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CH-2740 Moutier



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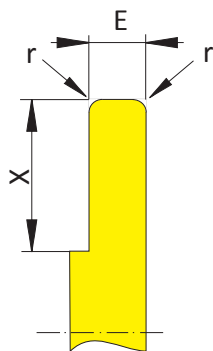
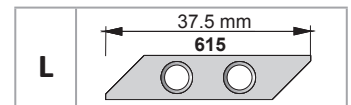
SWISS MADE

Fabricant d'outillage carbure depuis 1969
Vollhartmetallwerkzeug - Hersteller seit 1969
Manufacturer carbide cutting tools since 1969



foncer/tourner
einstechen/drehen
grooving/turning

617LO avec rayon
617LO mit Radius
617LO with radius



TYPE/TYP/TYPE	E	r	X	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
617LO	1.0	0.08	2.0	●	●	●	○
617LO	1.5	0.08	3.0	●	●	●	○
617LO	1.5	0.20	3.0	●	●	●	○
617LO	2.0	0.08	4.0	●	●	●	○
617LO	2.0	0.20	4.0	●	●	●	○
617LO	2.5	0.08	5.0	○	○	○	○
617LO	2.5	0.20	5.0	○	○	○	○
617LO	3.0	0.08	6.0	●	●	●	○
617LO	3.0	0.20	6.0	●	●	●	○

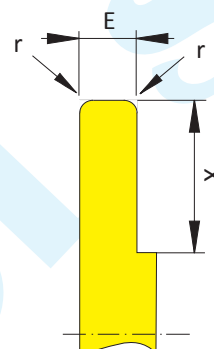
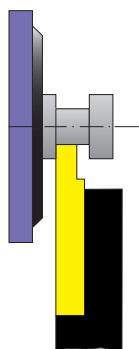
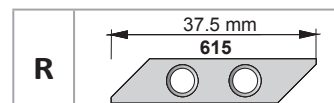
Exemple commande / Bestellbeispiel / Order example: 617LO 1.0 r 0.08 NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

foncer/tourner
einstechen/drehen
grooving/turning

617RO avec rayon
617RO mit Radius
617RO with radius



TYPE/TYP/TYPE	E	r	X	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
617RO	1.0	0.08	2.0	●	●	●	○
617RO	1.5	0.08	3.0	●	●	●	○
617RO	1.5	0.20	3.0	●	●	●	○
617RO	2.0	0.08	4.0	●	●	●	○
617RO	2.0	0.20	4.0	●	●	●	○
617RO	2.5	0.08	5.0	○	○	○	○
617RO	2.5	0.20	5.0	○	○	○	○
617RO	3.0	0.08	6.0	●	●	●	○
617RO	3.0	0.20	6.0	●	●	●	○

Exemple commande / Bestellbeispiel / Order example: 617RO 1.0 r 0.08 NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

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CH-2740 Moutier



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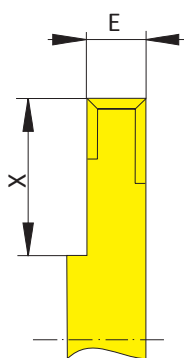
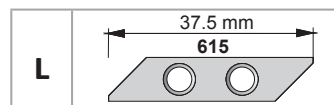
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foncer/tourner
einstechen/drehen
grooving/turning

617LO BCX brise copeau
617LO BCX Spanbrecher
617LO BCX chip breaker



TYPE/TYP/TYPE	E	X	Revêtement - Beschichtung - Coating			
			NR	TIN	FUT	TICN
617LO	1.5	3.0	O	O	O	O
617LO	2.0	4.0	●	●	●	O
617LO	2.5	5.0	●	●	●	O
617LO	3.0	6.0	●	●	●	O
617LO	4.0	8.0	O	O	O	O

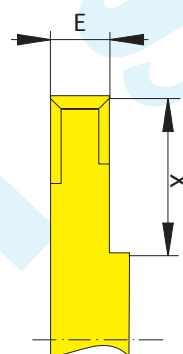
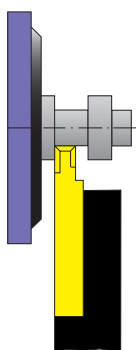
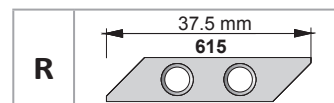
Exemple commande / Bestellbeispiel / Order example: 617LO 1.5 BCX NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

foncer/tourner
einstechen/drehen
grooving/turning

617RO BCX brise copeau
617RO BCX Spanbrecher
617RO BCX chip breaker



TYPE/TYP/TYPE	E	X	Revêtement - Beschichtung - Coating			
			NR	TIN	FUT	TICN
617RO	1.5	3.0	O	O	O	O
617RO	2.0	4.0	●	●	●	O
617RO	2.5	5.0	●	●	●	O
617RO	3.0	6.0	●	●	●	O
617RO	4.0	8.0	O	O	O	O

Exemple commande / Bestellbeispiel / Order example: 617RO 1.5 BCX NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

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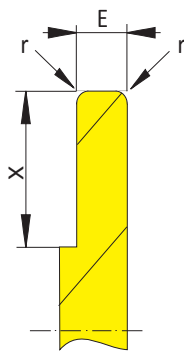
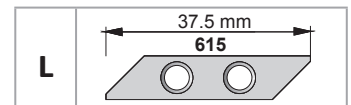


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foncer/tourner
einstecken/drehen
grooving/turning

617LX avec rayon
617LX mit Radius
617LX with radius



TYPE/TYP/TYPE	E	r	X	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
617LX	1.0	0.08	2.0	●	●	●	○
617LX	1.0	0.20	2.0	●	●	●	○
617LX	1.0	0.40	2.0	○	○	○	○
617LX	1.5	0.08	3.0	●	●	●	○
617LX	1.5	0.20	3.0	●	●	●	○
617LX	1.5	0.40	3.0	●	●	●	○
617LX	2.0	0.08	4.0	●	●	●	○
617LX	2.0	0.20	4.0	●	●	●	○
617LX	2.0	0.40	4.0	●	●	●	○
617LX	2.5	0.08	5.0	●	●	●	○
617LX	2.5	0.20	5.0	●	●	●	○
617LX	2.5	0.40	5.0	●	●	●	○
617LX	3.0	0.08	6.0	●	●	●	○
617LX	3.0	0.20	6.0	●	●	●	○
617LX	3.0	0.40	6.0	●	●	●	○
617LX	4.0	0.08	8.0	●	●	●	○
617LX	4.0	0.20	8.0	●	●	●	○
617LX	4.0	0.40	8.0	●	●	●	○

Exemple commande / Bestellbeispiel / Order example: 617LX 1.0 r 0.08 NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

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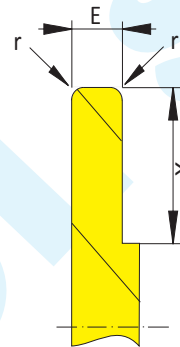
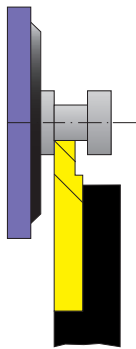
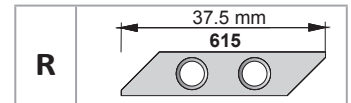
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foncer/tourner
einstechen/drehen
grooving/turning

617RX avec rayon
617RX mit Radius
617RX with radius



TYPE/TYP/TYPE	E	r	X	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
617RX	1.0	0.08	2.0	●	●	●	○
617RX	1.0	0.20	2.0	●	●	●	○
617RX	1.0	0.40	2.0	○	○	○	○
617RX	1.5	0.08	3.0	●	●	●	○
617RX	1.5	0.20	3.0	●	●	●	○
617RX	1.5	0.40	3.0	●	●	●	○
617RX	2.0	0.08	4.0	●	●	●	○
617RX	2.0	0.20	4.0	●	●	●	○
617RX	2.0	0.40	4.0	●	●	●	○
617RX	2.5	0.08	5.0	●	●	●	○
617RX	2.5	0.20	5.0	●	●	●	○
617RX	2.5	0.40	5.0	●	●	●	○
617RX	3.0	0.08	6.0	●	●	●	○
617RX	3.0	0.20	6.0	●	●	●	○
617RX	3.0	0.40	6.0	●	●	●	○
617RX	4.0	0.08	8.0	●	●	●	○
617RX	4.0	0.20	8.0	●	●	●	○
617RX	4.0	0.40	8.0	●	●	●	○

Exemple commande / Bestellbeispiel / Order example: 617RX 1.0 r 0.08 NR

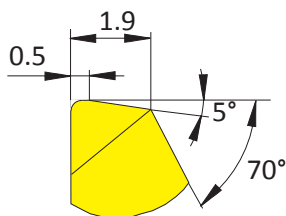
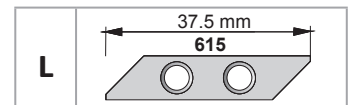
● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

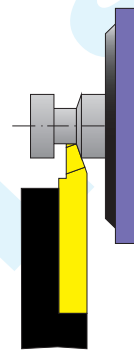
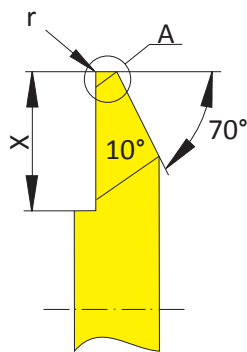


tourner arrière ébauche
vordrehen hinten
rough back turn

619LX avec rayon
619LX mit Radius
619LX with radius



Détail A



TYPE/TYP/TYPE	E	r	X	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
619LX	1.9	0.20	7.0	●	●	●	O

Exemple commande / Bestellbeispiel / Order example:

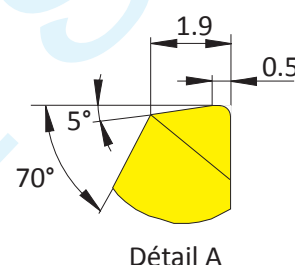
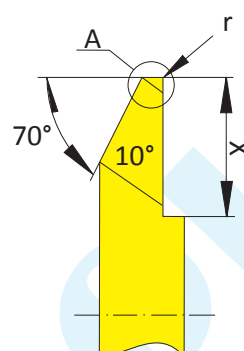
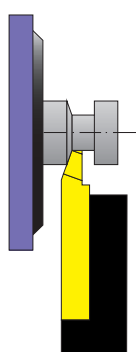
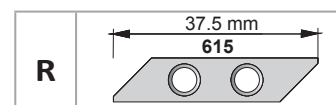
619LX r 0.20 NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

tourner arrière ébauche
vordrehen hinten
rough back turn

619RX avec rayon
619RX mit Radius
619RX with radius



TYPE/TYP/TYPE	E	r	x	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
619RX	1.9	0.20	7.0	●	●	●	O

Exemple commande / Bestellbeispiel / Order example:

619RX r 0.20 NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

foncer/tourner/ébauche/finition

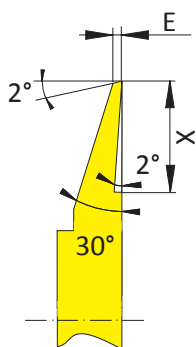
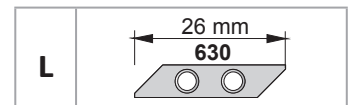
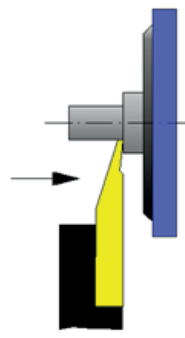
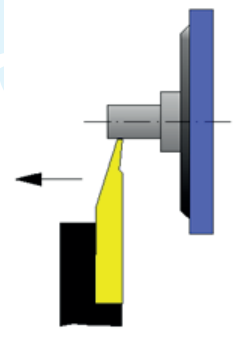
631HL

einstecken/drehen/schruppen/schlichten

631HL

grooving/turning/roughing/finishing

631HL

ébauche
schruppen
roughingfinition
schlichten
finishing

TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
631HL	0.05	2.0	30°	●	O	●	O

Exemple commande / Bestellbeispiel / Order example:

631HL NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

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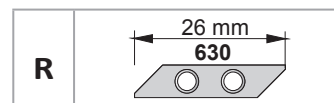
CH-2740 Moutier

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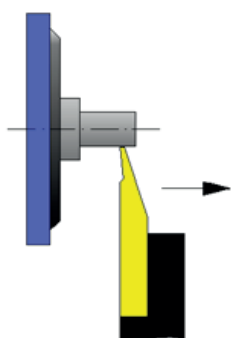
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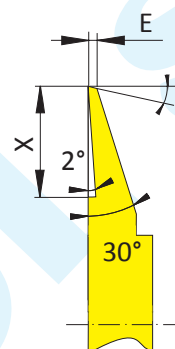
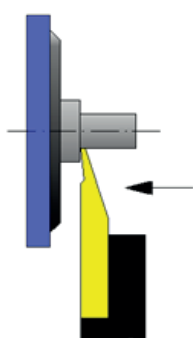
foncer/tourner/ébauche/finition	631HR
einstecken/drehen/schruppen/schlichten	631HR
grooving/turning/roughing/finishing	631HR



finition
schlichten
finishing



ébauche
schruppen
roughing



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
631HR	0.05	2.0	30°	●	O	●	O

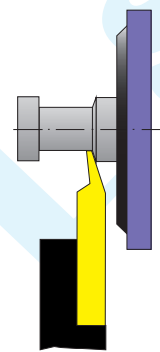
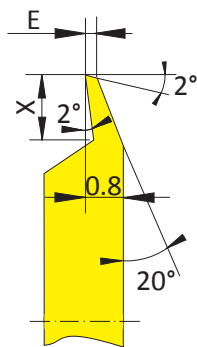
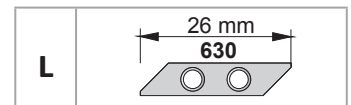
Exemple commande / Bestellbeispiel / Order example: 631HR NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

tourner arrière ébauche
vordrehen hinten
rough back turn

632HL EB
632HL EB
632HL EB



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
632HL EB	0.05	2.0	20°	●	O	●	O

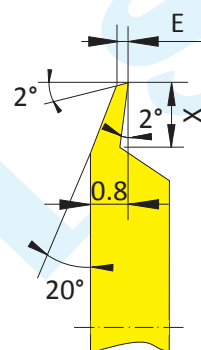
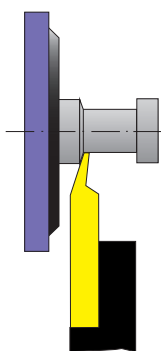
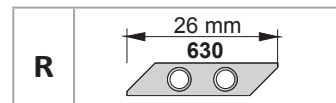
Exemple commande / Bestellbeispiel / Order example: 632HL EB NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

tourner arrière ébauche
vordrehen hinten
rough back turn

632HR EB
632HR EB
632HR EB



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
632HR EB	0.05	2.0	20°	●	O	●	O

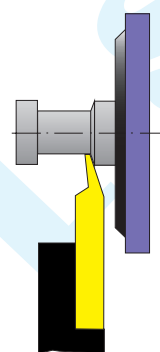
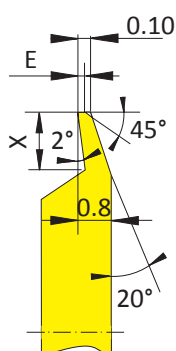
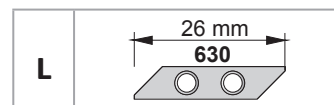
Exemple commande / Bestellbeispiel / Order example: 632HR EB NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

tourner arrière finition
hinten drehen schlichten
back turning finishing

632HL FI
632HL FI
632HL FI



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
632HL FI	0.03	2.0	20°	●	O	●	O

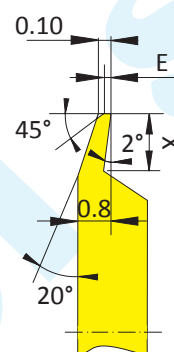
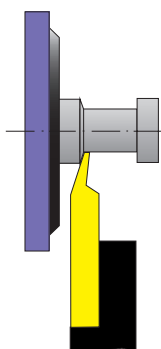
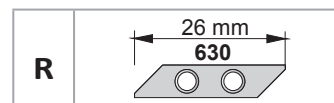
Exemple commande / Bestellbeispiel / Order example: 632HL FI NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

tourner arrière finition
hinten drehen schlichten
back turning finishing

632HR FI
632HR FI
632HR FI



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
632HR FI	0.03	2.0	20°	●	O	●	O

Exemple commande / Bestellbeispiel / Order example: 632HR FI NR

● stock
ab Lager
on stock

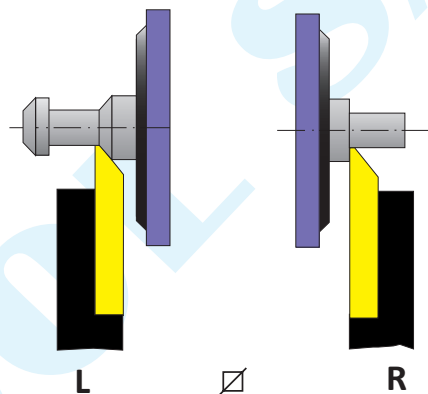
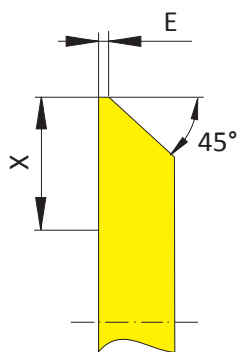
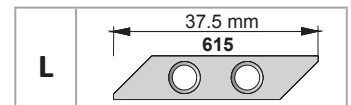
○ sur demande
auf Anfrage
on demand

foncer/tourner/angler
einstecken/drehen mit Winkel
grooving/turning with angle

655L 45

655L 45

655L 45



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
655L 45	0.5	9.0	45°	●	●	●	O

Exemple commande / Bestellbeispiel / Order example: 655L 45 NR

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

foncer/tourner/angler

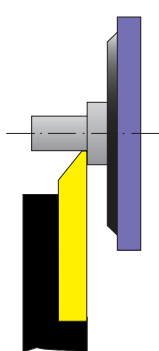
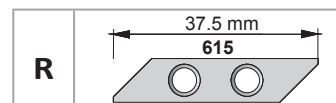
655R 45

einstecken/drehen mit Winkel

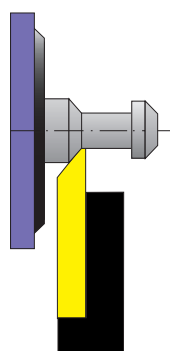
655R 45

grooving/turning with angle

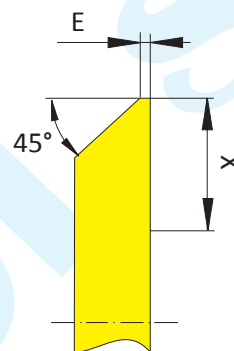
655R 45



L



R



TYPE/TYP/TYPE	E	X	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
				NR	TIN	FUT	TICN
655R 45	0.5	9.0	45°	●	●	●	O

Exemple commande / Bestellbeispiel / Order example:

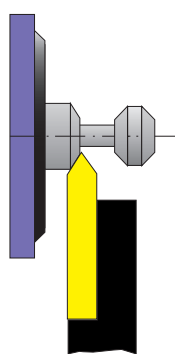
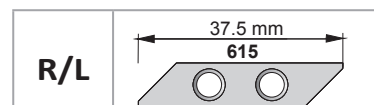
655R 45 NR

● stock
ab Lager
on stock

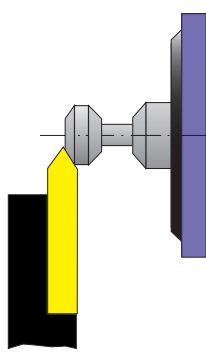
○ sur demande
auf Anfrage
on demand

angler
Winkel
Angle

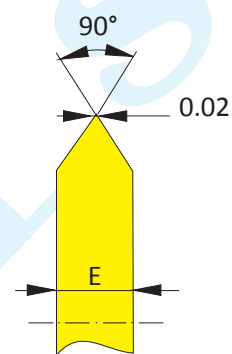
655R/L 90
655R/L 90
655R/L 90



R



L



TYPE/TYP/TYPER	E	Angle/Winkel/Angle	Revêtement - Beschichtung - Coating			
			NR	TIN	FUT	TICN
655R/L 90	4	90°	●	●	●	O

Exemple commande / Bestellbeispiel / Order example:

655R/L NR

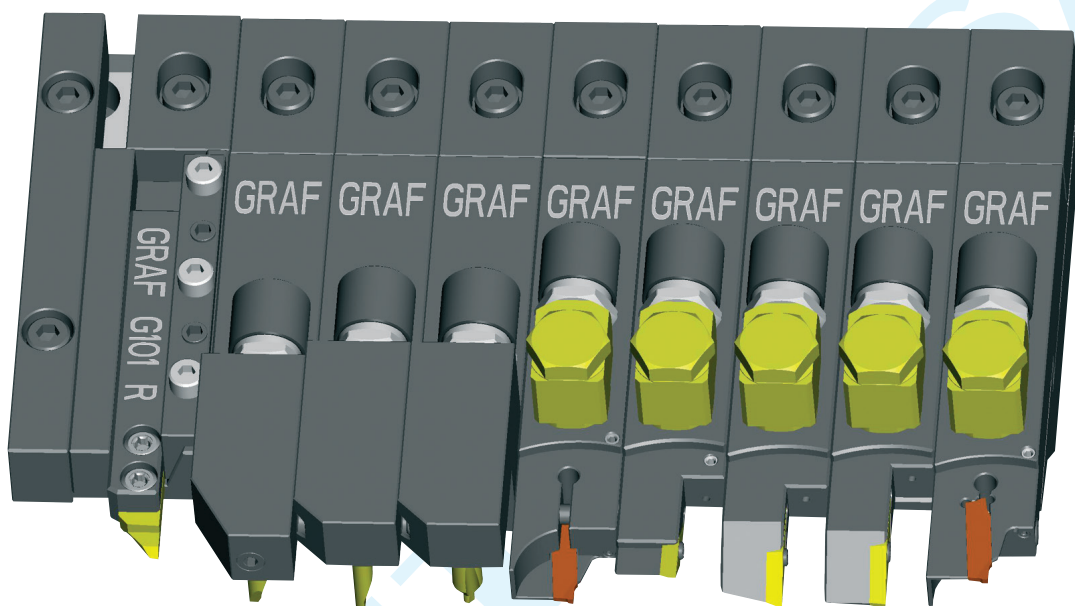
● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

Lineareinheit Schnell-
wechselsystem mit
Innenkühlung

Linear-Unit-Quick-
change-System with
inner cooling

Unité linéaire
pour inserts à
refroidissement
intérieur



Unsere Pluspunkte:

- 9 Werkzeugstationen mit Innenkühlung!
- Verkürzung der Rüstzeiten!
- Sehr hohe Genauigkeit +/- 1Hundertstel!
- Werkzeuge individuell festlegbar!
- Maximale Stabilität durch unsere „Schwalbenschwanz“ Technologie!

Our plus points:

- 9 tool stations with inner cooling!
- Reduction of the set up times!
- Very high accuracy +/- 1 hundredth!
- Individual configuration of the tools!
- Max. stability due to our "dove tail" technology!

Nos atouts:

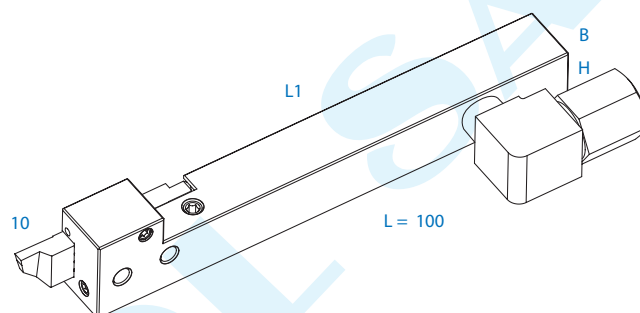
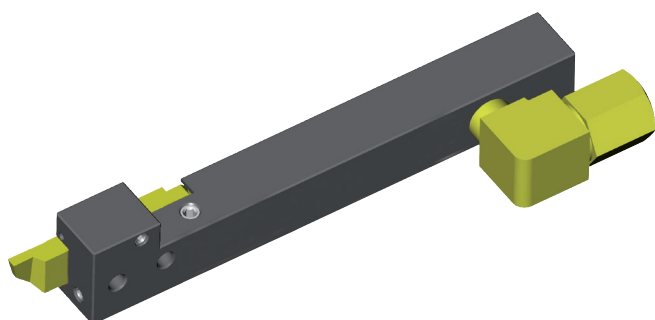
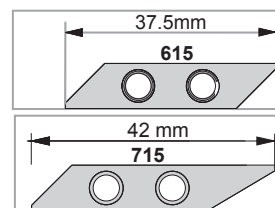
- 9 emplacements pour des outils à refroidissement intérieur!
- Réduction des temps de montage
- Précision extrême (+/-) 1 centième
- Configuration individuelle de chaque outil
- Stabilité maximale grâce à notre technologie en «queue de pie»

Exemple commande / Bestellbeispiel / Order example:

sur demande
o auf Anfrage
o on demand

Porte-outils avec arrosage intégré
Wendeplatten-Halter mit Kühlkanal
Plate holder with integrated cooling

P615 L HP
P615 L HP
P615 L HP



GRAF
WERKZEUGSYSTEME

TYPE/TYP/TYPE	▣	L1	L2	STOCK LAGER STOCK	SERIE	VIS SCHRAUBE SCREW	CLE SCHLUESSEL KEY
P615 L 12 HP	12 x 12	86	100	●	615 715	628V	T15
P615 L 16 HP	16 x 16	86	100	●	615 715	628V	T15
P615 L 20 HP	20 x 20	86	100	●	615 715	628V	T15

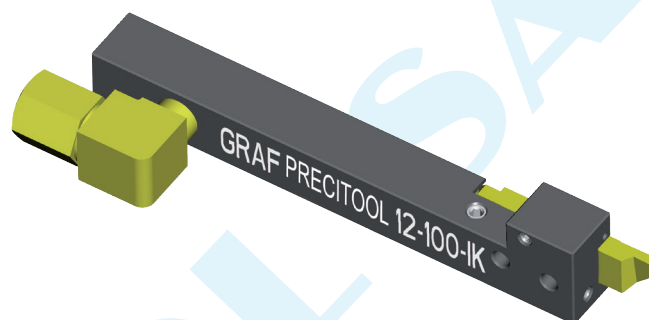
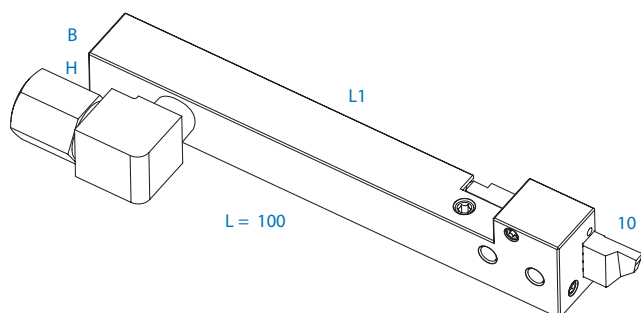
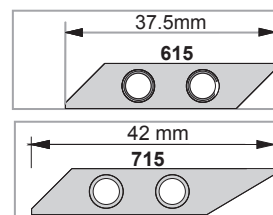
Exemple commande / Bestellbeispiel / Order example: P 615 L 12 HP

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

Porte-outils avec arrosage intégré
Wendeplatten-Halter mit Kühlkanal
Plate holder with integrated cooling

P615 R HP
P615 R HP
P615 R HP



GRAF
WERKZEUGSYSTEME

TYPE/TYP/TYPE	▧	L1	L2	STOCK LAGER STOCK	SERIE	VIS SCHRAUBE SCREW	CLE SCHLUESSEL KEY
P615 R 12 HP	12 x 12	86	100	●	615 715	628V	T15
P615 R 16 HP	16 x 16	86	100	●	615 715	628V	T15
P615 R 20 HP	20 x 20	86	100	●	615 715	628V	T15

Exemple commande / Bestellbeispiel / Order example: P 615 R 12 HP

● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

Raccord pour canal d'arrosage
Kühlmittelanschluss Standard
Coolant supply

P615 L HP
P615 R HP

GRAF
WERKZEUGSYSTEME

Flex-Leitungen / Flexible tubes

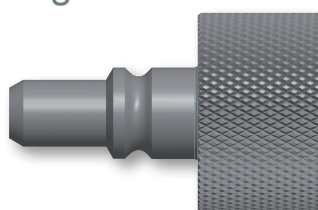
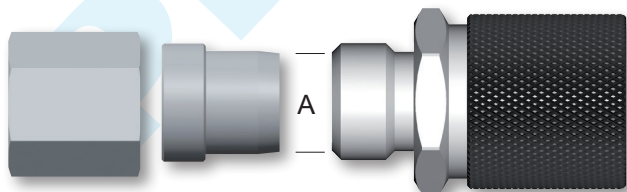


Best-Nr./ Order-No.	Bezeichnung Description	Ø Ø	Länge Length
21-1109	SMS-A DN 2x100 bds. HE-S 06-ACF	6	100
21-1111	SMS-A DN 2x150 bds. HE-S 06-ACF	6	150
21-1112	SMS-A DN 2x200 bds. HE-S 06-ACF	6	200
21-1113	SMS-A DN 2x250 bds. HE-S 06-ACF	6	250
21-1114	SMS-A DN 2x300 bds. HE-S 06-ACF	6	300
21-1115	SMS-A DN 2x400 bds. HE-S 06-ACF	6	400
21-1116	SMS-A DN 2x500 bds. HE-S 06-ACF	6	500

Schnellkupplung für Kühlmittelanschluss / Clip connection for through tool cooling

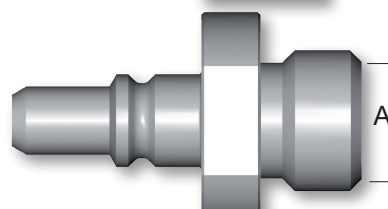
Schnellkupplung inkl. Überwurfmutter und Schneidring
Quick connection incl. union nut and olive

A Best-Nr./Order-No.
M10x1 004.00.49



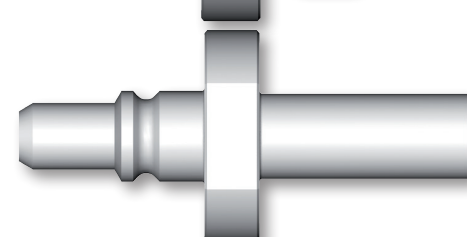
Verschlussstopfen /
Sealing plug

Best.-Nr. / Order-No.
004.00.66



Stecker / Adapter

A Best-Nr./Order-No.
M8x1 004.00.56
G1/8" 004.00.57



Stecker / Adapter

Ø 6 mm

Best-Nr./Order-No.
004.00.59

Raccord pour canal d'arrosage
Kühlmittelanschluss Standard
Coolant supply

P615 L HP
P615 R HP

GRAF
WERKZEUGSYSTEME

Kühlmittelanschluss Standard / Connection for through tool cooling

Kühlmittelanschluss gerade /

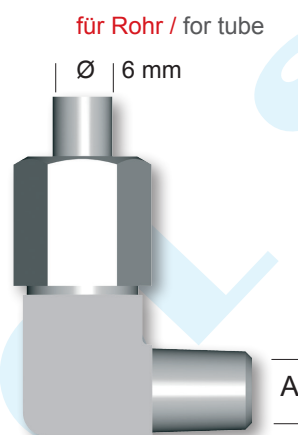
Connection through tool cooling / straight



A	Best-Nr./Order-No.
M8x1	004.00.19
G1/8"	004.00.14

Kühlmittelanschluss 90° Winkel /

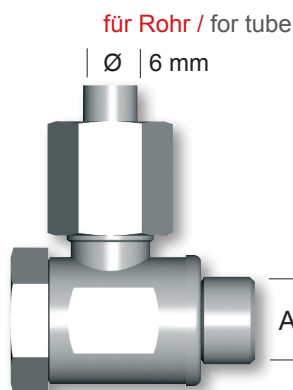
Connection through tool cooling 90° angle



A	Best-Nr./Order-No.
M8x1	004.00.22
G1/8"	004.00.33
G1/4"	004.00.34

Schwenkverschraubung /

Swivelling screw fitting



A	Best-Nr./Order-No.
M8x1	004.00.61
G1/8"	004.00.16

2/3/4-fach Verteilerleiste / 2/3/4 port distributor block



Best-Nr./ Order-No.	Bezeichnung Description	Eingänge Input G3/4"	Ausgänge Exit M8x1	Ausgänge Exit G1/8"
21-4207	VRL-2-M8x1	2	2	-
21-4208	VRL-2-G1/8"	2	-	2
21-4209	VRL-3-M8x1	2	3	-
21-4210	VRL-3-G1/8"	2	-	3
21-4211	VRL-4-M8x1	2	4	-
21-4212	VRL-4-G1/8"	2	-	4



PRECITool SA

www.precitool.ch

CH-2740 Moutier

++ 41 32 494 64 74

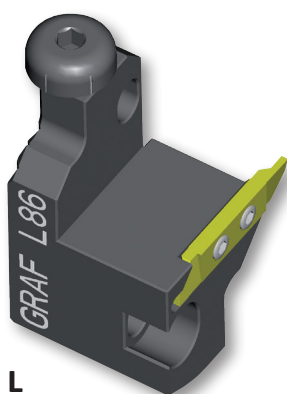
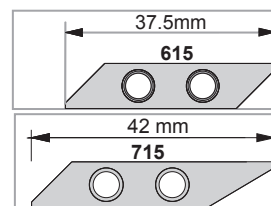
++ 41 32 494 64 77

info@precitool.ch

Porte-outils réversibles réglables en hauteur
 Rückseitenbearbeitungs-Werkzeuge höhenverstellbar
 back operation tools height adjustable

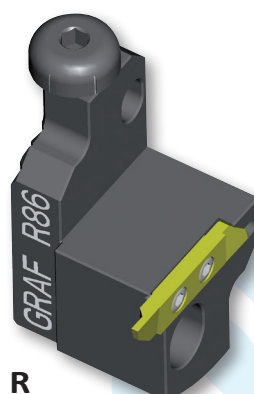
PTL L86 PTL R86
 PTL L86 PTL R86
 PTL L86 PTL R86

L/R



L

couper gauche
 linksschneidend
 cutting left
 L86

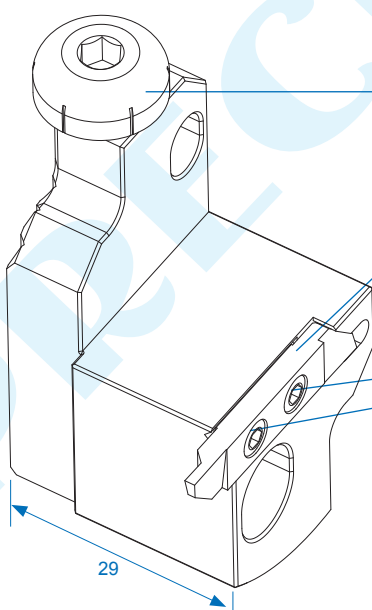


R

couper droite
 rechtsschneidend
 cutting right
 R86

GRAF
 WERKZEUGSYSTEME

Utilisation fonder, tourner, fileter
 Anwendungsbereich Formstechen, Gewindestrehlen, Einstech-Langdrehen
 Application forming, grooving, turning, threading



vis pour régler la hauteur
 screw to adjust the height
 Höhenverstellungsschraube
 002.00.69

pour/für/ for Precitool L/R 615 - 715

vis à tête noyée
 counter sunk-head screw
 Senkschraube
 001.01.45

29

Exemple commande / Bestellbeispiel / Order example: PTL L86

● stock
 ab Lager
 on stock

PRECITool SA

www.precitool.ch

CH-2740 Moutier

++ 41 32 494 64 74

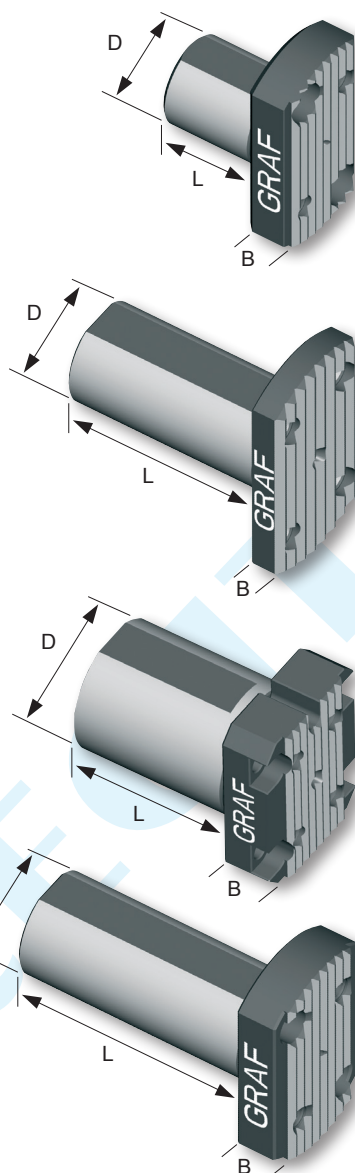
++ 41 32 494 64 77

info@precitool.ch

Porte-outils de base G
Grundhalter G
Basic tool holder G

PTL N06
PTL L86
PTL R86

GRAF
WERKZEUGSYSTEME



STAR-Maschinen

D	L	B	Best.-Nr.
16	10	10	G016 010 SW 7
16	19	10	G016 019 SW 7
16	21	6	G016 021
22	23	6	G022 023
22	30	6	G022 030
22	70	6	G022 070
22	25	12	G022 025 R16/20R
22	25	12	G022 030 SR32
34	30	12	G034 030 ECAS 32

CITIZEN-Maschinen

D	L	B	Best.-Nr.
3/4"	40	6	G034 040
3/4"	50	6	G034 050
3/4"	120	6	G034 120
20	30	6	G020 030
1"	30	6	G010 030
1"	60	6	G010 060
1"	100	6	G010 100

MAIER-Maschinen

D	L	B	Best.-Nr.
28	40	12	G028 040
30	45	12	G030 045
34	20	12	G034 020
34	44	12	G034 044

TRAUB-Maschinen

D	L	B	Best.-Nr.
16	40	6	G016 040
28	80	12	G028 080

Exemple commande / Bestellbeispiel / Order example:

PTL G016 010 SW7

sur demande
o auf Anfrage
on demand

PRECITool SA

www.precitool.ch

CH-2740 Moutier

++ 41 32 494 64 74

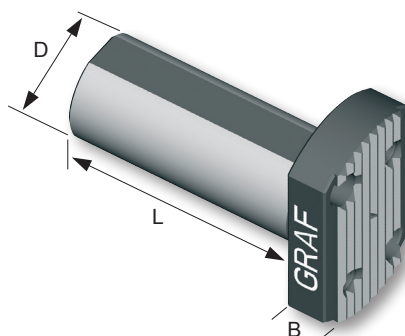
++ 41 32 494 64 77

info@precitool.ch

Porte-outils de base G
Grundhalter G
Basic tool holder G

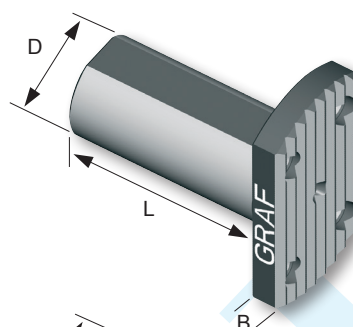
PTL N06
PTL L86
PTL R86

GRAF
WERKZEUGSYSTEME



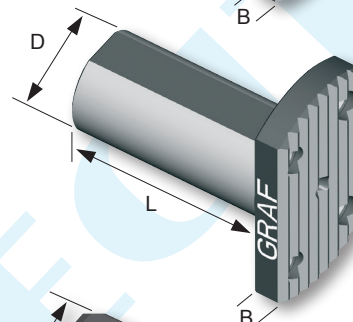
HANWHA-Maschinen

D	L	B	Best.-Nr.
20	40	6	G020 040
25	40	12	G025 040
25	60	12	G025 060
28	6	12	G028 006
32	25	12	G032 025
33	40	12	G033 040
34	44	12	G034 044



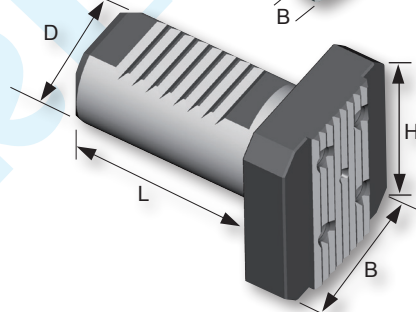
MANURHIN-Maschinen

D	L	B	Best.-Nr.
16	40	6	G016 040
20	150	6	G020 150
25	70	6	G025 070
25	100	6	G025 100
25	160	6	G025 160



TORNOS-Maschinen

D	L	B	Best.-Nr.
20	100	6	G020 100
20	150	6	G020 150
25	70	6	G025 070
25	100	6	G025 100
25	160	6	G025 160



VDI-Aufnahmen

D	L	H	B	Best.-Nr.
16	32	45	24	GV016 032
20	40	45	24	GV020 040
25	48	50	35	GV025 048
30	55	52,5	45	GV030 055

Exemple commande / Bestellbeispiel / Order example: PTL G020 040

sur demande
auf Anfrage
on demand



PRECITool SA

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CH-2740 Moutier

++ 41 32 494 64 74

++ 41 32 494 64 77

info@precitool.ch

Porte-outils arrière

Rückseitenbearbeitungs-Werkzeuge

Back working tools

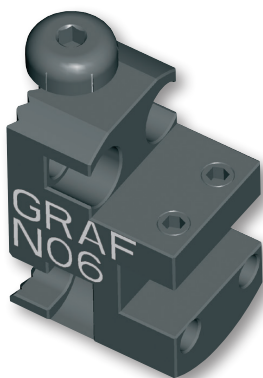
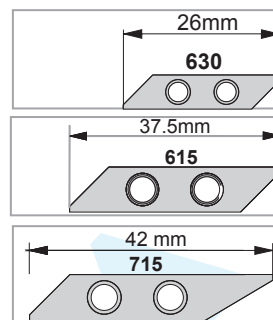
□ 10

PTL N06

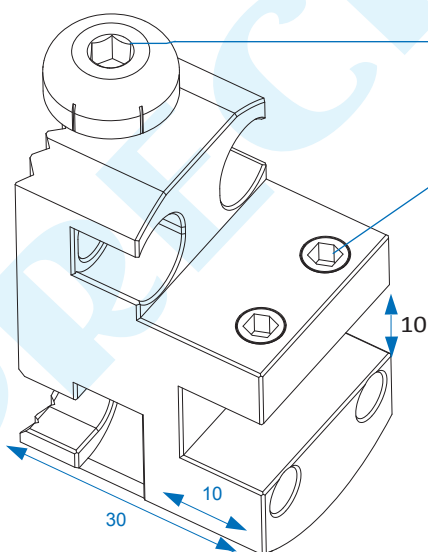
PTL N06

PTL N06

L/R



N06

GRAF
WERKZEUGSYSTEME


vis pour régler la hauteur
Höhenverstelle schraube
screw to adjust the height
002.00.69

vis sans tête
Gewindestift
set screw
002.00.11

Exemple commande / Bestellbeispiel / Order example:

PTL N06

stock
● ab Lager
on stock

PRECITool SA

www.precitool.ch

CH-2740 Moutier

++ 41 32 494 64 74

++ 41 32 494 64 77

info@precitool.ch

Porte-outils de base G

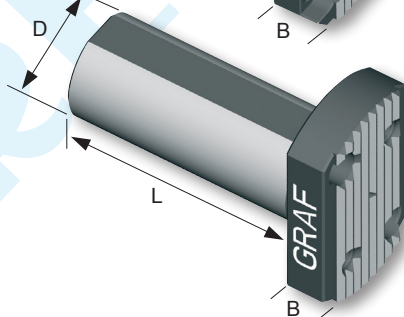
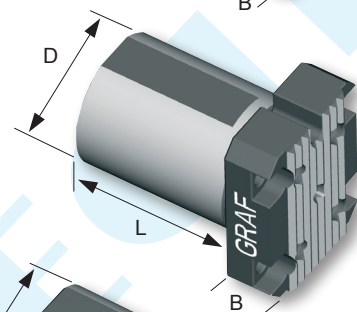
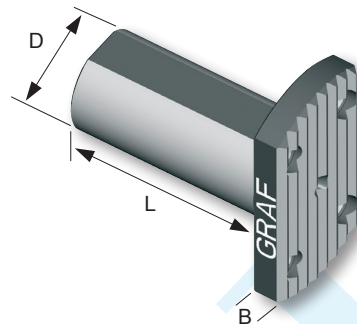
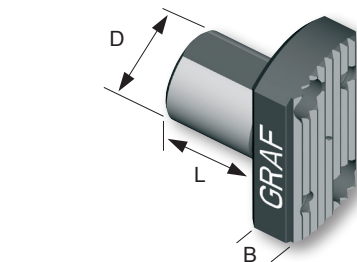
Grundhalter G

Basic tool holder G

PTL N06

PTL L86

PTL R86

GRAF
 WERKZEUGSYSTEME


STAR-Maschinen

D	L	B	Best.-Nr.
16	10	10	G016 010 SW 7
16	19	10	G016 019 SW 7
16	21	6	G016 021
22	23	6	G022 023
22	30	6	G022 030
22	70	6	G022 070
22	25	12	G022 025 R16/20R
22	25	12	G022 030 SR32
34	30	12	G034 030 ECAS 32

CITIZEN-Maschinen

D	L	B	Best.-Nr.
3/4"	40	6	G034 040
3/4"	50	6	G034 050
3/4"	120	6	G034 120
20	30	6	G020 030
1"	30	6	G010 030
1"	60	6	G010 060
1"	100	6	G010 100

MAIER-Maschinen

D	L	B	Best.-Nr.
28	40	12	G028 040
30	45	12	G030 045
34	20	12	G034 020
34	44	12	G034 044

TRAUB-Maschinen

D	L	B	Best.-Nr.
16	40	6	G016 040
28	80	12	G028 080

Exemple commande / Bestellbeispiel / Order example:

PTL G016 010 SW7

 sur demande
 o auf Anfrage
 on demand

Porte-outils de base G

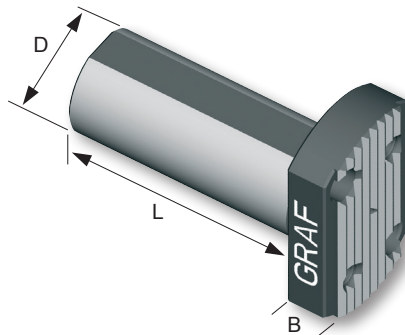
Grundhalter G

Basic tool holder G

PTL N06

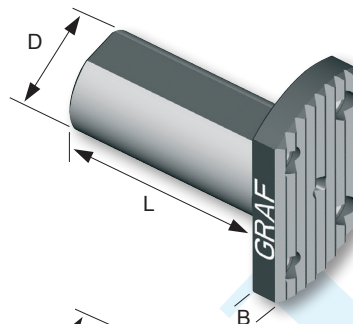
PTL L86

PTL R86

GRAF
 WERKZEUGSYSTEME


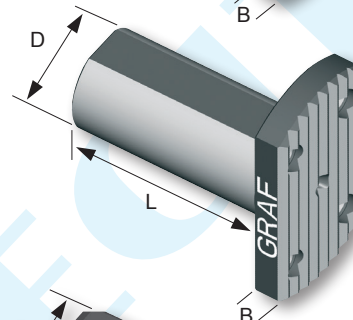
HANWHA-Maschinen

D	L	B	Best.-Nr.
20	40	6	G020 040
25	40	12	G025 040
25	60	12	G025 060
28	6	12	G028 006
32	25	12	G032 025
33	40	12	G033 040
34	44	12	G034 044



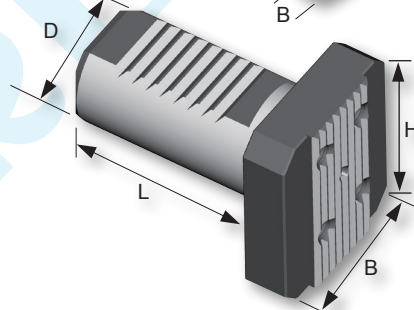
MANURHIN-Maschinen

D	L	B	Best.-Nr.
16	40	6	G016 040
20	150	6	G020 150
25	70	6	G025 070
25	100	6	G025 100
25	160	6	G025 160



TORNOS-Maschinen

D	L	B	Best.-Nr.
20	100	6	G020 100
20	150	6	G020 150
25	70	6	G025 070
25	100	6	G025 100
25	160	6	G025 160



VDI-Aufnahmen

D	L	H	B	Best.-Nr.
16	32	45	24	GV016 032
20	40	45	24	GV020 040
25	48	50	35	GV025 048
30	55	52,5	45	GV030 055

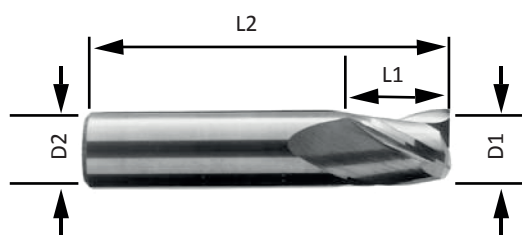
Exemple commande / Bestellbeispiel / Order example: PTL G020 040

 o sur demande
 auf Anfrage
 on demand

fraises en bout angles vifs
Schaftfräser scharfkantig
end mills sharp edged

PTL 336
PTL 336
PTL 336

VHM			
MD	90°	$\lambda 30^\circ$	$\gamma 10^\circ$
SC			



TYPE/TYP/TYPE	D1	D2	L1	L2	Z	Revêtement - Beschichtung - Coating	
						NR	avec/mit/with
336.015	1.5	6.0	4.0	39.0	3	●	●
336.020	2.0	6.0	5.0	39.0	3	●	●
336.025	2.5	6.0	6.0	39.0	3	●	●
336.030	3.0	6.0	6.0	39.0	3	●	●
336.040	4.0	6.0	8.0	39.0	3	●	●
336.050	5.0	6.0	9.0	39.0	3	●	●
336.060	6.0	6.0	9.0	39.0	3	●	●
336.080	8.0	8.0	12.0	44.0	3	●	●
336.100	10.0	10.0	14.0	51.0	3	●	●
336.120	12.0	12.0	17.0	58.0	3	●	●

Exemple commande / Bestellbeispiel / Order example: 336.015 NR

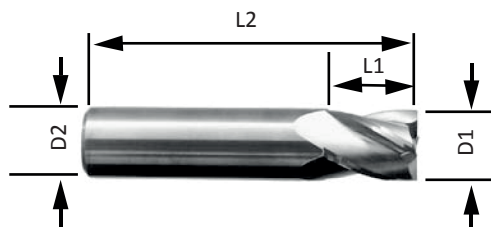
● stock
ab Lager
on stock

○ sur demande
auf Anfrage
on demand

fraises en bout de finition angles vifs
 Schaftfräser glattschneidig scharfkantig
 end mills finishing sharp edged

PTL 337
 PTL 337
 PTL 337

VHM	 90°	λ_{45°	γ_{10°
MD			
SC			



TYPE/TYP/TYPE	D1	D2	L1	L2	Z	Revêtement - Beschichtung - Coating	
						NR	avec/mit/with
337.030	3.0	6.0	4.0	38.0	4	●	●
337.040	4.0	6.0	5.0	38.0	4	●	●
337.050	5.0	6.0	6.0	38.0	4	●	●
337.060	6.0	6.0	7.0	38.0	6	●	●
337.080	8.0	8.0	9.0	41.0	6	●	●
337.100	10.0	10.0	11.0	48.0	6	●	●

Exemple commande / Bestellbeispiel / Order example: 337.030 NR

● stock
 ab Lager
 on stock

○ sur demande
 auf Anfrage
 on demand

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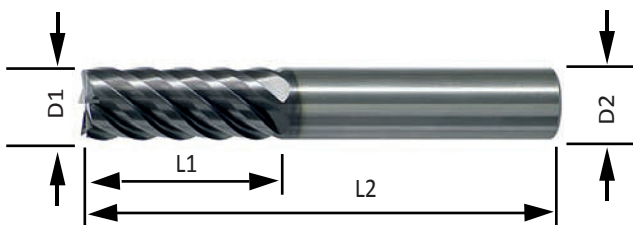
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fraises en bout de finition 55°
 Schaftfräser glattschneidig 55°
 end mills finishing 55°

PTL 355
 PTL 355
 PTL 355

VHM			
MD	45 °	λ_{55}°	γ_{15}°
SC			



TYPE/TYP/TYPE	D1	D2	L1	L2	Z	Revêtement - Beschichtung - Coating	
						NR	avec/mit/with
355.060	6.0	6.0	15.0	57.0	4	●	●
355.080	8.0	8.0	22.0	60.0	4	●	●
355.100	10.0	10.0	24.0	72.0	4	●	●
355.120	12.0	12.0	30.0	83.0	4	●	●

Exemple commande / Bestellbeispiel / Order example: 355.060 NR

● stock
 ab Lager
 on stock

○ sur demande
 auf Anfrage
 on demand

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merci de nous contacter**

Wir geben Ihnen gerne weitere Auskünfte, bitte kontaktieren Sie uns

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