PZ31 25		3.00	0°	20.0	0.05 – 0.11 – 0.16
		TF PZ31 25	STAS 300E020R06-DM TF PZ31 25		3.00	6°	21.0	0.05 – 0.11 – 0.16
		TF PO51 35	STAS 300E020R06-DM TF PO51 35		3.00	6°	20.0	0.05 – 0.11 – 0.16
		TF PO51 35	STAS 400F02000-DM TF PO51 35	STGR/L-4-20 2020 STGR/L-4-25 2525	4.00	0°	21.0	0.06 – 0.12 – 0.18
		TF PZ31 25	STAS 400F02000-DM TF PZ31 25		4.00	0°	25.0	0.06 – 0.12 – 0.18
0.30		TF PO51 35	STAS 300E03000-DS TF PO51 35	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	0°	20.0	0.08 – 0.15 – 0.22
		TF PZ31 25	STAS 300E03000-DS TF PZ31 25		3.00	0°	20.0	0.08 – 0.15 – 0.22
		TF PO51 35	STAS 400F03000-DS TF PO51 35	STGR/L-4-20 2020 STGR/L-4-25 2525	4.00	0°	25.0	0.10 – 0.17 – 0.25
		TF PZ31 25	STAS 400F03000-DS TF PZ31 25		4.00	0°	25.0	0.10 – 0.17 – 0.25

 Low feed rate

 Medium feed rate

 High feed rate

* Cutting speed v_c : p. 12

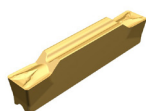
		Grooving STES...					Product family 770		
Radius	Machining	Grade	Type	Holder	Insert width [CW]	Length	f _s Feed rate		
mm					Tolerance ±0.05		mm/rev		
							min	– Start – max	
0.10		TF PO51 35	STES 185C01000-DL TF PO51 35	STGR/L-2-12 1212 STGR/L-2-17 1616 STGR/L-2-15 2020 STGR/L-2-15 2525	1.85	20.7	0.03 – 0.06 – 0.08		
		TF PO51 35	STES 215C01000-DL TF PO51 35		2.15	20.7	0.03 – 0.06 – 0.08		
0.20		TF PO51 35	STES 200C02000-DL TF PO51 35		2.00	20.0	0.03 – 0.06 – 0.08		
		TF PO51 35	STES 200C02000-DM TF PO51 35		2.00	20.0	0.03 – 0.07 – 0.10		
	TF CB32 20	STES 200C02000-DM TF CB32 20	2.00		20.0	0.03 – 0.07 – 0.10			
		TF CY22 30	STES 300E02000-DL TF CY22 30	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	20.7	0.04 – 0.08 – 0.12		
		TF PO51 35	STES 300E02000-DL TF PO51 35		3.00	20.7	0.04 – 0.08 – 0.12		
TF PO51 35		STES 315E02000-DL TF PO51 35	3.15		20.7	0.04 – 0.08 – 0.12			
		TF CY22 30	STES 400F02000-DL TF CY22 30	STGR/L-4-20 2020 STGR/L-4-25 2525	4.00	25.7	0.05 – 0.10 – 0.14		
		TF PO51 35	STES 400F02000-DL TF PO51 35		4.00	25.7	0.05 – 0.10 – 0.14		
		TF CY22 30	STES 500F02000-DL TF CY22 30		5.00	25.7	0.05 – 0.10 – 0.14		
	TF PO51 35	STES 500F02000-DL TF PO51 35	5.00		25.7	0.05 – 0.10 – 0.14			
0.30		TF CY22 30	STES 300E03000-DL TF CY22 30	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	20.7	0.04 – 0.08 – 0.12		
		TF PO51 35	STES 300E03000-DL TF PO51 35		3.00	20.7	0.04 – 0.08 – 0.12		
		TF CB32 20	STES 300E03000-DM TF CB32 20		3.00	20.0	0.05 – 0.09 – 0.14		
		TF PO51 35	STES 300E03000-DM TF PO51 35		3.00	20.0	0.05 – 0.09 – 0.14		
0.40		TF CY22 30	STES 300E04000-DL TF CY22 30		3.00	20.7	0.04 – 0.08 – 0.12		
		TF PO51 35	STES 300E04000-DL TF PO51 35		3.00	20.7	0.04 – 0.08 – 0.12		
			TF CY22 30	STES 400F04000-DL TF CY22 30	STGR/L-4-20 2020 STGR/L-4-25 2525	4.00	25.7	0.05 – 0.10 – 0.14	
			TF PO51 35	STES 400F04000-DL TF PO51 35		4.00	25.7	0.05 – 0.10 – 0.14	
			TF CY22 30	STES 500F04000-DL TF CY22 30		5.00	25.7	0.05 – 0.10 – 0.14	
			TF PO51 35	STES 500F04000-DL TF PO51 35		5.00	25.7	0.05 – 0.10 – 0.14	

 * Cutting speed v_c : p. 12

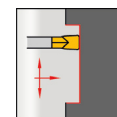
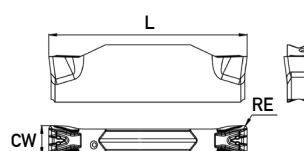
Low feed rate

Medium feed rate

High feed rate



Groove turning STSD...



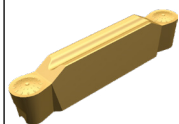
Radius	Machining	Grade	Type	Holder	Insert width (CW) Tolerance ±0.05	Length	f _n Radial Feed	f _n Axial Feed
mm					mm	mm	mm/rev	mm/rev
							min – Start – max	min – Start – max
0.20		TF CB32 20	STSD 200C02000-DL TF CB32 20	STGR/L-2-12 1212 STGR/L-2-17 1616 STGR/L-2-15 2020 STGR/L-2-15 2525	2.00	20.0	0.03 – 0.06 – 0.08	0.06 – 0.08 – 0.15
		TF PZ31 25	STSD 200C02000-DL TF PZ31 25		2.00	20.0	0.03 – 0.06 – 0.08	0.06 – 0.08 – 0.15
		TF PO51 35	STSD 200C02000-DL TF PO51 35		2.00	20.0	0.03 – 0.06 – 0.08	0.06 – 0.08 – 0.15
		TF CB32 20	STSD 200C02000-DM TF CB32 20		2.00	20.0	0.04 – 0.08 – 0.12	0.06 – 0.11 – 0.17
		TF PO51 35	STSD 200C02000-DM TF PO51 35		2.00	20.0	0.04 – 0.08 – 0.12	0.06 – 0.11 – 0.17
0.40		TF CB32 20	STSD 300E02000-DL TF CB32 20	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	20.0	0.03 – 0.09 – 0.12	0.06 – 0.10 – 0.18
		TF PO51 35	STSD 300E02000-DL TF PO51 35		3.00	20.0	0.03 – 0.09 – 0.12	0.06 – 0.10 – 0.18
		TF PO51 35	STSD 400F02000-DL TF PO51 35		4.00	25.0	0.05 – 0.12 – 0.14	0.08 – 0.14 – 0.24
		TF CY22 30	STSD 300E04000-DL TF CY22 30		3.00	20.0	0.03 – 0.09 – 0.12	0.06 – 0.12 – 0.20
		TF PO51 35	STSD 300E04000-DL TF PO51 35		3.00	20.0	0.03 – 0.09 – 0.12	0.06 – 0.12 – 0.20
		TF CB32 20	STSD 300E04000-DM TF CB32 20		3.00	20.0	0.05 – 0.12 – 0.14	0.08 – 0.14 – 0.22
		TF PZ31 25	STSD 300E04000-DM TF PZ31 25	STGR/L-3-20 2020 STGR/L-3-20 2525	3.00	20.0	0.05 – 0.12 – 0.14	0.08 – 0.14 – 0.22
		TF PO51 35	STSD 300E04000-DM TF PO51 35		3.00	20.0	0.05 – 0.12 – 0.14	0.08 – 0.14 – 0.22
		TF CB32 20	STSD 400F04000-DL TF CB32 20		4.00	25.0	0.05 – 0.11 – 0.18	0.08 – 0.14 – 0.24
		TF PO51 35	STSD 400F04000-DL TF PO51 35		4.00	25.0	0.05 – 0.12 – 0.14	0.08 – 0.14 – 0.22
		TF CB32 20	STSD 400F04000-DM TF CB32 20		4.00	25.0	0.06 – 0.12 – 0.22	0.08 – 0.15 – 0.25
		TF PZ31 25	STSD 400F04000-DM TF PZ31 25		4.00	25.0	0.06 – 0.12 – 0.22	0.08 – 0.15 – 0.25
0.80		TF PO51 35	STSD 400F08000-DL TF PO51 35	STGR/L-4-20 2020 STGR/L-4-25 2525	4.00	25.0	0.05 – 0.11 – 0.18	0.08 – 0.14 – 0.24
		TF CB32 20	STSD 400F08000-DM TF CB32 20		4.00	25.0	0.06 – 0.12 – 0.22	0.08 – 0.16 – 0.25
		TF PZ31 25	STSD 400F08000-DM TF PZ31 25		4.00	25.0	0.06 – 0.12 – 0.22	0.08 – 0.16 – 0.25
		TF PO51 35	STSD 400F08000-DM TF PO51 35		4.00	25.0	0.06 – 0.12 – 0.22	0.08 – 0.16 – 0.25

Low feed rate

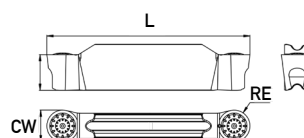
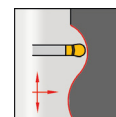
Medium feed rate

High feed rate

* Cutting speed v_c: p. 12



Profile grooving STPS...


 Product family **770**


Radius	Machining	Grade	Type	Holder	Insert width (CW) Tolerance ± 0.05	Length	f_n Radial Feed	f_n Axial Feed
mm					mm	mm	mm/rev	mm/rev
							min – Start – max	min – Start – max
1.00		TF CB32 20	STPS 200C10000-DM TF CB32 20	STGR/L-2-12 1212 STGR/L-2-17 1616 STGR/L-2-15 2020 STGR/L-2-15 2525	2.00	20.6	0.05 – 0.11 – 0.14	0.08 – 0.12 – 0.18
		TF PO51 35	STPS 200C10000-DM TF PO51 35		2.00	20.6	0.05 – 0.11 – 0.14	0.08 – 0.12 – 0.18
		TF CY22 30	STPS 200C10000-DSS TF CY22 30		2.00	20.6	0.05 – 0.10 – 0.12	0.18 – 0.30 – 0.50
		TF PO51 35	STPS 200C10000-DSS TF PO51 35		2.00	20.6	0.05 – 0.10 – 0.12	0.06 – 0.10 – 0.15
2.00		TF CB32 20	STPS 400E20000-DM TF CB32 20	STGR/L-3-12 1212 STGR/L-3-17 1616 STGR/L-3-20 2020 STGR/L-3-20 2525	4.00	20.0	0.10 – 0.12 – 0.16	0.12 – 0.22 – 0.35
		TF PO51 35	STPS 400E20000-DM TF PO51 35		4.00	20.0	0.10 – 0.12 – 0.16	0.12 – 0.22 – 0.35
		TF CB32 20	STPS 400F20000-DM TF CB32 20		4.00	25.7	0.10 – 0.14 – 0.20	0.18 – 0.30 – 0.50
		TF PO51 35	STPS 400F20000-DM TF PO51 35		4.00	25.7	0.10 – 0.14 – 0.20	0.18 – 0.30 – 0.50
		TF PO51 35	STPS 400F20000-DSS TF PO51 35		4.00	25.7	0.10 – 0.12 – 0.18	0.15 – 0.25 – 0.40
2.50		TF CB32 20	STPS 500F25000-DM TF CB32 20	STGR/L-4-20 2020 STGR/L-4-25 2525	5.00	25.7	0.12 – 0.20 – 0.25	0.20 – 0.32 – 0.60
		TF PO51 35	STPS 500F25000-DM TF PO51 35		5.00	25.7	0.12 – 0.20 – 0.25	0.20 – 0.32 – 0.60
		TF CY22 30	STPS 500F25000-DSS TF CY22 30		5.00	25.7	0.10 – 0.14 – 0.18	0.18 – 0.30 – 0.50
		TF PO51 35	STPS 500F25000-DSS TF PO51 35		5.00	25.7	0.10 – 0.14 – 0.18	0.18 – 0.30 – 0.50

 * Cutting speed v_c : p. 12

 Low feed rate

 Medium feed rate

 High feed rate

VC for Grooving Inserts

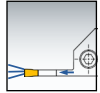
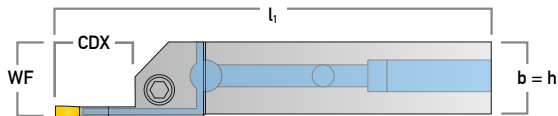
Iso	Material	Tensile strength N/mm ²	Cutting speed V _c (m/min)	
			TF CB32 20	TF PZ31 25
P	St52, C45, 16MnCr5	≤ 750	130 – 180 – 260	110 – 160 – 240
	42CrMo4, 1.2080, 1.2312, 1.2343, 1.2379	≤ 1200	100 – 140 – 240	80 – 120 – 280
	Tempered tool steels	≤ 1700 50 HRC	70 – 100 – 140	50 – 90 – 120

Iso	Material	Tensile strength N/mm ²	Cutting speed V _c (m/min)	
			TF CY22 30	TF PZ31 25
M	1.4000, 1.4021, 1.4034, 1.4510, 1.4301, 1.4305, 1.4310, 1.4541	≤ 750	80 – 140 – 160	80 – 140 – 160
	1.4401, 1.4435, 1.4571, 1.4583	≤ 850	70 – 120 – 150	70 – 120 – 150
	1.4362, 1.4460, 1.4462	≤ 850	55 – 80 – 100	55 – 80 – 100

Iso	Material	Tensile strength N/mm ²	Cutting speed V _c (m/min)	
			TF CB32 20	TF PZ31 25
K	GG15, GG25, GG40	≤ 500	130 – 180 – 260	80 – 140 – 240
	GGG40, GGG60, GTW-35-04, GTW-45-07	≤ 650	100 – 140 – 240	60 – 110 – 200

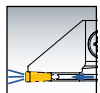
Iso	Material	Tensile strength N/mm ²	Cutting speed V _c (m/min)	
			TF PO51 35	
S	Titanium	≤ 850	25 – 35 – 55	
	Inconel	≤ 1300	20 – 25 – 45	

Grooving holders


Product family 880

Holder type	Insert / size	Holder version	Standard No.	Groove depth	Height	Width	Length	Unit
				CDX	h	b	l ₁	WF
		right	STGR-2-15 2020 K IK	15	20	20	125	21
		left	STGL-2-15 2020 K IK	15	20	20	125	21
		right	STGR-2-15 2525 M IK	15	25	25	150	26
		left	STGL-2-15 2525 M IK	15	25	25	150	26
		right	STGR-4-20 2020 K IK	20	20	20	125	21
		left	STGL-4-20 2020 K IK	20	20	20	125	21
		right	STGR-4-25 2525 M IK	25	25	25	150	26
		left	STGL-4-25 2525 M IK	25	25	25	150	26

Grooving holder for long turning


Product family 880

Holder type	Insert / size	Holder version	Standard No.	Groove depth	Height	Width	Length	Unit
				CDX	h	b	l ₁	WF
		right	STGR-2-12 1212 H IK	12	12	12	100	12,2
		left	STGL-2-12 1212 H IK	12	12	12	100	12,2
		right	STGR-2-17 1616 H IK	17	16	16	100	16,2
		left	STGL-2-17 1616 H IK	17	16	16	100	16,2
		right	STGR-3-12 1212 H IK	12	12	12	100	12,2
		left	STGL-3-12 1212 H IK	12	12	12	100	12,2
		right	STGR-3-17 1616 H IK	17	16	16	100	16,2
		left	STGL-3-17 1616 H IK	17	16	16	100	16,2

Product family 83.

Holder -Accessories	Insert	Screw / Insert	Wrench for Screw/ Insert
STGR/L...	ST.. H	E100121 835	E100124 834
	ST.. K	E100119 835	E100122 835
	ST.. M	E100120 835	E100123 835

Notes

Notes

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