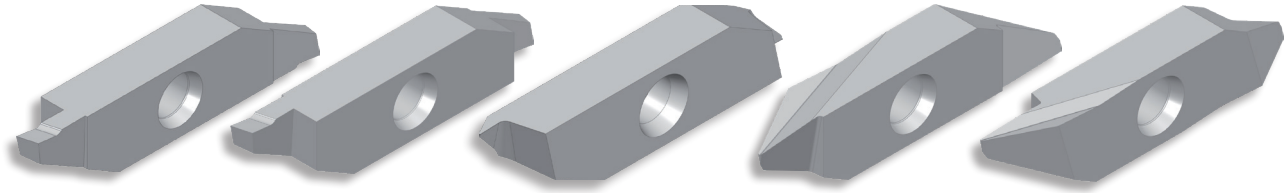
Bimu
cutting tools & accessories

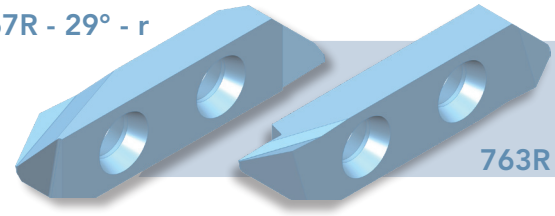
Highlights of inserts 2023
Wendeplatten-Highlights 2023
Plaquettes phares 2023

040 line UPDATE



051R 056R 069R 063R+L 067R+L

767R - 29° - r

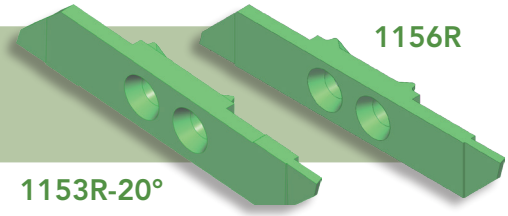


763R - 29° - r

UPDATE 700 line

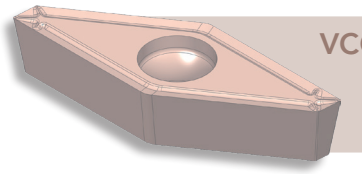
oxoline UPDATE

Very high rigidity inserts 1100



1156R

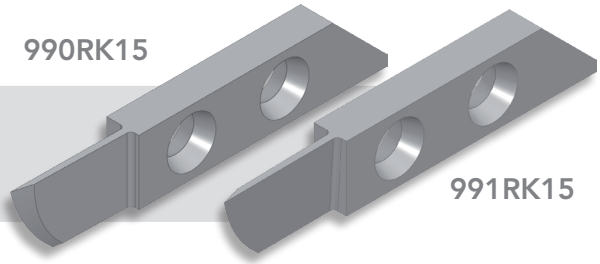
1153R-20°



VCGT...FR

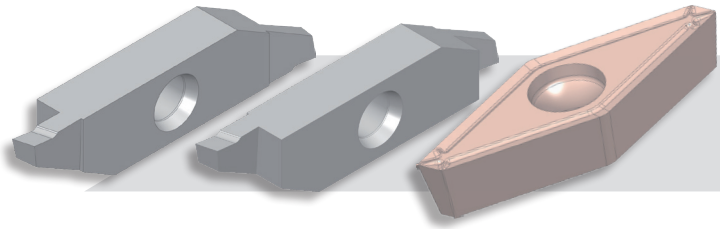
ISO insert with new chip breaker
ISO Wendeplatte mit neuem Spanbrecher
Plaquette ISO avec nouveau brise-copeau

990RK15



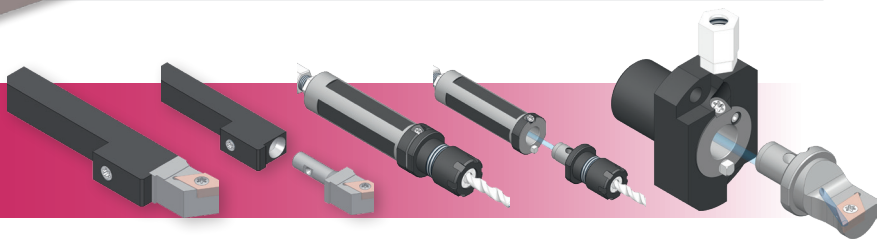
991RK15

Carbide knife for plastic machining
Hartmetall-Messer für die Kunststoffbearbeitung
Couteau en métal dur pour usinage du plastique



Lead-free brass machining
Bearbeitung von bleifreiem Messing
Usinage du laiton sans plomb

Quick change diameter
Quick change mini
Quick change mini IK



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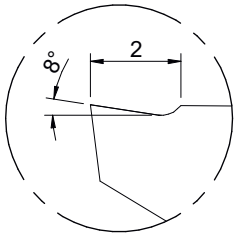
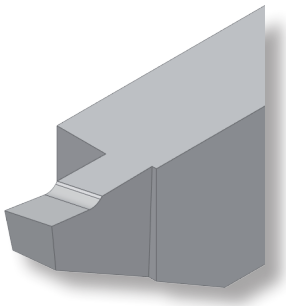
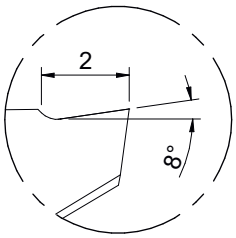
040 line

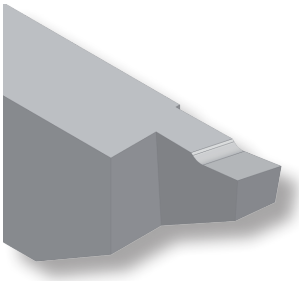
051R





056R





Finishing inserts with excellent chip control.

⇨ BI90: Especially adapted for the machining of stainless steel.
⇨ BI110: First choice for the machining of non-ferrous metals, CoCr, pure copper, CuBe, as well as all kinds of lead free alloys.

Wendeplatten zur Fertigbearbeitung mit ausgezeichneter Spankontrolle.

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Plaquettes de finition avec une excellente maîtrise du copeau.

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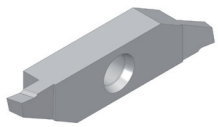
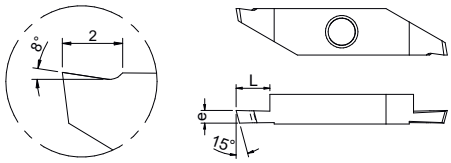
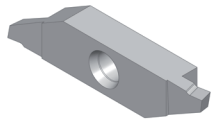
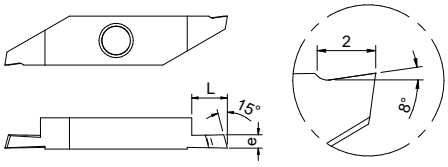
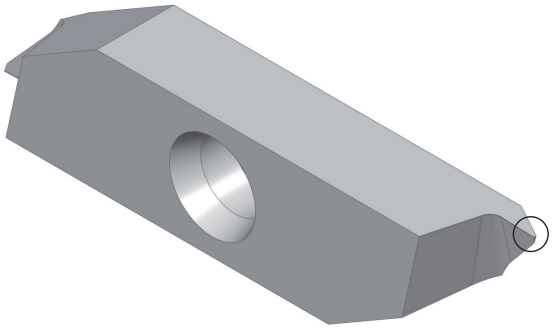
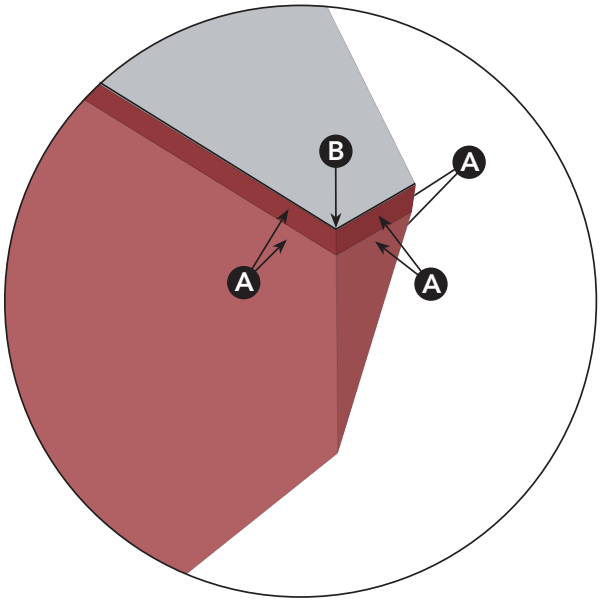
051R	Cutting insert 15° with chip roller Abstechplatte 15° mit Spanroller Tronçonneur 15° avec roule-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI110
		1,0	4,0	051R1,0	✓	✓	✓
		1,2	5,0	051R1,2	✓	✓	✓
		1,5	6,5	051R1,5	✓	✓	✓
		2,0	6,5	051R2,0	✓	✓	✓

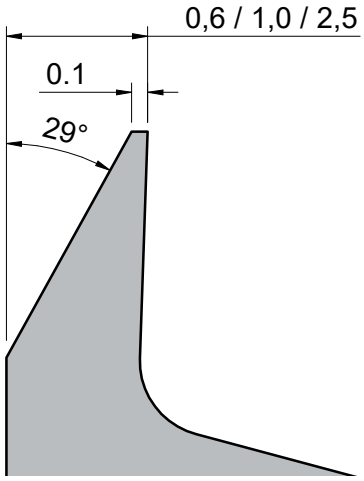
056R	Opposite cutting insert 15° with chip breaker Umgekehrte Abstechplatte 15° mit Spanbrecher Tronçonneur inversé 15° avec brise-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI110
		1,0	4,0	056R1,0	✓	✓	✓
		1,2	5,0	056R1,2	✓	✓	✓
		1,5	6,5	056R1,5	✓	✓	✓
		2,0	6,5	056R2,0	✓	✓	✓
		Use with 0xxL tool holders *Verwendung mit 0xxL Werkzeughalter* *Utilisation avec les porte-outils 0xxL*					

040 line

069R0,1 - 29° - 0,6 - BI80
069R0,1 - 29° - 1,0 - BI80
069R0,1 - 29° - 2,5 - BI80







A

Double relief on 3 sides!

→ Very rigid cutting edges.
→ Increased tool life.
→ Perfect surface finish of the turned part.
→ Very close to the guide bush in each case.

Doppelter Freiwinkel auf 3 Seiten!

→ Sehr steife Schneidkanten.
→ Erhöhung der Werkzeugstandzeit.
→ Perfekte Oberflächengüte des bearbeiteten Teils.
→ Jeweils sehr nahe an der Führungsbüchse.

Double dépouille sur les 3 faces!

→ Arêtes de coupe très rigides.
→ Augmentation de la durée de vie de l'outil.
→ Parfait état de surface de la pièces usinée.
→ Très proche du canon dans chaque cas.

B

Very sharp cutting edges!

→ Perfect surface finish of the ground insert.
→ Ultra thin PVD coating.

Sehr scharfe Schneidkanten!

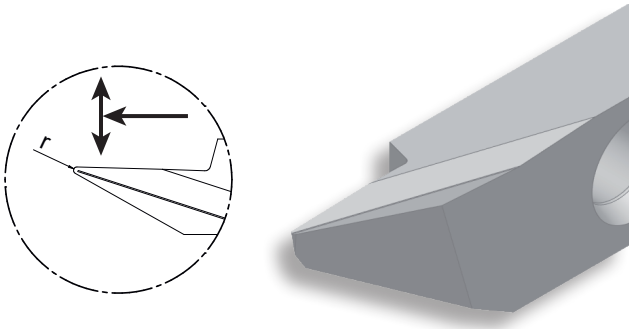
→ Hervorragende Oberflächengüte der geschliffenen Wendeplatte.
→ Sehr dünne PVD Beschichtung.

Arêtes de coupe extrêmement coupantes!

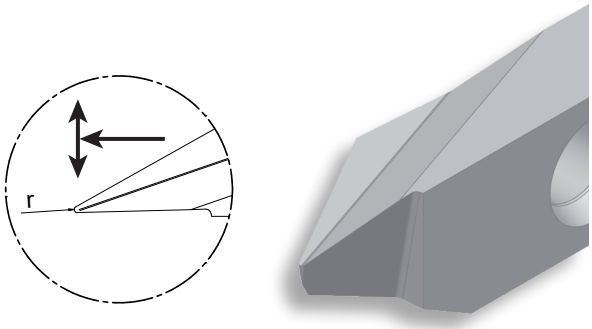
→ Exellent état de surface de la plaquette meulée.
→ Revêtement PVD ulta fin.

040 line

063R - 29° - r



067R - 29° - r



Finishing inserts with excellent chip control.

⇨ BI90: Especially adapted for the machining of stainless steel.
⇨ BI110: First choice for the machining of non-ferrous metals, CoCr, pure copper, CuBe, as well as all kinds of lead free alloys.

Available with 0,04 mm and 0,15 mm radius.

Wendeplatten zur Fertigbearbeitung mit ausgezeichneter Spankontrolle.

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Verfügbar mit 0,04 mm und 0,15 mm Radius.

Plaquettes de finition avec une excellente maîtrise du copeau.

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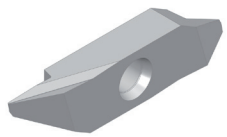
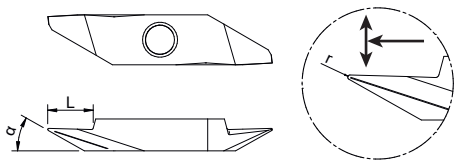
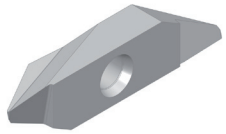
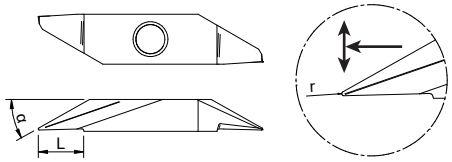
Disponibles avec rayon de 0,04 et 0,15 mm.

063R - 29° - r	Back turning insert 29° with chip breaker and radius Drehplatte hinten 29° mit Spanbrecher und Radius Tourneur arrière 29° avec brise-copeau et rayon	L	α	r	Article nr. Artikel Nr. N° Article	BI90	BI110
		5,0	29°	0,04	063R - 29° - r 0,04 -	✓	✓
		5,0	29°	0,15	063R - 29° - r 0,15 -	✓	✓

067R - 29° - r	Front turning insert 29° with chip breaker and radius Drehplatte vorne 29° mit Spanbrecher und Radius Tourneur avant 29° avec brise-copeau et rayon	L	α	r	Article nr. Artikel Nr. N° Article	BI90	BI110
		5,0	29°	0,04	067R - 29° - r 0,04 -	✓	✓
		5,0	29°	0,15	067R - 29° - r 0,15 -	✓	✓

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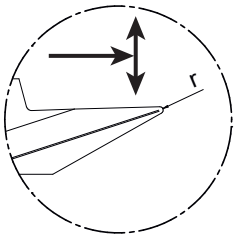
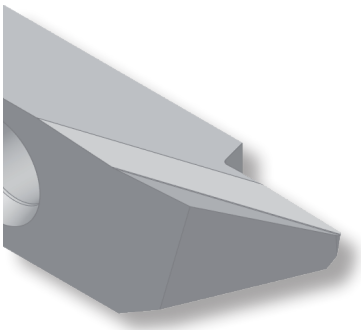
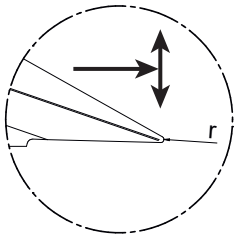
040 line

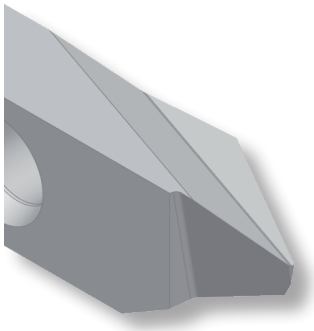
063L - 29° - r





067L - 29° - r





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Verfügbar mit 0,04 mm Radius.

Plaquettes de finition avec une excellente maîtrise du copeau.
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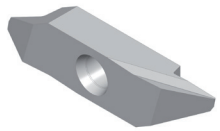
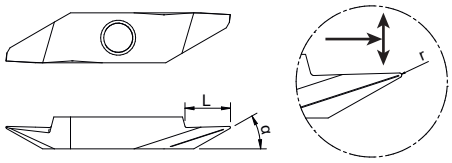
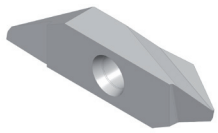
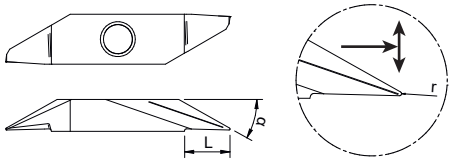
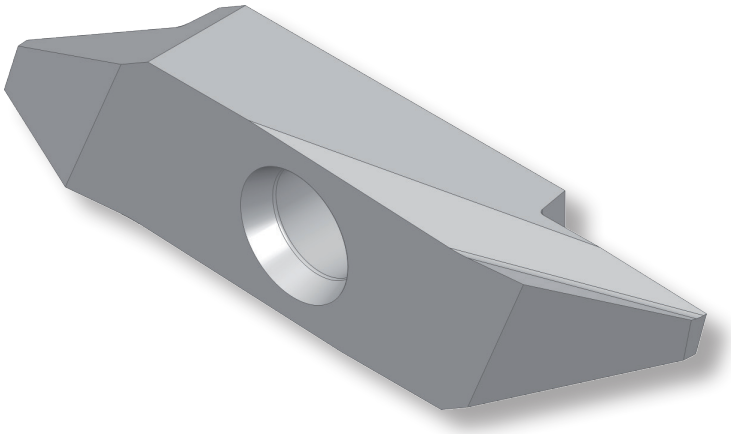
Disponibles avec rayon de 0,04 mm.

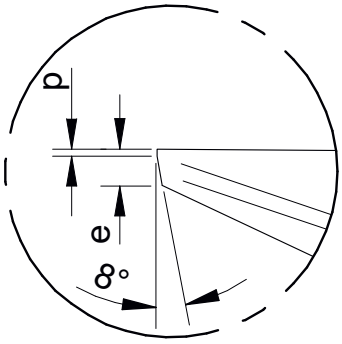
063L - 29° - r	Back turning insert 29° with chip breaker and radius Drehplatte hinten 29° mit Spanbrecher und Radius Tourneur arrière 29° avec brise-copeau et rayon	L	α	r	Article nr. Artikel Nr. N° Article	BI90
		5,0	29°	0,04	063L - 29° - r 0,04 -	✓

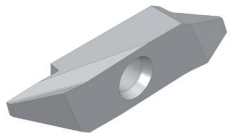
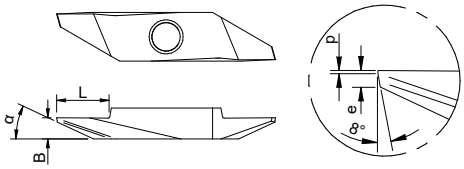
067L - 29° - r	Front turning insert 29° with chip breaker and radius Drehplatte vorne 29° mit Spanbrecher und Radius Tourneur avant 29° avec brise-copeau et rayon	L	α	r	Article nr. Artikel Nr. N° Article	BI90
		5,0	29°	0,04	067L - 29° - r 0,04 -	✓

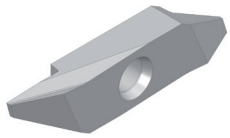
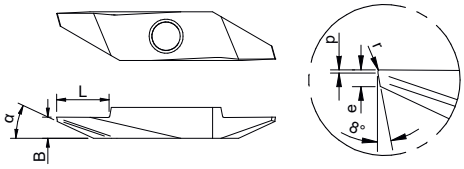
040 line

063R0,5 - 0,1 - 25° - BI100

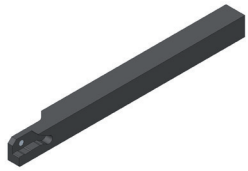
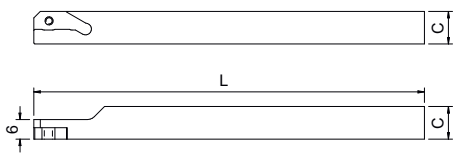




063R - 25°	Back turning insert 25° with chip breaker Drehplatte hinten 25° mit Spanbrecher Tourneur arrière 25° avec brise-copeau	e	p	L	B	α	Article nr. Artikel Nr. N° Article	BI100
		0,5	0,1	6,0	2,4	25°	063R0,5 - 0,1 - 25° -	✓

063R - 25° - r	Back turning insert 25° with chip breaker and radius Drehplatte hinten 25° mit Spanbrecher und Radius Tourneur arrière 25° avec brise-copeau et rayon	e	p	L	B	α	r	Article nr. Artikel Nr. N° Article	BI100
		0,5	0,1	6,0	2,4	25°	0,04	063R0,5 - 0,1 - 25° - r 0,04 -	✓
		0,5	0,1	6,0	2,4	25°	0,08	063R0,5 - 0,1 - 25° - r 0,08 -	✓

New
Neu
Nouveau

0xxRP6	Right «Pick-up» tool holder «Pick-up» Werkzeughalter rechts Porte-outil «pick-up» à droite	Section C Querschnitt C Section C	Lenght L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		8 x 8	120	008RP6
		10 x 10	120	010RP6
		12 x 12	120	012RP6

Use with R inserts
Verwendung mit R Wendeplatten
Utilisation avec les plaquettes R

New
Neu
Nouveau

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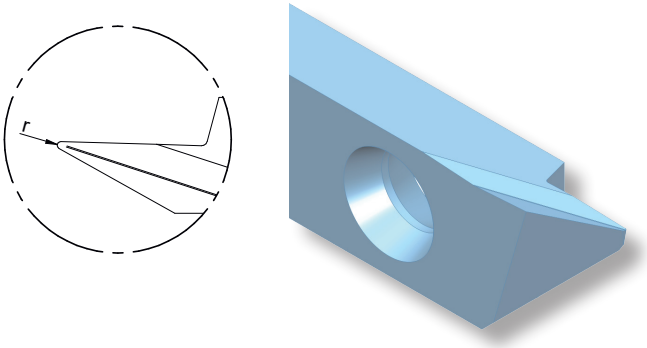
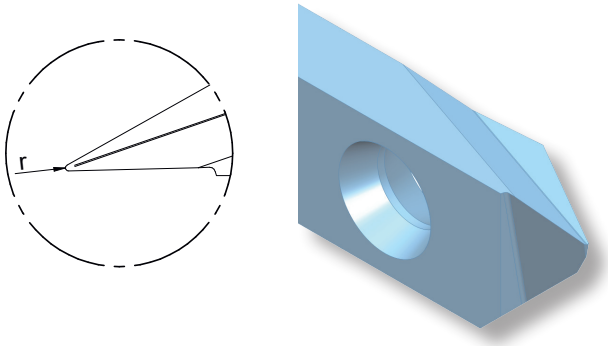
700 line

763R - 29° - r



767R - 29° - r



Finishing inserts with excellent chip control.
⇨ BI90: Especially adapted for the machining of stainless steel.

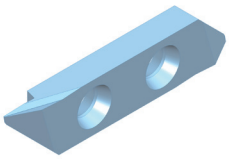
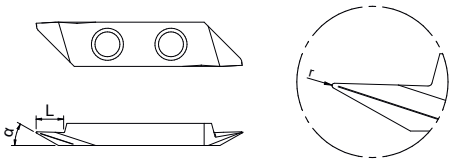
Available with 0,08 mm and 0,15 mm radius.

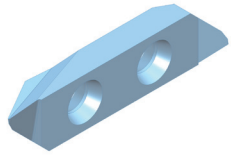
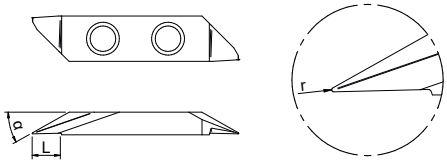
Wendeplatten zur Fertigbearbeitung mit ausgezeichneter Spankontrolle.
⇨ BI90: Besonders geeignet für die Bearbeitung von rostfreiem Edelstahl.

Verfügbar mit 0,08 mm und 0,15 mm Radius.

Plaquettes de finition avec une excellente maîtrise du copeau.
⇨ BI90: Spécialement adapté à l'usinage de l'acier inox.

Disponibles avec rayon de 0,08 mm et 0,15 mm.

763R - 29° - r	Back turning insert 29° with chip breaker and radius Drehplatte hinten 29° mit Spanbrecher und Radius Tourneur arrière 29° avec brise-copeau et rayon	L	α	r	Article nr. Artikel Nr. N° Article	BI90
		5,0	29°	0,08	763R - 29° - r 0,08 -	✓
		5,0	29°	0,15	763R - 29° - r 0,15 -	✓

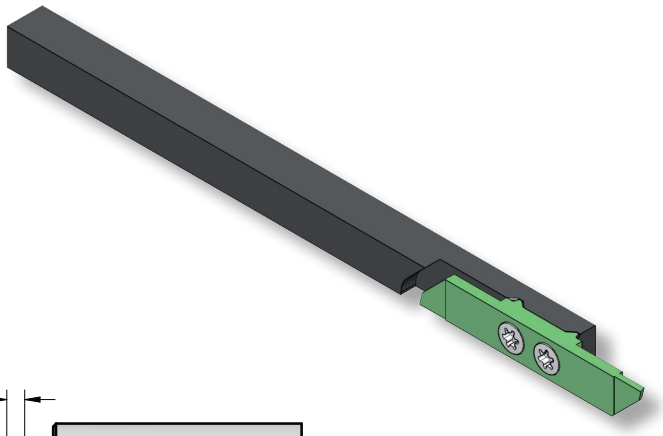
767R - 29° - r	Front turning insert 29° with chip breaker and radius Drehplatte vorne 29° mit Spanbrecher und Radius Tourneur avant 29° avec brise-copeau et rayon	L	α	r	Article nr. Artikel Nr. N° Article	BI90
		5,0	29°	0,08	767R - 29° - r 0,08 -	✓
		5,0	29°	0,15	767R - 29° - r 0,15 -	✓

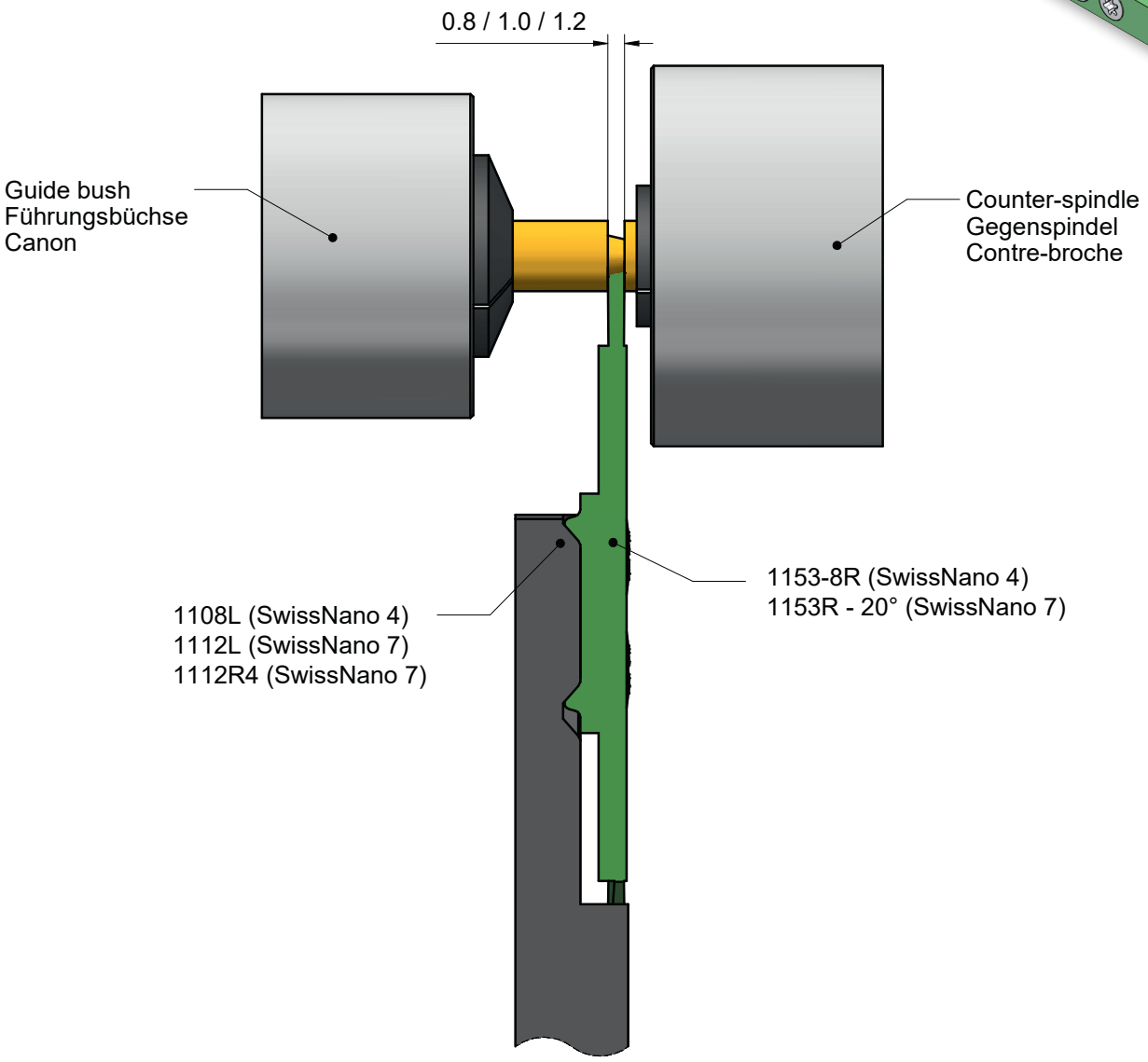
Tool holders for cutting of close to the pick-up collet
Werkzeughalter zum Abstechen nahe an der Abgreifzange
Porte-outils de tronçonnage côté prise de pièce

Cut off close to the counter-spindle.
No need of special collet for pick-up attachment !

Abstechen nahe der Gegenspindel.
Abstechen ohne Abgreifzange mit Vorbau !

Tronçonnage près de la contre-broche.
Pas besoin de pince de prise de pièces à nez prolongé !





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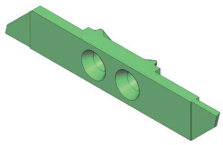
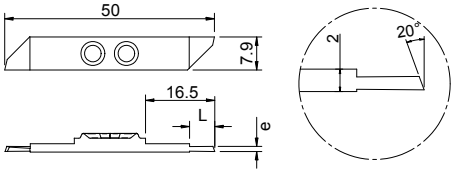
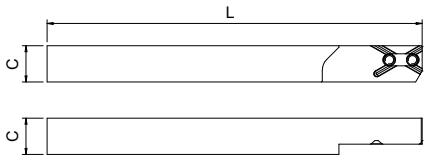
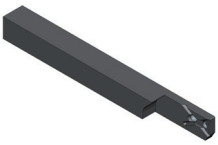
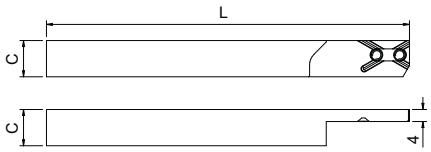
Tool holder and inserts for SwissNano 4
Werkzeughalter und Wendeplatten für SwissNano 4
Porte-outil et plaquettes pour SwissNano 4

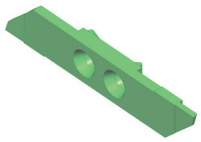
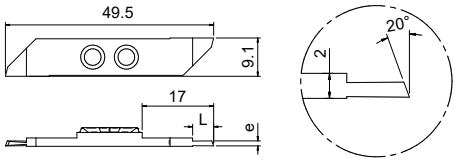
1108L	Left tool holder Werkzeughalter links Porte-outil à gauche	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		8 x 8	125	1108L

1153-8R	Cut off insert 20° Abstechplatte 20° Tronçonneur 20°	e	L	Article nr. Artikel Nr. N° Article	Coating Beschichtung Revêtement
		0,8	4	1153-8R0,8	BI90
		1,0	4	1153-8R1,0	BI90
		1,2	6	1153-8R1,2	BI90

Tool holders and inserts for SwissNano 7
Werkzeughalter und Wendeplatten für SwissNano 7
Porte-outils et plaquettes pour SwissNano 7

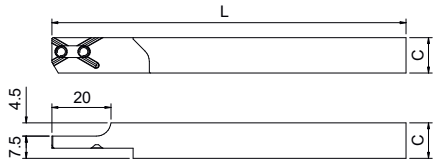
1112L	Left tool holder Werkzeughalter links Porte-outil à gauche	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		12 x 12	125	1112L

1112R4	Right «Pick-up» tool holder «Pick-up» Werkzeughalter rechts Porte-outil «Pick-up» à droite	Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
		12 x 12	120	1112R4

1153R - 20°	Cut off insert 20° Abstechplatte 20° Tronçonneur 20°	e	L	Article nr. Artikel Nr. N° Article	Coating Beschichtung Revêtement
		0,8	5	1153R0,8 - 20° -	BI90
		1,0	5	1153R1,0 - 20° -	BI90
		1,2	5	1153R1,2 - 20° -	BI90

11xxRP7,5

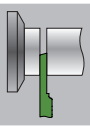
Right «Pick-up» tool holder
«Pick-up» Werkzeughalter rechts
Porte-outil «Pick-up» à droite



Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
12 x 12	120	1112RP7,5

Use with 1150R, 1150R-20° inserts
Verwendung mit 1150R, 1150R-20° Wendeplatten
Utilisation avec les plaquettes 1150R, 1150R-20°

New
Neu
Nouveau

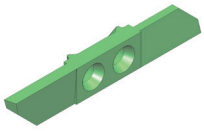


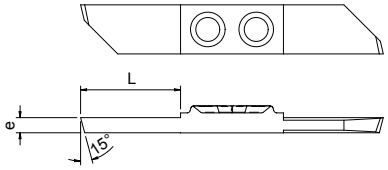
Guide bush cut off Ø 32 mm
Abstechen an der Führungsbüchse Ø 32 mm
Tronçonnage côté canon Ø 32 mm

R : Right machining
R : Rechte Bearbeitung
R : Usinage à droite

1150R

Cutting insert 15°
Abstechplatte 15°
Tronçonneur 15°

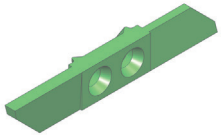


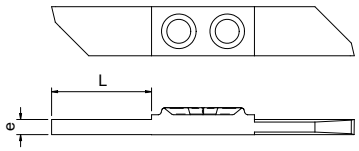


e	L	Article nr. Artikel Nr. N° Article	BI90
1,5	15,0	1150R1,5	✓
2,0	17,0	1150R2,0	✓
2,5	17,0	1150R2,5	✓
3,0	17,0	1150R3,0	✓

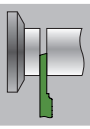
1150RP

Cutting insert 0°
Abstechplatte 0°
Tronçonneur 0°





e	L	Article nr. Artikel Nr. N° Article	BI90
2,0	17,0	1150RP2,0	✓
2,5	17,0	1150RP2,5	✓
3,0	17,0	1150RP3,0	✓

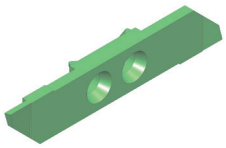


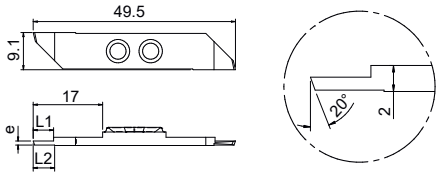
Guide bush cut off Ø 10 mm
Abstechen an der Führungsbüchse Ø 10 mm
Tronçonnage côté canon Ø 10 mm

R : Right machining
R : Rechte Bearbeitung
R : Usinage à droite

1150R - 20°

Cutting insert 20°
Abstechplatte 20°
Tronçonneur 20°





e	L1	L2	Article nr. Artikel Nr. N° Article	BI80
0,8	6,0	5,0	1150R0,8 - 20° -	✓
1,0	6,0	5,0	1150R1,0 - 20° -	✓
1,2	6,0	5,0	1150R1,2 - 20° -	✓

New
Neu
Nouveau

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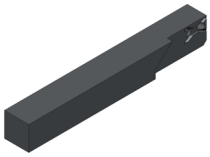
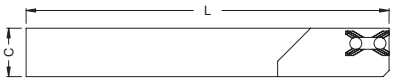
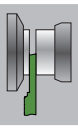
11xxL

Left tool holder
Werkzeughalter links
Porte-outil à gauche





Section C Querschnitt C Section C	Length L Länge L Longueur L	Article nr. Artikel Nr. N° Article
10 x 10	124	1110L
12 x 12	124	1112L
16 x 16	124	1116L
20 x 20	124	1120L
25 x 25	100	1125L

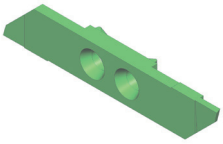


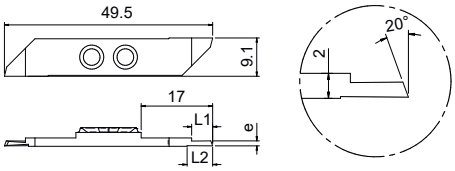
Sub spindle cut off Ø 10 mm
Abstechen an der Abgreifzange Ø 10 mm
Tronçonnage côte prise de pièce Ø 10 mm

R : Right machining
R : Rechte Bearbeitung
R : Usinage à droite

1153R - 20°

Opposite cutting insert 20°
Umgekehrte Abstechplatte 20°
Tronçonneur inversé 20°





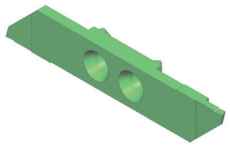
e	L1	L2	Article nr. Artikel Nr. N° Article	BI80
0,8	5,0	6,0	1153R0,8 - 20° -	✓
1,0	5,0	6,0	1153R1,0 - 20° -	✓
1,2	5,0	6,0	1153R1,2 - 20° -	✓

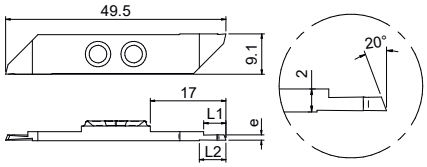
New
Neu
Nouveau

Use with 11xxL tool holders
Verwendung mit 11xxL Werkzeughalter
Utilisation avec les porte-outils 11xxL

1156R - 20°

Opposite cutting insert 20° with chip breaker
Umgekehrte Abstechplatte 20° mit Spanbrecher
Tronçonneur inversé 20° avec brise-copeau





e	L1	L2	Article nr. Artikel Nr. N° Article	BI80
0,8	5,0	6,0	1156R0,8 - 20° -	✓

New
Neu
Nouveau

Use with 11xxL tool holders
Verwendung mit 11xxL Werkzeughalter
Utilisation avec les porte-outils 11xxL

ISO line

New VCGT...FR insert !

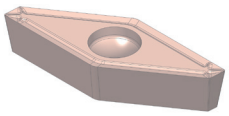
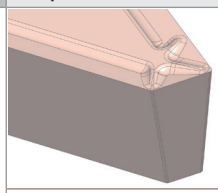
Perfectly controlled cutting and excellent surface finish thanks to « Wiper » geometry and the new chip breaker.

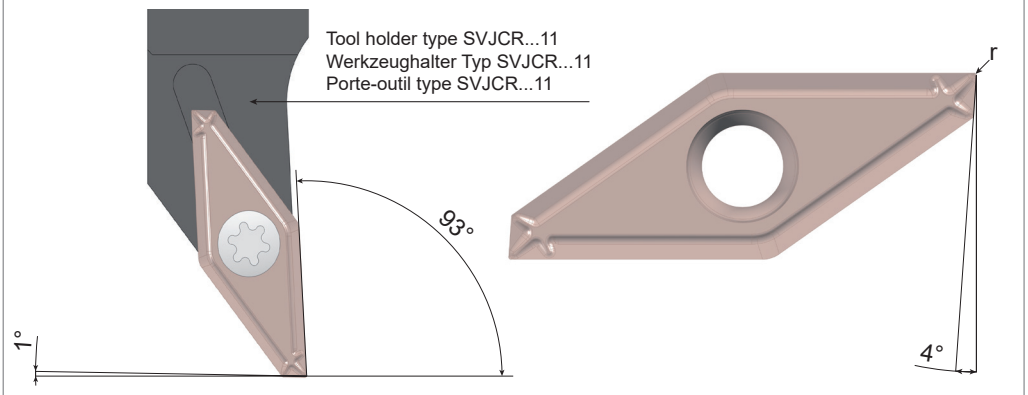
Neue VCGT...FR Wendeplatte !

Ein perfekter Schnitt und eine ausgezeichnete Oberflächengüte dank der « Wiper » Geometrie und der neuen Spanbruchgeometrie.

Nouvelle plaquette VCGT...FR !

Parfaite maîtrise de la coupe et excellent état de surface à l'usinage grâce à la géométrie « Wiper » et au nouveau brise-copeau.

VCGT...FR	VCGT insert VCGT Wendeplatte Plaquette VCGT	r [mm]	Article nr. Artikel Nr. N° Article	BI71	BI120
	 35°	0,00	VCGT 1103ZZ FR	✓	
		0,03	VCGT 1103003 FR		✓
		0,08	VCGT 1103008 FR		✓
		0,2	VCGT 110302 FR		✓



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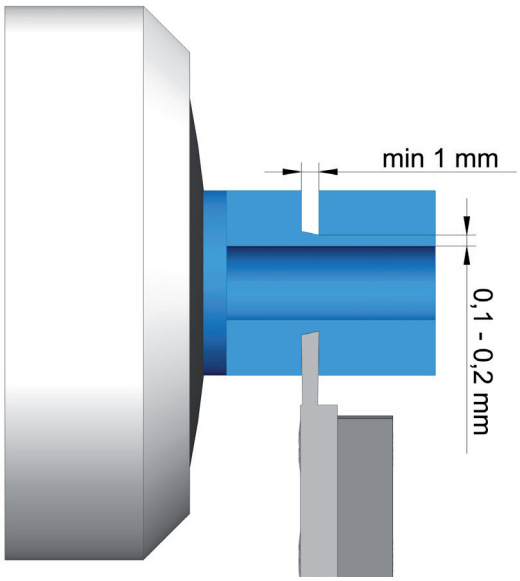
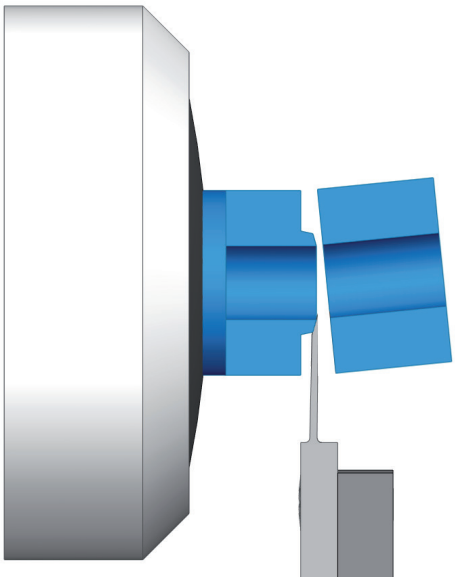
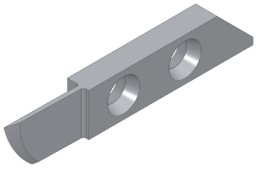
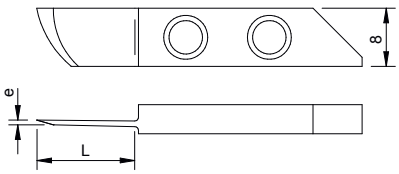
Carbide knife for plastic machining
Hartmetall-Messer für die Kunststoffbearbeitung
Couteau en métal dur pour usinage du plastique

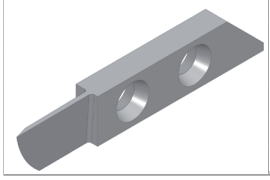
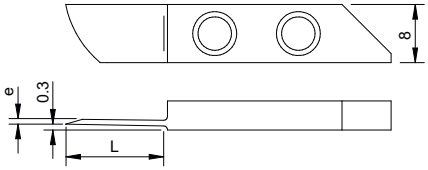




1. *Pre-cut with standard cut off insert*
1. *Vorstechen mit einer standard Abstechplatte*
1. *Pré-coupe avec tronçonneur standard*

2. *Finishing cut with the knife, avoiding any burr on the part.*
2. *Abstechen mit dem Messer, wodurch ein Grat am Werkstück vermieden wird.*
2. *Coupe de finition avec le couteau, évitant toute bavure sur la pièce.*

990R	Carbide knife Hartmetall-Messer Couteau en métal dur	e	L	Article nr. Artikel Nr. N° Article
		0,6	13,0	990RK15

991R	Carbide knife Hartmetall-Messer Couteau en métal dur	e	L	Article nr. Artikel Nr. N° Article
		0,6	13,0	991RK15

Selection of geometries and coatings particularly suitable for machining lead-free brass.

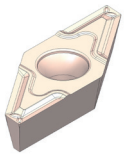
Auswahl von Geometrien und Beschichtungen, die sich besonders für die Bearbeitung von bleifreiem Messing eignen.

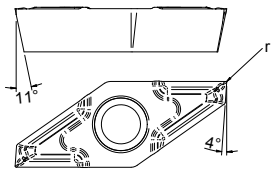
Sélection de géométries et de revêtements particulièrement adaptés à l'usinage du laiton sans plomb.

Front turning inserts
Drehplatten vorne
Tourneurs avant

VPGT...FR

Right VPGT insert
VPGT Wendeplatte rechts
Plaquette VPGT à droite



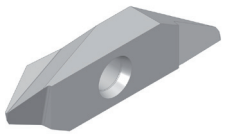


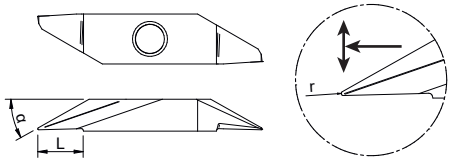
r	Article nr. Artikel Nr. N° Article	K18	BI40	BI90	BI100	BI110
0	VPGT 10 03 ZZ FR FW	✓	✓	✓	✓	✓
0,08	VPGT 10 03 008 FR FW	✓	✓	✓	✓	✓
0,2	VPGT 10 03 02 FR FW	✓	✓	✓	✓	✓

Use with SVJP R and SVXP L tool holders
Verwendung mit SVJP R und SVXP L Werkzeughalter
Utilisation avec les porte-outils SVJP R et SVXP L

067R - 29° - r

Front turning insert 29° with chip breaker and radius
Drehplatte vorne 29° mit Spanbrecher und Radius
Tourneur avant 29° avec brise-copeau et rayon



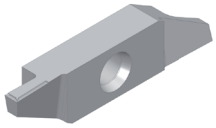


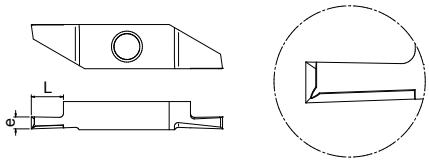
L	α	r	Article nr. Artikel Nr. N° Article	BI80	BI90	BI110
5,0	29°	0,04	067R - 29° - r 0,04 -	✓	✓	✓
5,0	29°	0,15	067R - 29° - r 0,15 -		✓	✓

Plunging-turning inserts
Drehplatten für Einstechen-Drehen
Plaquettes de fonçage-tournage

060RZ

Back turning insert with chip breaker
Drehplatte hinten mit Spanbrecher
Tourneur arrière avec brise-copeau



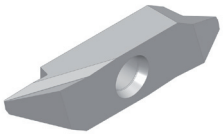


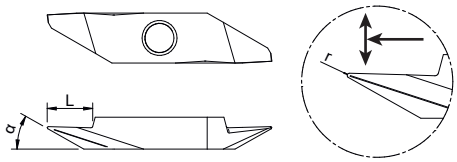
e	L	Article nr. Artikel Nr. N° Article	BI90
1,0	2,5	060RZ1,0	✓
1,5	4,0	060RZ1,5	✓
2,0	4,0	060RZ2,0	✓

Back turning inserts
Drehplatten hinten
Tourneurs arrière

063R - 29° - r

Back turning insert 29° with chip breaker and radius
Drehplatte hinten 29° mit Spanbrecher und Radius
Tourneur arrière 29° avec brise-copeau et rayon





L	α	r	Article nr. Artikel Nr. N° Article	BI80	BI90	BI110
5,0	29°	0,04	063R - 29° - r 0,04 -	✓	✓	✓
5,0	29°	0,15	063R - 29° - r 0,15 -		✓	✓

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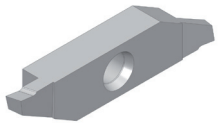
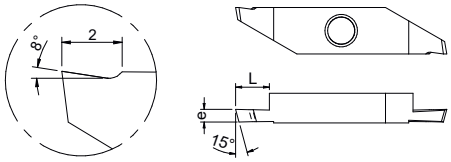
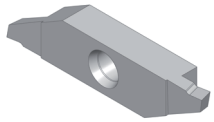
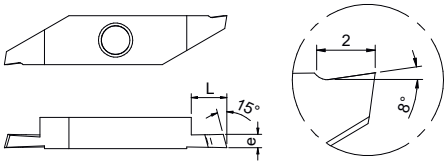
Cut off inserts
Abstechplatten
Tronçonneurs

051R	Cutting insert 15° with chip roller Abstechplatte 15° mit Spanroller Tronçonneur 15° avec roule-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI110
		1,0	4,0	051R1,0	✓	✓	✓
		1,2	5,0	051R1,2	✓	✓	✓
		1,5	6,5	051R1,5	✓	✓	✓
		2,0	6,5	051R2,0	✓	✓	✓

056R	Opposite cutting insert 15° with chip breaker Umgekehrte Abstechplatte 15° mit Spanbrecher Tronçonneur inversé 15° avec brise-copeau	e	L	Article nr. Artikel Nr. N° Article	BI40	BI90	BI110
		1,0	4,0	056R1,0	✓	✓	✓
		1,2	5,0	056R1,2	✓	✓	✓
		1,5	6,5	056R1,5	✓	✓	✓
		2,0	6,5	056R2,0	✓	✓	✓
		Use with 0xxL tool holders *Verwendung mit 0xxL Werkzeughalter* *Utilisation avec les porte-outils 0xxL*					

In combination with the above insert geometries,
the BI110 coating (AlTiCrN-based) is ideal for machining lead-free brass.

- Very smooth surface finish.
- High heat resistance.
- High wear resistance.

The «universal» **BI90 coating** (AlTiN-based) perfectly complements the 060RZ geometry for this type of machining.

In Kombination mit den oben genannten Wendeplattengeometrien ist
die BI110 Beschichtung (AlTiCrN-Basis) ideal für die Bearbeitung von bleifreiem Messing.

- Sehr glatte Oberfläche.
- Hohe Hitzebeständigkeit.
- Hohe Verschleissfestigkeit.

Die «universelle» **Beschichtung BI90** (AlTiN-Basis) ergänzt die Geometrie 060RZ perfekt für diese Art der Bearbeitung.

En combinaison des géométries de plaquettes ci-dessus,
le revêtement BI110 (Base AlTiCrN) est idéal pour l'usinage du laiton sans plomb.

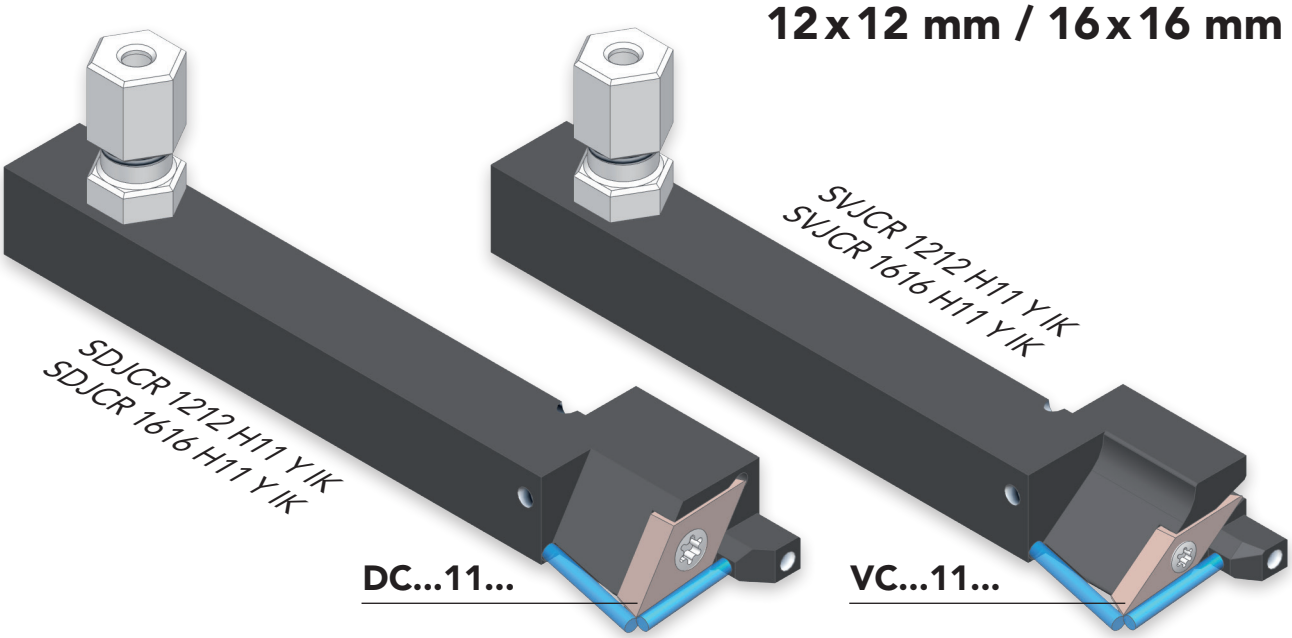
- Très bon glissement du copeau.
- Haute résistance à la chaleur.
- Haute résistance à l'usure.

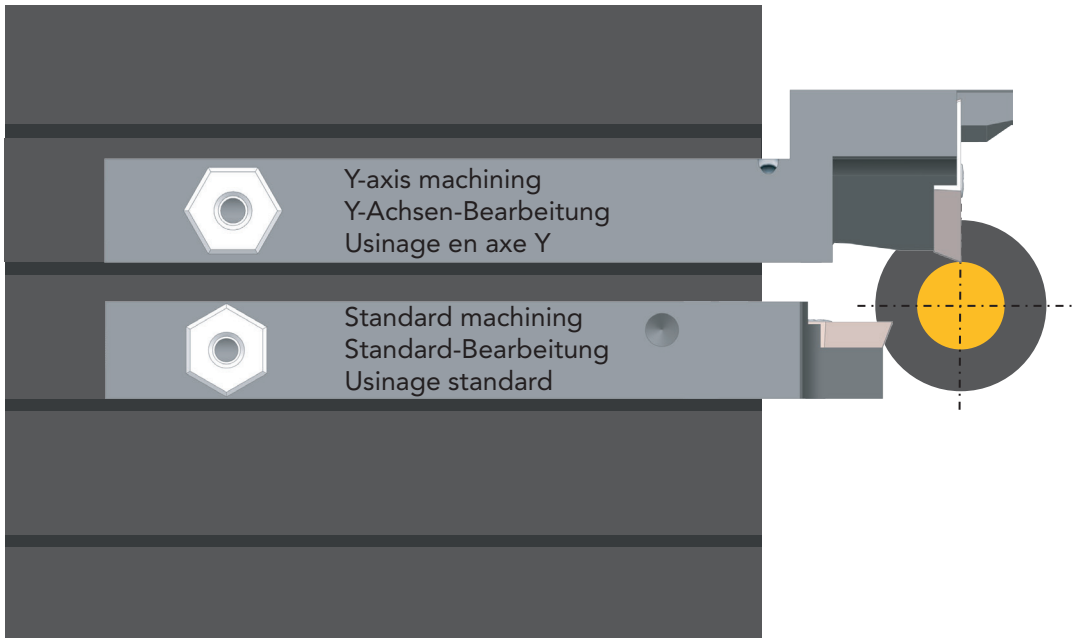
Le **revêtement BI90** «universel» (Base AlTiN) complète quant à lui parfaitement la géométrie 060RZ pour ce type d'usinage.

New ! **Tool holders for Y-axis machining**
Neu ! **Werkzeughalter für die Y-Achsen-Bearbeitung**
Nouveau ! **Porte-outils pour usinage en axe Y**

Available tool holder sections:
Erhältliche Werkzeughalterquerschnitte:
Sections de porte-outil disponibles:

12 x 12 mm / 16 x 16 mm





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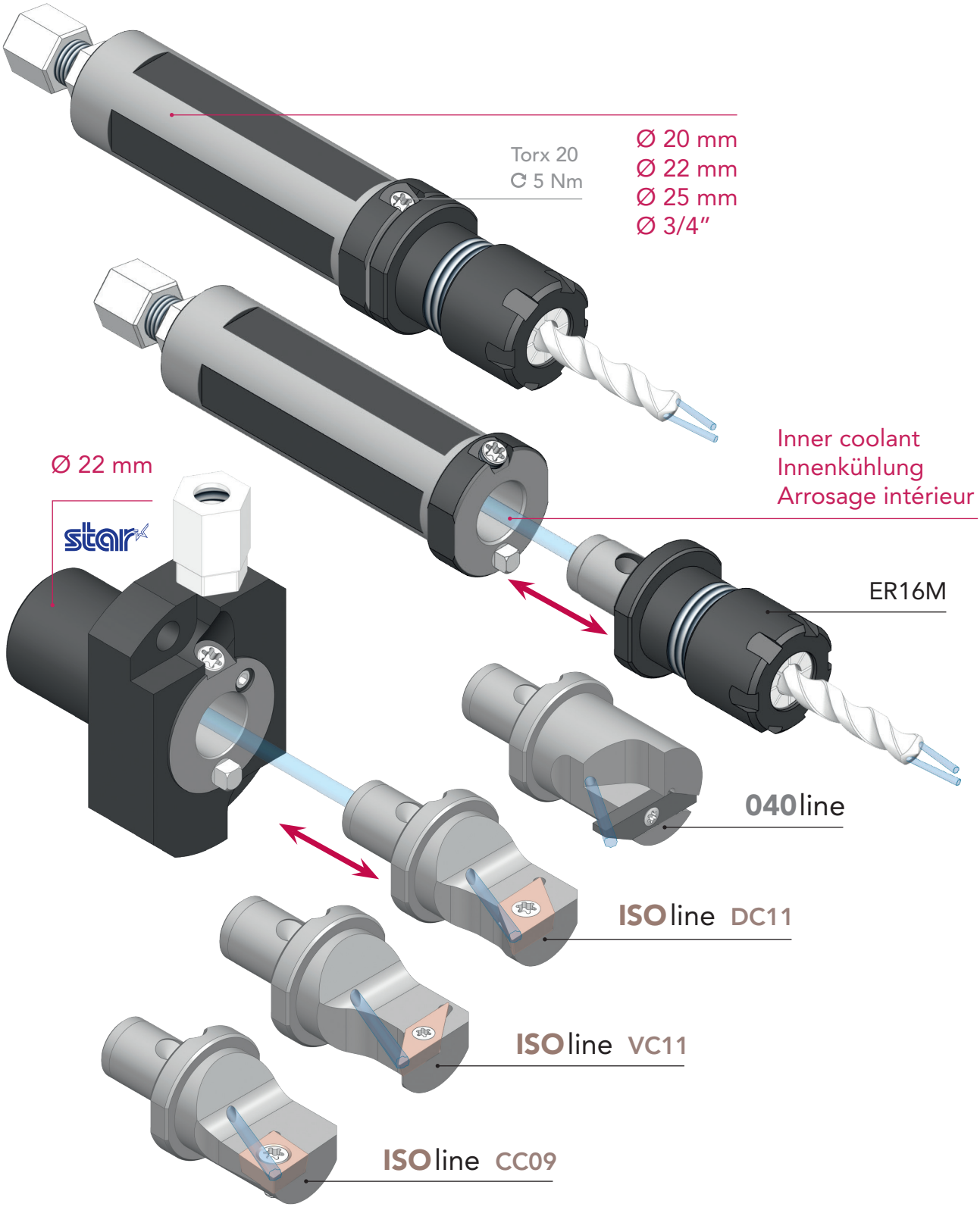
Quick change diameter
Quick change mini
Quick change mini IK

Modular system of tool holders with cylindrical shaft
Modulares zylindrisches Werkzeugsystem
Système modulaire de porte-outils à queue cylindrique



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Bimu
cutting tools & accessories

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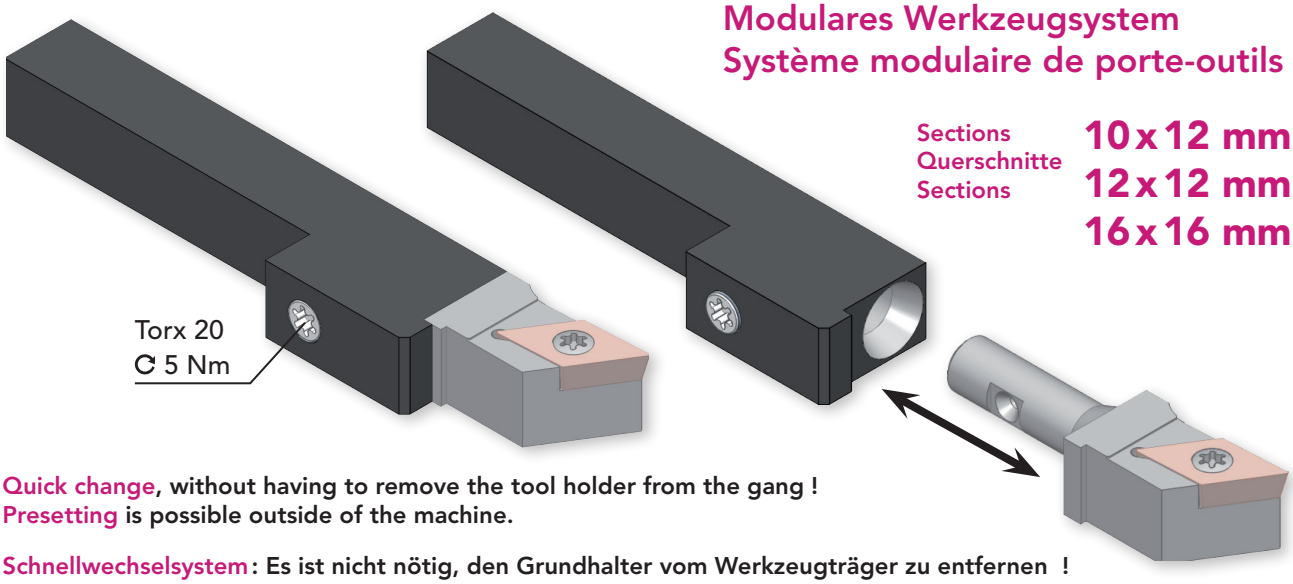
Modular tool holders system
Modulares Werkzeugsystem
Système modulaire de porte-outils

Sections
Querschnitte
Sections

10 x 12 mm
12 x 12 mm
16 x 16 mm



Quick change, without having to remove the tool holder from the gang !
Presetting is possible outside of the machine.

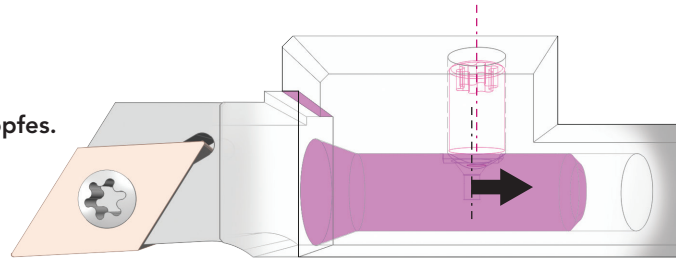
Schnellwechselsystem: Es ist nicht nötig, den Grundhalter vom Werkzeugträger zu entfernen !
Voreinstellung ist ausserhalb der Maschine möglich.

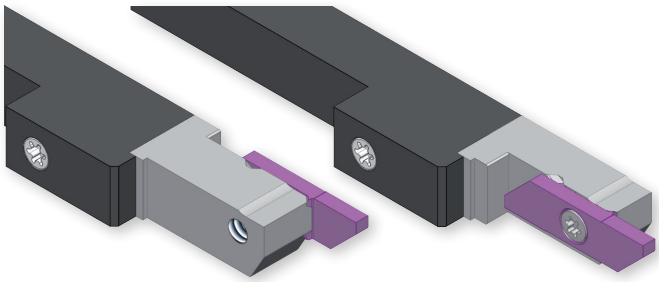
Changement rapide sans avoir besoin de sortir le porte-outil du peigne !
Préréglage possible en dehors de la machine.

Ultra precise fitting.
Rigid fixation.

Hochgenaue Positionierung des Wechselkopfes.
Passgenaue, starre Befestigung.

Ajustement ultra précis.
Fixation rigide.

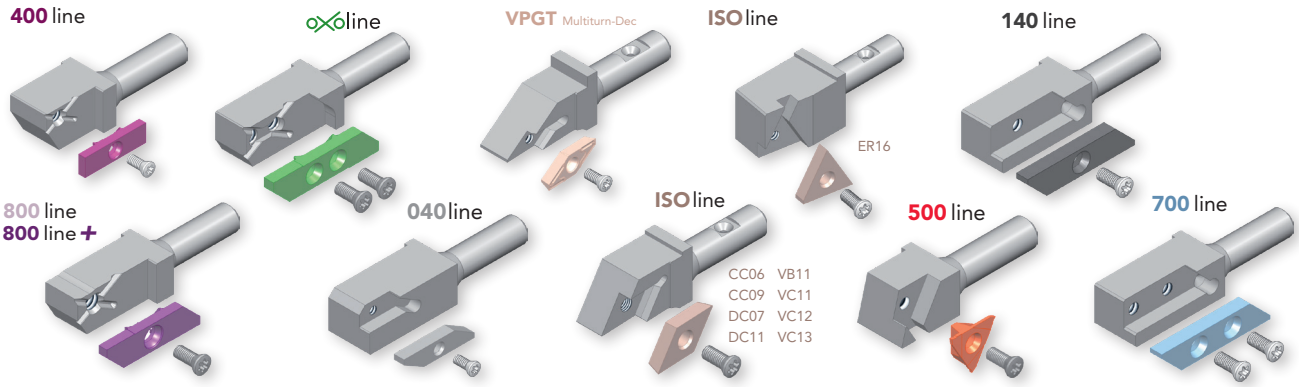




Tool holder section : 10x12, 12x12 and 16x16 mm.
Left and right interchangeable heads available.

Werkzeughalter Querschnitt : 10x12, 12x12 und 16x16 mm für linke und rechte Wechselköpfe verfügbar.

Section de porte-outil 10x12, 12x12 ou 16x16 mm.
Têtes interchangeables disponibles à gauche et à droite.



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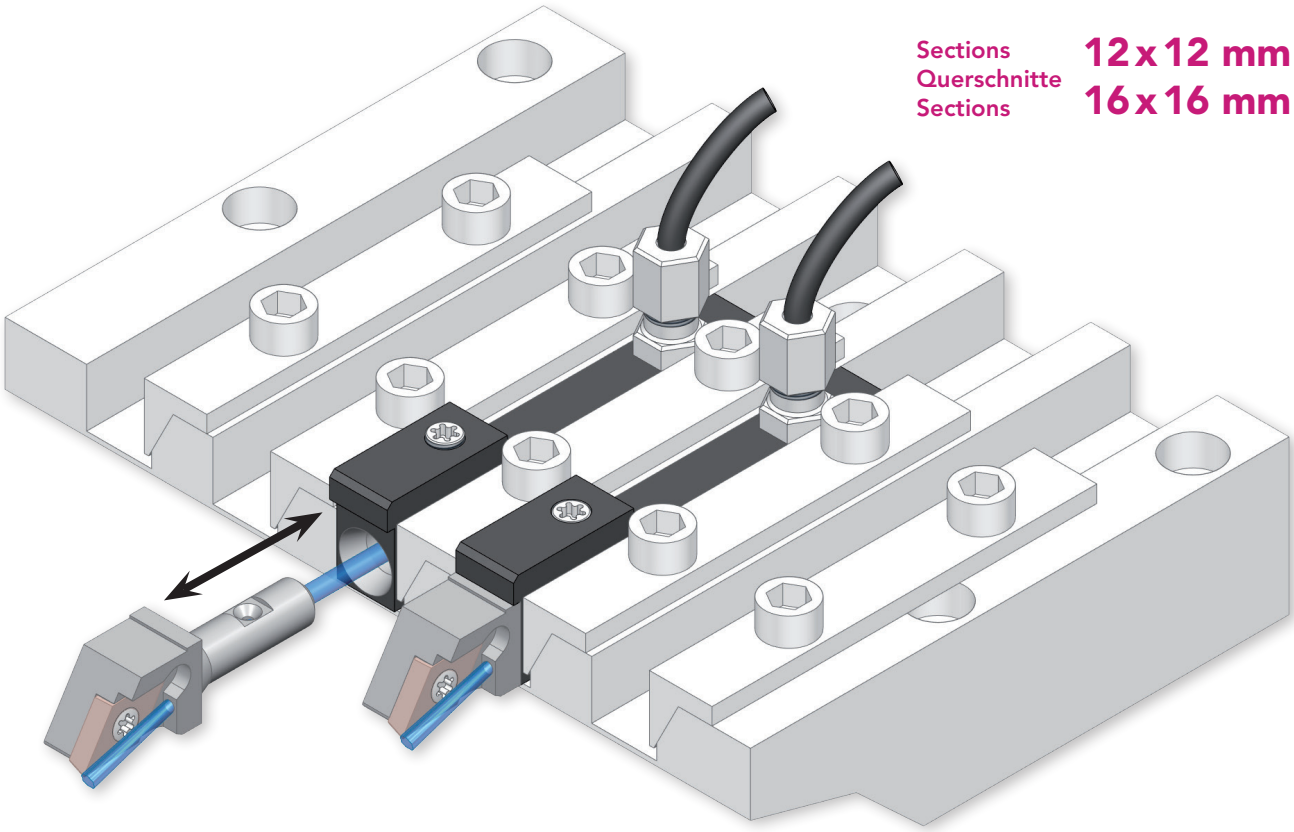
Quick change diameter
Quick change mini
Quick change mini IK

Modular tool holders system with inner coolant
Modulares Werkzeugsystem mit Innenkühlung
Système modulaire de porte-outils avec arrosage intérieur

Quick change, without having to remove the tool holder from the gang !
Presetting is possible outside of the machine.

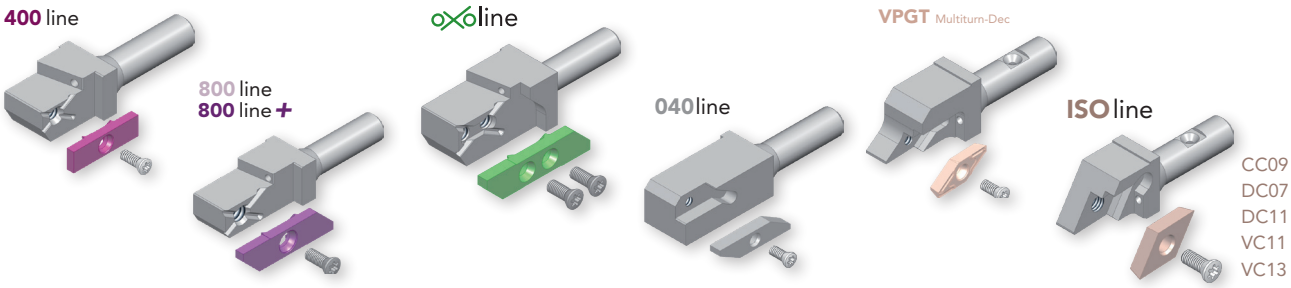
Schnellwechselsystem: Es ist nicht nötig, den Grundhalter vom Werkzeugträger zu entfernen !
Voreinstellung ist ausserhalb der Maschine ist möglich.

Changement rapide sans avoir besoin de sortir le porte-outil du peigne !
Préréglage possible en dehors de la machine.



Sections / Querschnitte / Sections **12 x 12 mm** / **16 x 16 mm**

Available for different types of inserts
Für verschiedene Wendeplattentypen verfügbar
Disponible pour différents types de plaquettes



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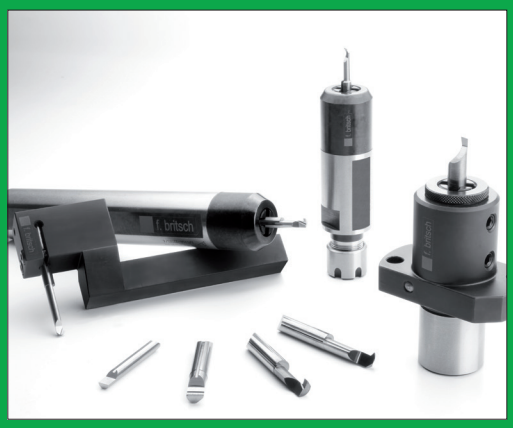
SPANNWERKZEUGE
CLAMPING TOOLS

HALTER FÜR SCHNEIDWERKZEUGE
TOOL HOLDERS

SCHNEIDWERKZEUGE
CUTTING TOOLS

BIMU-WENDESCHNEIDPLATTENSYSTEM
BIMU-INSERTS



IFANGER MINIAUSDREHWERKZEUGE
IFANGER MICROTURN

PRÜFMITTEL
MEASURING EQUIPMENT

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alles. immer. schnell.

werkzeuge | maschinen

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