



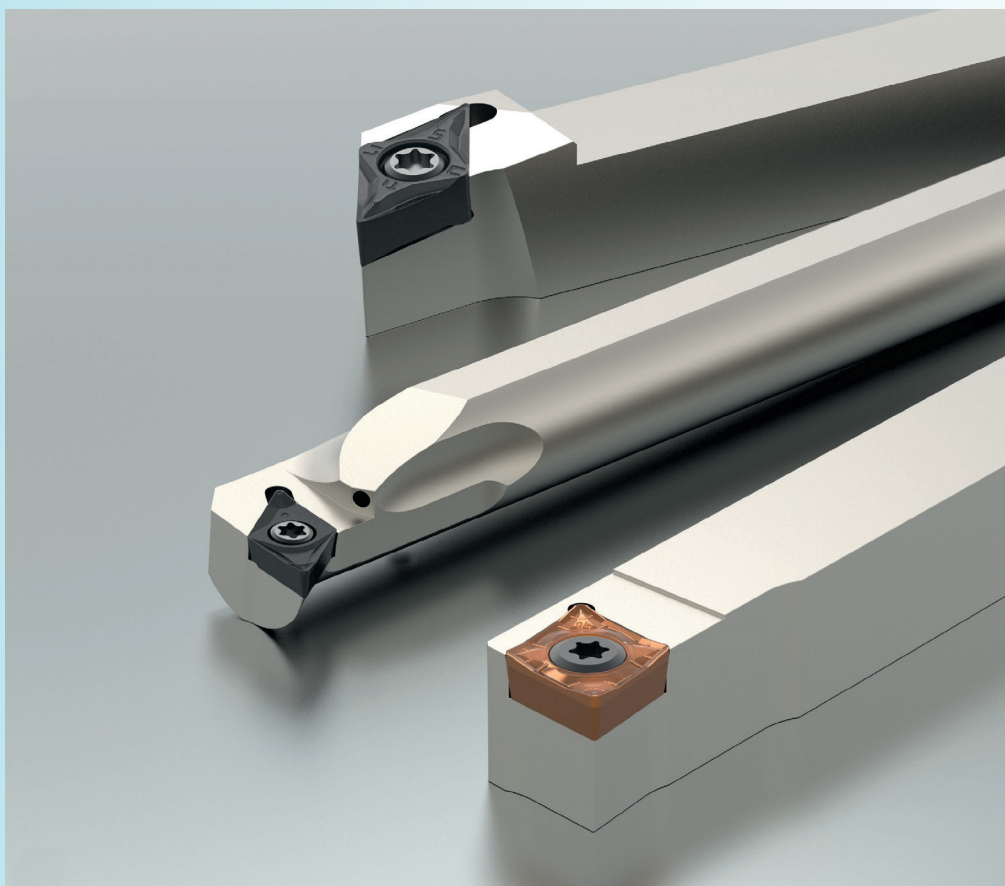
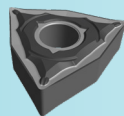
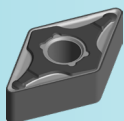
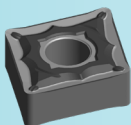
multidec[®] ISO

High Precision Turning Inserts & Tools

ISO Positive Indexable Inserts
Coolant-thru Holders



**Negative
Inserts**

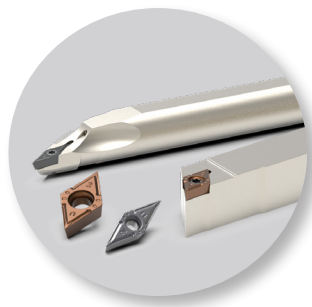


www.GenSwiss.com | 413-562-4800 | sales@genswiss.com

ISO turning tools from multidec®

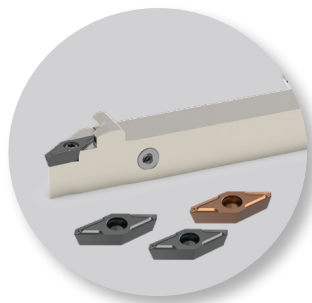


With multidec®-ISO, UTILIS provides a wide range of ISO indexable inserts for turning. The multidec®-TOP product range is a further development of the rhombic 35° ISO insert with wiper edge, which is an excellent all-rounder on the lathe. The multidec®-ISOx4 product range includes the 4-edge negative insert with positive cutting characteristics.



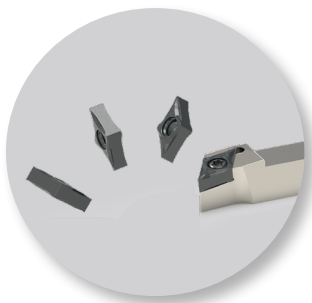
multidec® ISO

- Complete range of G-class inserts for the best super-finishing solution
- Corner radii from $R = 0.03 \text{ mm}$
- Finely polished inserts
- High-performance M-class inserts for finishing
- Holder with "IC" internal coolant supply



multidec® ISO Top

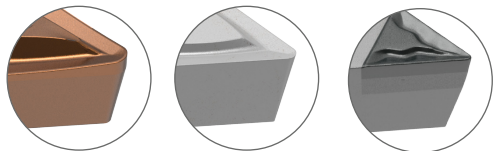
- VP based indexable insert with 11° clearance angle
- Excellent all-rounder tool
- Enables large cutting depth with excellent chip control
- Perfect finishing using wiper edge
- Enables fast feed rate with small corner radius
- Corner radii from $R = 0$ available



multidec® ISOx4

- Negative ISO inserts with positive cut
- Twice as many cutting edges as a positive ISO insert
- Stable screw clamping
- Optimized for the machining of stainless steel, titanium and exotic materials
- Excellent chip control allowing high feed rate and large cutting depth
- Holder with "IC" internal coolant supply

ISO Positive, ISO Top VP, ISO Negative



Description of Cutting Geometries

Pg. 10



CC..80°

ISO Positive

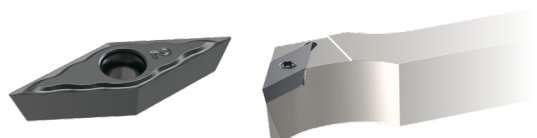
Pg. 17



DC..55°

ISO Positive

Pg. 39



VC... 35°

ISO Positive

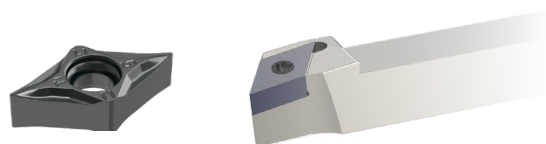
Pg. 71



ISO TOP - VP... 35°

ISO TOP

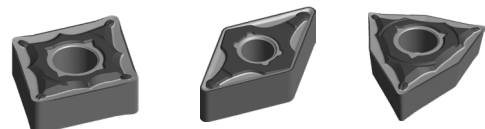
Pg. 105



DN...55°

ISO Negative

Pg. 123

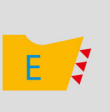
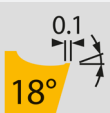
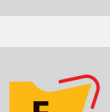
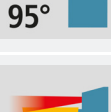


CNMG, DNMG, WNMG

ISO Negative

Pg. 135

Symbols for tool characteristics and tool applications

	Tool Material Carbide		Tolerance class Class E (ground circumference, high thickness accuracy)		Chip surface Polished
	CERMET		Class G (ground circumference)		Rake angle Example: 10°
	Diamond		Class M (sintered)		Example: 18° with protective chamfer
	Form of insert Example: 80°		Class X (precision sintered)		Cutting edges F=sharp cutting edge
	Form of holder Example: 95° (L)		Application Example: Turning & facing		E=rounded cutting edge
	Coolant Holder with "IC" integrated cooling				

Categorization of materials

The application data for multidec® tools is defined for specific material groups. All machinable materials are classified using a standardized color-coding system that is applied consistently throughout the entire catalog.

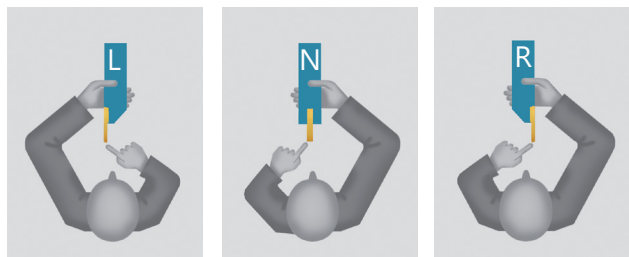
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Recommended Usage

- Preferred Application
- Possible Application
- Application Not Recommended

Execution of holder/insert

The side on which the insert is located determines whether it is a "left-hand" or "right-hand" holder. For this purpose, the holder is viewed with the insert pointing towards the observer.



Left Hand Holder

Neutral Holder

Right Hand Holder

Pictures

The right-hand version of the tools is usually shown. (Exceptions are possible). The tool colors illustrated here are not binding.

Order designation	Coated
 To the designation of the selected type of product, the desired grade code must be added.	  Item #
CCGT 0602005 FN -PA7 ... 2	7005-139778 1

1 Order using GenSwiss
Item #: 7005-139778

2 Utilis Designation:
CCGT 0602005 FN -PA7 UHM10 HX

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Dimensions

Dimensions are in millimeter (mm)
Unless noted in inches

Carbide Grades for G-class Inserts

Grade overview

	UHM10	– Highly wear-resistant micro-grain carbide
PVD	UHM10 HPX	– Highly wear-resistant micro-grain carbide – AlTiN-based universal high-performance coating
PVD	UHM10 TX+	– Highly wear-resistant micro-grain carbide – AlTiSiN-based coating for best performance with high-alloyed, exotic materials and hard materials – Outstanding temperature resistance
	UHM20	– Universal micro-grain carbide with best balance for toughness and wear resistance
PVD	UHM20 HPX	– Universal micro-grain carbide with best balance for toughness and wear resistance – AlTiN-based universal high-performance coating
PVD	UHM20 TX+	– Universal micro-grain carbide with best balance between toughness and wear resistance – AlTiSiN-based coating for best performance with high-alloyed and exotic materials – Outstanding temperature resistance

Carbide Grades for M-class Inserts

PVD	HMP710	– Highly wear-resistant carbide – AlTiN-based coating for best performance with steel, high-alloyed steel and exotic materials
PVD	HMP720	– Universal carbide with best balance for toughness and wear resistance – AlTiN-based coating for best performance with steel, high-alloyed steel and exotic materials
PVD	UHM30 HX	– High-performance carbide for difficult machining conditions – AlTiN-based universal high-performance coating
CVD	UHM20 MZ	– Wear-resistant carbide – Al ₂ O ₃ -based multi-layer coating for very high temperature resistance
CVD	HMC815	– Wear-resistant carbide – Al ₂ O ₃ -based multi-layer coating for very high temperature resistance

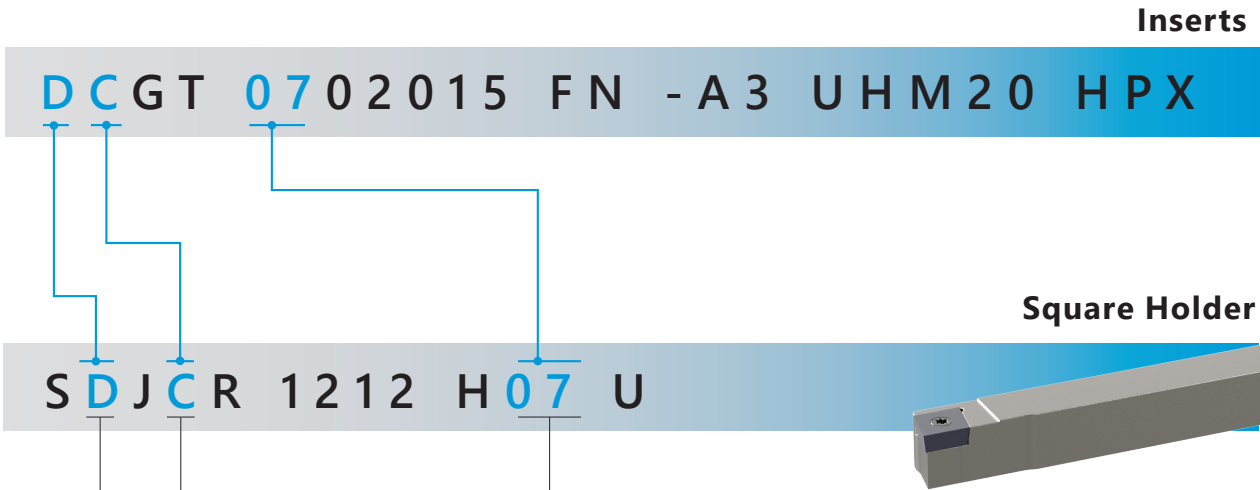
CERMET Grades

	UCM10	– Wear-resistant grade for the finishing and extremely fine machining with fast cutting speed
PVD	UCM10 HX	– Wear-resistant grade for the finishing and extremely fine machining in steel and stainless steel – AlTiN-based coating for best performance, even at slow cutting speeds
	CMB-15	– Grade with best wear resistance for high-speed finishing in steel
PVD	CMP120	– Coated CERMET grade for best wear resistance under difficult conditions – Makes interrupted cutting possible, and also low cutting speeds

Diamond Grades (More Information on Page 15)

PCD	UPCD20	– Universal polycrystalline diamond, best performance for aluminum alloys with 13–20% silicon – Perfect balance between hardness and toughness for general machining of non-ferrous materials
PCD	UPCD15	– Universal polycrystalline diamond, best performance for aluminum with <13% silicon – Fine-grain structure for improving tool life
CVD Diamond	UCVD08	– Ultra-hard CVD thick layer with 99.9% diamond content, can exceed the tool life of PCD tools by up to 10 times – Best performance in aluminum and magnesium alloys, fiberglass and reinforced plastics

DESIGNATION SYSTEM & COMPATABILITY

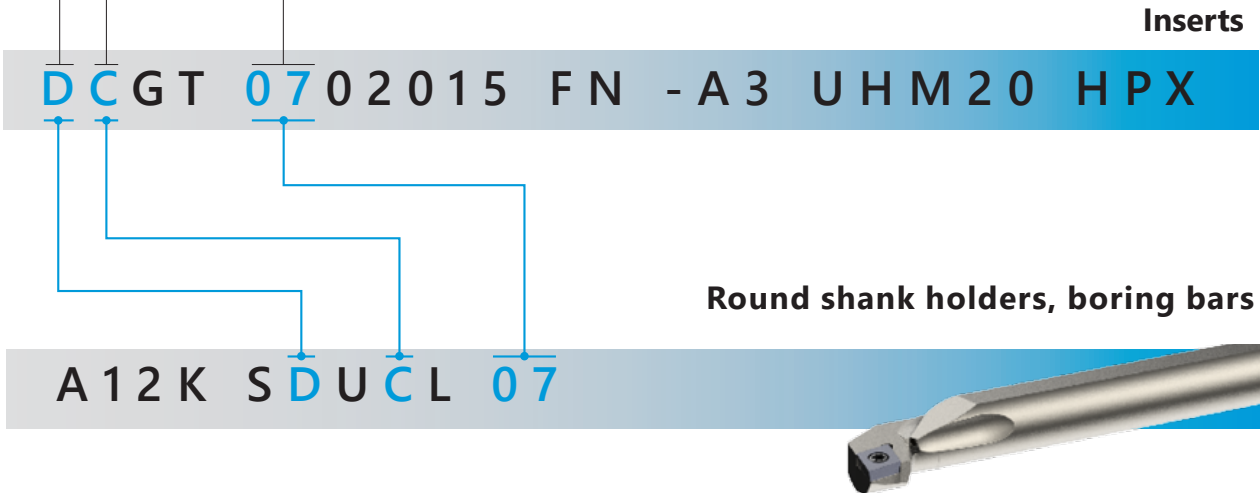


Form of insert		
Index	α	
C	80°	
D	55°	
V	35°	

Clearance angle		
Index	α	
C	7°	
N	0°	
P	11°	

Edge length			
Index	$\approx l$	d	
06	6	6.35	C = 80°
09	9	9.53	
07	7	6.35	D = 55°
11	11	9.53	
07	7	3.97	V = 35°
11	11	6.35	
16	16	9.53	
10*	10	6.35	V = 35°

* UTILIS standard

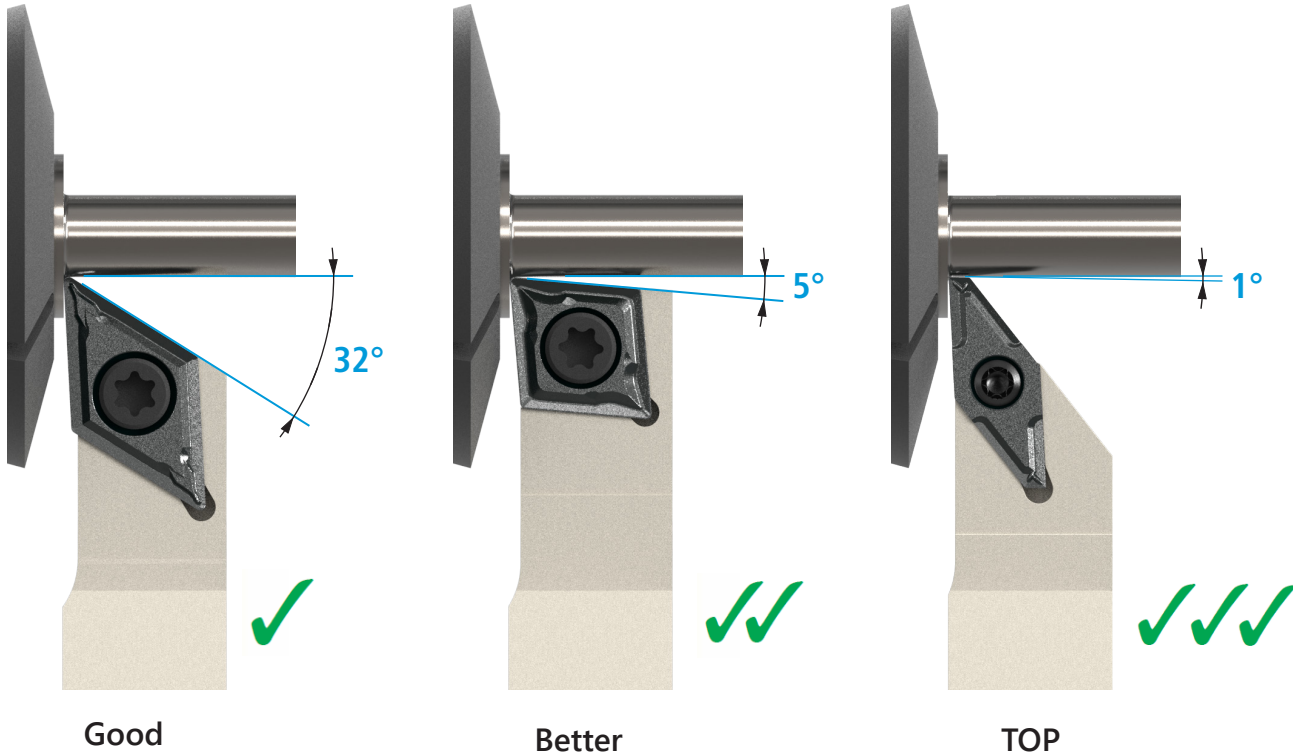


APPLICATION RECOMMENDATIONS

multidec[®]
ISO

Better surface quality with small corner radii

For better surface quality and optimum machining stability, the tool geometry with the smallest possible angle must be selected.

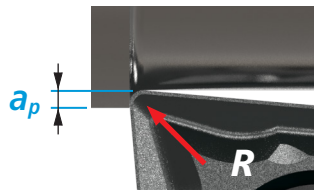


A very fine surface can be reached with multidec[®]-TOP, even with a corner radius of $R = 0$ mm

Recommended minimum cutting depth a_p

$$a_{p \text{ min}} = 0.7 \times R$$

$$R_{\text{max}} = 1.4 \times a_p$$



Minimal feed



$$f_{\text{min}} = 0.01 \quad f_{\text{min}} = \frac{a_p}{200}$$

Example: $\frac{a_p = 4}{200} = 0.02 \text{ f min}$

Explanation
f min Feed (mm)
 a_p Cutting depth (mm)



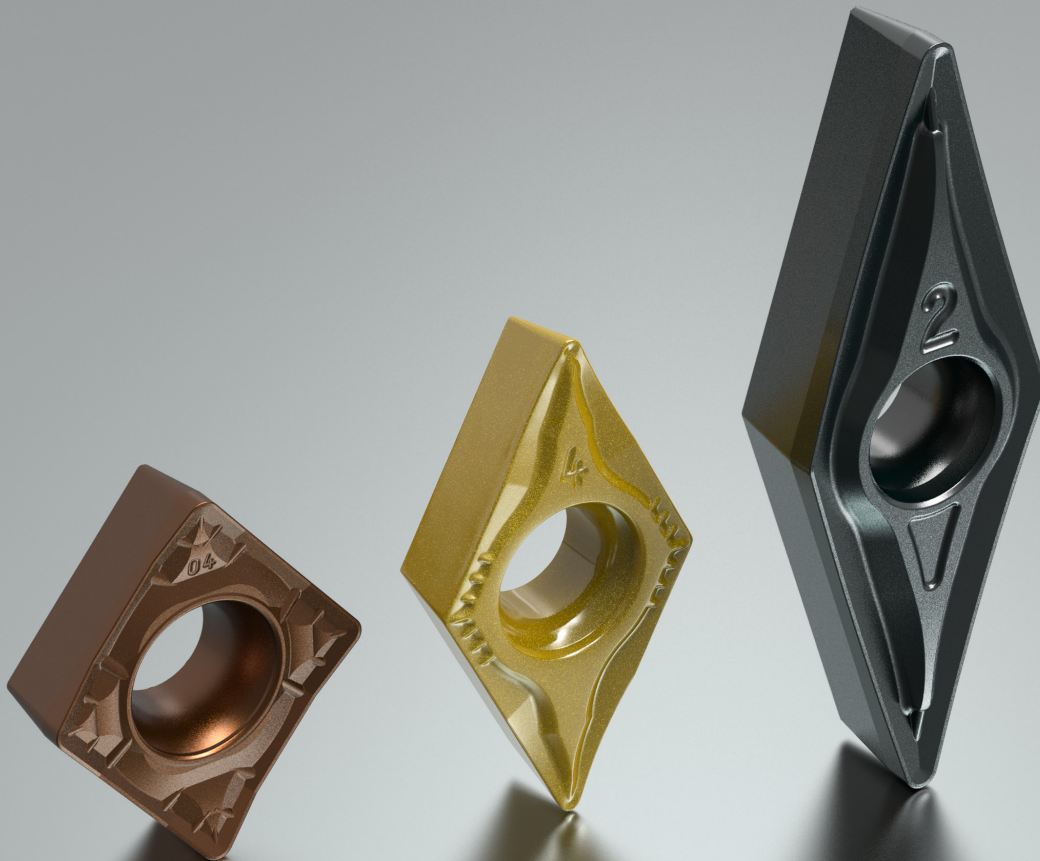
$$f_{\text{min}} = 0.025 \quad f_{\text{min}} = \frac{a_p}{100}$$

Example: $\frac{a_p = 4}{100} = 0.04 \text{ f min}$

multidec[®]

ISO

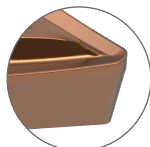
- Complete range of G-class inserts for the best super-finishing solution
- Many corner radii from $R = 0.03 \text{ mm}$
- Finely polished inserts
- High-performance M-class inserts for finishing
- Holder with "IC" internal coolant supply for optimising tool life



ISO Positive Product Range

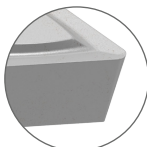


Carbide



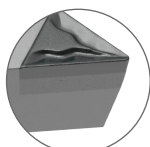
Pg. 10

Cermet



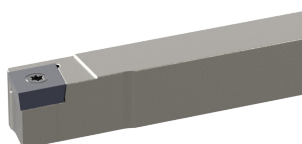
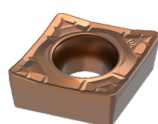
Pg. 13

Diamond



Pg. 14

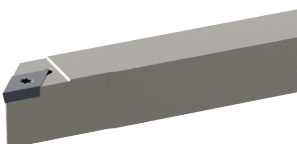
Insert Geometry Selection & Application



ISO type CC..80°

Inserts & Holders

Pg. 17



ISO type DC..55°

Inserts & Holders

Pg. 39



ISO type VC... 35°

Inserts & Holders

Pg. 71

G-class Carbide Inserts

First choice for finishing and super finishing

multidec[®]
ISO

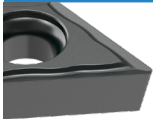
Ideal Cutting Materials

■ Preferred Application

□ Possible Application

- Application Not Recommended

PF23 



- Ideal for machining steel and hardening stainless steel
- Highly versatile insert
- Large cutting depth (a_p) possible
- Ideal for machining very small parts

CC 80°
Page 18



DC 55°
Page 40



VC 35°
Page 72



P	■ ■ ■ ■ ■	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	■ □ □ □ □	Cast iron
N	■ ■ ■ ■ □	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	■ □ □ □ □	Hard materials

PF33 



- Ideal for machining stainless steel and super alloys
- Excellent chip control
- Best chip control with high cutting feed
- Large cutting depth $a_p > 1\text{mm}$

CC 80°
Page 19



DC 55°
Page 41

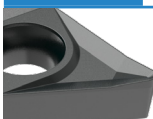


VC 35°
Page 73



P	■ ■ ■ □ □	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ □	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	□ □ □ □ □	Hard materials

PA7 



- Ideal for machining aluminum, stainless steel & super alloys
- Good chip flow control
- Avoids built-up edges
- Large cutting depth (a_p) possible
- Excellent solution in case of vibration problems

CC 80°
Page 20



DC 55°
Page 44



VC 35°
Page 75



P	■ □ □ □ □	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	□ □ □ □ □	Hard materials

A3 



- Ideal for machining super alloys and stainless steel
- Good chip flow control
- Large cutting depth (a_p) possible
- Highly positive insert for fine cutting & low cutting force
- Less chip deformation, therefore low-vibration machining conditions

DC 55°
Page 46



VC 35°
Page 77



P	■ □ □ □ □	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	■ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	■ □ □ □ □	Hard materials

G-class Carbide Inserts

Alternative solutions for chip control

multidec[®]
ISO

Ideal Cutting Materials

■ Preferred Application

□ Possible Application

- Application Not Recommended



PF

14°

- Chip breaker option for machining steel and heat resistant stainless steel
- Good all-round solution for steel and stainless steel
- Very effective with high feed rate by a large range of cutting speed

DC 55°
Page 42



PF05

17°

- Ideal for machining stainless steel and super alloys
- Very good chip control with minimal cutting depth (a_p)
- Very effective in stainless steel with high feed rate
- Very good tool life in titanium

DC 55°
Page 43



VC 35°
Page 74



PA6

20°

- Ideal for machining aluminum, stainless steel & super alloys
- Excellent chip control, even with high cutting speed and high feed rate
- Large cutting depth (a_p) possible
- Fine cut provides good surface finish

CC 80°
Page 21



DC 55°
Page 45



VC 35°
Page 75



P	■ ■ ■ ■ ■	Steel
M	■ ■ ■ ■ □	Stainless steel
K	■ □ □ □ □	Cast iron
N	■ ■ ■ □ □	Non-ferrous metals
S	■ ■ ■ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

P	■ ■ ■ □ □	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ □	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	□ □ □ □ □	Hard materials

P	■ ■ □ □ □	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	□ □ □ □ □	Hard materials

M-class Carbide Inserts

For roughing, semi-finishing and finishing

multidec[®]
ISO

Ideal Cutting Materials

■ Preferred Application

□ Possible Application

- Application Not Recommended

PF43 



- Ideal for machining steel and heat-resistant stainless steel
- Highly versatile insert
- Large cutting depth (a_p) possible

CC 80°
Page 22



DC 55°
Page 47

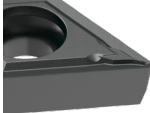


VC 35°
Page 78



P	■ ■ ■ ■ ■	Steel
M	■ ■ ■ □ □	Stainless steel
K	■ ■ □ □ □	Cast iron
N	□ □ □ □ □	Non-ferrous metals
S	■ ■ ■ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

S12 



- Ideal for machining stainless steel and super alloys
- Very good chip control with minimal cutting depth (a_p)

CC 80°
Page 23



DC 55°
Page 48



P	■ ■ ■ ■ □	Steel
M	■ ■ ■ ■ ■	Stainless steel
K	□ □ □ □ □	Cast iron
N	□ □ □ □ □	Non-ferrous metals
S	■ ■ ■ ■ ■	High-alloy materials
H	□ □ □ □ □	Hard materials

M18R 



- Ideal for machining aluminum, stainless steel & super alloys
- Reinforced cutting edge makes high cutting speeds and feeds possible
- Very good chip control, even with minimal cutting depth (a_p)

CC 80°
Page 24



DC 55°
Page 49



P	■ ■ ■ ■ ■	Steel
M	■ ■ ■ □ □	Stainless steel
K	□ □ □ □ □	Cast iron
N	□ □ □ □ □	Non-ferrous metals
S	■ ■ ■ ■ □	High-alloy materials
H	□ □ □ □ □	Hard materials

CERMET Inserts

For machining steel and heat-resistant stainless steel

multidec[®]
ISO

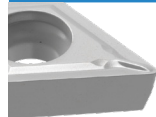
Ideal Cutting Materials

■ Preferred Application

□ Possible Application

- Application Not Recommended

S07



7°

- CERMET M-class insert for semi-finishing and finishing
- Operates within an extensive cutting speed range
- Very good chip control, even with minimal cutting depth (a_p)
- Good for dry machining

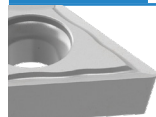
CC 80°
Page 25



DC 55°
Page 50



PF23



10°

- CERMET M-class indexable insert for finishing and super-finishing
- Operates within an extensive cutting speed range
- Large cutting depth (a_p) possible
- Excellent tool life with optimum cutting conditions

CC 80°
Page 26



DC 55°
Page 51



VC 35°
Page 79



P	■ ■ ■ ■ ■	Steel
M	■ ■ ■ ■ □	Stainless steel
K	■ ■ ■ □ □	Cast iron
N	□ □ □ □ □	Non-ferrous metals
S	□ □ □ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

P	■ ■ ■ ■ ■	Steel
M	■ ■ ■ ■ □	Stainless steel
K	■ □ □ □ □	Cast iron
N	□ □ □ □ □	Non-ferrous metals
S	□ □ □ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

Diamond Indexable Inserts

For the machining of aluminum and non-ferrous materials

multidec[®]
ISO

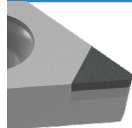
Ideal Cutting Materials

■ Preferred Application

□ Possible Application

- Application Not Recommended

W Flat Cut



- Best solution for super-finishing
- Suitable for stable machining conditions
- Large cutting depth (a_p) possible

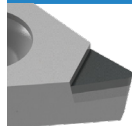
DC 55°
Page 52



VC 35°
Page 80



T-Positive Front Cut



- For finishing and super-finishing
- Very low cutting pressure
- Particularly suitable for thin-walled workpieces and unstable processes
- Large cutting depth (a_p) possible

CC 80°
Page 27



DC 55°
Page 53



VC 35°
Page 81



UWS



- For finishing and super-finishing
- Low cutting pressure
- Very good chip control, even with minimal cutting depth (a_p)

CC 80°
Page 28



DC 55°
Page 54



VC 35°
Page 82



UWN



- For semi-finishing and finishing
- Slightly higher cutting pressure due to small negative reinforcement of the cutting edge
- Excellent chip control at higher cutting speeds

CC 80°
Page 29



DC 55°
Page 55



VC 35°
Page 83



P	□ □ □ □ □	Steel
M	□ □ □ □ □	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	□ □ □ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

P	□ □ □ □ □	Steel
M	□ □ □ □ □	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	□ □ □ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

P	□ □ □ □ □	Steel
M	□ □ □ □ □	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	□ □ □ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

P	□ □ □ □ □	Steel
M	□ □ □ □ □	Stainless steel
K	□ □ □ □ □	Cast iron
N	■ ■ ■ ■ ■	Non-ferrous metals
S	□ □ □ □ □	High-alloy materials
H	□ □ □ □ □	Hard materials

Diamond Grades



PCD – Polycrystalline Diamond, hardness around 5000 HK

PCD is a synthetic, extremely hard cutting material consisting of selected diamond particles (approx. 90%) which are sintered together in a metal binding matrix at high pressure and high temperatures.

PCD is two to three times harder than carbide, but is more brittle and temperature sensitive (resistance temperature up to approx. 650 °C). For this reason, diamond tools cannot be used in steel alloys.

UPCD20	– Universal polycrystalline diamond, best performance for aluminum alloys with 13–20% silicon – Perfect balance between hardness and toughness for general machining of non-ferrous materials
UPCD15	– Universal polycrystalline diamond, best performance for aluminum with <13% silicon – Fine-grain structure for longer tool life and high finishing quality

CVD thick-film diamond, hardness around 9000 HK

This diamond is manufactured using the CVD process (Chemical Vapor Deposition) with a thickness of 0.8 mm. The ratio of 99.9% diamond and 0.1% binding material makes an ultra-hard cutting material with heat conductivity and a very fine structure for ultra-sharp cutting edges. The ultra-hard CVD cutting material is mainly used in the machining of aluminum and magnesium alloys and non-ferrous metals.

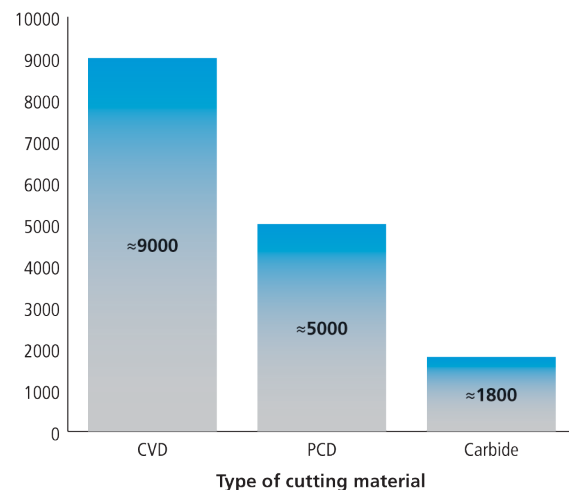
CVD diamond has higher heat resistance and oxidation resistance than PCD.

UCVD08	– Ultra-hard CVD thick-layer film with 99.9% diamond content, with possible tool life up to 10 times longer than PCD tools – Best performance in aluminum and magnesium alloys, fiberglass and reinforced plastics
---------------	---

Application matrix

Material	PCD		CVD
	UPCD20	UPCD15	UCVD08
Aluminum < 13% Si	◦	•	•
Aluminum > 13% Si	•	◦	•
Magnesium alloys	•	•	•
Brass, copper, bronze, zinc	◦	•	•
Platinum, silver, gold	◦	•	•
Fiberglass compound materials	•	–	•
Carbon fiber compound materials	•	–	•
Plastics, PEEK	◦	•	•
Pre-sintered ceramics and tungsten carbide	•	–	•

Hardness HK (Knoop)



APPLICATION OVERVIEW - CC 80°



Application OD Turning

Front Turning

SCAC... U (90°) Pg 31

A schematic diagram of a turning operation on a lathe. A blue workpiece is being machined by a yellow tool. The tool is positioned at a 10° angle relative to the workpiece's axis, as indicated by a dimension line and the label 10°.

Turning and Facing

SCLC... U (95°) Pg 32

A schematic diagram of a turning and facing operation. A blue workpiece is being machined by a yellow tool. The tool is positioned at a 5° angle relative to the workpiece's axis, as indicated by a dimension line and the label 5°. The workpiece is also shown with a 5° angle on its end face.

Application ID Turning

ID Turning

A... SCFC... (90°) Pg 34

A schematic diagram of an internal turning operation. A blue workpiece is being machined by a yellow tool. The tool is positioned at a 10° angle relative to the workpiece's axis, as indicated by a dimension line and the label 10°.

Turning and Facing

A... SCLC... (95°) Pg 35

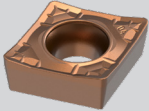
A schematic diagram of an internal turning and facing operation. A blue workpiece is being machined by a yellow tool. The tool is positioned at a 5° angle relative to the workpiece's axis, as indicated by a dimension line and the label 5°. The workpiece is also shown with a 5° angle on its end face.

OVERVIEW - TYPE CC 80°

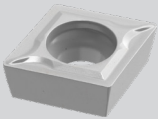
multidec[®]
ISO

Indexable Inserts

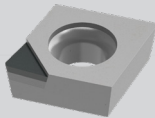
Carbide

	CCGT	PG 18-21
	CCGT	PG 22-24

CERMET

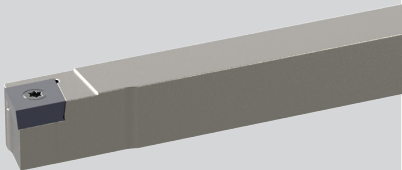
	CCMT	PG 25
	CCGT	PG 26

Diamond

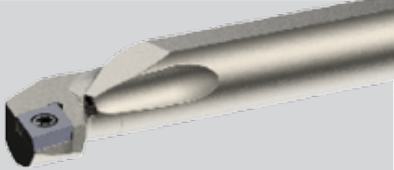
	CCGT	PG 27-29
--	------	----------

HOLDERS

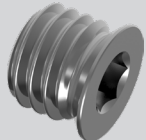
Square Holder

	SCAC	PG 25
	SCLC	PG 25

Round Shank Holders, Boring Bars

	A...SCFC	PG 34
	A...SCLC	PG 35

Replacement and spare parts

	
---	--

CCGT...-PF23

Carbide

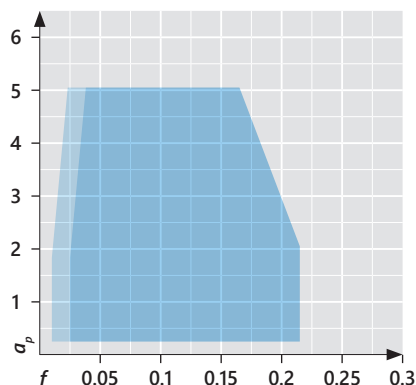
multidec[®]
ISO



				Coated				Uncoated		
Cutting Edge	Size	R	Utilis Designation	•	o	•	o	o	o	
				•	•	•	•	•	•	
				•	•	•	•	•	•	
				•	•	•	•	•	•	
				•	•	•	•	•	•	
				UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item#										
	CC 06	0.05	CCGT 0602005 FN -PF23 ...	7005-280163	7005-280164	7005-044785	7005-044786	7005-280120	7005-037996	SC...06...
		0.1	CCGT 060201 FN -PF23 ...	7005-280165	7005-280166	7005-044787	7005-044788	7005-280121	7005-037997	
		0.2	CCGT 060202 FN -PF23 ...	7005-280167	7005-280168	7005-044789	7005-044790	7005-280122	7005-037998	
		0.4	CCGT 060204 FN -PF23 ...	7005-280225	7005-280226	7005-280227	7005-280228	7005-280151	7005-280152	
	CC 09	0.05	CCGT 09T3005 FN -PF23 ...	7005-280169	7005-280170	7005-044791	7005-044792	7005-280123	7005-037999	SC...09...
		0.1	CCGT 09T301 FN -PF23 ...	7005-280171	7005-280172	7005-044793	7005-044794	7005-280124	7005-039035	
		0.2	CCGT 09T302 FN -PF23 ...	7005-280173	7005-280174	7005-044795	7005-044796	7005-280125	7005-039036	
		0.4	CCGT 09T304 FN -PF23 ...	7005-280229	7005-280230	7005-280231	7005-280232	7005-280153	7005-280154	
	CC 06	0.05	CCGT 0602005 EN -PF23 ...			7005-044797	7005-044798		7005-039037	SC...06...
		0.1	CCGT 060201 EN -PF23 ...			7005-044799	7005-044800		7005-039038	
		0.2	CCGT 060202 EN -PF23 ...			7005-044801	7005-044802		7005-039044	
		0.4	CCGT 060204 EN -PF23 ...			7005-554366	7005-554367		7005-554365	
	CC 09	0.05	CCGT 09T3005 EN -PF23 ...			7005-044803	7005-044804		7005-039087	SC...09...
		0.1	CCGT 09T301 EN -PF23 ...			7005-044805	7005-044806		7005-039088	
		0.2	CCGT 09T302 EN -PF23 ...			7005-044807	7005-044808		7005-039089	
		0.4	CCGT 09T304 EN -PF23 ...			7005-554370	7005-554371		7005-554369	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	70–150	60–140
N	150–300	140–280
S	40–90	30–80
H	20–50	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCGT...-PF33

Carbide

multidec[®]
ISO

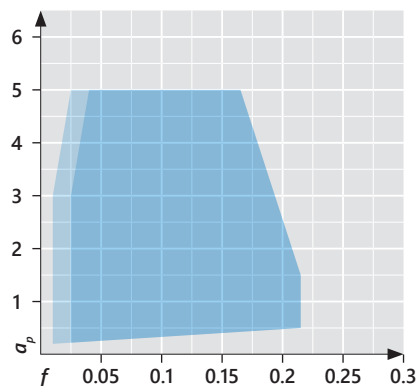


Coated				Uncoated	
o	o	o	o	o	o
•	•	•	•	•	•
—	—	—	—	—	—
•	•	•	•	•	•
—	—	—	—	—	—

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item#										
FN	CC 06 ~6	0.05	CCGT 0602005 FN -PF33 ...	7005-554373	7005-554374	7005-554377	7005-554378	7005-554372	7005-554375	SC...06... SC...09... SC...06... SC...09...
		0.1	CCGT 060201 FN -PF33 ...	7005-554380	7005-554381	7005-554383	7005-554384	7005-554379	7005-554382	
		0.2	CCGT 060202 FN -PF33 ...	7005-554386	7005-554387	7005-554389	7005-554390	7005-554385	7005-554388	
		0.4	CCGT 060204 FN -PF33 ...	7005-554392	7005-554393	7005-554395	7005-554396	7005-554391	7005-554394	
	CC 09 ~9	0.05	CCGT 09T3005 FN -PF33 ...	7005-554398	7005-554400	7005-554402	7005-554403	7005-554397	7005-554401	
		0.1	CCGT 09T301 FN -PF33 ...	7005-554405	7005-554406	7005-554408	7005-554409	7005-554404	7005-554407	
		0.2	CCGT 09T302 FN -PF33 ...	7005-554413	7005-554414	7005-554416	7005-554417	7005-554412	7005-554415	
		0.4	CCGT 09T304 FN -PF33 ...	7005-554419	7005-554420	7005-554423	7005-554425	7005-554418	7005-554421	
EN	CC 06 ~6	0.1	CCGT 060201 EN -PF33 ...			7005-554435	7005-554436		7005-554434	SC...06... SC...09... SC...06... SC...09...
		0.2	CCGT 060202 EN -PF33 ...			7005-554438	7005-554439		7005-554437	
		0.4	CCGT 060204 EN -PF33 ...			7005-554441	7005-554442		7005-554440	
	CC 09 ~9	0.1	CCGT 09T301 EN -PF33 ...			7005-554446	7005-554447		7005-554444	
		0.2	CCGT 09T302 EN -PF33 ...			7005-554450	7005-554452		7005-554449	
		0.4	CCGT 09T304 EN -PF33 ...			7005-554454	7005-554456		7005-554453	

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	—	—
N	150–300	140–280
S	40–90	30–80
H	—	—

Ideal Cutting Materials

- Preferred Application
- o Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

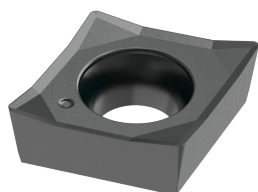
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

CCGT...-PA7

Carbide

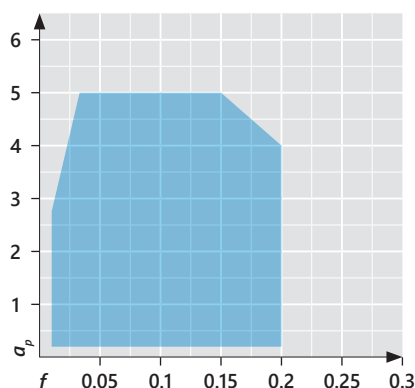
multidec[®]
ISO



Coated		Uncoated

Application range

a_p (mm)/ f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–85
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

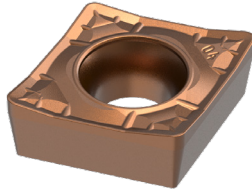
- Preferred Application
- Possible Application
- Application Not Recommended

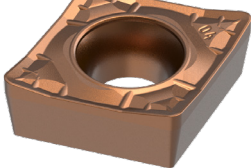
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCGT...-PA6

Carbide

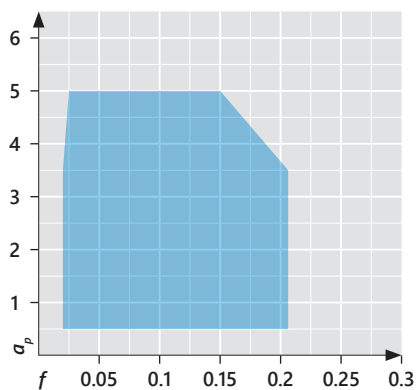
multidec[®]
ISO



				Coated		Uncoated
				◦	—	◦
				◦	•	◦
				—	•	—
				•	◦	•
				◦	•	—
				—	—	—
Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX +	UHM10
				GenSwiss Item#		
	CC 06 	0.2	CCGT 060202 FN -PA6 ...	7005-555387	7005-555388	7005-555386
		0.4	CCGT 060204 FN -PA6 ...	7005-555390	7005-555391	7005-555389
	CC 09 	0.2	CCGT 09T302 FN -PA6 ...	7005-555393	7005-555394	7005-555392
		0.4	CCGT 09T304 FN -PA6 ...	7005-555396	7005-555397	7005-555395
		0.8	CCGT 09T308 FN -PA6 ...	7005-555399	7005-555400	7005-555398

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–80
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCMT...-PF43

Carbide

multidec[®]
ISO

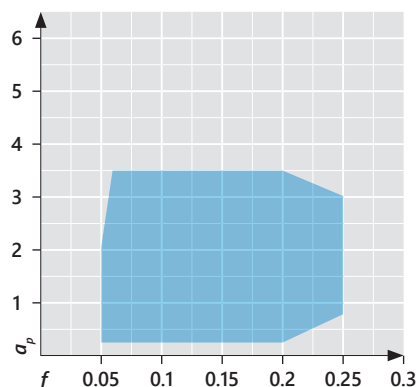


Coated		
PVD	CVD	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	

Cutting Edge	Size	R	Utilis Designation	UHM30HX	UHM20 MZ	
GenSwiss Item#						
	CC 06 	0.2	CCMT 060202 EN -PF43 ...	7005-127742	7005-216300	SC...06... 31...
		0.4	CCMT 060204 EN -PF43 ...	7005-127743	7005-216301	
	CC 09 	0.2	CCMT 09T302 EN -PF43 ...	7005-127744	7005-216302	
		0.4	CCGT 09T304 EN -PF43 ...	7005-126995	7005-216303	
		0.8	CCGT 09T308 EN -PF43 ...	7005-126996		

Application range

a_p (mm)/ f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	60-180	80-220
M	50-120	70-180
K	60-150	80-200
N	—	—
S	30-80	—
H	—	—

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCMT...-S12

Carbide

multidec[®]
ISO

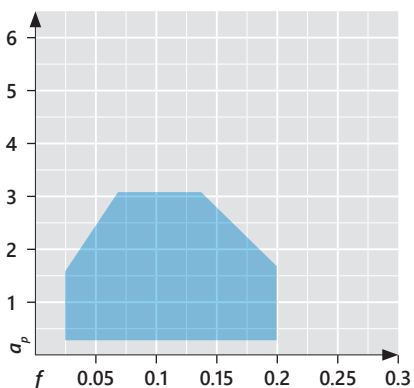


Coated		
PVD		CVD
◦	•	•
•	•	◦
◦	◦	•
—	—	—
•	•	—
—	—	—
HMP710	HMP720	HMC815

Cutting Edge	Size	R	Utilis Designation	HMP710	HMP720	HMC815	
GenSwiss Item#							
	CC 06 	0.2	CCMT 060202 EN -S12 ...	7005-216522	7005-216532	7005-555588	SC...06... 31...
		0.4	CCMT 060204 EN -S12 ...	7005-216523	7005-216533	7005-555589	
	CC 09 	0.2	CCMT 09T302 EN -S12 ...	7005-216524	7005-216534	7005-555590	
		0.4	CCMT 09T304 EN -S12 ...	7005-216525	7005-216535	7005-555591	
		0.8	CCMT 09T308 EN -S12 ...	7005-216526	7005-216538	7005-555592	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	60–180	100–250
M	50–120	80–220
K	60–150	100–240
N	—	—
S	30–80	—
H	—	—

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCMT...-M18R

Carbide

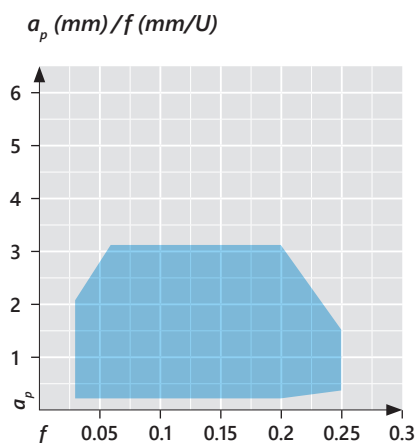
multidec[®]
ISO



Coated		
PVD		CVD
•	•	•
◦	◦	◦
•	•	•
-	-	-
•	•	-
-	-	-
HMP710	HMP720	HMC815

Cutting Edge	Size	R	Utilis Designation	GenSwiss Item#			
	CC 06 	0.2	CCMT 060202 EN -M18R ...	7005-216762	7005-216772	7005-555598	SC...06... 31...
		0.4	CCMT 060204 EN -M18R ...	7005-216763	7005-216773	7005-555599	
	CC 09 	0.2	CCMT 09T302 EN -M18R ...	7005-216764	7005-216774	7005-555600	SC...09... 31...
		0.4	CCMT 09T304 EN -M18R...	7005-216765	7005-216775	7005-555601	
		0.8	CCMT 09T308 EN -M18R ...	7005-216766	7005-216776	7005-555602	

Application range



v_c (m/min)

	Coated	Uncoated
P	60-180	100-250
M	50-120	80-220
K	60-150	100-240
N	-	-
S	30-80	-
H	-	-

Availability

12345 Standard items
12345 Standard items, new in this catalog
12345 Discontinued items

Ideal Cutting Materials

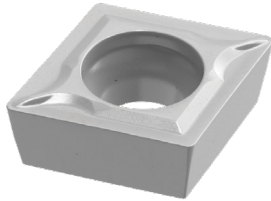
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCMT...-S07

Cermet

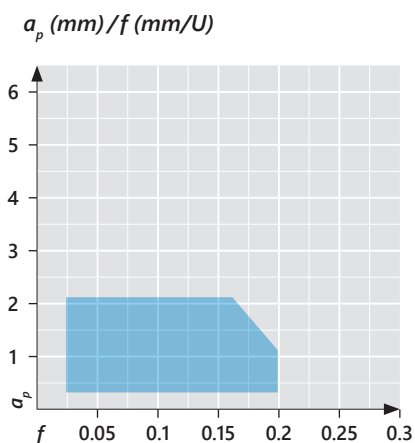
multidec[®]
ISO



Coated	Uncoated
•	•
◦	◦
-	-
-	-
-	-
-	-

Cutting Edge	Size	R	Utilis Designation	CMP120	CMB-15		
GenSwiss Item#							
	CC 06 	0.2	CCMT 060202 EN -S07 ...	7005-216512	7005-216500		SC...06... 31...
		0.4	CCMT 060202 EN -S07 ...	7005-216513	7005-216501		
	CC 09 	0.2	CCMT 09T302 EN -S07 ...	7005-216514	7005-216502		
		0.4	CCMT 09T304 EN -S07 ...	7005-216515	7005-216503		
		0.8	CCMT 09T308 EN -S07 ...	7005-216516	7005-216504		

Application range



v_c (m/min)

	Coated	Uncoated
P	70-250	80-230
M	70-230	80-210
K	-	-
N	-	-
S	-	-
H	-	-

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

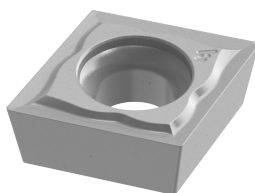
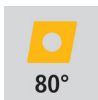
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCGT...-PF23

Cermet

multidec[®]
ISO

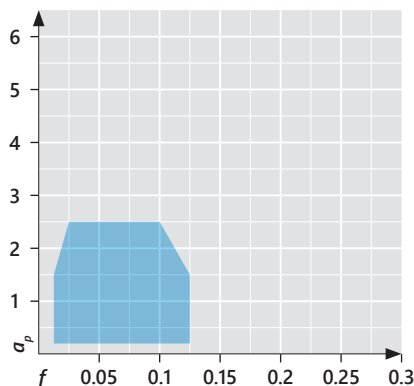


Coated	Uncoated
•	•
◦	◦
-	-
-	-
-	-
-	-
-	-

Cutting Edge	Size	R	Utilis Designation	UCM10HX	UCM10	
GenSwiss Item#						
		005	CCGT 0602005 FN -PF23 ...	7005-560442	7005-560441	SC...06... 31...
		0.1	CCGT 060201 FN -PF23 ...	7005-560444	7005-560443	
		0.2	CCGT 060202 FN -PF23 ...	7005-560446	7005-560445	
		0.05	CCGT 09T3005 FN -PF23 ...	7005-560448	7005-560447	SC...09... 31...
		0.1	CCMT 09T301 FN -PF23 ...	7005-560450	7005-216503	
		0.2	CCGT 09T302 FN -PF23 ...	7005-560452	7005-216504	
		0.4	CCGT 09T304 FN -PF23 ...	7005-560454	7005-560453	

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	70-250	70-230
M	70-230	60-210
K	-	-
N	-	-
S	-	-
H	-	-

Availability
12345 Standard items, new in this catalog
12345 Discontinued items

Ideal Cutting Materials

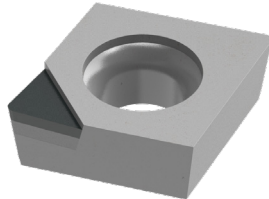
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

CCGT...FN

Diamond

multidec[®]
ISO



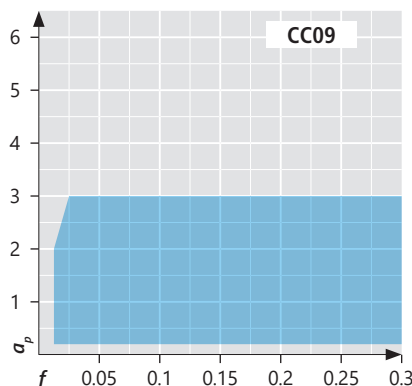
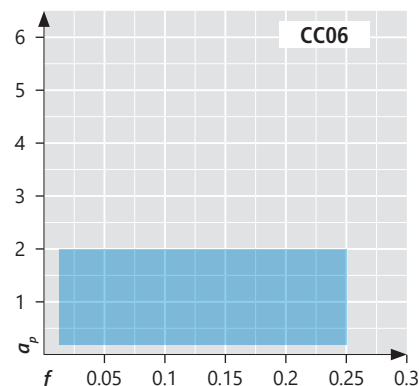
Coated		
PVD		CVD
-	-	-
-	-	-
-	-	-
•	•	•
-	-	-
-	-	-

Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
GenSwiss Item#							
	CC 06 ~6	0.1	CCGT 060201 FN ...		7005-129021	7005-116078	SC...06... 31...
		0.2	CCGT 060202 FN ...		7005-137707	7005-116081	
		0.4	CCGT 060204 FN ...		7005-137708		
	CC 09 ~9	0.2	CCGT 09T302 FN ...		7005-137710	7005-116091	SC...09... 31...
		0.4	CCGT 09T304 FN ...		7005-137711		

More inserts available by request

Application range

a_p (mm) / f (mm/U)



P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

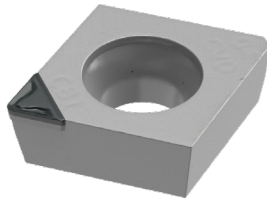
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

CCGT...-UWS

Diamond

multidec[®]
ISO

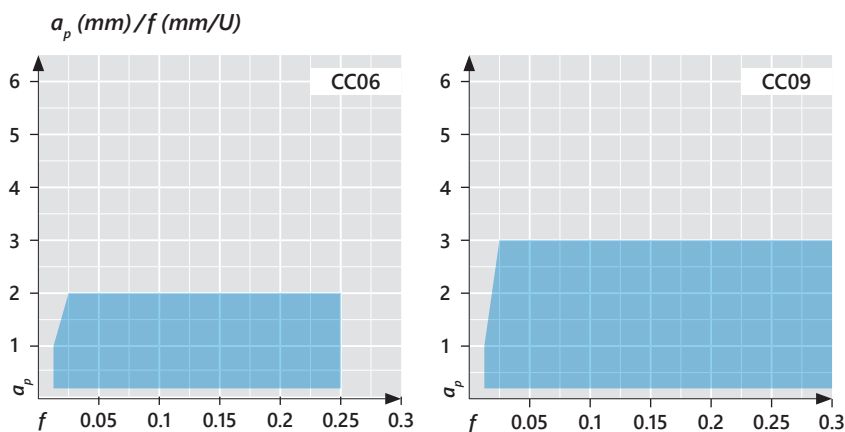


PCD		
-	-	-
-	-	-
-	-	-
•	•	•
-	-	-
-	-	-

Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD15		
GenSwiss Item#							
	CC 06 ~6	0.2	CCGT 060202 FN -UWS ...	7005-116449	7005-116253		SC...06... 31...
		0.4	CCGT 060204 FN -UWS ...	7005-116459	7005-116263		
	CC 09 ~9						
		0.2	CCGT 09T302 FN -UWS ...		7005-116282		
		0.4	CCMT 09T304 FN -UWS ...	7005-116489	7005-116291		

More inserts available by request

Application range



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Ideal Cutting Materials

• Preferred Application

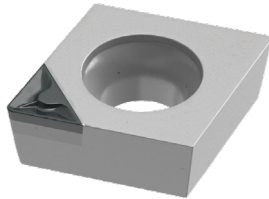
○ Possible Application

- Application Not Recommended

CCGT...UWN

Diamond

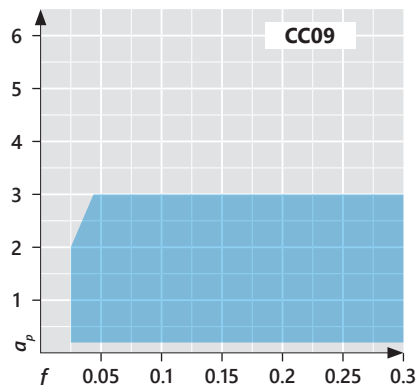
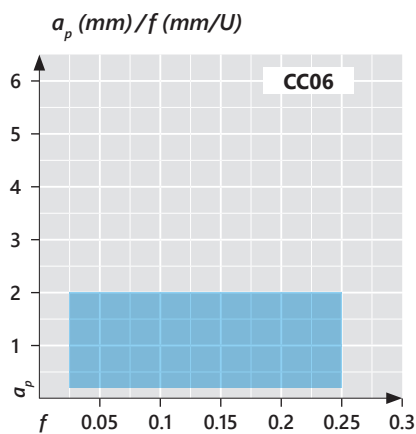
multidec[®]
ISO



				PCD			
				UCVD08	UPCD15	UPCD20	
Cutting Edge	Size	R	Utilis Designation	GenSwiss Item#			
	CC 06 ~6	0.2	CCGT 060202 FN -UWN ...	7005-116448		7005-116252	SC...06... 31...
		0.4	CCGT 060204 FN -UWN ...	7005-116458	7005-147288	7005-116262	
	CC 09 ~9						
		0.2	CCGT 09T302 FN ...	7005-116478		7005-116281	
		0.4	CCGT 09T304 FN ...	7005-116488		7005-116290	

More inserts available by request

Application range



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Availability

12345 Standard items
12345 Standard items, new in this catalog
12345 Discontinued items

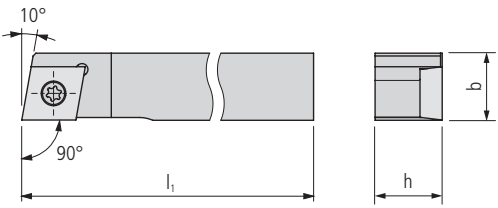
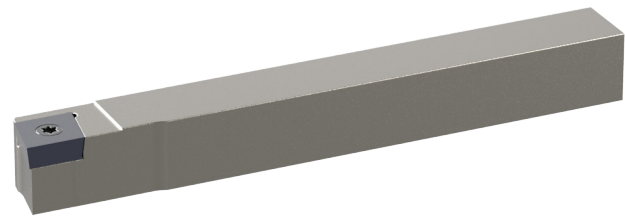
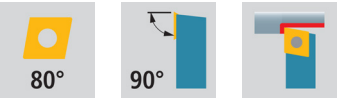
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

[illegible]

SCAC...U

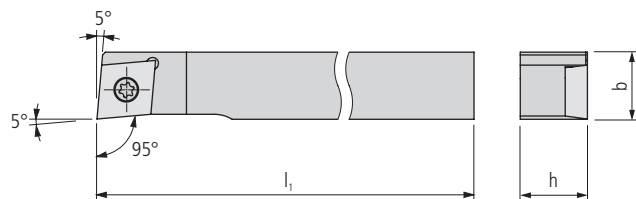
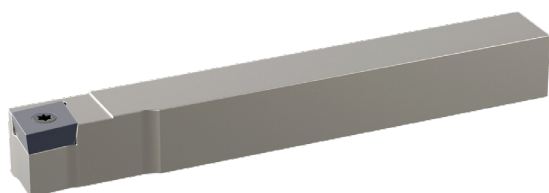


SCAC... U

	Compatible Cutting Edges	Utilis Desgination	GenSwiss Item Number	Dimensions (mm)							
				b	h	l ₁					
L	CC 06	SCACL 0808 H06 U	7005-045072	8	8	100					
	CC 09	SCACL 1212 H09 U	7005-045074	12	12	100					
		SCACL 1616 K09 U	7005-045076	16	16	125					
R	CC 06	SCACR 0808 H06 U	7005-045078	8	8	100					
	CC 09	SCACR 1212 H09 U	7005-045080	12	12	100					
		SCACR 1616 K09 U	7005-045082	16	16	125					

SCLC...U

multidec[®]
ISO



SCLC... U

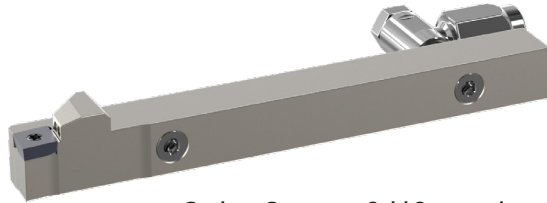
	Compatible Cutting Edges Pg. 18	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁					
L	CC 06	SCLCL 0808 H06 U	7005-045176	8	8	100					
		SCLCL 1010 H06 U	7005-045177	10	10	100					
	CC 09	SCLCL 1212 H09 U	7005-045178	12	12	100					
		SCLCL 1616 K09 U	7005-144706	16	16	125					
R	CC 06	SCLCR 0808 H06 U	7005-045179	8	8	100					
		SCLCR 1010 H06 U	7005-045182	10	10	100					
	CC 09	SCLCR 1212 H09 U	7005-045180	12	12	100					
		SCLCR 1616 K09 U	7005-045201	16	16	125					

SCLC... U INCH

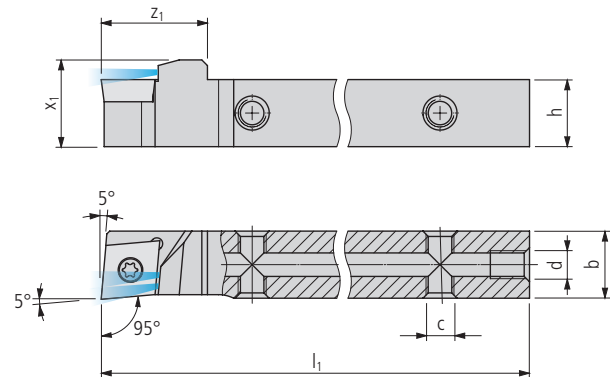
	Compatible Cutting Edges Pg 18	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l ₁					
L	CC 06	SCLCL 3/8" H06 U	7005-144707	0.375	0.375	100					
	CC 09	SCLCL 1/2" H09 U	7005-144704	0.5	0.5	100					
		SCLCL 5/8" K09 U	7005-144709	0.625	0.625	125					
R	CC 06	SCLCR 3/8" H06 U	7005-144713	0.375	0.375	100					
	CC 09	SCLCR 1/2" H09 U	7005-144711	12.7	12.7	100					
		SCLCR 5/8" K09 U	7005-144715	0.625	0.625	125					

SCLC...U IC

multidec[®]
ISO



Coolant Connector Sold Separately



SCLC... U IC

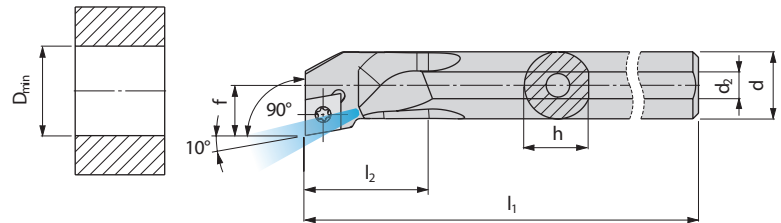
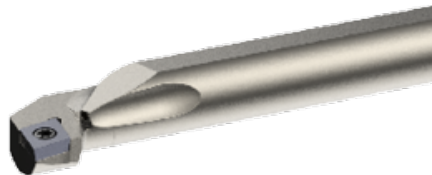
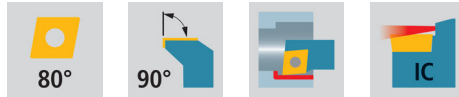
	Compatible Cutting Edges Pg. 18	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	c	d	
L	CC 06	SCLCL 0808 H06 U IC	7005-146351	8	8	100	16	11.5	M5	M5	
		SCLCL 1010 H06 U IC	7005-146352	10	10	100	16	13.5	M5	M5	
	CC 09	SCLCL 1212 H09 U IC	7005-146353	12	12	100	19	15.5	M5	M5	
		SCLCL 1616 K09 U IC	7005-169189	16	16	125	19	19.5	M5	G½"	
R	CC 06	SCLCR 0808 H06 U IC	7005-146348	8	8	100	16	11.5	M5	M5	
		SCLCR 1010 H06 U IC	7005-146349	10	10	100	16	13.5	M5	M5	
	CC 09	SCLCR 1212 H09 U IC	7005-146350	12	12	100	19	15.5	M5	M5	
		SCLCR 1616 K09 U IC	7005-169188	16	16	125	19	19.5	M5	G½"	

SCLC... U IC INCH

	Compatible Cutting Edges Pg 18	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	c	d	
L	CC 06	SCLCL 3/8" H06 U IC	7005-144708	0.375	0.375	100	16	11.5	M5	M5	
	CC 09	SCLCL 1/2" H09 U IC	7005-144705	0.5	0.5	100	16	13.5	M5	M5	
		SCLCL 5/8" K09 U IC	7005-144710	0.625	0.625	100	19	15.5	M5	M5	
R	CC 06	SCLCR 3/8" H06 U IC	7005-144714	0.375	0.375	100	16	13	M5	M5	
	CC 09	SCLCR 1/2" H09 U IC	7005-144712	0.5	0.5	100	19	16.2	M5	M5	
		SCLCR 5/8" K09 U IC	7005-144716	0.625	0.625	125	19	19.4	M5	G½"	

A...SCFC...

multidec[®]
ISO

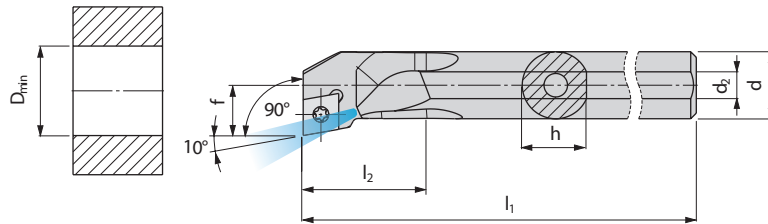
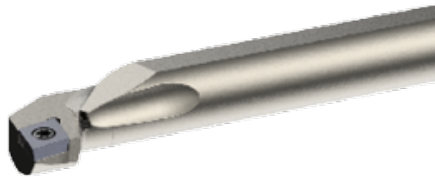
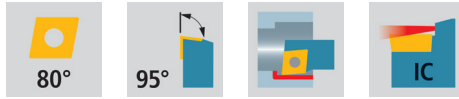


A... SCFC...

	Compatible Cutting Edges Pg 18	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				d	h	l ₁	l ₂	f	D _{min}	d ₂	
	CC 06 	A08F SCFCL 06	7005-045209	8	7.6	80	17	5	11	M5	
	CC 06 	A08F SCFCR 06	7005-045213	8	7.6	80	17	5	11	M5	

A...SCLC...

multidec[®]
ISO



A... SCFC...

	Compatible Cutting Edges Pg 18	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				d	h	l ₁	l ₂	f	D _{min}	d ₂	
L	CC 06	A08F SCLCL 06	7005-045216	8	7.5	80	17	5	11	M5	
		A10H SCLCL 06	7005-045218	10	9.5	100	19	7	13	M5	
		A12K SCLCL 06	7005-045220	12	11.5	125	22	9	16	M5	
	CC 09	A16M SCLCL 09	7005-045222	16	15.5	150	29	11	20	G $\frac{1}{8}$ "	
R	CC 06	A08F SCLCR 06	7005-045217	8	7.5	80	17	5	11	M5	
		A10H SCLCR 06	7005-045219	10	9.5	100	19	7	13	M5	
		A12K SCLCR 06	7005-045221	12	11.5	125	22	9	16	M5	
	CC 09	A16M SCLCR 09	7005-045223	16	15.5	150	29	11	20	G $\frac{1}{8}$ "	

Replacement and spare parts



For holders (SC...) OD turning

		Dimensions	Utilis Description	GenSwiss Item Number	Holders
	TORX Screw	M2.5 × 6 T08	MSP 25060 T08	7005-127518	SC... 06
		M3.5 × 11 T15	MSP 35110 T15	7005-127527	SC... 09
		M4.5 × 12 T15	MSP 45120 T15	7005-127528	SC... 12
	Screw Plug	M5	MSP VSR M5 IB2.5	7005-150262	SC... IC
		G1/8"	MSP VSR G1/8 IB5	7005-153989	

For holders (...SC...) ID turning

		Dimensions	Utilis Description	GenSwiss Item Number	Holders
	TORX Screw	M2.5 × 5 T08	MSP 25050 T08	7005-127529	A... SC... 06
		M3.5 × 7.2 T15	MSP 35072 T15	7005-127967	A16M SC... 09
		M3.5 × 8.6 T15	MSP 35086 T15	7005-127519	A20Q SC... 09

TORX screwdriver

		Dimensions	Utilis Description	GenSwiss Item Number	Holders
	TORX Screwdriver	T08	MSP TX08	7005-127520	M... T08
		T15	MSP TX15	7005-127482	M... T15

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal blue or grey lines across the entire width of the page. The lines are uniform in thickness and spacing, providing a guide for handwriting. There are no margins, text, or other markings present on the page.

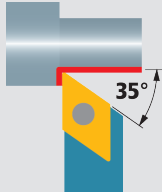
APPLICATION OVERVIEW - DC 55°



Application OD turning

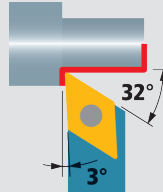
Front Turning

SDAC... U (90°) Pg 57



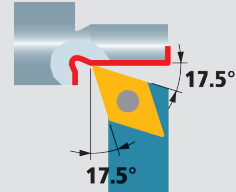
Turning and facing

SDJC... U (93°) Pg 58



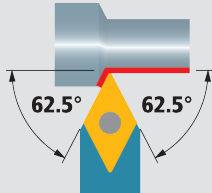
Turning and undercutting

SDHC... U (107.5°) Pg 60



Turning

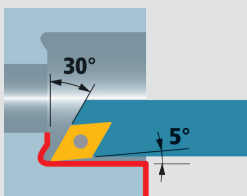
SDNC... U (62.5°) Pg 62



Application ID turning

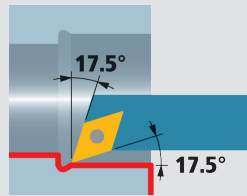
Turning and facing

A...SDOC... (95°) Pg 66



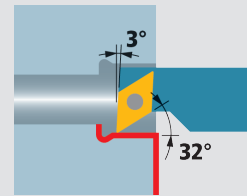
Turning and facing

A... SDQC...(107.5°) Pg 67



Turning and facing

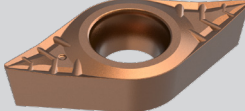
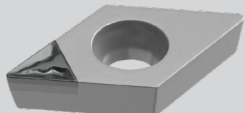
A...SDUC... (93°)..... Pg 68



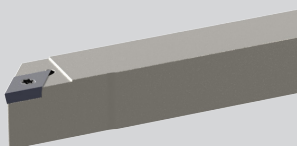
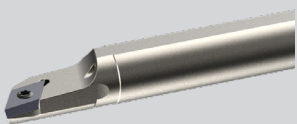
OVERVIEW - TYPE DC 55°



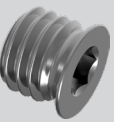
Indexable Inserts

Carbide		
	DCGT	PG 40–46
	DCMT	PG 47–49
Cermet		
	DCMT	PG 50
	DCGT	PG 51
Diamond		
	DCGW	PG 52
	DCGT	PG 53–55

HOLDERS

Square Holder		
	SDAC	PG 57
	SDJC	PG 58
	SDHC	PG 60
	SDNC	PG 62
	SDNCN	PG 64
Round Shank Holders, Boring Bars		
	A... SDOC	PG 66
	A... SDQC	PG 67
	A... SDUC	PG 68

Replacement and Spare Parts

	PG 69
---	-------

DCGT...-PF23

Carbide

multidec[®]
ISO

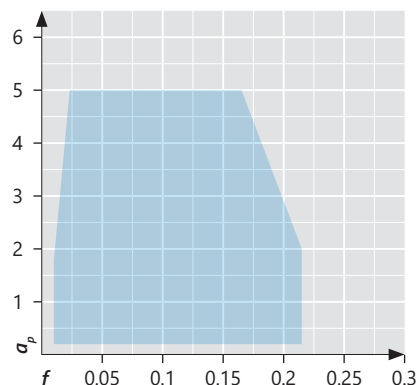


Coated				Uncoated	
•	◦	•	◦	◦	—
•	•	•	•	◦	—
•	•	•	•	◦	—
•	•	•	•	•	◦
•	•	•	•	•	—
—	•	—	•	—	—
UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item#										
FN	DC 07 	0.05	DCGT 0702005 FN -PF23 ...	7005-280175	7005-280176	7005-044838	7005-044839	7005-280126	7005-039095	SD..07...
		0.08	DCGT 0702008 FN -PF23 ...	7005-554469	7005-554470	7005-554472	7005-554473	7005-554468	7005-554471	
		0.1	DCGT 070201 FN -PF23 ...	7005-280177	7005-280178	7005-044840	7005-044841	7005-280127	7005-154150	
		0.15	DCGT 0702015 FN -PF23 ...	7005-554475	7005-554476	7005-554478	7005-554479	7005-554474	7005-554477	
		0.2	DCGT 070202 FN -PF23 ...	7005-280179	7005-280180	7005-044842	7005-044843	7005-280128	7005-039097	
	DC 11 	0.4	DCGT 070204 FN -PF23 ...	7005-280233	7005-280234	7005-280235	7005-280236	7005-280155	7005-280156	SD..11...
		0.05	DCGT 11T3005 FN -PF23 ...	7005-280181	7005-280182	7005-044844	7005-044845	7005-280129	7005-039098	
		0.08	DCGT 11T3008 FN -PF23 ...	7005-554481	7005-554482	7005-554484	7005-554485	7005-554480	7005-554483	
		0.1	DCGT 11T301 FN -PF23 ...	7005-280183	7005-280184	7005-044846	7005-044847	7005-280130	7005-039099	
		0.15	DCGT 11T3015 FN -PF23 ...	7005-554488	7005-554489	7005-554491	7005-554492	7005-554486	7005-554490	
EN	DC 07 	0.2	DCGT 11T302 FN -PF23 ...	7005-280185	7005-280186	7005-044848	7005-044849	7005-280131	7005-039350	SD..07...
		0.4	DCGT 11T304 FN -PF23 ...	7005-280237	7005-280238	7005-280239	7005-280240	7005-280157	7005-280158	
		0.05	DCGT 0702005 EN -PF23 ...			7005-044850	7005-044851		7005-039351	
		0.08	DCGT 0702008 EN -PF23 ...			7005-554494	7005-554495		7005-554493	
		0.1	DCGT 070201 EN -PF23 ...			7005-044852	7005-044853		7005-039352	
	DC 11 	0.15	DCGT 0702015 EN -PF23 ...			7005-554507	7005-554508		7005-554506	SD..11...
		0.2	DCGT 070202 EN -PF23 ...			7005-044854	7005-044855		7005-039353	
		0.4	DCGT 070204 EN -PF23 ...			7005-554510	7005-554511		7005-554509	
		0.05	DCGT 11T3005 EN -PF23 ...			7005-044856	7005-044857		7005-039354	
		0.08	DCGT 11T3008 EN -PF23 ...			7005-554514	7005-554516		7005-554512	
	0.1	DCGT 11T301 EN -PF23 ...			7005-044858	7005-044859		7005-039355	SD..11...	
	0.15	DCGT 11T3015 EN -PF23 ...			7005-554520	7005-554521		7005-554519		
	0.2	DCGT 11T302 EN -PF23 ...			7005-044860	7005-044861		7005-039356		
	0.4	DCGT 11T304 EN -PF23 ...			7005-554099	7005-145645		7005-145644		

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	70–150	60–140
N	150–300	140–280
S	40–90	30–80
H	20–50	—

Availability

12345 Standard items
12345 Standard items, new in this catalog
12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

DCGT...-PF33

Carbide

multidec[®]
ISO

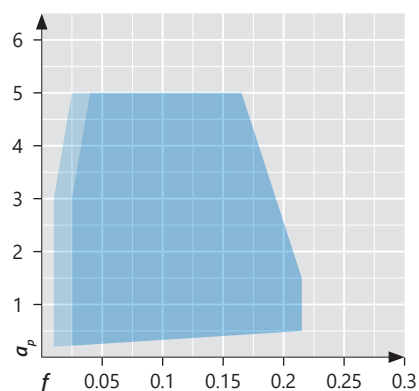


Coated				Uncoated	
o	o	o	o	o	o
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item#										
FN	DC 07	0.05	DCGT 0702005 FN -PF33 ...	7005-280187	7005-280188	7005-044862	7005-044863	7005-280132	7005-039357	SD...07...
		0.08	DCGT 0702008 FN -PF33 ...	7005-554528	7005-554529	7005-554531	7005-554532	7005-554527	7005-554530	
		0.1	DCGT 070201 FN -PF33 ...	7005-280189	7005-280190	7005-044864	7005-044865	7005-280133	7005-039358	
		0.15	DCGT 0702015 FN -PF33 ...	7005-554534	7005-554535	7005-554538	7005-554539	7005-554533	7005-554536	
		0.2	DCGT 070202 FN -PF33 ...	7005-280191	7005-280192	7005-044866	7005-044867	7005-280134	7005-039359	
		0.4	DCGT 070204 FN -PF33 ...	7005-280193	7005-280194	7005-044868	7005-044869	7005-280135	7005-039360	
	DC 11	0.05	DCGT 11T3005 FN -PF33 ...	7005-280195	7005-280196	7005-044870	7005-044871	7005-280136	7005-039374	SD...11...
		0.08	DCGT 11T3008 FN -PF33 ...	7005-554542	7005-554543	7005-554546	7005-554547	7005-554540	7005-554544	
		0.1	DCGT 11T301 FN -PF33 ...	7005-215045	7005-215046	7005-044872	7005-044873	7005-215044	7005-039375	
		0.15	DCGT 11T3015 FN -PF33 ...	7005-554550	7005-554551	7005-554553	7005-554554	7005-554549	7005-554552	
		0.2	DCGT 11T302 FN -PF33 ...	7005-280197	7005-280198	7005-044874	7005-044875	7005-280137	7005-039382	
		0.4	DCGT 11T304 FN -PF33 ...	7005-280199	7005-280200	7005-044876	7005-044877	7005-280138	7005-039383	
EN	DC 07	0.05	DCGT 0702005 EN -PF33 ...			7005-044878	7005-044879		7005-039384	SD...07...
		0.08	DCGT 0702008 EN -PF33 ...			7005-554559	7005-554560		7005-554558	
		0.1	DCGT 070201 EN -PF33 ...			7005-044880	7005-044881		7005-039385	
		0.15	DCGT 0702015 EN -PF33 ...			7005-554562	7005-554563		7005-554561	
		0.2	DCGT 070202 EN -PF33 ...			7005-044882	7005-044883		7005-039386	
		0.4	DCGT 070204 EN -PF33 ...			7005-044884	7005-044885		7005-039387	
	DC 11	0.05	DCGT 11T3005 EN -PF33 ...			7005-044886	7005-044887		7005-039388	SD...11...
		0.08	DCGT 11T3008 EN -PF33 ...			7005-554566	7005-554567		7005-554564	
		0.1	DCGT 11T301 EN -PF33 ...			7005-044888	7005-044889		7005-039389	
		0.15	DCGT 11T3015 EN -PF33 ...			7005-554571	7005-554573		7005-554569	
		0.2	DCGT 11T302 EN -PF33 ...			7005-044890	7005-044891		7005-039390	
		0.4	DCGT 11T304 EN -PF33 ...			7005-044892	7005-044893		7005-039391	

Application range

a_p (mm)/ f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–80
H	–	–

Ideal Cutting Materials

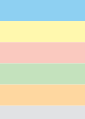
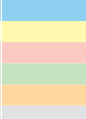
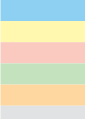
- Preferred Application
- Possible Application
- Application Not Recommended

Availability

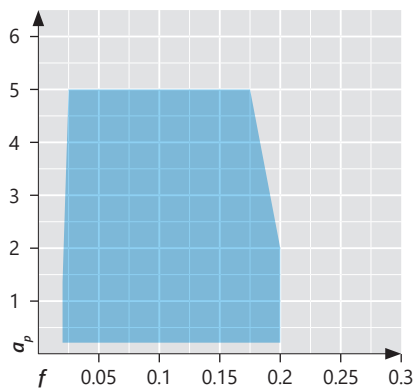
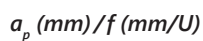
- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

Carbide



				Coated		Uncoated	
							
Cuting Edge	Size	R	Utilis Designation	UHM20 HPX	UHM20 TX+	UHM20	
GenSwiss Item#							
	 DC 07	0.1	DCGT 070201 FN -PF ...	7005-211005	7005-211006	7005-211004	SD...07 ...  57...
		0.2	DCGT 070202 FN -PF ...	7005-116969	7005-211007	7005-116967	
	 DC 11	0.2	DCGT 11T302 FN -PF ...	7005-211009	7005-211010	7005-211008	SD...11 ...
		0.4	DCGT 11T304 FN -PF ...	7005-211012	7005-211013	7005-211011	

Application range

 v_c (m/min)

	Coated	Uncoated
P	80–160	–
M	70–140	–
K	90–150	–
N	150–300	120–230
S	50–90	–
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

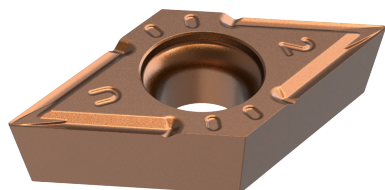
Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

DCGT...-PF05

Carbide

multidec[®]
ISO

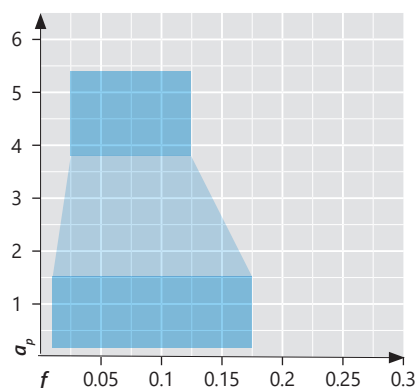


Coated	Uncoated
•	o
•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM10	
GenSwiss Item#							
FN	DC 07	0.05	DCGT 0702005 FN -PF05 ...	7005-215014	7005-211332	7005-211331	SD...07...
		0.1	DCGT 070201 FN -PF05 ...	7005-215015	7005-211334	7005-211333	
		0.15	DCGT 0702015 FN -PF05 ...	7005-215016	7005-211336	7005-211335	
		0.2	DCGT 070202 FN -PF05 ...	7005-215017	7005-211338	7005-211337	
	DC 11	0.05	DCGT 11T3005 FN -PF05 ...	7005-215018	7005-211340	7005-211339	SD...11...
		0.1	DCGT 11T301 FN -PF05 ...	7005-215019	7005-211307	7005-211306	
		0.15	DCGT 11T3015 FN -PF05 ...	7005-215021	7005-211342	7005-211341	
		0.2	DCGT 11T302 FN -PF05 ...	7005-215022	7005-152818	7005-152817	
		0.4	DCGT 11T304 FN -PF05 ...	7005-215023	7005-211344	7005-211343	

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	60–120
M	70–140	–
K	–	–
N	150–300	120–230
S	50–90	–
H	–	–

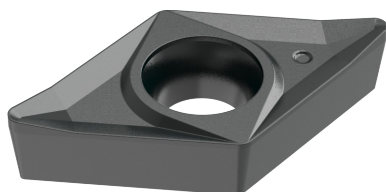
Availability

12345 Standard items
12345 Standard items, new in this catalog
12345 Discontinued items

Ideal Cutting Materials

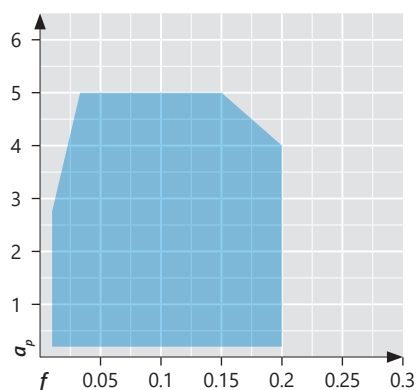
- Preferred Application
- o Possible Application
- Application Not Recommended

Carbide



Coated		Uncoated
o	—	—
o	•	o
—	—	—
•	o	•
o	•	—
—	—	—
UHM10 HX	UHM10 TX+	UHM10

				GenSwiss Item#			
		0.05	DCGT 0702005 FN -PA7 ...	7005-114381	7005-044834	7005-114380	SD...07...
		0.1	DCGT 070201 FN -PA7 ...	7005-113032	7005-147413	7005-113031	
		0.2	DCGT 070202 FN -PA7 ...	7005-123451	7005-192743	7005-123500	
		0.4	DCGT 070204 FN -PA7 ...	7005-012952	7005-154407	7005-123505	
		0.05	DCGT 11T3005 FN -PA7 ...	7005-114383	7005-154830	7005-114382	SD...11...
		0.1	DCGT 11T301 FN -PA7 ...	7005-114385	7005-154831	7005-114384	
		0.2	DCGT 11T302 FN -PA7 ...	7005-013265	7005-150752	7005-123514	
		0.4	DCGT 11T304 FN -PA7 ...	7005-123454	7005-154961	7005-123518	
		0.8	DCGT 11T308 FN -PA7 ...	7005-123455	7005-044835	7005-123521	

 $a_p \text{ (mm)}/f \text{ (mm/U)}$  v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–85
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

DCGT...-PA6

Carbide

multidec[®]
ISO



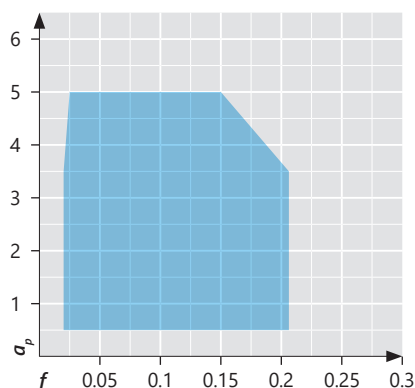
Coated	Uncoated
o	o
o	o
o	o
o	o
o	o
o	o

Cuting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM10	
GenSwiss Item#							
	DC 07 	0.2	DCGT 070202 FN -PA6 ...	7005-555402	7005-555403	7005-555401	SD...07...
		0.4	DCGT 070204 FN -PA6 ...	7005-555405	7005-555407	7005-555404	
	DC 11 	0.2	DCGT 11T302 FN -PA6 ...	7005-555411	7005-555412	7005-555409	SD...11...
		0.4	DCGT 11T304 FN -PA6 ...	7005-555414	7005-555415	7005-555413	
		0.8	DCGT 11T308 FN -PA6 ...	7005-555418	7005-555419	7005-555416	

Application range

a_p (mm)/f (mm/U)

v_c (m/min)



	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–80
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

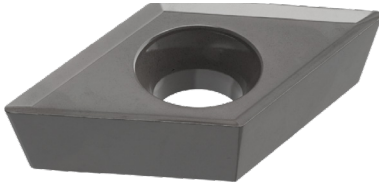
- Preferred Application
- o Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

DCGT...-A3

Carbide

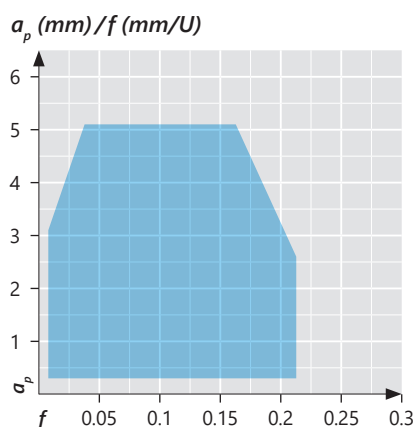
multidec[®]
ISO



Coated				Uncoated	
○	○	○	○	○	○
●	●	●	●	●	●
—	—	—	—	—	—
●	●	●	●	●	●
○	○	○	○	○	○
—	—	—	—	—	—

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item#										
FN	DC 07	0.06	DCGT 0702006 FN -A3 ...	7005-123090	7005-126105	7005-116981	7005-185273	7005-123056	7005-116980	SD...07...
		0.15	DCGT 0702015 FN -A3 ...	7005-123092	7005-126106	7005-116983	7005-154071	7005-123057	7005-116982	
		0.35	DCGT 0702035 FN -A3 ...			7005-116985	7005-192708		7005-116984	
	DC 11	0.08	DCGT 11T3008 FN -A3 ...	7005-123094	7005-126107	7005-116987	7005-044815	7005-123058	7005-116986	SD...11...
		0.15	DCGT 11T3015 FN -A3 ...	7005-123096	7005-125197	7005-116976	7005-169726	7005-123059	7005-116974	
		0.35	DCGT 11T3035 FN -A3 ...	7005-123947	7005-126108	7005-116989	7005-169674	7005-123945	7005-116988	
EN	DC 07	0.06	DCGT 0702006 EN -A3 ...			7005-044816	7005-044817		7005-211000	SD...07...
		0.15	DCGT 0702015 EN -A3 ...			7005-044818	7005-044819		7005-039090	
		0.35	DCGT 0702035 EN -A3 ...			7005-044820	7005-044821		7005-039091	
	DC 11	0.08	DCGT 11T3008 EN -A3 ...			7005-044822	7005-044823		7005-039092	SD...11...
		0.15	DCGT 11T3015 EN -A3 ...			7005-044824	7005-044825		7005-039093	
		0.35	DCGT 11T3035 EN -A3 ...			7005-044826	7005-044827		7005-039094	

Application range



v_c (m/min)

	Coated	Uncoated
P	80–160	60–120
M	70–140	—
K	—	—
N	150–300	140–280
S	40–80	—
H	20–50	—

Availability

12345 Standard items

12345 Standard items, new in this catalog

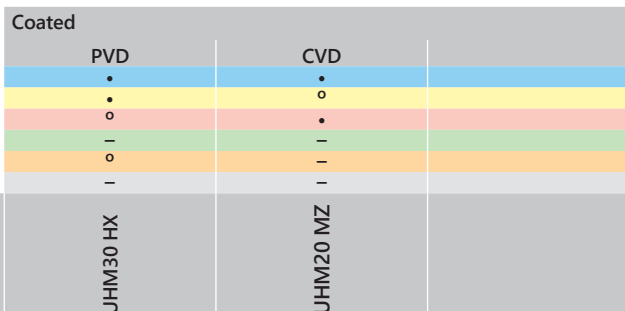
12345 Discontinued items

Ideal Cutting Materials

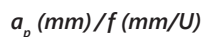
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Carbide



Application range

 v_c (m/min)

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Availability

12345 Standard items

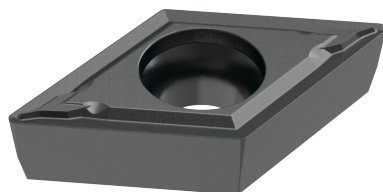
12345 Standard items, new in this catalog

12345 Discontinued items

DCMT...-S12

Carbide

multidec[®]
ISO

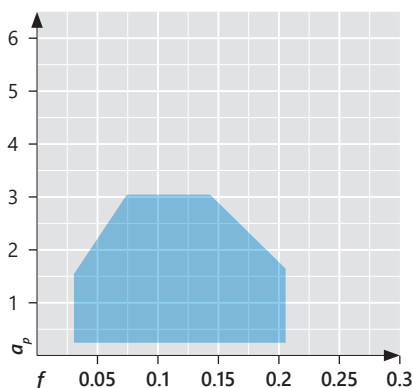


Coated		
PVD		CVD
○	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•

Cutting Edge	Size	R	Utilis Designation	HMP710	HMP720	HMC815	
GenSwiss Item#							
		0.2	DCMT 070202 EN -S12 ...	7005-216527	7005-216539	7005-555593	SD...07...
		0.4	DCMT 070204 EN -S12 ...	7005-216528	7005-216540	7005-555594	
		0.2	DCMT 11T302 EN -S12 ...	7005-216529	7005-216541	7005-555595	SD...11...
		0.4	DCMT 11T304 EN -S12 ...	7005-216530	7005-216542	7005-555596	
		0.8	DCMT 11T308 EN -S12 ...	7005-216531	7005-216556	7005-555597	

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

	PVD	CVD
P	60–180	100–250
M	50–120	80–220
K	60–150	100–240
N	–	–
S	30–80	–
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

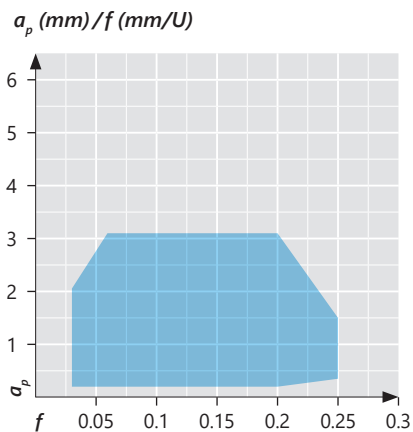
Carbide



Coated		
	PVD	CVD
HMP710	•	•
	•	•
	•	•
	•	•
	•	•
HMP720	•	•
	•	•
	•	•
	•	•
	•	•
HMC815	•	•
	•	•
	•	•
	•	•
	•	•

Cuting Edge	Size	R	Utilis Designation	HMP710	HMP720	HMC815	
GenSwiss Item#							
		0.2	DCMT 070202 EN -M18R ...	7005-216767	7005-216777	7005-555603	SD..07 ... 
		0.4	DCMT 070204 EN -M18R ...	7005-216768	7005-216778	7005-555604	
		0.2	DCMT 11T302 EN -M18R ...	7005-216769	7005-216779	7005-555605	SD..11... 
		0.4	DCMT 11T304 EN -M18R ...	7005-216770	7005-216780	7005-555606	
		0.8	DCMT 11T308 EN -M18R ...	7005-216771	7005-216781	7005-555607	

Application range



	PVD	CVD
P	60–180	100–250
M	50–120	80–220
K	60–150	100–240
N	–	–
S	30–80	–
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

DCMT...-S07

Cermet

multidec[®]
ISO

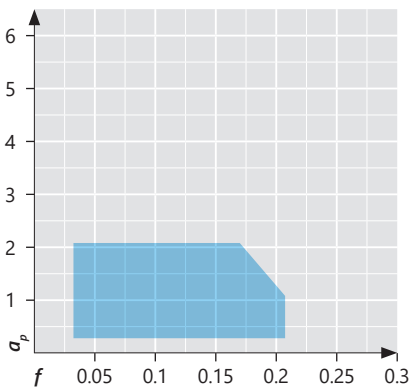


Coated	Uncoated
•	•
-	-
-	-
-	-
-	-

Cutting Edge	Size	R	Utilis Designation	CMP120	CMB-15	
GenSwiss Item#						
		0.2	DCMT 070202 EN -S07 ...	7005-216517	7005-216505	SD..07...
		0.4	DCMT 070204 EN -S07 ...	7005-216518	7005-216506	
		0.2	DCMT 11T302 EN -S07 ...	7005-216519	7005-216507	SD...11...
		0.4	DCMT 11T304 EN -S07 ...	7005-216520	7005-216508	
		0.8	DCMT 11T308 EN -S07 ...	7005-216521	7005-216511	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	70-250	80-230
M	70-230	80-210
K	-	-
N	-	-
S	-	-
H	-	-

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

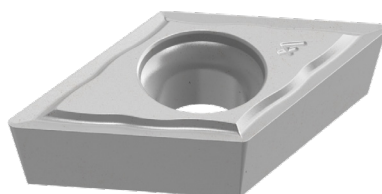
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

DCGT...-PF23

Cermet

multidec[®]
ISO

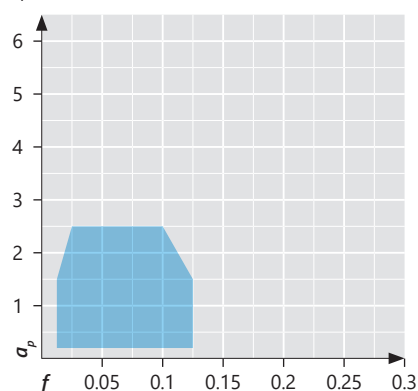


Coated	Uncoated
•	•
○	○
-	-
-	-
-	-
-	-

Cutting Edge	Size	R	Utilis Designation	UCM10 HX	UCM10	
GenSwiss Item#						
		0.05	DCGT 0702005 FN -PF23 ...	7005-560464	7005-560463	SD..07...
		0.1	DCGT 070201 FN -PF23 ...	7005-560466	7005-560465	
		0.2	DCGT 070202 FN -PF23 ...	7005-560502	7005-560467	
		0.05	DCGT 11T3005 FN -PF23 ...	7005-560504	7005-560503	SD..11...
		0.1	DCGT 11T301 FN -PF23 ...	7005-560507	7005-560505	
		0.2	DCGT 11T302 FN -PF23 ...	7005-560509	7005-560508	
		0.4	DCGT 11T304 FN -PF23 ...	7005-560511	7005-560510	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	70–250	70–230
M	70–230	60–210
K	–	–
N	–	–
S	–	–
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

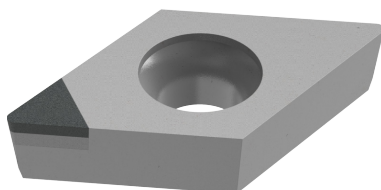
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

DCGW...-FN

Diamond

multidec[®]
ISO

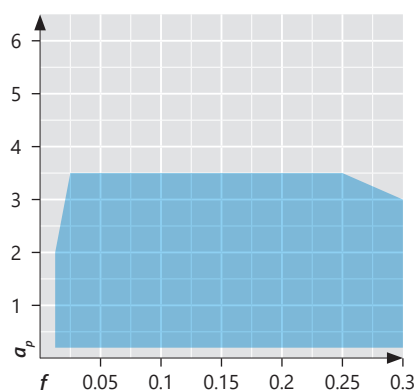


PCD		
-	-	-
-	-	-
•	•	•
-	-	-
-	-	-

Cuting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
GenSwiss Item#							
	DC 07 	0.05	DCGW 0702005 FN ...			7005-154840	SD...07...
		0.1	DCGW 070201 FN ...			7005-129023	
		0.2	DCGW 070202 FN ...	7005-138610	7005-129022	7005-116173	
		0.4	DCGW 070204 FN ...	7005-116888	7005-012747	7005-116176	
		0.8	DCGW 070208 FN ...	7005-116889	7005-137723	7005-116178	
	DC 11 	0.1	DCGW 11T301 FN ...			7005-116183	SD...11...
		0.2	DCGW 11T302 FN ...	7005-116891	7005-129057	7005-116186	
		0.4	DCGW 11T304 FN ...	7005-116892	7005-129054	7005-116188	
		0.8	DCGW 11T308 FN ...	7005-116893	7005-137724	7005-116190	

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Availability

12345 Standard items

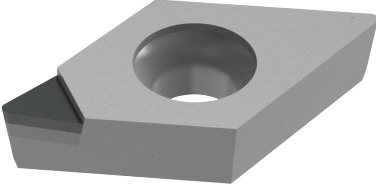
12345 Standard items, new in this catalog

12345 Discontinued items

DCGT...-FN

Diamond



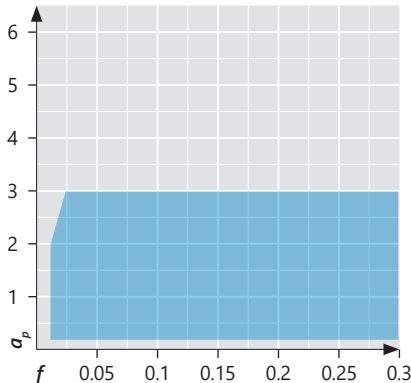


PCD		
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Cuting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
GenSwiss Item#							
	DC 07 	0.1	DCGT 070201 FN ...			7005-116136	SD...07...
		0.2	DCGT 070202 FN ...		7005-137717	7005-116139	
		0.4	DCGT 070204 FN ...		7005-137718		
	DC 11 	0.2	DCGT 11T302 FN ...		7005-129055	7005-116155	SD...11... 57...
		0.4	DCGT 11T304 FN ...		7005-137720		
		0.8	DCGT 11T308 FN ...		7005-137721		

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

- Ideal Cutting Materials**
- Preferred Application
 - Possible Application
 - Application Not Recommended

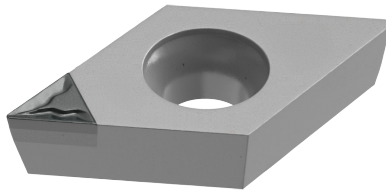
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

- Availability**
- 12345 Standard items
 - 12345 Standard items, new in this catalog
 - 12345 Discontinued items

DCGT...-UWS

Diamond

multidec[®]
ISO



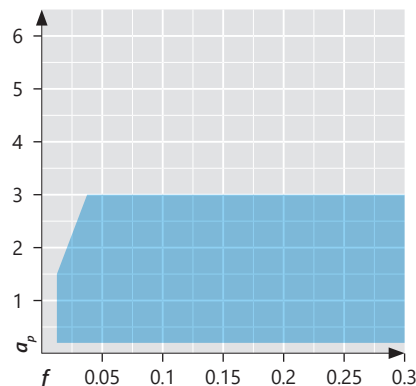
PCD		
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
GenSwiss Item#							
		0.1	DCGT 070201 FN -UWS ...		7005-116334	7005-147206	SD...07...
		0.2	DCGT 070202 FN -UWS ...	7005-116537	7005-116341	7005-169144	
		0.4	DCGT 070204 FN -UWS ...	7005-116549	7005-116352	7005-169145	
		0.2	DCGT 11T302 FN -UWS ...	7005-116568	7005-116367	7005-169148	SD...11...
		0.4	DCGT 11T304 FN -UWS ...	7005-116579	7005-116380	7005-169149	

More inserts available by request

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Availability

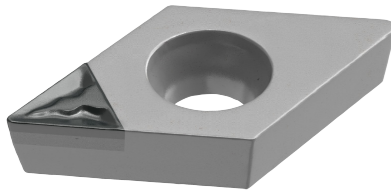
12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

DCGT...-UWN

Diamond



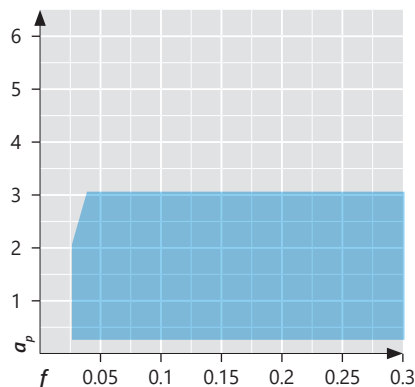
PCD		
-	-	-
-	-	-
-	-	-
•	•	•
-	-	-
-	-	-
UCVD08	UPCD15	UPCD20

Cutting Edge	Size	R	Utilis Designation	GenSwiss Item#		
FN	DC 07	0.2	DCGT 070202 FN -UWN ...	7005-116536		7005-116340
		0.4	DCGT 070204 FN -UWN ...	7005-116548		7005-116351
	DC 11	0.2	DCGT 11T302 FN -UWN ...	7005-116567		7005-116366
		0.4	DCGT 11T304 FN -UWN ...	7005-116578		7005-116379
		0.8	DCGT 11T308 FN -UWN ...	7005-116586		7005-116386

More inserts available by request.

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

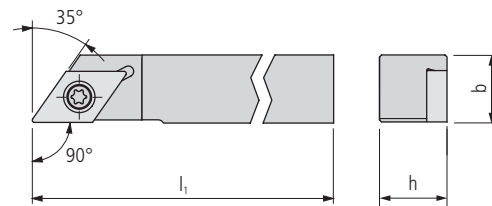
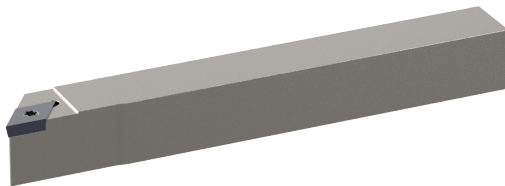
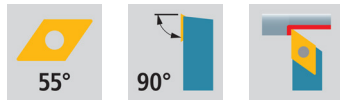
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

[illegible]

SDAC... U

multidec[®]
ISO

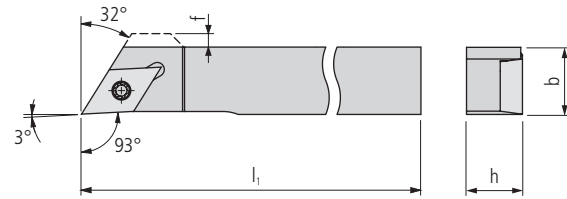
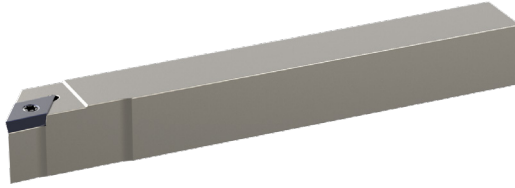
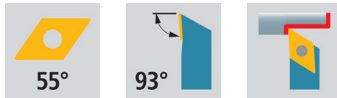


SDAC... U

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁					
L	DC 07 	SDACL 0808 H07 U	7005-045104	8	8	100					
		SDACL 1010 H07 U	7005-045105	10	10	100					
		SDACL 1212 H07 U	7005-045106	12	12	100					
	DC 11 	SDACL 1212 H11 U	7005-045107	12	12	100					
		SDACL 1616 K11 U	7005-045181	16	16	125					
R	DC 07 	SDACR 0808 H07 U	7005-045109	8	8	100					
		SDACR 1010 H07 U	7005-045110	10	10	100					
		SDACR 1212 H07 U	7005-045111	12	12	100					
	DC 11 	SDACR 1212 H11 U	7005-045112	12	12	100					
		SDACR 1616 K11 U	7005-043488	16	16	125					

SDJC... U

multidec[®]
ISO



SDJC... U

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)						
				h	b	l ₁	f			
L	DC 07	SDJCL 0808 H07 U	7005-043320	8	8	100	—			
		SDJCL 1010 H07 U	7005-043322	10	10	100	—			
		SDJCL 1212 H07 U	7005-043324	12	12	100	—			
		SDJCL 1616 K07 U	7005-043328	16	16	125	—			
	DC 11	SDJCL 1010 H11 U	7005-114824	10	10	100	2			
		SDJCL 1212 H11 U	7005-044121	12	12	100	—			
		SDJCL 1616 K11 U	7005-044148	16	16	125	—			
R	DC 07	SDJCR 0808 H07 U	7005-043321	8	8	100	—			
		SDJCR 1010 H07 U	7005-043323	10	10	100	—			
		SDJCR 1212 H07 U	7005-043325	12	12	100	—			
		SDJCR 1616 K07 U	7005-043329	16	16	125	—			
	DC 11	SDJCR 1010 H11 U	7005-114544	10	10	100	2			
		SDJCR 1212 H11 U	7005-044110	12	12	100	—			
		SDJCR 1616 K11 U	7005-044149	16	16	125	—			
		SDJCR 2020 K11 U	7005-045199	20	20	125	—			

SDJC... U INCH

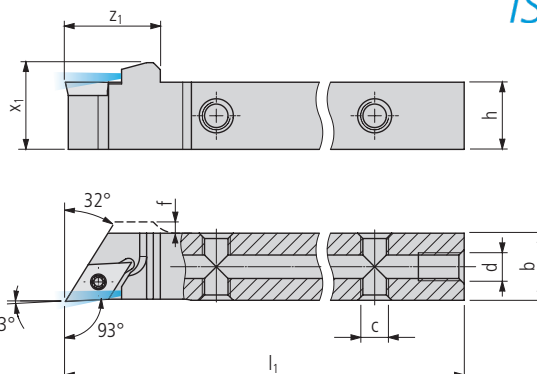
	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (inch)						
				h	b	l ₁	f			
L	DC 07	SDJCL 3/8" H07 U	7005-114043	0.375	0.375	100	—			
		SDJCL 1/2" H07 U	7005-114045	0.5	0.5	100	—			
	DC 11	SDJCL 3/8" H11 U	7005-114044	0.375	0.375	100	2.5			
		SDJCL 1/2" H11 U	7005-114046	0.5	0.5	100	—			
		SDJCL 5/8" K11 U	7005-113714	0.625	0.625	125	—			
		SDJCL 3/4" K11 U	7005-113716	0.750	0.750	125	—			
R	DC 07	SDJCR 3/8" H07 U	7005-138658	0.375	0.375	100	—			
		SDJCR 1/2" H07 U	7005-127411	0.5	0.57	100	—			
	DC 11	SDJCR 3/8" H11 U	7005-138417	0.375	0.375	100	2.5			
		SDJCR 1/2" H11 U	7005-138419	0.5	0.5	100	—			
		SDJCR 5/8" K11 U	7005-113715	0.625	0.625	125	—			
		SDJCR 3/4" K11 U	7005-113717	0.750	0.750	125	—			

SDJC... U IC



Coolant Connector Sold Separately

multidec[®]
ISO



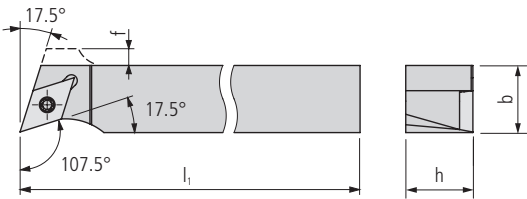
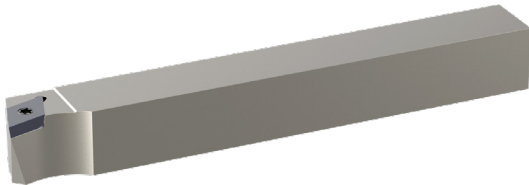
SDJC... U IC

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	f	c	d
L	DC 07	SDJCL 0810 H07 U IC	7005-146362	8	10	100	17	11.5	—	M5	M5
		SDJCL 1010 H07 U IC	7005-146363	10	10	100	17	13.5	—	M5	M5
		SDJCL 1212 H07 U IC	7005-146365	12	12	100	17	15.5	—	M5	M5
		SDJCL 1616 K07 U IC	7005-146367	16	16	125	17	15.5	—	M5	G $\frac{1}{8}$ "
	DC 11	SDJCL 1010 H11 U IC	7005-146364	10	10	100	22	13.5	2	M5	M5
		SDJCL 1212 H11 U IC	7005-146366	12	12	100	22	15.5	—	M5	M5
		SDJCL 1616 K11 U IC	7005-146368	16	16	125	22	19.5	—	M5	G $\frac{1}{8}$ "
R	DC 07	SDJCR 0810 H07 U IC	7005-146354	8	10	100	17	11.5	—	M5	M5
		SDJCR 1010 H07 U IC	7005-146355	10	10	100	17	13.5	—	M5	M5
		SDJCR 1212 H07 U IC	7005-146357	12	12	100	17	15.5	—	M5	M5
		SDJCR 1616 K07 U IC	7005-146359	16	16	125	17	15.5	—	M5	G $\frac{1}{8}$ "
	DC 11	SDJCR 1010 H11 U IC	7005-146356	10	10	100	22	13.5	2	M5	M5
		SDJCR 1212 H11 U IC	7005-146358	12	12	100	22	15.5	—	M5	M5
		SDJCR 1616 K11 U IC	7005-146360	16	16	125	22	19.5	—	M5	G $\frac{1}{8}$ "
		SDJCR 2020 K11 U IC	7005-146361	20	20	125	22	23.5	—	M5	G $\frac{1}{8}$ "

SDJC... U IC INCH

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	f	c	d
L	DC 07	SDJCL 3/8" H07 U IC	7005-146379	0.375	0.375	100	17	13	—	M5	M5
		SDJCL 1/2" H07 U IC	7005-146381	0.5	0.5	100	17	16.2	—	M5	M5
		SDJCL 5/8" K07 U IC	7005-146383	0.625	0.625	125	17	19.5	—	M5	G $\frac{1}{8}$ "
	DC 11	SDJCL 3/8" H11 U IC	7005-146380	0.375	0.375	100	22	13	2.5	M5	M5
		SDJCL 1/2" H11 U IC	7005-146382	0.5	0.5	100	22	16.2	—	M5	M5
		SDJCL 5/8" K11 U IC	7005-146384	0.625	0.625	125	22	19.5	—	M5	G $\frac{1}{8}$ "
		SDJCL 3/4" K11 U IC	7005-146385	0.750	0.750	125	22	22.6	—	M5	G $\frac{1}{8}$ "
R	DC 07	SDJCR 3/8" H07 U IC	7005-146370	0.375	0.375	100	17	13	—	M5	M5
		SDJCR 1/2" H07 U IC	7005-146372	0.5	0.5	100	17	16.2	—	M5	M5
		SDJCR 5/8" K07 U IC	7005-146374	0.625	0.625	125	17	19.5	—	M5	G $\frac{1}{8}$ "
	DC 11	SDJCR 3/8" H11 U IC	7005-146371	0.375	0.375	100	22	13	2.5	M5	M5
		SDJCR 1/2" H11 U IC	7005-146373	0.5	0.5	100	22	16.2	—	M5	M5
		SDJCR 5/8" K11 U IC	7005-146377	0.625	0.625	125	22	19.5	—	M5	G $\frac{1}{8}$ "
		SDJCR 3/4" K11 U IC	7005-146378	0.750	0.750	125	22	22.6	—	M5	G $\frac{1}{8}$ "

SDHC... U



SDHC... U

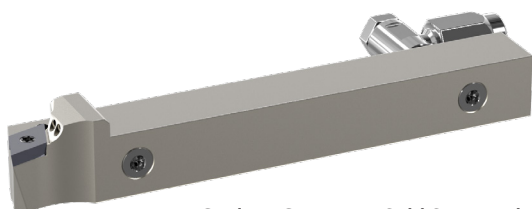
	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁	f				
		SDHCL 0808 H07 U	7005-144717	8	8	100	3				
		SDHCL 1010 H07 U	7005-154044	10	10	100	1				
		SDHCL 1212 H07 U	7005-114527	12	12	100	–				
		SDHCL 1616 K11 U	7005-114528	16	16	125	–				
		SDHCR 0808 H07 U	7005-153821	8	8	100	3				
		SDHCR 1010 H07 U	7005-154043	10	10	100	1				
		SDHCR 1212 H07 U	7005-114529	12	12	100	–				
		SDHCR 1616 K11 U	7005-114530	16	16	125	–				

SDHC... U INCH

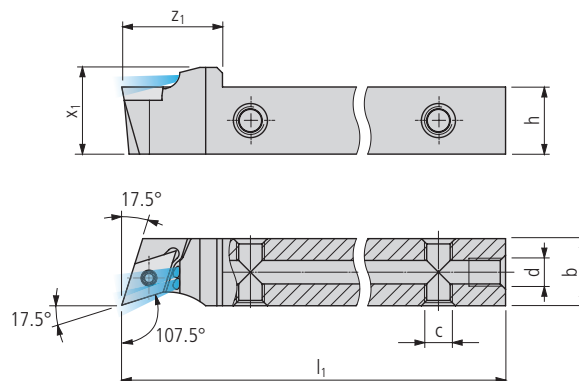
	Compatible Cutting Edges	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l ₁	f				
		SDHCL 3/8" H07 U	7005-144724	0.375	0.375	100	1.5				
		SDHCL 1/2" H07 U	7005-144719	0.5	0.5	100	–				
		SDHCL 5/8" K11 U	7005-144726	0.625	0.625	125	–				
		SDHCR 3/8" H07 U	7005-144734	0.375	0.375	100	1.5				
		SDHCR 1/2" H07 U	7005-144729	0.5	0.5	100	–				
		SDHCR 5/8" K11 U	7005-144736	0.625	0.625	125	–				

SDHC... U IC

multidec[®]
ISO



Coolant Connector Sold Separately



SDHC... U IC

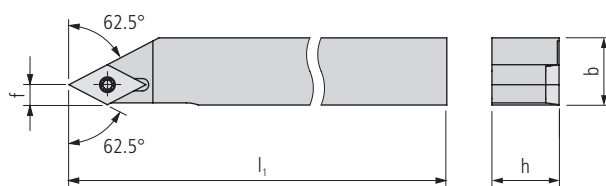
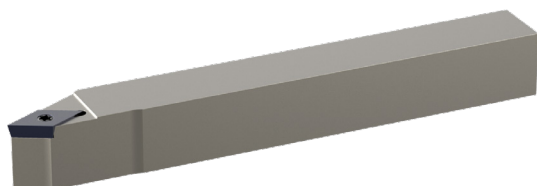
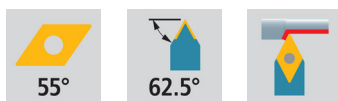
	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l_1	z_1	x_1	c	d	
L	DC 07	SDHCL 1212 H07 U IC	7005-144722	12	12	100	18	15.5	M5	M5	
	DC 11	SDHCL 1616 K11 U IC	7005-144723	16	16	125	21	19.5	M5	G1/8"	
R	DC 07	SDHCR 1212 H07 U IC	7005-144732	12	12	100	18	15.5	M5	M5	
	DC 11	SDHCR 1616 K11 U IC	7005-144733	16	16	125	21	19.5	M5	G1/8"	

SDHC... U IC INCH

	Compatible Cutting Edges	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l_1	z_1	x_1	c	d	
L	DC 07	SDHCL 1/2" H07 U IC	7005-144720	0.5	0.5	100	18	16.2	M5	M5	
	DC 11	SDHCL 5/8" K11 U IC	7005-144727	0.625	0.625	125	21	19.4	M5	G1/8"	
R	DC 07	SDHCR 1/2" H07 U IC	7005-144730	0.5	0.5	100	18	16.2	M5	M5	
	DC 11	SDHCR 5/8" K11 U IC	7005-144737	0.625	0.625	125	21	19.4	M5	G1/8"	

SDNC... U

multidec[®]
ISO

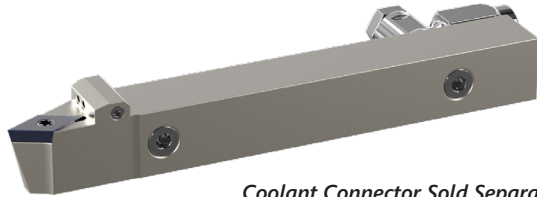
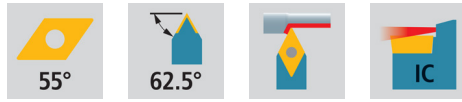


SDNC... U (MM)

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁	f				
L	DC 07 	SDNCL 1010 H07 U	7005-045183	10	10	100	3.65				
		SDNCL 1212 H07 U	7005-045184	12	12	100	3.65				
	DC 11 	SDNCL 1616 K11 U	7005-045203	16	16	125	5.45				
R	DC 07 	SDNCR 1010 H07 U	7005-045186	10	10	100	3.65				
		SDNCR 1212 H07 U	7005-045187	12	12	100	3.65				
	DC 11 	SDNCR 1616 K11 U	7005-045204	16	16	125	5.45				

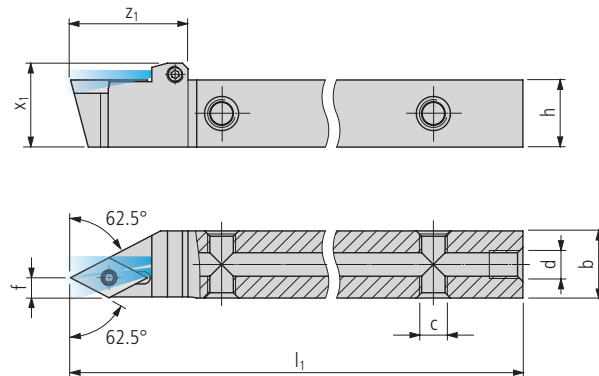
SDNC... U IC

multidec[®]
ISO



Coolant Connector Sold Separately

SDNC... U IC



	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l_1	z_1	x_1	f	c	d
L	DC 07	SDNCL 1010 H07 U IC	7005-144753	10	10	100	21	13	3.65	M5	M5
		SDNCL 1212 H07 U IC	7005-144754	12	12	100	21	15	3.65	M5	M5
	DC 11	SDNCL 1616 K11 U IC	7005-144756	16	16	125	25	19.5	5.45	M5	G $\frac{1}{8}$ "
R	DC 07	SDNCR 1010 H07 U IC	7005-144777	10	10	100	21	13	3.65	M5	M5
		SDNCR 1212 H07 U IC	7005-144778	12	12	100	21	15	3.65	M5	M5
	DC 11	SDNCR 1616 K11 U IC	7005-144780	16	16	125	25	19.5	5.45	M5	G $\frac{1}{8}$ "

SDNCN ... U

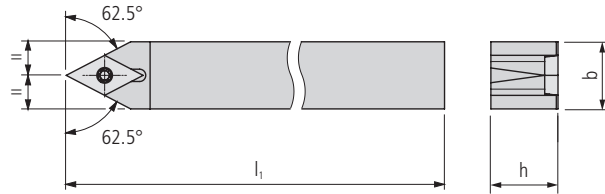
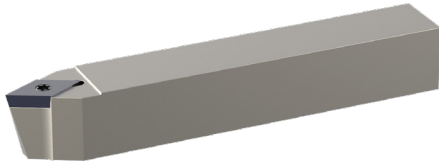
multidec[®]
ISO



55°



62.5°



SDNCN ... U (MM)

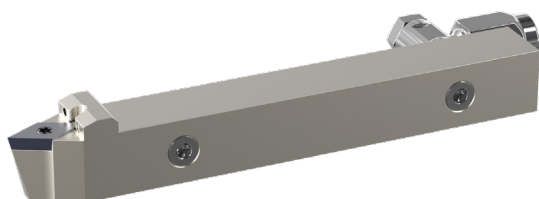
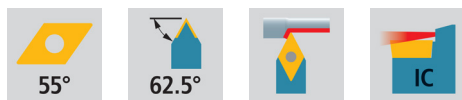
	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁					
		SDNCN 0808 H07 U	7005-045136	8	8	100					
		SDNCN 1010 H07 U	7005-045138	10	10	100					
		SDNCN 1212 H07 U	7005-045140	12	12	100					
		SDNCN 1616 K11 U	7005-045143	16	16	125					

SDNCN ... U INCH

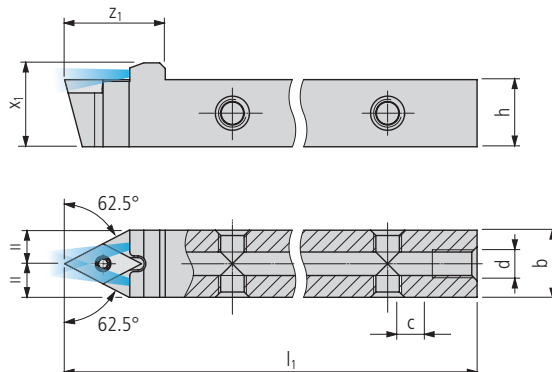
	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l ₁					
		SDNCN 3/8"H07 U	7005-144769	0.375	0.375	100					
		SDNCN 1/2"H07 U	7005-144762	0.5	0.5	100					
		SDNCN 1/2"H11 U	7005-144764	0.5	0.5	100					
		SDNCN 5/8"K11 U	7005-144771	0.625	0.625	125					

SDNCN ... U IC

multidec[®]
ISO



Coolant Connector Sold Separately



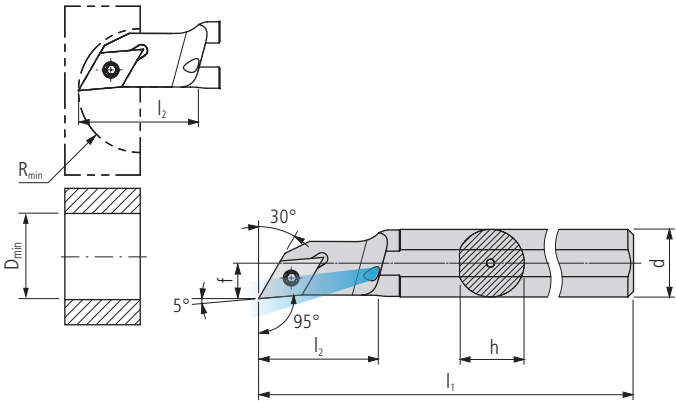
SDNCN ... U IC

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	c	d	
		SDNCN 0808 H07 U IC	7005-144761	8	8	100	18	11	M5	M5	
		SDNCN 1010 H07 U IC	7005-144766	10	10	100	18	13	M5	M5	
		SDNCN 1212 H07 U IC	7005-144767	12	12	100	18	15	M5	M5	
		SDNCN 1212 H11 U IC	7005-150436	12	12	100	24	15	M5	M5	
		SDNCN 1616 K11 U IC	7005-144768	16	16	125	24	19	M5	G ¹ / ₈ "	

SDNCN ... U IC INCH

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	c	d	
		SDNCN 3/8"H07 U IC	7005-144770	0.375	0.375	100	18	13	M5	M5	
		SDNCN 1/2"H07 U IC	7005-144763	0.5	0.5	100	18	15.7	M5	M5	
		SDNCN 1/2"H11 U IC	7005-144765	0.5	0.5	100	24	15.7	M5	M5	
		SDNCN 5/8"K11 U IC	7005-144772	0.625	0.625	125	24	18.9	M5	G ¹ / ₈ "	

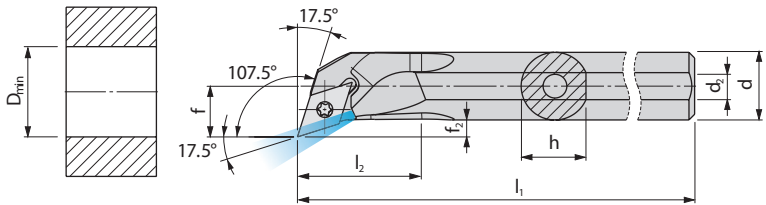
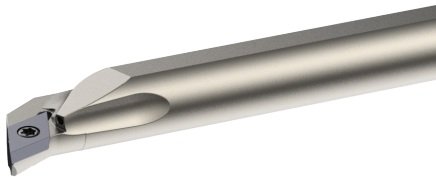
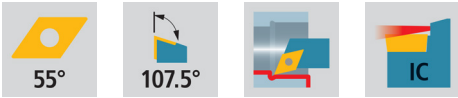
A... SDOC...



A... SDOC...

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				d	h	l ₁	l ₂	f	R _{min}	D _{min}	
	DC 07	A12K SDOCL 07	7005-114039	12	11.5	125	21	7	11	14	
	DC 07	A12K SDOCR 07	7005-044339	12	11.5	125	21	7	11	14	

A... SDQC...

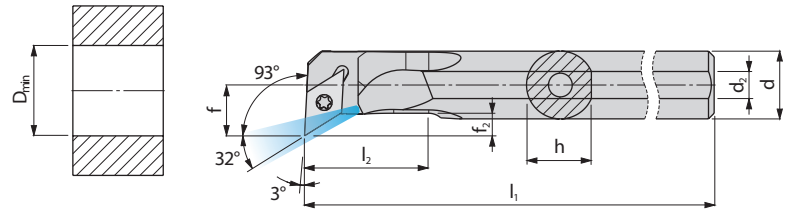
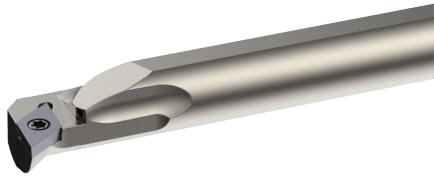
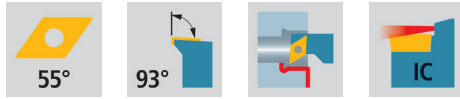


A... SDQC...

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm)							
				d	h	l ₁	l ₂	f	f ₂	D _{min}	d ₂
		A12K SDQCL 07	7005-045240	12	11.5	125	22	9	3	16	M5
		A16M SDQCL 07	7005-045242	16	15	150	25	11	3	20	M5
		A20Q SDQCL 07	7005-045244	20	18.5	180	32	13	3	25	G½"
		A12K SDQCR 07	7005-045241	12	11.5	125	22	9	3	16	M5
		A16M SDQCR 07	7005-045243	16	15	150	25	11	3	20	M5
		A20Q SDQCR 07	7005-045245	20	18.5	180	32	13	3	25	G½"

A... SDUC...

multidec[®]
ISO



A... SDUC...

	Compatible Cutting Edges Pg 40	Utilis Designation	GenSwiss Item Number	Dimensions (mm unless noted)							
				d	h	l ₁	l ₂	f	f ₂	D _{min}	d ₂
L	DC 07	A10H SDUCL 07	7005-045293	10	9.5	100	—	7	1	14	M5
		A12K SDUCL 07	7005-045248	12	11.5	125	22	9	3	16	M5
		A16M SDUCL 07	7005-045250	16	15.5	150	29	11	3	20	G½"
		A20Q SDUCL 07	7005-045252	20	19.5	180	32	13	3	25	G½"
	DC 11	A20Q SDUCL 11	7005-045254	20	19.5	180	32	13	3	25	G½"
R	DC 07	A10H SDUCR 07	7005-045292	10	9.5	100	—	7	1	14	M5
		A12K SDUCR 07	7005-045249	12	11.5	125	22	9	3	16	M5
		A16M SDUCR 07	7005-045251	16	15.5	150	29	11	3	20	G½"
		A20Q SDUCR 07	7005-045253	20	19.5	180	32	13	3	25	G½"
	DC 11	A20Q SDUCR 11	7005-045255	20	19.5	180	32	13	3	25	G½"

Replacement and spare parts



For holders (SD...) OD turning

		Dimensions	Utilis Designation	GenSwiss Item Number	Holders
	TORX Screw	M2.5 × 6 T08	MSP 25060 T08	7005-127518	SC... 06
		M3.5 × 11 T15	MSP 35110 T15	7005-127527	SC... 09
		M4.5 × 12 T15	MSP 45120 T15	7005-127528	SC... 12
	Screw Plug	M5	MSP VSR M5 IB2.5	7005-150262	SC... IC
		G½"	MSP VSR G1/8 IB5	7005-153989	

For holders (...SC...) ID turning

		Dimensions	Utilis Designation	GenSwiss Item Number	Holders
	TORX Screw	M2.5 × 5 T08	MSP 25050 T08	7005-127529	A... SC... 06
		M3.5 × 7.2 T15	MSP 35072 T15	7005-127967	A16M SC... 09
		M3.5 × 8.6 T15	MSP 35086 T15	7005-127519	A20Q SC... 09

TORX screwdriver

		Dimensions	Utilis Designation	GenSwiss Item Number	Holders
	TORX Screwdriver	T08	MSP TX08	7005-127520	M... T08
		T15	MSP TX15	7005-127482	M... T15

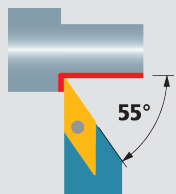
Application Overview - DC 55°

multidec[®]
ISO

Application OD turning

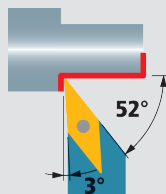
Front Turning

SVAC... U (90°) Pg 85



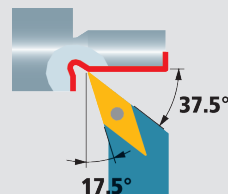
Turning and Facing

SVJC... U (93°) Pg 86



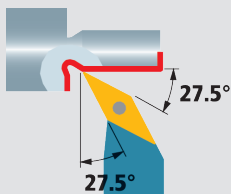
Turning and Undercutting

SVHC... U (107.5°) Pg 88



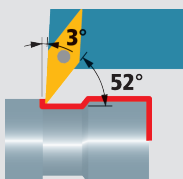
Turning and Undercutting

SVPC... U (117.5°) Pg 90



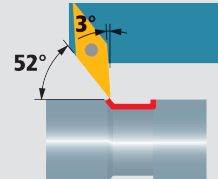
Turning and Facing

SVUC... (93°) Pg 92



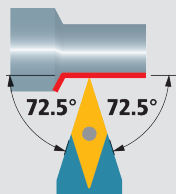
Back Turning

SVQC... (93°) Pg 93



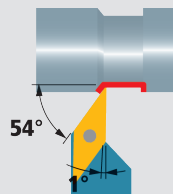
Turning

SVVCN... U (72.5°) Pg 94



Back Turning

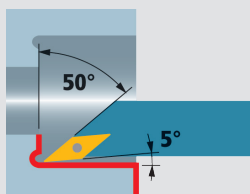
SVXC... U (91°) Pg 96



Application ID turning

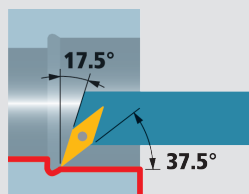
Turning and Facing

A... SVOC... (95°) Pg 98



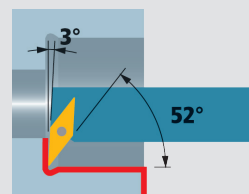
Turning and Undercutting

A... SVQC... (107.5°) Pg 99



Turning and Facing

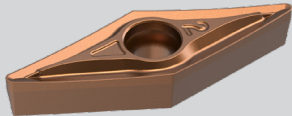
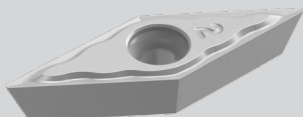
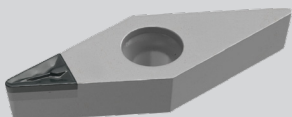
A... SVUC... (93°) Pg 100



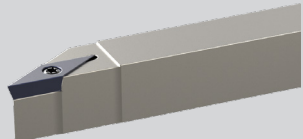
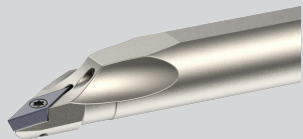
Overview - type VC35°

multidec[®]
ISO

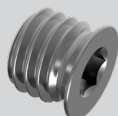
Indexable Inserts

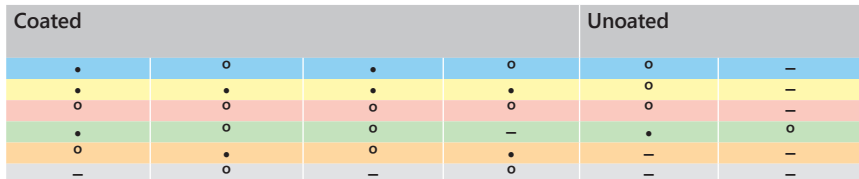
Carbide		
	VC GT	PG 72–77
	VC MT	PG 78
Cermet		
	VC GT	PG 79
Diamond		
	VC GW	PG 80
	VC GT	PG 81–83

Holders

Square Holder		
	SVAC...	PG 85
	SVJC...	PG 86
	SVHC...	PG 88
	SVPC...	PG 90
	SVUC...	PG 92
	SVQC...	PG 93
	SVVCN ...	PG 94
	SVXC...	PG 96
Round Shank Holders, Boring Bars		
	A... SVOC	PG 98
	A... SVQC	PG 99
	A... SVUC	PG 100

Replacement and Spare Parts

	PG 101
---	--------



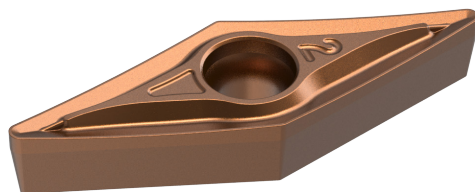
Application range

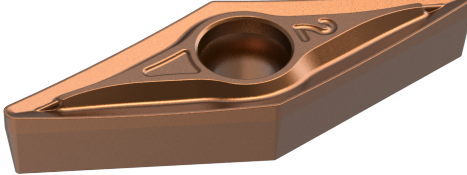
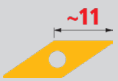
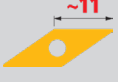
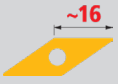


VCGT ... -PF33

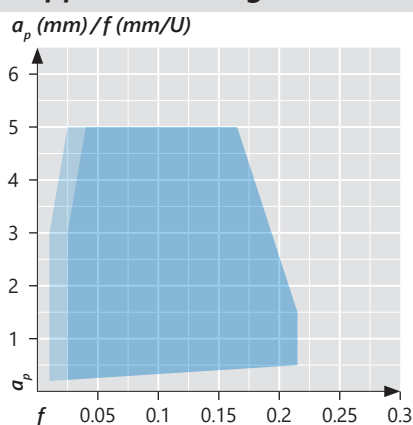
Carbide

multidec[®]
ISO



				Coated				Uncoated			
											
											
											
											
											
Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20		
GenSwiss Item #											
		0.05	VCGT 0702005 FN -PF33 ...	7005-559738	7005-559740			7005-559737		SV...07...	
		0.1	VCGT 070201 FN -PF33 ...	7005-559760	7005-559762	7005-559764	7005-559765	7005-559742	7005-559763		
		0.2	VCGT 070202 FN -PF33 ...	7005-559767	7005-559768	7005-559770	7005-559773	7005-559766	7005-559769		
		0.4	VCGT 070204 FN -PF33 ...	7005-559775	7005-559776	7005-559783	7005-559784	7005-559774	7005-559782		
		0.05	VCGT 1103005 FN -PF33 ...	7005-280211	280212	044934	044935	280144	039459	SV...11...	
		0.08	VCGT 1103008 FN -PF33 ...	7005-554620	7005-554621	7005-554624	7005-554626	7005-554619	7005-554623		
		0.1	VCGT 110301 FN -PF33 ...	7005-280213	280214	044936	044937	280145	039460		
		0.15	VCGT 1103015 FN -PF33 ...	7005-554630	7005-554631	7005-554635	7005-554636	7005-554628	7005-554633		
		0.2	VCGT 110302 FN -PF33 ...	280215	280216	044938	044939	280146	039461		
		0.4	VCGT 110304 FN -PF33 ...	280217	280218	044940	044941	280147	039462	SV...16...	
		0.1	VCGT 160401 FN -PF33 ...	280219	280220	044942	044943	280148	039463		
		0.2	VCGT 160402 FN -PF33 ...	280221	280222	044944	044945	280149	039464		
		0.4	VCGT 160404 FN -PF33 ...	280223	280224	044946	044947	280150	039465		
		0.8	VCGT 160408 FN -PF33 ...	7005-554641	7005-554642	7005-554644	7005-554645	7005-554639	7005-554643		
			0.05	VCGT 1103005 EN -PF33 ...			044948	044949		039466	SV...11...
			0.08	VCGT 1103008 EN -PF33 ...			7005-554647	7005-554648		7005-554646	
0.1			VCGT 110301 EN -PF33 ...			044950	044951		039467		
0.15			VCGT 1103015 EN -PF33 ...			7005-554651	7005-554652		7005-554650		
0.2			VCGT 110302 EN -PF33 ...			044952	044953		039468		
		0.4	VCGT 110304 EN -PF33 ...			044954	044955		039469	SV...16...	
		0.1	VCGT 160401 EN -PF33 ...			044956	044957		039470		
		0.2	VCGT 160402 EN -PF33 ...			044958	044959		039471		
		0.4	VCGT 160404 EN -PF33 ...			044960	044961		039472		
		0.8	VCGT 160408 EN -PF33 ...			7005-554656	7005-554657		7005-554655		

Application range



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–80
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

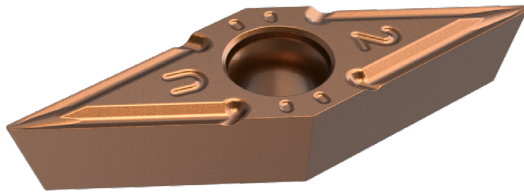
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

VC GT...-PF05

Carbide

multidec[®]
ISO

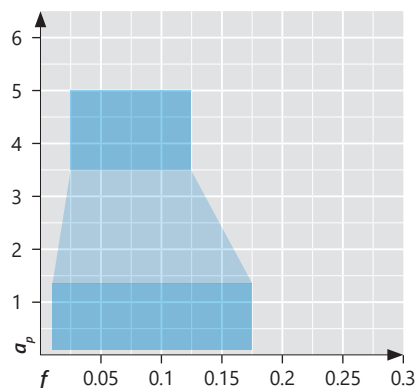


Coated	Uncoated
•	◦
•	•
•	•
•	•
•	•
•	•

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM10	
				GenSwiss Item#			
		0.05	VC GT 1103005 FN -PF05 ...	7005-215024	7005-211346	7005-211345	SV...11... □ 85...
		0.1	VC GT 110301 FN -PF05 ...	7005-215025	7005-211348	7005-211347	
		0.15	VC GT 1103015 FN -PF05 ...	7005-215026	7005-211350	7005-211349	
		0.2	VC GT 110302 FN -PF05 ...	7005-215027	7005-211352	7005-211351	
		0.4	VC GT 110304 FN -PF05 ...	7005-215028	7005-211354	7005-211353	

Application range

a_p (mm)/ f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	60–120
M	70–140	–
K	–	–
N	150–300	120–230
S	50–90	–
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

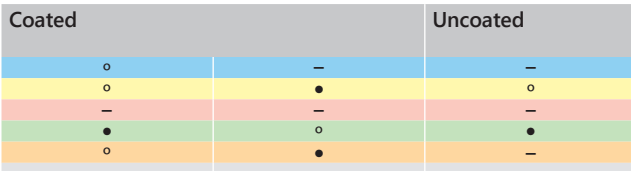
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

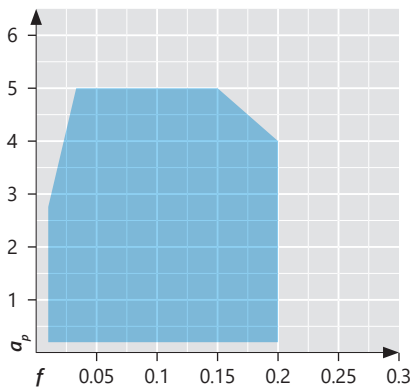
Carbide

multidec[®]
ISO



						
Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM10
				GenSwiss Item#		
		0.05	VCGT 1103005 FN -PA7 ...	7005-114387	7005-114978	7005-114386
		0.1	VCGT 110301 FN -PA7 ...	7005-114390	7005-114979	7005-114389
		0.2	VCGT 110302 FN -PA7 ...	7005-123648	7005-147826	7005-123538
		0.4	VCGT 110304 FN -PA7 ...	7005-012984	7005-123796	7005-123540
		0.8	VCGT 110308 FN -PA7 ...	7005-123649	7005-044910	7005-123541
		0.05	VCGT 1604005 FN -PA7 ...	7005-114392	7005-216074	7005-114391
		0.1	VCGT 160401 FN -PA7 ...	7005-114394	7005-216075	7005-114393
		0.2	VCGT 160402 FN -PA7 ...	7005-114396	7005-154406	7005-114395
		0.4	VCGT 160404 FN -PA7 ...	7005-123316	7005-123797	7005-123544
		0.8	VCGT 160408 FN -PA7 ...	7005-123458	7005-044911	7005-123547

Application range

 $a_p \text{ (mm)} / f \text{ (mm/U)}$  v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	–	–
N	150–300	140–280
S	40–90	30–85
H	–	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

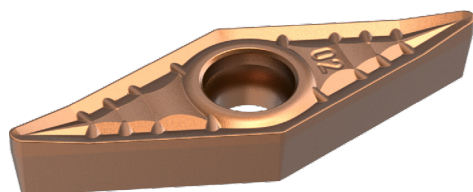
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

VCGT ... -PA6

Carbide

multidec[®]
ISO

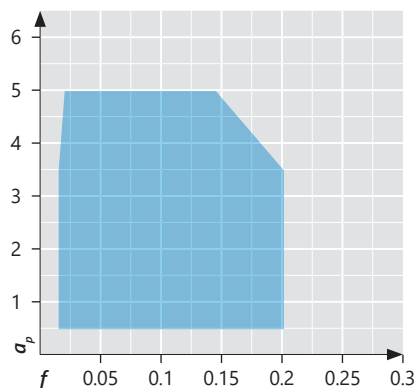


Coated	Uncoated
○	○
○	○
○	○
○	○
○	○

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM10	
GenSwiss Item #							
FN	VC 11	0.2	VCGT 110302 FN -PA6 ...	7005-555421	7005-555422	7005-555420	SV...11...
		0.4	VCGT 110304 FN -PA6 ...	7005-555424	7005-555425	7005-555423	
	VC 16	0.4	VCGT 160404 FN -PA6 ...	7005-555427	7005-555428	7005-555426	SV...16... 85...
		0.8	VCGT 160408 FN -PA6 ...	7005-555430	7005-555431	7005-555429	
		1.2	VCGT 160412 FN -PA6 ...	7005-555433	7005-555434	7005-555432	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	40–70
K	—	—
N	150–300	140–280
S	40–90	30–80
H	—	—

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

VCGT ... -A3

Carbide

multidec[®]
ISO

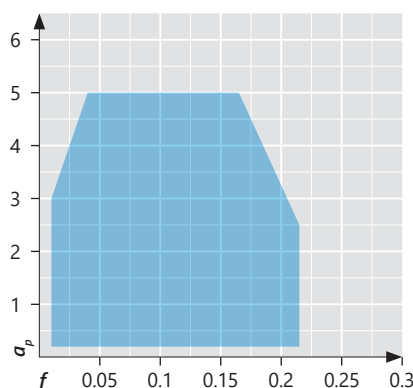


Coated				Uncoated	
○	○	○	○	○	○
●	●	●	●	○	○
—	—	—	—	—	—
●	○	○	○	●	●
○	○	○	○	—	—
—	○	—	—	—	—

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item #										
FN	VC 07	0.06	VCGT 0702006 FN -A3 ...	7005-153760	7005-185272			7005-153759		SV..07...
		0.1	VCGT 070201 FN -A3 ...	7005-152810	7005-152811			7005-152809		
		0.15	VCGT 0702015 FN -A3 ...	7005-152813	7005-152814			7005-152812		
		0.2	VCGT 070202 FN -A3 ...	7005-302323	7005-302282			7005-302281		
	VC 11	0.4	VCGT 070204 FN -A3 ...	7005-302460	7005-302461			7005-302459		SV..11... 85...
		0.08	VCGT 1103008 FN -A3 ...	7005-123088	7005-126102	7005-116991	7005-192034	7005-123055	7005-116990	
		0.15	VCGT 1103015 FN -A3 ...	7005-121880	7005-126103	7005-116993	7005-117191	7005-121876	7005-116992	
		0.35	VCGT 1103035 FN -A3 ...	7005-121881	7005-126104	7005-116995	7005-044900	7005-121877	7005-116994	
EN	VC 11	0.08	VCGT 1103008 EN -A3 ...			7005-044901	7005-044902		7005-039392	SV..11... 85...
		0.15	VCGT 1103015 EN -A3 ...			7005-044903	7005-044904		7005-039393	
		0.35	VCGT 1103035 EN -A3 ...			7005-044905	7005-044906		7005-039394	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	60–120
M	70–140	—
K	—	—
N	150–300	140–280
S	40–80	—
H	20–50	—

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

VCMT ... -PF43

Carbide

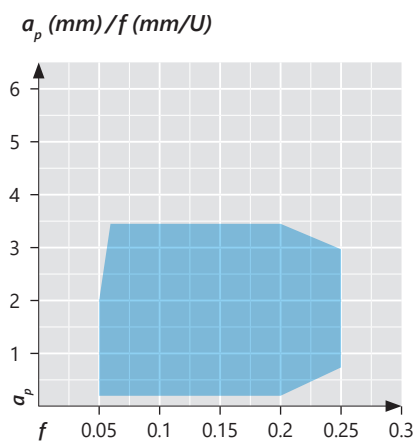
multidec[®]
ISO



Coated		
PVD	CVD	
•	•	
•	•	
•	•	
•	•	
•	•	
•	•	

Cutting Edge	Size	R	Utilis Designation	UHM30 HX	UHM20 MZ	
GenSwiss Item #						
	VC 11 	0.2	VCMT 110302 EN -PF43 ...	7005-127771	7005-216310	SV...11...
		0.4	VCMT 110304 EN -PF43 ...	7005-127772	7005-216311	
	VC 16 	0.4	VCMT 160404 EN -PF43 ...	7005-127773	7005-216312	SV...16... □ 85...
		0.8	VCMT 160408 EN -PF43 ...		7005-216313	

Application range



v_c (m/min)

	PVD	CVD
P	60–180	80–220
M	50–120	70–180
K	60–150	80–200
N	–	–
S	30–80	–
H	–	–

Availability

12345 Standard items
12345 Standard items, new in this catalog
12345 Discontinued items

Ideal Cutting Materials

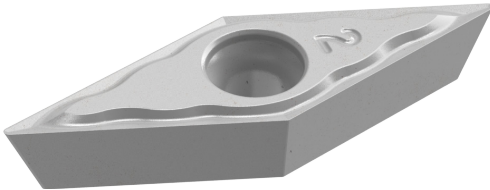
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

VCGT ... -PF23

Cermet

multidec[®]
ISO

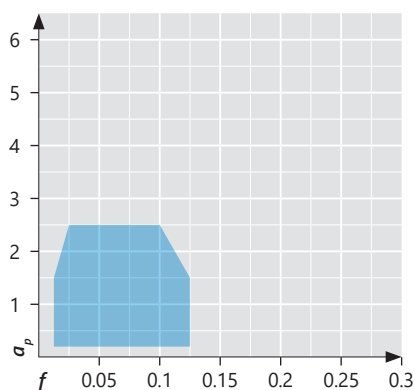


Coated	Uncoated
•	•
◦	◦
-	-
-	-
-	-

Cutting Edge	Size	R	Utilis Designation	UCM10 HX	UCM10	
				GenSwiss Item #		
		0.05	VC GT 1103005 FN -PF23 ...	7005-560519	7005-560518	SV...11... 85...
		0.1	VC GT 110301 FN -PF23 ...	7005-560521	7005-560520	
		0.2	VC GT 110302 FN -PF23 ...	7005-560523	7005-560522	
		0.4	VC GT 110304 FN -PF23 ...	7005-560525	7005-560524	

Application range

a_p (mm)/ f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	70–250	70–230
M	70–230	60–210
K	—	—
N	—	—
S	—	—
H	—	—

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

Ideal Cutting Materials

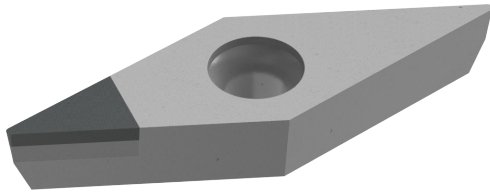
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

VCGW ... -FN

Diamond

multidec[®]
ISO



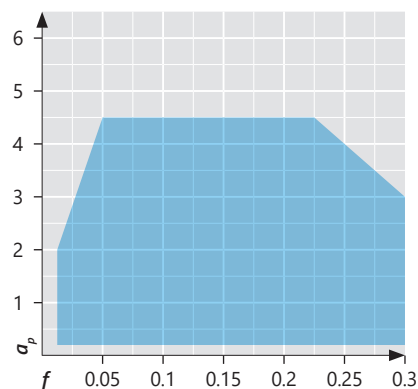
PCD		
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
				GenSwiss Item #			
		0.1	VCGW 110301 FN ...			7005-116235	SV...11...
		0.2	VCGW 110302 FN ...	7005-116910	7005-129036	7005-116236	
		0.4	VCGW 110304 FN ...	7005-116911	7005-129041	7005-116237	
		0.4	VCGW 160404 FN ...	7005-116914	7005-137734	7005-116244	SV...16... □85...
		0.8	VCGW 160408 FN ...	7005-116915	7005-137735	7005-116245	

More inserts available by request

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

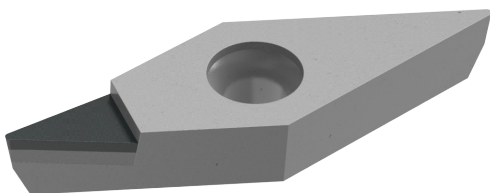
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

VC GT ... -FN Diamond

multidec[®]
ISO



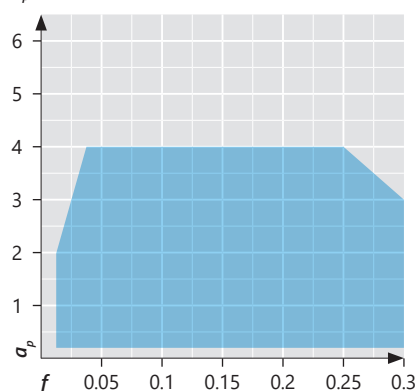
PCD		
-	-	-
-	-	-
•	•	•
-	-	-
UCVD08	UPCD15	UPCD20

Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
GenSwiss Item #							
FN	VC 11 ~11	0.1	VC GT 110301 FN ...		7005-116198	7005-116199	SV...11...
		0.2	VC GT 110302 FN ...		7005-137727	7005-116201	
	VC 16 ~16	0.2	VC GT 160402 FN ...		7005-137729	7005-116218	SV...16... □ 85...
		0.4	VC GT 160404 FN ...	7005-116902	7005-129039	7005-116221	

More inserts available by request

Application range

a_p (mm)/f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

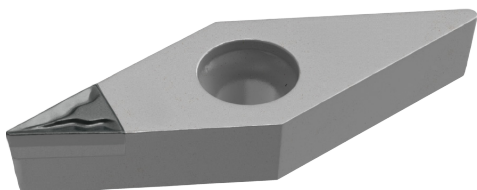
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

VCGT ... -UWS Diamond

multidec[®]
ISO



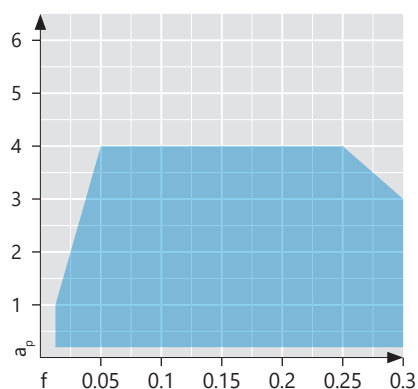
PCD		
-	-	-
-	-	-
•	•	•
-	-	-

Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD15	UPCD20	
				GenSwiss Item #			
		0.1	VCGT 110301 FN -UWS ...	7005-116672	7005-116405		SV...11... SV...16... 85...
		0.2	VCGT 110302 FN -UWS ...	7005-116676	7005-116411	7005-116412	
		0.4	VCGT 110304 FN -UWS ...	7005-116677	7005-116417	7005-116418	
		0.2	VCGT 160402 FN -UWS ...	7005-116692	7005-116429		
		0.4	VCGT 160404 FN -UWS ...	7005-116696	7005-116433	7005-116434	
		0.8	VCGT 160408 FN -UWS ...	7005-116700	7005-116437	7005-116438	

More inserts available by request

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

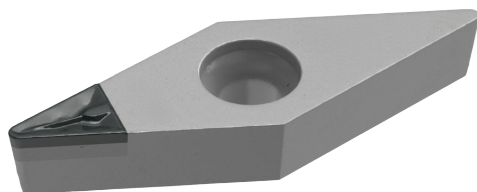
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

VC GT ... -UWN

Diamond

multidec[®]
ISO

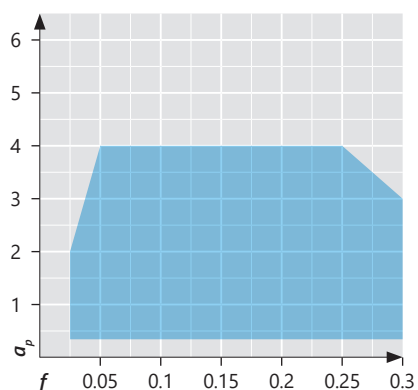


PCD							
Cutting Edge	Size	R	Utilis Designation	UCVD08	UPCD20		
GenSwiss Item #							
	VC 11	0.2	VC GT 110302 FN -UWN ...	7005-116675	7005-116410		SV...11... SV...16... 85...
		0.4	VC GT 110304 FN -UWN ...	7005-116679	7005-116416		
	VC 16						
		0.4	VC GT 160404 FN -UWN ...	7005-116695			

More inserts available by request

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

Material	
Aluminum < 13% Si	200-2000
Aluminum > 13% Si	120-1200
Magnesium alloys	200-2000
Brass, copper, bronze, zinc	150-1500
Platinum, silver, gold	120-600
Fiberglass compound materials	100-1000
Carbon fiber compound materials	100-800
Plastics, PEEK	100-1000
Pre-sintered ceramics and tungsten carbide	80-400

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Availability

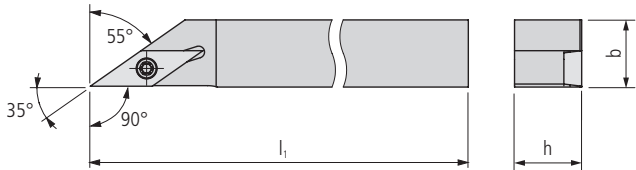
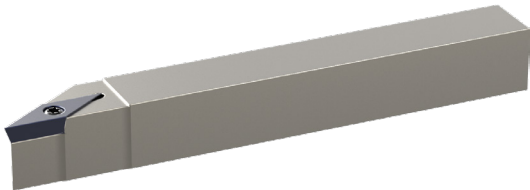
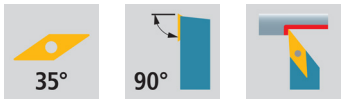
12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

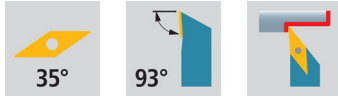
SVAC... U



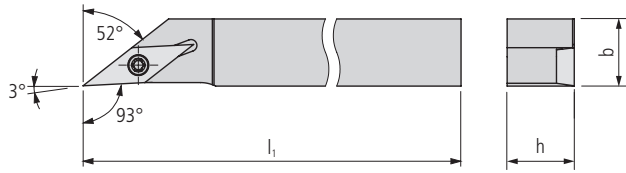
SVAC...U

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁					
L 	VC 11	SVACL 0808 H11 U	7005-044039	8	8	100					
		SVACL 1010 H11 U	7005-044041	10	10	100					
		SVACL 1212 H11 U	7005-044043	12	12	100					
R 	VC 11	SVACR 0808 H11 U	7005-044040	8	8	100					
		SVACR 1010 H11 U	7005-044042	10	10	100					
		SVACR 1212 H11 U	7005-044044	12	12	100					

SVJC...U



multidec[®]
ISO



SVJC... U

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)						
				h	b	l ₁				
L		SVJCL 0808 H11 U	7005-044031	8	8	100				
		SVJCL 1010 H11 U	7005-044033	10	10	100				
		SVJCL 1212 H11 U	7005-044035	12	12	100				
		SVJCL 1616 K11 U	7005-044087	16	16	125				
		SVJCL 2020 K11 U	7005-044089	20	20	125				
		SVJCL 1616 K16 U	7005-044234	16	16	125				
		SVJCL 2020 K16 U	7005-044093	20	20	125				
R		SVJCR 0808 H11 U	7005-044032	8	8	100				
		SVJCR 1010 H11 U	7005-044034	10	10	100				
		SVJCR 1212 H11 U	7005-044036	12	12	100				
		SVJCR 1616 K11 U	7005-044088	16	16	125				
		SVJCR 2020 K11 U	7005-044090	20	20	125				
		SVJCR 1616 K16 U	7005-044233	16	16	125				
		SVJCR 2020 K16 U	7005-044094	20	20	125				

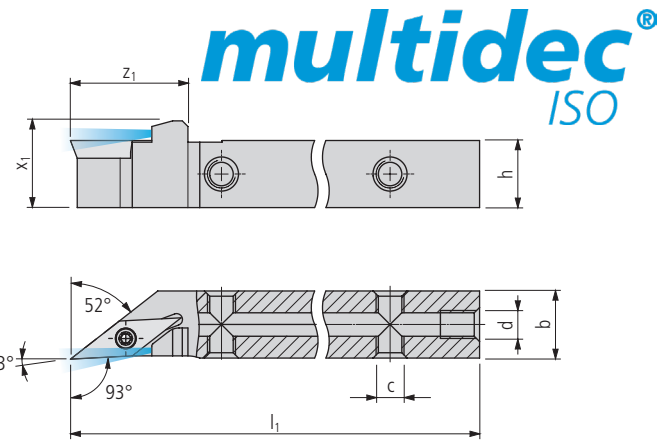
SVJC... U INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)						
				h	b	l ₁				
L		SVJCL 3/8" F11 U	7005-148820	0.375	0.375	80				
		SVJCL 3/8" H11 U	7005-114040	0.375	0.375	100				
		SVJCL 1/2" H11 U	7005-114041	0.5	0.5	100				
		SVJCL 3/4" K11 U	7005-113730	0.750	0.750	125				
		SVJCL 3/4" K16 U	7005-114042	0.750	0.750	125				
R		SVJCR 3/8" F11 U	7005-148819	0.375	0.375	80				
		SVJCR 3/8" H11 U	7005-138418	0.375	0.375	100				
		SVJCR 1/2" H11 U	7005-138420	0.5	0.5	100				
		SVJCR 3/4" K11 U	7005-113731	0.750	0.750	125				
		SVJCR 3/4" K16 U	7005-138421	0.750	0.750	125				

SVJC...U IC



Coolant Connector Sold Separately



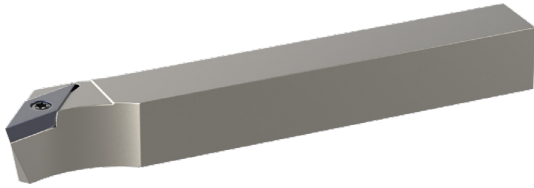
SVJC... U IC

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	c	d	
L		SVJCL 0810 H11 U IC	7005-146418	8	10	100	21	11.5	M5	M5	
		SVJCL 1010 H11 U IC	7005-146419	10	10	100	21	13.5	M5	M5	
		SVJCL 1212 H11 U IC	7005-146420	12	12	100	21	15.5	M5	M5	
		SVJCL 1616 K11 U IC	7005-146421	16	16	125	21	19.5	M5	G $\frac{1}{8}$ "	
		SVJCL 2020 K11 U IC	7005-146423	20	20	125	21	23.5	M5	G $\frac{1}{8}$ "	
		SVJCL 1616 K16 U IC	7005-146422	16	16	125	27	19.5	M5	G $\frac{1}{8}$ "	
		SVJCL 2020 K16 U IC	7005-146424	20	20	125	27	23.5	M5	G $\frac{1}{8}$ "	
R		SVJCR 0810 H11 U IC	7005-146411	8	10	100	21	11.5	M5	M5	
		SVJCR 1010 H11 U IC	7005-146412	10	10	100	21	13.5	M5	M5	
		SVJCR 1212 H11 U IC	7005-146413	12	12	100	21	15.5	M5	M5	
		SVJCR 1616 K11 U IC	7005-146414	16	16	125	21	19.5	M5	G $\frac{1}{8}$ "	
		SVJCR 2020 K11 U IC	7005-146416	20	20	125	21	23.5	M5	G $\frac{1}{8}$ "	
		SVJCR 1616 K16 U IC	7005-146415	16	16	125	27	19.5	M5	G $\frac{1}{8}$ "	
		SVJCR 2020 K16 U IC	7005-146417	20	20	125	27	23.5	M5	G $\frac{1}{8}$ "	

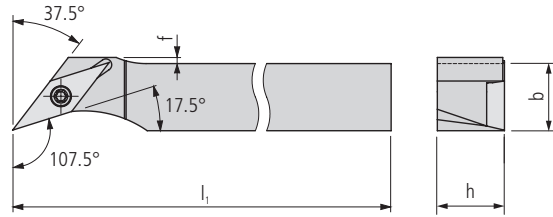
SVJC... U IC INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	c	d	
L		SVJCL 3/8" H11 U IC	7005-146431	0.375	0.375	100	21	13	M5	M5	
		SVJCL 1/2" H11 U IC	7005-146432	0.5	0.5	100	21	16.2	M5	M5	
		SVJCL 5/8" K11 U IC	7005-146433	0.625	0.625	125	21	19.5	M5	G $\frac{1}{8}$ "	
		SVJCL 3/4" K11 U IC	7005-146435	0.750	0.750	125	21	22.6	M5	G $\frac{1}{8}$ "	
		SVJCL 5/8" K16 U IC	7005-146434	0.625	0.625	125	27	19.5	M5	G $\frac{1}{8}$ "	
		SVJCL 3/4" K16 U IC	7005-146436	0.750	0.750	125	27	22.6	M5	G $\frac{1}{8}$ "	
R		SVJCR 3/8" H11 U IC	7005-146425	0.375	0.375	100	21	13	M5	M5	
		SVJCR 1/2" H11 U IC	7005-146426	0.5	0.5	100	21	16.2	M5	M5	
		SVJCR 5/8" K11 U IC	7005-146427	0.625	0.625	125	21	19.5	M5	G $\frac{1}{8}$ "	
		SVJCR 3/4" K11 U IC	7005-146429	0.750	0.750	125	21	22.6	M5	G $\frac{1}{8}$ "	
		SVJCR 5/8" K16 U IC	7005-146428	0.625	0.625	125	27	19.5	M5	G $\frac{1}{8}$ "	
		SVJCR 3/4" K16 U IC	7005-146430	0.750	0.750	125	27	22.6	M5	G $\frac{1}{8}$ "	

SVHC... U



multidec[®]
ISO



SVHC... U

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	f				
L	VC 07 	SVHCL 0808 H07 U	7005-144816	8	8	100	0.5				
		SVHCL 1010 H07 U	7005-144822	10	10	100	–				
	VC 11 	SVHCL 1010 H11 U	7005-154046	10	10	100	3.1				
		SVHCL 1212 H11 U	7005-114531	12	12	100	1.1				
		SVHCL 1616 K11 U	7005-114532	16	16	125	–				
R	VC 07 	SVHCR 0808 H07 U	7005-144833	8	8	100	0.5				
		SVHCR 1010 H07 U	7005-144839	10	10	100	–				
	VC 11 	SVHCR 1010 H11 U	7005-154045	10	10	100	3.1				
		SVHCR 1212 H11 U	7005-114533	12	12	100	1.1				
		SVHCR 1616 K11 U	7005-114534	16	16	125	–				

SVHC... U INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	f				
L	VC 07 	SVHCL 3/8" H07 U	7005-144828	0.375	0.375	100	–				
	VC 11 	SVHCL 3/8" H11 U	7005-144830	0.375	0.375	100	3.6				
		SVHCL 1/2" H11 U	7005-144820	0.5	0.5	100	0.4				
		SVHCL 5/8" K11 U	7005-144831	0.625	0.625	125	–				
R	VC 07 	SVHCR 3/8" H07 U	7005-144845	0.375	0.375	100	–				
	VC 11 	SVHCR 3/8" H11 U	7005-144847	0.375	0.375	100	3.6				
		SVHCR 1/2" H11 U	7005-144837	0.5	0.5	100	0.4				
		SVHCR 5/8" K11 U	7005-144848	0.625	0.625	125	–				

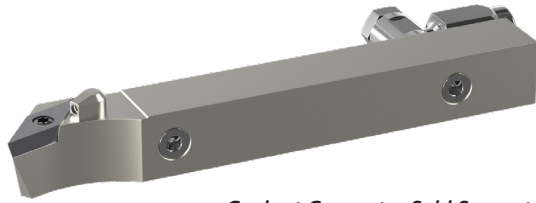
Availability

12345 Standard items

12345 Standard items, new in this catalog

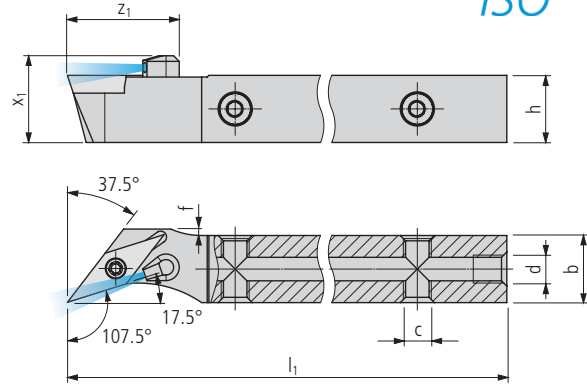
12345 Discontinued items

SVHC... U IC



Coolant Connector Sold Separately

multidec[®]
ISO



SVHC... U IC

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	f	c	d
		SVHCL 1010 H11 U IC	7005-212926	10	10	100	20	13.5	3.2	M5	M5
		SVHCL 1212 H11 U IC	7005-144826	12	12	100	20	15.5	1.2	M5	M5
		SVHCL 1616 K11 U IC	7005-144827	16	16	125	20	19.5	–	M5	G ¹ / ₈ "
		SVHCR 1010 H11 U IC	7005-144841	10	10	100	20	13.5	3.2	M5	M5
		SVHCR 1212 H11 U IC	7005-212925	12	12	100	20	15.5	1.2	M5	M5
		SVHCR 1616 K11 U IC	7005-144844	16	16	125	20	19.5	–	M5	G ¹ / ₈ "

SVHC... U IC INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	f	c	d
		SVHCL 1/2" H11 U IC	7005-144821	0.5	0.5	100	20	16.2	0.5	M5	M5
		SVHCL 5/8" K11 U IC	7005-144832	0.625	0.625	125	20	19.4	–	M5	G ¹ / ₈ "
		SVHCR 1/2" H11 U IC	7005-144838	0.5	0.5	100	20	16.2	0.5	M5	M5
		SVHCR 5/8" K11 U IC	7005-144849	0.625	0.625	125	20	19.4	–	M5	G ¹ / ₈ "

Availability

12345 Standard items

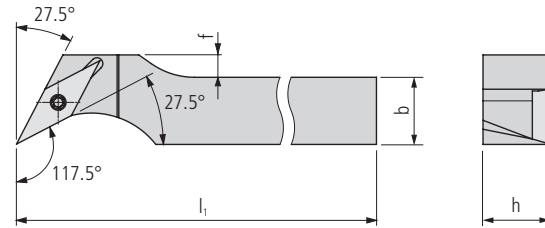
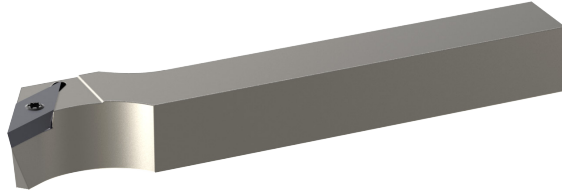
12345 Standard items, new in this catalog

12345 Discontinued items

SVPC... U



multidec[®]
ISO



SVPC... U

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	f				
L		SVPC 0808 H07 U	7005-144880	8	8	100	2				
		SVPC 1010 H07 U	7005-144886	10	10	100	–				
		SVPC 1212 H07 U	7005-144889	12	12	100	–				
		SVPC 1010 H11 U	7005-154048	10	10	100	6				
		SVPC 1212 H11 U	7005-114535	12	12	100	4				
		SVPC 1616 K11 U	7005-114536	16	16	125	–				
R		SVPCR 0808 H07 U	7005-144899	8	8	100	2				
		SVPCR 1010 H07 U	7005-144906	10	10	100	–				
		SVPCR 1212 H07 U	7005-144908	12	12	100	–				
		SVPCR 1010 H11 U	7005-154047	10	10	100	6				
		SVPCR 1212 H11 U	7005-114537	12	12	100	4				
		SVPCR 1616 K11 U	7005-114538	16	16	125	–				

SVPC... U INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	f				
L		SVPC 3/8" H07 U	7005-144893	0.375	0.375	100	0.5				
		SVPC 1/2" H07 U	7005-144882	0.5	0.5	100	–				
		SVPC 3/8" H11 U	7005-144895	0.375	0.375	100	6.5				
		SVPC 1/2" H11 U	7005-144884	0.5	0.5	100	3.3				
		SVPC 5/8" K11 U	7005-144897	0.625	0.625	125	–				
R		SVPCR 3/8" H07 U	7005-144912	0.375	0.375	100	0.5				
		SVPCR 1/2" H07 U	7005-144901	0.5	0.5	100	–				
		SVPCR 3/8" H11 U	7005-144914	0.375	0.375	100	6.5				
		SVPCR 1/2" H11 U	7005-144903	0.5	0.5	100	3.3				
		SVPCR 5/8" K11 U	7005-144916	0.625	0.625	125	–				

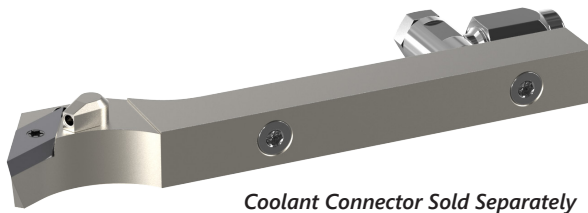
Availability

12345 Standard items

12345 Standard items, new in this catalog

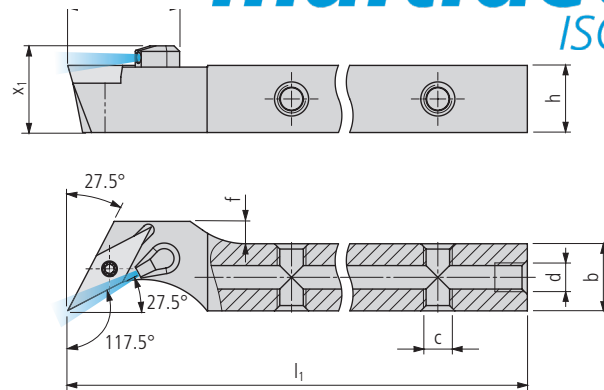
12345 Discontinued items

SVPC... U IC



Coolant Connector Sold Separately

multidec[®]
ISO



SVPC... U IC

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	f	c	d
L	VC 07	SVPCCL 0808 H07 U IC	7005-144881	8	8	100	14	11.5	2	M5	M5
		SVPCCL 1010 H07 U IC	7005-144887	10	10	100	14	13.5	–	M5	M5
		SVPCCL 1212 H07 U IC	7005-144890	12	12	100	14	15.5	–	M5	M5
	VC 11	SVPCCL 1010 H11 U IC	7005-144888	10	10	100	20	13.5	6	M5	M5
		SVPCCL 1212 H11 U IC	7005-144891	12	12	100	20	15.5	4	M5	M5
		SVPCCL 1616 K11 U IC	7005-144892	16	16	125	20	19.5	–	M5	G½"
R	VC 07	SVPCR 0808 H07 U IC	7005-144900	8	8	100	14	11.5	2	M5	M5
		SVPCR 1010 H07 U IC	7005-144907	10	10	100	14	13.5	–	M5	M5
		SVPCR 1212 H07 U IC	7005-144909	12	12	100	14	15.5	–	M5	M5
	VC 11	SVPCR 1010 H11 U IC	7005-144905	10	10	100	20	13.5	6	M5	M5
		SVPCR 1212 H11 U IC	7005-144910	12	12	100	20	15.5	4	M5	M5
		SVPCR 1616 K11 U IC	7005-144911	16	16	125	20	19.5	–	M5	G½"

SVPC... U IC INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	f	c	d
L	VC 07	SVPCCL 3/8" H07 U IC	7005-144894	0.375	0.375	100	14	13	0.5	M5	M5
		SVPCCL 1/2" H07 U IC	7005-144883	0.5	0.5	100	14	16.2	–	M5	M5
	VC 11	SVPCCL 3/8" H11 U IC	7005-144896	0.375	0.375	100	20	13	6.5	M5	M5
		SVPCCL 1/2" H11 U IC	7005-144885	0.5	0.5	100	20	16.2	3.3	M5	M5
		SVPCCL 5/8" K11 U IC	7005-144898	0.625	0.625	125	20	19.4	–	M5	G½"
R	VC 07	SVPCR 3/8" H07 U IC	7005-144913	0.375	0.375	100	14	13	0.5	M5	M5
		SVPCR 1/2" H07 U IC	7005-144902	0.5	0.5	100	14	16.2	–	M5	M5
	VC 11	SVPCR 3/8" H11 U IC	7005-144915	0.375	0.375	100	20	13	6.5	M5	M5
		SVPCR 1/2" H11 U IC	7005-144904	0.5	0.5	100	20	16.2	3.3	M5	M5
		SVPCR 5/8" K11 U IC	7005-144917	0.625	0.625	125	20	19.4	–	M5	G½"

Availability

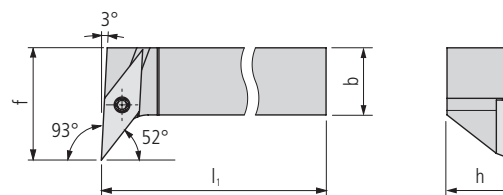
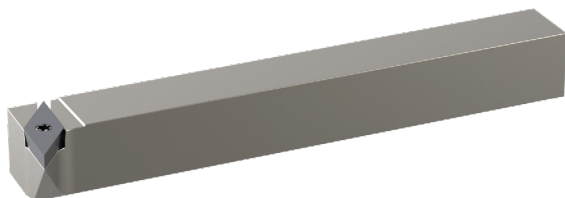
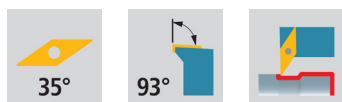
12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

SVUC...

multidec[®] ISO



SVUC...

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	f				
L	VC 11 	SVUCL 1212 H11	7005-043542	12	12	100	20				
		SVUCL 1616 K11	7005-043543	16	16	125	24				
		SVUCL 2020 K11	7005-153231	20	20	125	28				
R	VC 11 	SVUCR 1212 H11	7005-043544	12	12	100	20				
		SVUCR 1616 K11	7005-043545	16	16	125	24				
		SVUCR 2020 K11	7005-150911	20	20	125	28				

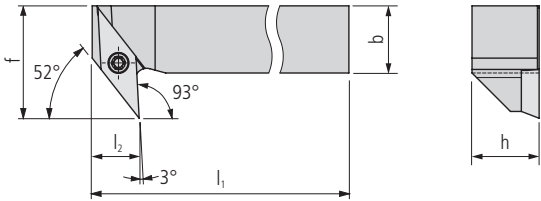
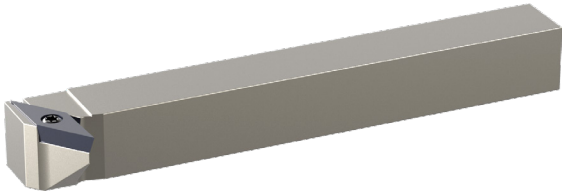
Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

SVQC...



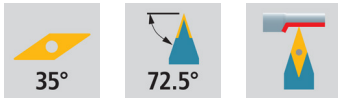
SVQC...

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	f	l ₂			
		SVQCL 1212 H11	7005-043538	12	12	100	20	8.5			
		SVQCL 1616 K11	7005-043539	16	16	125	24	8.5			
		SVQCR 1212 H11	7005-043540	12	12	100	20	8.5			
		SVQCR 1616 K11	7005-043541	16	16	125	24	8.5			

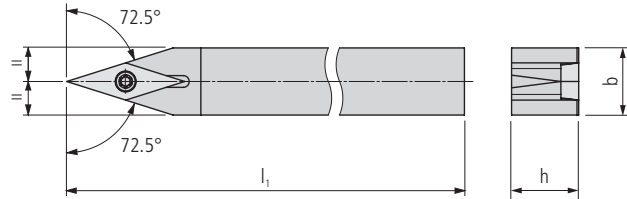
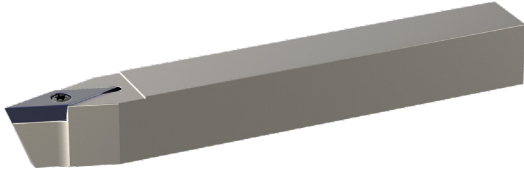
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

SVVCN ... U



multidec[®]
ISO



SVVCN ... U

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁					
N	VC 07 	SVVCN 0808 H07 U	7005-144930	8	8	100					
	VC 11 	SVVCN 0808 H11 U	7005-044027	8	8	100					
		SVVCN 1010 H11 U	7005-044028	10	10	100					
		SVVCN 1212 H11 U	7005-044029	12	12	100					
		SVVCN 1616 K11 U	7005-045171	16	16	125					
		SVVCN 2020 K11 U	7005-045172	20	20	125					
	VC 16 	SVVCN 2020 K16 U	7005-045173	20	20	125					

SVVCN ... U INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁					
N	VC 11 	SVVCN 3/8" H11 U	7005-144951	0.375	0.375	100					
		SVVCN 1/2" H11 U	7005-144935	0.5	0.5	100					
		SVVCN 5/8" K11 U	7005-144953	0.625	0.625	125					
		SVVCN 3/4" K11 U	7005-144945	0.750	0.750	125					
	VC 16 	SVVCN 3/4" K16 U	7005-144947	0.750	0.750	125					

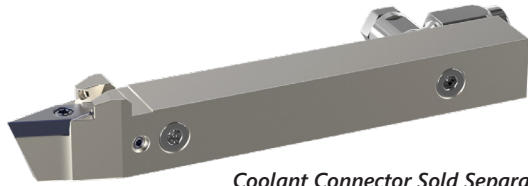
Availability

12345 Standard items

12345 Standard items, new in this catalog

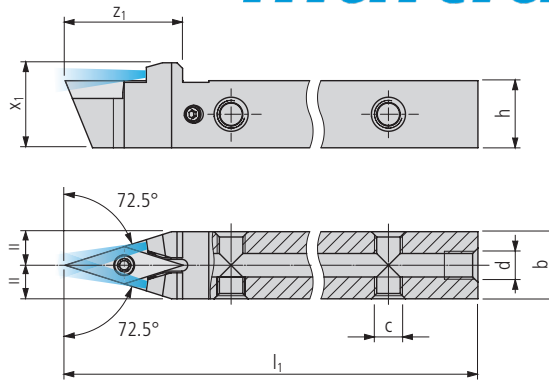
12345 Discontinued items

SVVCN ... U IC



Coolant Connector Sold Separately

multidec[®]
ISO



SVVCN ... U IC

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	c	d	
	VC 07	SVVCN 0808 H07 U IC	7005-144931	8	8	100	20	11.5	M5	M5	
	VC 11	SVVCN 0810 H11 U IC	7005-144932	8	10	100	21	13.2	M5	M5	
		SVVCN 1010 H11 U IC	7005-144939	10	10	100	21	13.2	M5	M5	
		SVVCN 1212 H11 U IC	7005-150927	12	12	100	21	15.2	M5	M5	
		SVVCN 1616 K11 U IC	7005-144942	16	16	125	21	19.2	M5	G $\frac{1}{8}$ "	
		SVVCN 2020 K11 U IC	7005-144943	20	20	125	21	23.2	M5	G $\frac{1}{8}$ "	
	VC 16	SVVCN 2020 K16 U IC	7005-144944	20	20	125	27	24.2	M5	G $\frac{1}{8}$ "	

SVVCN ... U IC INCH

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	c	d	
	VC 11	SVVCN 3/8" H11 U IC	7005-144952	0.375	0.375	100	21	12.7	M5	M5	
		SVVCN 1/2" H11 U IC	7005-144936	0.5	0.5	100	21	15.9	M5	M5	
		SVVCN 5/8" K11 U IC	7005-144954	0.625	0.625	125	21	19.1	M5	G $\frac{1}{8}$ "	
		SVVCN 3/4" K11 U IC	7005-144946	0.750	0.750	125	21	22.3	M5	G $\frac{1}{8}$ "	
	VC 16	SVVCN 3/4" K16 U IC	7005-144948	0.750	0.750	125	27	23.3	M5	G $\frac{1}{8}$ "	

Availability

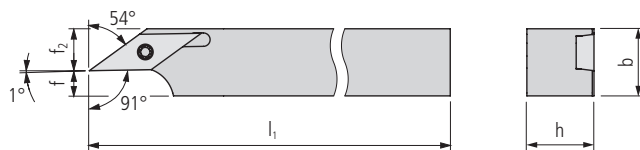
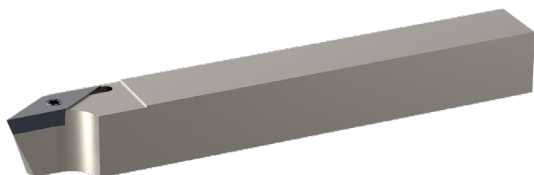
12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

SVXC... U

multidec[®]
ISO



SVXC... U

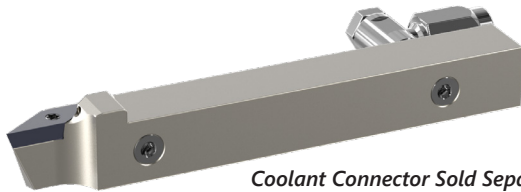
	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	f	f ₂			
L	VC 07 	SVXCL 0808 H07 U	7005-144955	8	8	100	2.5	5.5			
	VC 11 	SVXCL 1010 H11 U	7005-044049	10	10	100	2.5	7.5			
		SVXCL 1212 H11 U	7005-044051	12	12	100	4.5	7.5			
		SVXCL 1616 K11 U	7005-043075	16	16	125	8.5	7.5			
	VC 16 	SVXCL 2020 K16 U	7005-044055	20	20	125	8.5	11.5			
R	VC 07 	SVXCR 0808 H07 U	7005-144965	8	8	100	2.5	5.5			
	VC 11 	SVXCR 1010 H11 U	7005-044050	10	10	100	2.5	7.5			
		SVXCR 1212 H11 U	7005-044052	12	12	100	4.5	7.5			
		SVXCR 1616 K11 U	7005-043076	16	16	125	8.5	7.5			
	VC 16 	SVXCR 2020 K16 U	7005-044056	20	20	125	8.5	11.5			

SVXC... U INCH

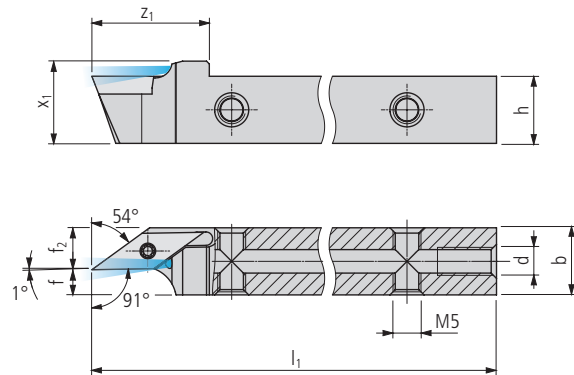
	Compatible Cutting Edges Pg 72	Utilis Description	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	f	f ₂			
L	VC 11 	SVXCL 3/8" H11 U	7005-153738	0.375	0.375	100	2	5.5			
		SVXCL 1/2" H11 U	7005-153739	0.5	0.5	100	5.2	7.5			
		SVXCL 5/8" K11 U	7005-153740	0.625	0.625	125	8.4	7.5			
	VC 16 	SVXCL 3/4" K16 U	7005-153741	0.750	0.750	125	7.5	11.5			
R	VC 11 	SVXCR 3/8" H11 U	7005-153733	0.375	0.375	100	2	5.5			
		SVXCR 1/2" H11 U	7005-153734	0.5	0.5	100	5.2	7.5			
		SVXCR 5/8" K11 U	7005-153735	0.625	0.625	125	8.4	7.5			
	VC 16 	SVXCR 3/4" K16 U	7005-153736	0.750	0.750	125	7.5	11.5			

SVXC... U IC

multidec[®]
ISO



Coolant Connector Sold Separately



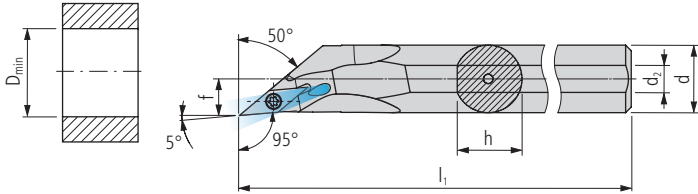
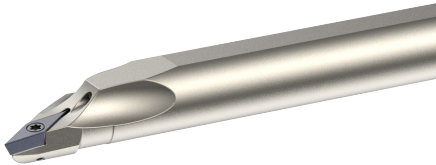
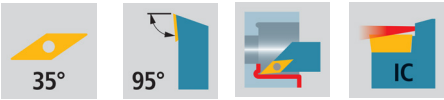
SVXC... U IC

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	f	f ₂	d
L	VC 07	SVXCL 0808 H07 U IC	7005-144956	8	8	100	18	11.5	2.5	5.5	M5
	VC 11	SVXCL 1010 H11 U IC	7005-153746	10	10	100	21	12.7	2.5	7.5	M5
		SVXCL 1212 H11 U IC	7005-169004	12	12	100	21	14.7	4.5	7.5	M5
		SVXCL 1616 K11 U IC	7005-150765	16	16	125	21	18.7	8.5	7.5	G ¹ / ₈ "
	VC 16	SVXCL 2020 K16 U IC	7005-153747	20	20	125	27	22	8.5	11.5	G ¹ / ₈ "
R	VC 07	SVXCR 0808 H07 U IC	7005-144966	8	8	100	18	11.5	2.5	5.5	M5
	VC 11	SVXCR 1010 H11 U IC	7005-169546	10	10	100	21	12.7	2.5	7.5	M5
		SVXCR 1212 H11 U IC	7005-153742	12	12	100	21	14.7	4.5	7.5	M5
		SVXCR 1616 K11 U IC	7005-153743	16	16	125	21	18.7	8.5	7.5	G ¹ / ₈ "
	VC 16	SVXCR 2020 K16 U IC	7005-153744	20	20	125	27	22	8.5	11.5	G ¹ / ₈ "

SVXC... U IC INCH

	Compatible Cutting Edges Pg 72	Utilis Description	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	f	f ₂	d
L	VC 11	SVXCL 3/8" H11 U IC	7005-153754	0.375	0.375	100	21	12.2	2	5.5	M5
		SVXCL 1/2" H11 U IC	7005-153755	0.5	0.5	100	21	15.4	5.2	7.5	M5
		SVXCL 5/8" K11 U IC	7005-153756	0.625	0.625	125	21	18.6	8.4	7.5	G ¹ / ₈ "
	VC 16	SVXCL 3/4" K16 U IC	7005-153757	0.750	0.750	125	27	22	7.5	11.5	G ¹ / ₈ "
R	VC 11	SVXCR 3/8" H11 U IC	7005-153749	0.375	0.375	100	21	12.2	2	5.5	M5
		SVXCR 1/2" H11 U IC	7005-153750	0.5	0.5	100	21	15.4	5.2	7.5	M5
		SVXCR 5/8" K11 U IC	7005-153751	0.625	0.625	125	21	18.6	8.4	7.5	G ¹ / ₈ "
	VC 16	SVXCR 3/4" K16 U IC	7005-153752	0.750	0.750	125	27	22	7.5	11.5	G ¹ / ₈ "

A... SVOC...

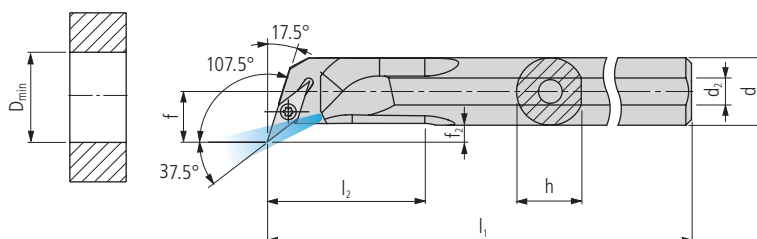
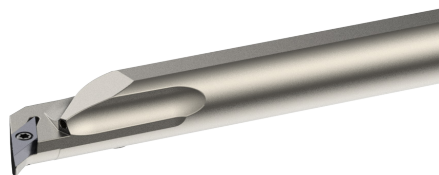
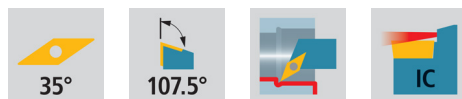


A... SVOC...

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				d	h	l ₁	f	D _{min}	d ₂		
L	VC 07	A10H SVOCL 07	7005-144686	10	9.5	100	5.5	11	M5		
		A12K SVOCL 07	7005-144692	12	11.5	125	6.5	13	M5		
	VC 11	A12K SVOCL 11	7005-114037	12	11.5	125	7	17	Ø3.3		
		A16M SVOCL 11	7005-114038	16	15.5	150	9	20	Ø4		
R	VC 07	A10H SVOCR 07	7005-144687	10	9.5	100	5.5	11	M5		
		A12K SVOCR 07	7005-144693	12	11.5	125	6.5	13	M5		
	VC 11	A12K SVOCR 11	7005-044340	12	11.5	125	7	17	Ø3.3		
		A16M SVOCR 11	7005-044347	16	15.5	150	9	20	Ø4		

A... SVQC...

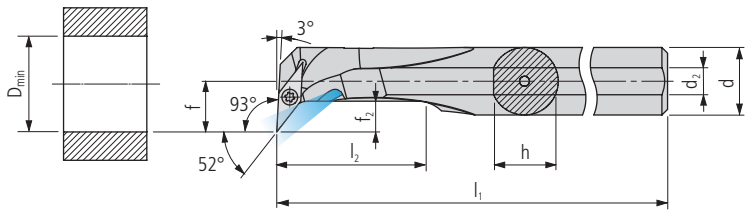
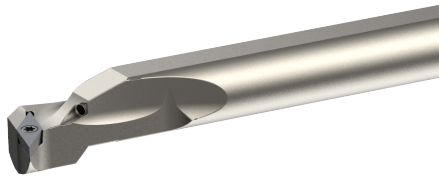
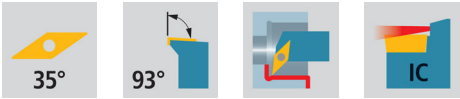
multidec[®]
ISO



A... SVQC...

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				d	h	l ₁	l ₂	f	D _{min}	f ₂	d ₂
L	VC 07 	A10H SVQCL 07	7005-144688	10	9.5	100	23	8	14	3	M5
		A12K SVQCL 07	7005-144694	12	11.5	125	28	9	16	3	M5
	VC 11 	A16M SVQCL 11	7005-045274	16	15.5	150	36	11	20	3	G ¹ / ₈ "
		A20Q SVQCL 11	7005-045276	20	19.5	180	36	13	25	3	G ¹ / ₈ "
R	VC 07 	A10H SVQCR 07	7005-144689	10	9.5	100	23	8	14	3	M5
		A12K SVQCR 07	7005-144695	12	11.5	125	28	9	16	3	M5
	VC 11 	A16M SVQCR 11	7005-045275	16	15.5	150	36	11	20	3	G ¹ / ₈ "
		A20Q SVQCR 11	7005-045277	20	19.5	180	36	13	25	3	G ¹ / ₈ "

A... SVUC...



A... SVUC...

	Compatible Cutting Edges Pg 72	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				d	h	l ₁	l ₂	f	D _{min}	f ₂	d ₂
	VC 07	A10H SVUCL 07	7005-144690	10	9.5	100	23	8.5	13.5	5	M5
		A12K SVUCL 07	7005-144696	12	11.5	125	25	9	17	5.5	M5
		A16M SVUCL 07	7005-144702	16	15.5	150	36	11	20	5.5	G ¹ / ₈ "
	VC 11	A16M SVUCL 11	7005-045280	16	15.5	150	36	13	21	8	G ¹ / ₈ "
		A20Q SVUCL 11	7005-045282	20	19.5	180	40	14	24	8	G ¹ / ₈ "

Replacement and spare parts



For holders (SV...) OD turning

	Description	Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screw	M2 × 5.5 T06	MSP 20055 T06	7005-043490	SV... 07
		M2.5 × 6 T08	MSP 25060 T08	7005-127518	SV... 11
		M3.5 × 11 T15	MSP 35110 T15	7005-127527	SV... 16
	Screw Plug	M5	MSP VSR M5 IB2.5	7005-150262	SV... IC
		G1/8"	MSP VSR G1/8 IB5	7005-153989	

For holders (...SV...) ID turning

	Description	Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screw	M2 × 4.3 TP06	MSP 20043 TP06	7005-556100	A... SVO... 07 A... SVQ... 07
		M2 × 5.5 TP06	MSP 20055 T06	7005-043490	A... SVU... 07
		M2.5 × 6 T08	MSP 25060 T08	7005-127518	A... SV... 11

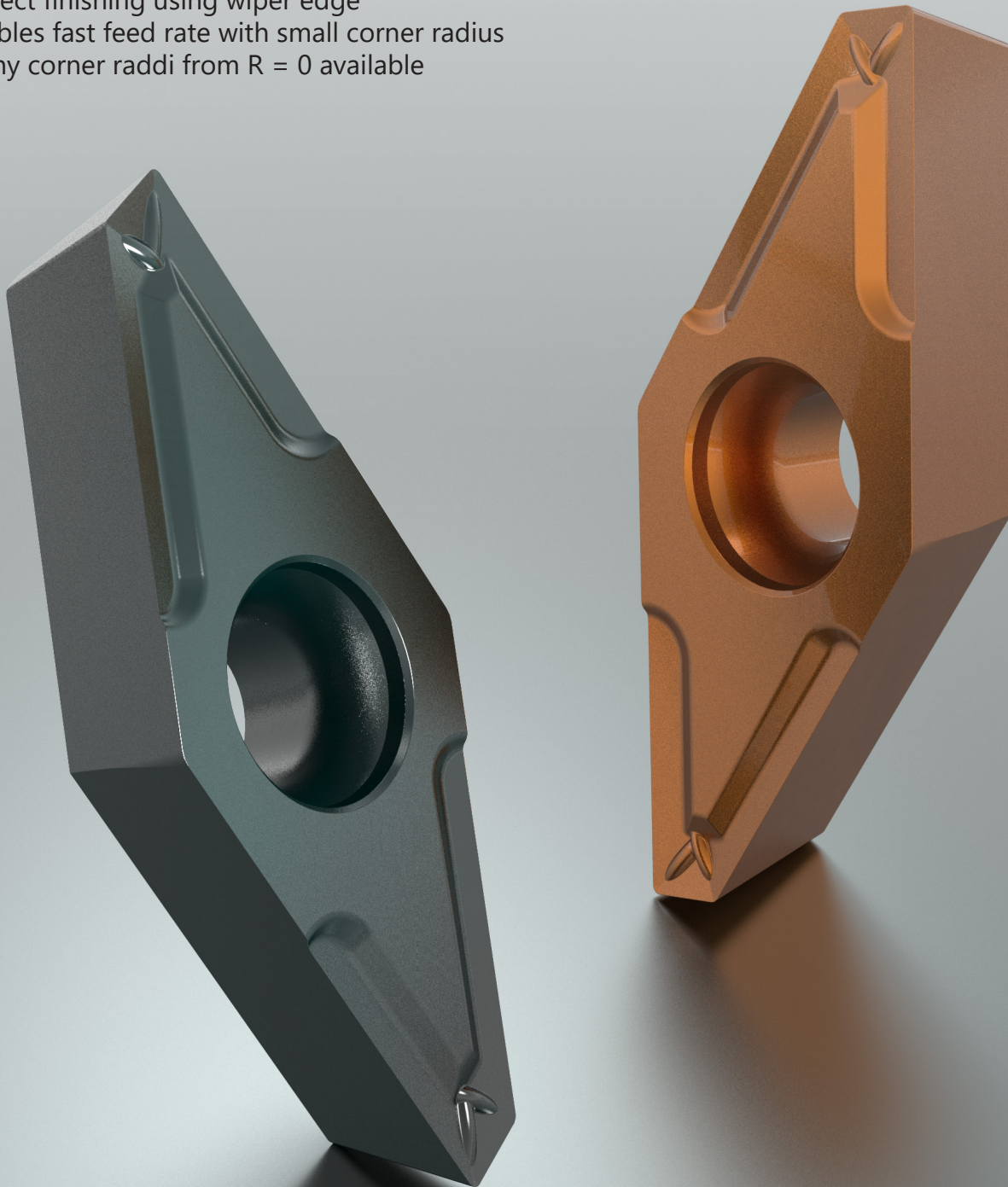
TORX screwdriver

	Description	Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screwdriver	T06	MSP TX06	7005-127535	M... T06 M... TP06
		T08	MSP TX08	7005-127520	M... T08
		T15	MSP TX15	7005-127482	M... T15

multidec[®]

ISO top

- VP.. based indexable insert with 11° clearance angle
- Excellent all-rounder tool
- Enables large cutting depth with excellent chip control
- Perfect finishing using wiper edge
- Enables fast feed rate with small corner radius
- Many corner raddi from R = 0 available



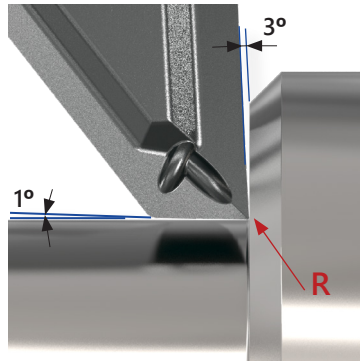
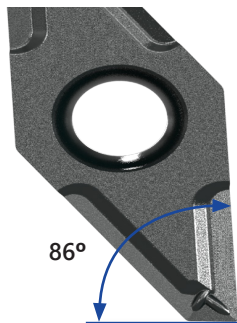
The multidec® -TOP system

multidec®
ISO top

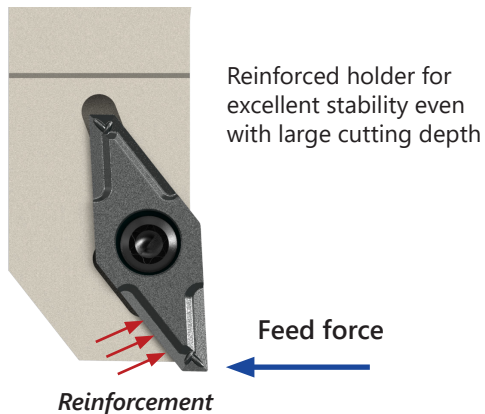
The ideal insert for outstanding surface quality

The multidec®-TOP wiper edge allows a feed rate increase of up to 100% compared to conventional ISO inserts. It is an excellent all-rounder for Swiss-type lathes, and has been specially developed for machining small parts for which small corner radii are required. It also allows large cutting depth.

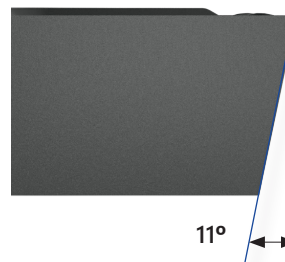
The geometries



1° wiper edge allows very high surface finish quality without or with very small corner radius

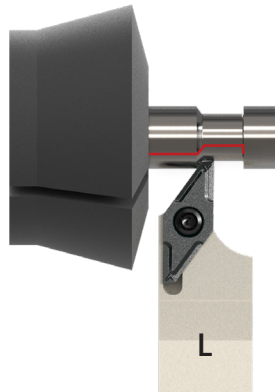
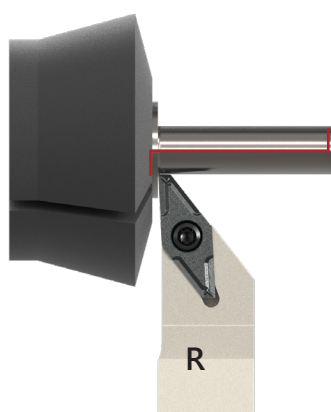


Reinforced holder for excellent stability even with large cutting depth



Clearance angle of 11° for soft cutting and high feed rate

The application



- Finishing with high feed rate
- Very versatile geometries and grades
- Working in 3 directions is possible:
 - Forward Turning
 - Facing
 - Back Turning (Reverse Turning)

Application Overview - TOP 35°



Application OD turning

Front Turning

SVAP... (90°) Pg 109

Turning and facing

SVJP... (93°) Pg 110
SVJP... V (93°) Pg 112

Back turning

SVXP... (91°) Pg 114

Application ID turning

Turning and facing

SVJP... X (92°) Pg 116
A... SVJP... (93°) Pg 118

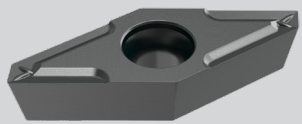
Turning and facing

SVUP... X (92°) Pg 117

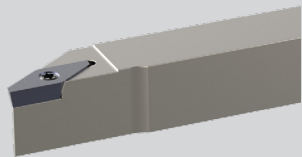
Overview - type VC35°

multidec[®]
ISO top

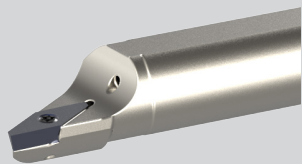
Indexable Inserts

Carbide		
	VPET	PG 106
	VPGT	PG 107
	VPXT	PG 108

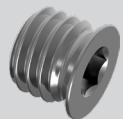
Holders

Square Holder		
	SVAP	PG 109
	SVJP	PG 110
	SVJP... V	PG 112
	SVXP	PG 114
	SVJP... X (92°)	PG 116
	SVUP... X	PG 117

Round Shank Holders, Boring Bars

	A... SVJP	PG 118
---	-----------	--------

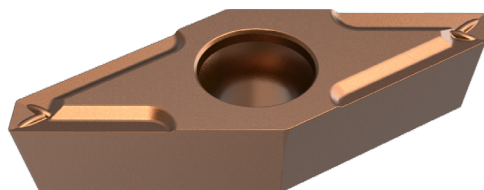
Replacement and Spare Parts

	PG 119
---	--------

VPET ... TOP

Carbide

multidec[®]
ISO top

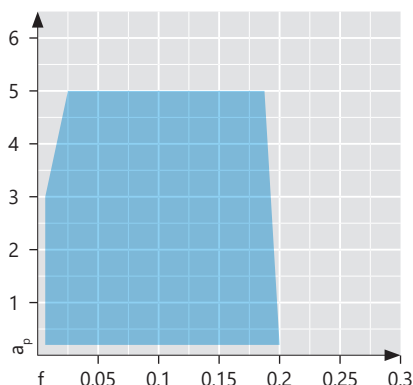


Coated				Uncoated	
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

Cutting Edges	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item #										
		0	VPET 1003ZZ FL TOP ...	7005-117106	7005-044766	7005-129857	7005-212499	7005-117105	7005-129856	SV... 109...
		0.08	VPET 1003008 FL TOP ...	7005-117108	7005-044768	7005-129859	7005-044769	7005-117107	7005-129858	
		0.15	VPET 1003015 FL TOP ...	7005-117110	7005-044771	7005-129861	7005-044772	7005-117109	7005-129860	
		0	VPET 1003ZZ FR TOP ...	7005-117100	7005-192089	7005-129863	7005-044758	7005-117099	7005-129862	
		0.03	VPET 1003003 FR TOP ...	7005-559304	7005-559342	7005-559344	7005-559345	7005-559302	7005-559343	
		0.05	VPET 1003005 FR TOP ...	7005-559347	7005-559348	7005-559360	7005-559361	7005-559346	7005-559359	
		0.08	VPET 1003008 FR TOP ...	7005-117102	7005-044761	7005-129865	7005-044762	7005-117101	7005-129864	
		0.1	VPET 1003010 FR TOP ...	7005-559363	7005-559364	7005-559367	7005-559368	7005-559362	7005-559366	
		0.15	VPET 1003015 FR TOP ...	7005-117104	7005-212162	7005-129867	7005-044764	7005-117103	7005-129866	
		0.2	VPET 1003020 FR TOP ...	7005-559370	7005-559371	7005-559373	7005-559374	7005-559369	7005-559372	

Application range

a_p (mm) / f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	60–120
M	60–120	–
K	90–150	70–120
N	150–300	140–280
S	50–90	–
H	–	–

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

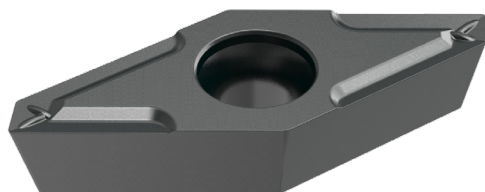
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

VPGT ... TOP

Carbide

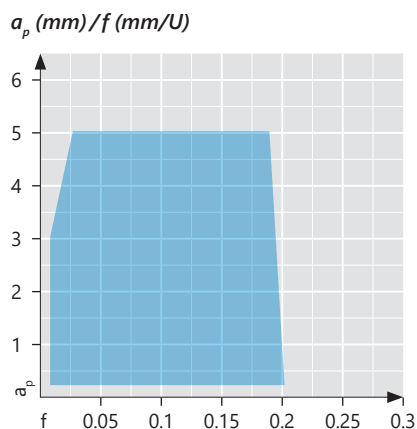
multidec[®]
ISO top



Coated				Uncoated	
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

Cutting Edge	Size	R	Utilis Designation	UHM10 HX	UHM10 TX+	UHM20 HPX	UHM20 TX+	UHM10	UHM20	
GenSwiss Item #										
		0	VPGT 1003ZZ FL TOP ...	7005-117094	7005-150871	7005-113207	7005-044774	7005-117093	7005-113206	SV... 109...
		0.08	VPGT 1003008 FL TOP ...	7005-117096	7005-192815	7005-113209	7005-044775	7005-117095	7005-113208	
		0.15	VPGT 1003015 FL TOP ...	7005-117098	7005-154260	7005-113128	7005-044776	7005-117097	7005-113127	
		0	VPGT 1003ZZ FR TOP ...	7005-117088	7005-192462	7005-113203	7005-169816	7005-117087	7005-113202	
		0.03	VPGT 1003003 FR TOP ...	7005-559376	7005-559377	7005-559379	7005-559380	7005-559375	7005-559378	
		0.05	VPGT 1003005 FR TOP ...	7005-559382	7005-559383	7005-139732	7005-559385	7005-559381	7005-553286	
		0.08	VPGT 1003008 FR TOP ...	7005-117090	7005-154795	7005-113205	7005-154431	7005-117089	7005-113204	
		0.1	VPGT 1003010 FR TOP ...	7005-559392	7005-559393	7005-559395	7005-559396	7005-559391	7005-559394	
		0.15	VPGT 1003015 FR TOP ...	7005-117092	7005-147792	7005-113130	7005-154719	7005-117091	7005-113129	
		0.2	VPGT 1003020 FR TOP ...	7005-559398	7005-559399	7005-559401	7005-559402	7005-559397	7005-559400	

Application range



v_c (m/min)

	Coated	Uncoated
P	80–160	60–120
M	60–120	–
K	90–150	70–120
N	150–300	140–280
S	50–90	–
H	–	–

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

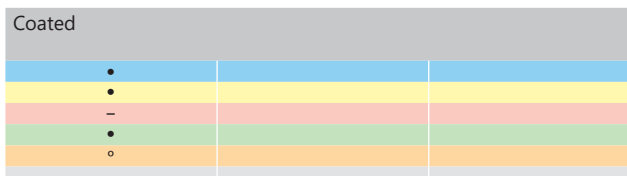
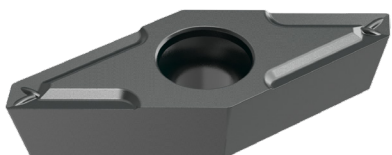
Availability

- 12345 Standard items
- 12345 Standard items, new in this catalog
- 12345 Discontinued items

VPXT ... TOP

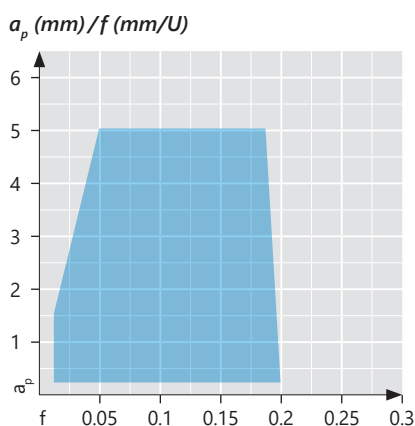
Carbide

multidec[®]
ISO top



Cutting Edges	Size	R	Utilis Designation	UHM20 HPX			
GenSwiss Item #							
		0.15	VPXT 1003015 EL TOP ...	7005-138456			SV ... 109...
		0.35	VPXT 1003035 EL TOP ...	7005-138462			
		0.15	VPXT 1003015 ER TOP ...	7005-138457			
		0.35	VPXT 1003035 ER TOP ...	7005-138463			

Application range



v_c (m/min)	Coated
P	80–160
M	60–120
K	90–150
N	150–300
S	50–90
H	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

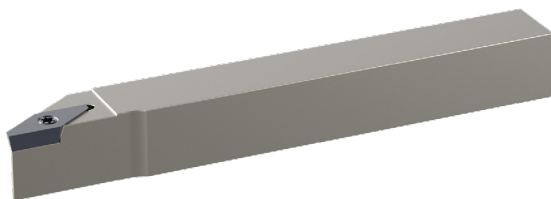
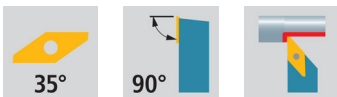
12345 Discontinued items

Ideal Cutting Materials

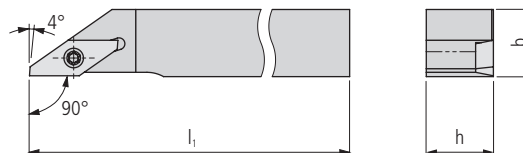
- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

SVAP...



multidec[®]
ISO top



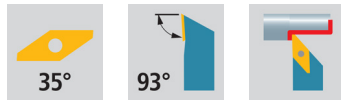
SVAP...

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁					
L	VP 10 	SVAPL 0707 H10	7005-044335	7	7	100					
		SVAPL 0708 H10	7005-043208	7	8	100					
		SVAPL 0808 F10	7005-148827	8	8	80					
		SVAPL 0808 H10	7005-044071	8	8	100					
		SVAPL 1010 F10	7005-148828	10	10	80					
		SVAPL 1010 H10	7005-044073	10	10	100					
		SVAPL 1212 H10	7005-044075	12	12	100					
R	VP 10 	SVAPR 0707 H10	7005-044334	7	7	100					
		SVAPR 0708 H10	7005-043209	7	8	100					
		SVAPR 0808 F10	7005-148825	8	8	80					
		SVAPR 0808 H10	7005-044072	8	8	100					
		SVAPR 1010 F10	7005-148826	10	10	80					
		SVAPR 1010 H10	7005-044074	10	10	100					
		SVAPR 1212 H10	7005-044076	12	12	100					

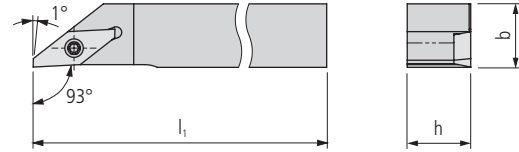
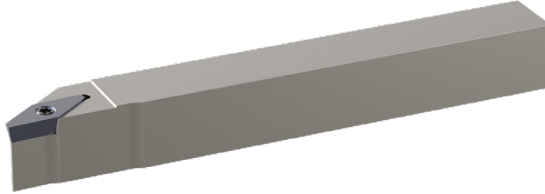
SVAP... INCH

	Compatible Cutting Edges	Utilis Description	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁					
L	VP 10 	SVAPL 3/8" F10	7005-148830	0.375	0.375	80					
		SVAPL 3/8" H10	7005-114029	0.375	0.375	100					
		SVAPL 1/2" H10	7005-114030	0.5	0.5	100					
R	VP 10 	SVAPR 3/8" F10	7005-148829	0.375	0.375	80					
		SVAPR 3/8" H10	7005-138415	0.375	0.375	100					
		SVAPR 1/2" H10	7005-138416	0.5	0.5	100					

SVJP...



multidec[®]
ISO top



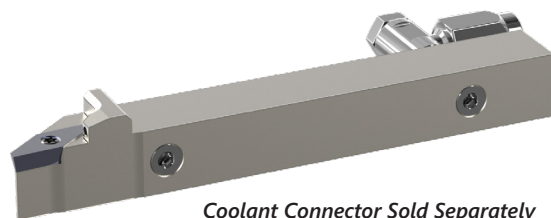
SVJP...

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁					
L		SVJPL 0708 H10	7005-043093	7	8	100					
		SVJPL 0808 F10	7005-148833	8	8	80					
		SVJPL 0808 H10	7005-043002	8	8	100					
		SVJPL 1010 F10	7005-148834	10	10	80					
		SVJPL 1010 H10	7005-043003	10	10	100					
		SVJPL 1212 H10	7005-043004	12	12	100					
		SVJPL 1616 K10	7005-043006	16	16	125					
		SVJPL 2020 K10	7005-043007	20	20	125					
R		SVJPR 0708 H10	7005-043207	7	8	100					
		SVJPR 0808 F10	7005-148831	8	8	80					
		SVJPR 0808 H10	7005-043009	8	8	100					
		SVJPR 1010 F10	7005-148832	10	10	80					
		SVJPR 1010 H10	7005-043010	10	10	100					
		SVJPR 1212 H10	7005-043011	12	12	100					
		SVJPR 1616 K10	7005-043013	16	16	125					
		SVJPR 2020 K10	7005-043014	20	20	125					

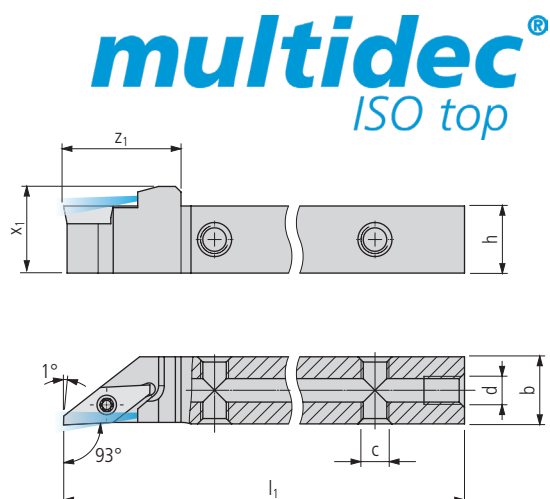
SVJP... INCH

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁					
L		SVJPL 3/8" H10	7005-114031	0.375	0.375	100					
		SVJPL 1/2" H10	7005-114032	0.5	0.5	100					
		SVJPL 5/8" K10	7005-113733	0.625	0.625	125					
		SVJPL 3/4" K10	7005-113735	0.750	0.750	125					
R		SVJPR 3/8" H10	7005-138414	0.375	0.375	100					
		SVJPR 1/2" H10	7005-127412	0.5	0.5	100					
		SVJPR 5/8" K10	7005-113732	0.625	0.625	125					
		SVJPR 3/4" K10	7005-113734	0.750	0.750	125					

SVJP... IC



Coolant Connector Sold Separately



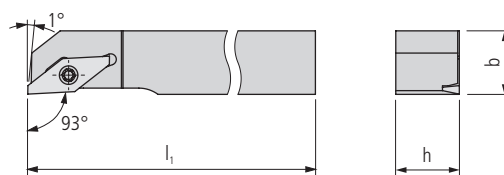
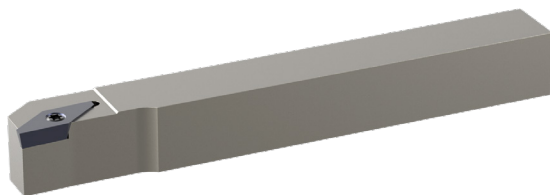
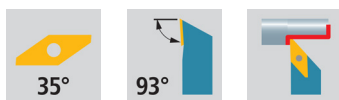
SVJP... IC

	Compatible Cutting Edges	Utilis Designation	GenSwiss Item #	Dimensions (mm)						
				h	b	l ₁	z ₁	x ₁	c	d
		SVJPL 0810 H10 IC	7005-146309	8	10	100	21	11.5	M5	M5
		SVJPL 1010 H10 IC	7005-146310	10	10	100	21	13.5	M5	M5
		SVJPL 1212 H10 IC	7005-146311	12	12	100	21	15.5	M5	M5
		SVJPL 1616 K10 IC	7005-146312	16	16	125	21	19.5	M5	G $\frac{1}{8}$ "
		SVJPL 2020 K10 IC	7005-146313	20	20	125	21	23.5	M5	G $\frac{1}{8}$ "
		SVJPR 0810 H10 IC	7005-146037	8	10	100	21	11.5	M5	M5
		SVJPR 1010 H10 IC	7005-146042	10	10	100	21	13.5	M5	M5
		SVJPR 1212 H10 IC	7005-146036	12	12	100	21	15.5	M5	M5
		SVJPR 1616 K10 IC	7005-146047	16	16	125	21	19.5	M5	G $\frac{1}{8}$ "
		SVJPR 2020 K10 IC	7005-146048	20	20	125	21	23.5	M5	G $\frac{1}{8}$ "

SVJP... IC INCH

	Compatible Cutting Edges	Utilis Designation	GenSwiss Item #	Dimensions (inch)						
				h	b	l ₁	z ₁	x ₁	c	d
		SVJPL 3/8" H10 IC	7005-146335	0.375	0.375	100	21	13	M5	M5
		SVJPL 1/2" H10 IC	7005-146336	0.5	0.5	100	21	16.2	M5	M5
		SVJPL 5/8" K10 IC	7005-146337	0.625	0.625	125	21	19.4	M5	G $\frac{1}{8}$ "
		SVJPL 3/4" K10 IC	7005-146338	0.750	0.750	125	21	22.6	M5	G $\frac{1}{8}$ "
		SVJPR 3/8" H10 IC	7005-146049	0.375	0.375	100	21	13	M5	M5
		SVJPR 1/2" H10 IC	7005-146050	0.5	0.5	100	21	16.2	M5	M5
		SVJPR 5/8" K10 IC	7005-146051	0.625	0.625	125	21	19.4	M5	G $\frac{1}{8}$ "
		SVJPR 3/4" K10 IC	7005-146334	0.750	0.750	125	21	22.6	M5	G $\frac{1}{8}$ "

SVJP... V



multidec[®]
ISO top

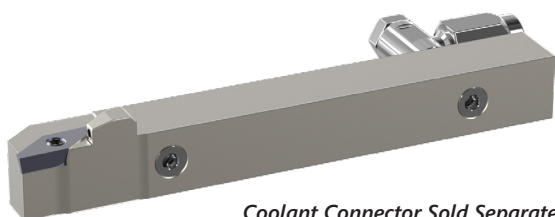
SVJP... V

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)						
				h	b	l ₁				
		SVJPL 0810 H10 V	7005-114945	8	10	100				
		SVJPL 1010 F10 V	7005-148840	10	10	80				
		SVJPL 1010 H10 V	7005-114019	10	10	100				
		SVJPL 1212 H10 V	7005-045208	12	12	100				
		SVJPL 1616 K10 V	7005-114020	16	16	125				
		SVJPL 2020 K10 V	7005-114021	20	20	125				
		SVJPR 0810 H10 V	7005-114944	8	10	100				
		SVJPR 1010 F10 V	7005-148838	10	10	80				
		SVJPR 1010 H10 V	7005-114022	10	10	100				
		SVJPR 1212 H10 V	7005-045207	12	12	100				
		SVJPR 1616 K10 V	7005-114023	16	16	125				
		SVJPR 2020 K10 V	7005-114024	20	20	125				

SVJP... V INCH

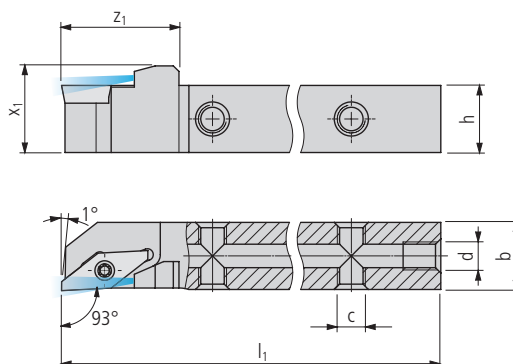
	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (inch)						
				h	b	l ₁				
		SVJPL 3/8" H10 V	7005-114027	0.375	0.375	100				
		SVJPL 1/2" H10 V	7005-114028	0.5	0.5	100				
		SVJPL 5/8" K10 V	7005-113737	0.625	0.625	125				
		SVJPL 3/4" K10 V	7005-113739	0.750	0.750	125				
		SVJPR 3/8" H10 V	7005-114025	0.375	0.375	100				
		SVJPR 1/2" H10 V	7005-114026	0.5	0.5	100				
		SVJPR 5/8" K10 V	7005-113736	0.625	0.625	125				
		SVJPR 3/4" K10 V	7005-113738	0.750	0.750	125				

SVJP... V IC



Coolant Connector Sold Separately

multidec[®]
ISO top



SVJP... V IC

	Compatible Cutting Edges pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	c	d	
L		SVJPL 0810 H10 V IC	7005-146456	8	10	100	21	11.5	M5	M5	
		SVJPL 1010 H10 V IC	7005-146457	10	10	100	21	13.5	M5	M5	
		SVJPL 1212 H10 V IC	7005-146458	12	12	100	21	15.5	M5	M5	
		SVJPL 1616 K10 V IC	7005-146459	16	16	125	21	19.5	M5	G ¹ / ₈ "	
		SVJPL 2020 K10 V IC	7005-146460	20	20	125	21	23.5	M5	G ¹ / ₈ "	
R		SVJPR 0810 H10 V IC	7005-146451	8	10	100	21	11.5	M5	M5	
		SVJPR 1010 H10 V IC	7005-146452	10	10	100	21	13.5	M5	M5	
		SVJPR 1212 H10 V IC	7005-146453	12	12	100	21	15.5	M5	M5	
		SVJPR 1616 K10 V IC	7005-146454	16	16	125	21	19.5	M5	G ¹ / ₈ "	
		SVJPR 2020 K10 V IC	7005-146455	20	20	125	21	23.5	M5	G ¹ / ₈ "	

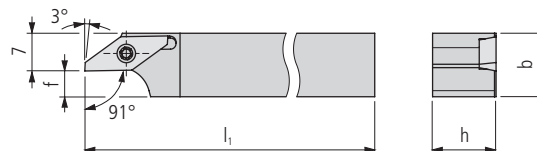
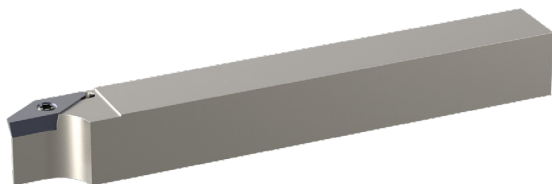
SVJP... V IC INCH

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	c	d	
L		SVJPL 3/8" H10 V IC	7005-146465	0.375	0.375	100	21	13	M5	M5	
		SVJPL 1/2" H10 V IC	7005-146466	0.5	0.5	100	21	16.2	M5	M5	
		SVJPL 5/8" K10 V IC	7005-146467	0.625	0.625	125	21	19.4	M5	G ¹ / ₈ "	
		SVJPL 3/4" K10 V IC	7005-146468	0.750	0.750	125	21	22.6	M5	G ¹ / ₈ "	
R		SVJPR 3/8" H10 V IC	7005-146461	0.375	0.375	100	21	13	M5	M5	
		SVJPR 1/2" H10 V IC	7005-146462	0.5	0.5	100	21	16.2	M5	M5	
		SVJPR 5/8" K10 V IC	7005-146463	0.625	0.625	125	21	19.4	M5	G ¹ / ₈ "	
		SVJPR 3/4" K10 V IC	7005-146464	0.750	0.750	125	21	22.6	M5	G ¹ / ₈ "	

SVXP...



multidec[®]
ISO top

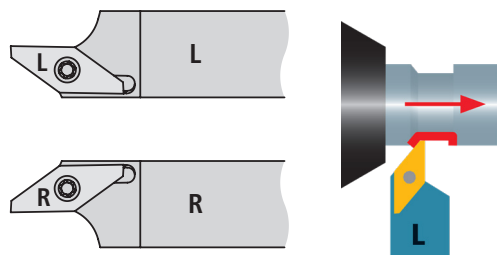


SVXP...

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)						
				h	b	l ₁	f			
		SVXPL 0808 H10	7005-044079	8	8	100	1			
		SVXPL 1010 F10	7005-148846	10	10	80	3			
		SVXPL 1010 H10	7005-044081	10	10	100	3			
		SVXPL 1212 H10	7005-044083	12	12	100	5			
		SVXPL 1616 K10	7005-044097	16	16	125	9			
		SVXPL 2020 K10	7005-044099	20	20	125	13			
		SVXPR 0808 H10	7005-044080	8	8	100	1			
		SVXPR 1010 F10	7005-148844	10	10	80	3			
		SVXPR 1010 H10	7005-044082	10	10	100	3			
		SVXPR 1212 H10	7005-044084	12	12	100	5			
		SVXPR 1616 K10	7005-044098	16	16	125	9			
		SVXPR 2020 K10	7005-044100	20	20	125	13			

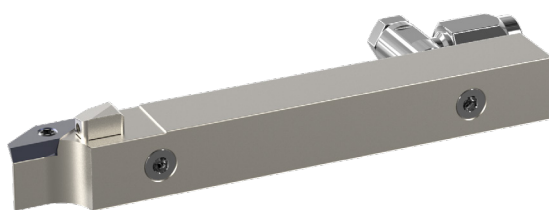
SVXP... INCH

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (inch)						
				h	b	l ₁	f			
		SVXPL 3/8" H10	7005-114033	0.375	0.375	100	2.5			
		SVXPL 1/2" H10	7005-114034	0.5	0.5	100	5.7			
		SVXPL 5/8" K10	7005-113741	0.625	0.625	125	8.9			
		SVXPL 3/4" K10	7005-113743	0.750	0.750	125	12			
		SVXPR 3/8" H10	7005-114035	0.375	0.375	100	2.5			
		SVXPR 1/2" H10	7005-114036	0.5	0.5	100	5.7			
		SVXPR 5/8" K10	7005-113740	0.625	0.625	125	8.8			
		SVXPR 3/4" K10	7005-113742	0.750	0.750	125	12			



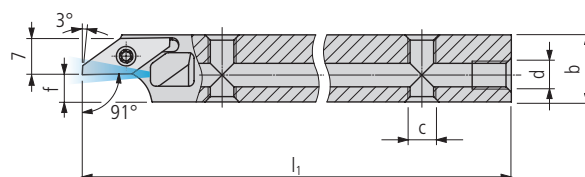
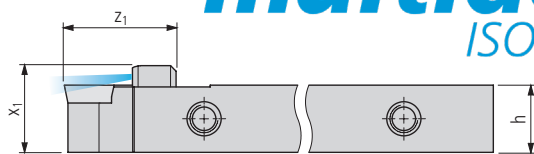
Usage note:
A left-hand holder with a left-hand cutting edge is required for back turning on a right-hand-rotating Swiss-type automatic lathe.

SVXP... IC



Coolant Connector Sold Separately

multidec[®]
ISO top

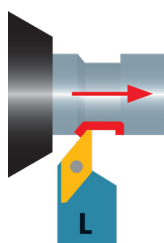
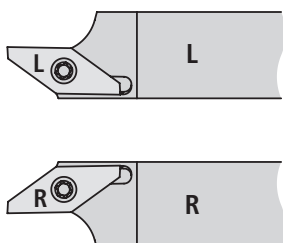


SVXP... IC

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	f	c	d
		SVXPL 1010 H10 IC	7005-146330	10	10	100	20	13.5	3	M5	M5
		SVXPL 1212 H10 IC	7005-146331	12	12	100	20	15.5	5	M5	M5
		SVXPL 1616 K10 IC	7005-146332	16	16	125	20	19.5	9	M5	G ¹ / ₈ "
		SVXPL 2020 K10 IC	7005-146333	20	20	125	20	23.5	13	M5	G ¹ / ₈ "
		SVXPR 1010 H10 IC	7005-146325	10	10	100	20	13.5	3	M5	M5
		SVXPR 1212 H10 IC	7005-146326	12	12	100	20	15.5	5	M5	M5
		SVXPR 1616 K10 IC	7005-146327	16	16	125	20	19.5	9	M5	G ¹ / ₈ "
		SVXPR 2020 K10 IC	7005-146328	20	20	125	20	23.5	13	M5	G ¹ / ₈ "

SVXP... IC INCH

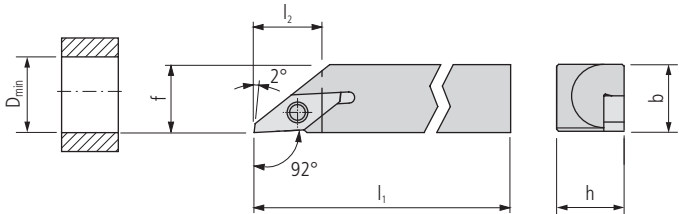
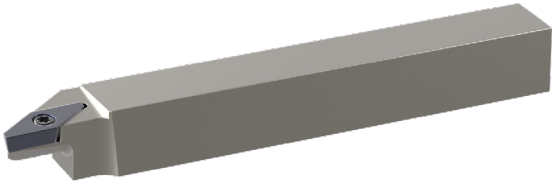
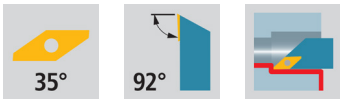
	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	f	c	d
		SVXPL 3/8" H10 IC	7005-146404	0.375	0.375	100	20	13	2.5	M5	M5
		SVXPL 1/2" H10 IC	7005-146405	0.5	0.5	100	20	16.2	5.7	M5	M5
		SVXPL 5/8" K10 IC	7005-146408	0.625	0.625	125	20	19.4	8.8	M5	G ¹ / ₈ "
		SVXPL 3/4" K10 IC	7005-146406	0.750	0.750	125	20	22.6	12	M5	G ¹ / ₈ "
		SVXPR 3/8" H10 IC	7005-146400	0.375	0.375	100	20	13	2.5	M5	M5
		SVXPR 1/2" H10 IC	7005-146401	0.5	0.5	100	20	16.2	5.7	M5	M5
		SVXPR 5/8" K10 IC	7005-146402	0.625	0.625	125	20	19.4	8.8	M5	G ¹ / ₈ "
		SVXPR 3/4" K10 IC	7005-146403	0.750	0.750	125	20	22.6	12	M5	G ¹ / ₈ "



Usage note:

A left-hand holder with a left-hand cutting edge is required for back turning on a right-hand-rotating Swiss-type automatic lathe.

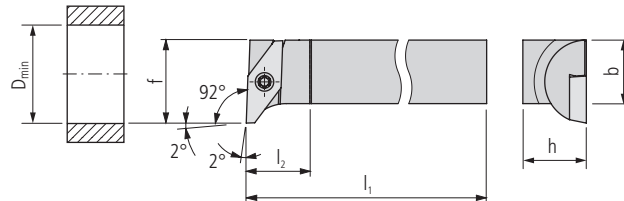
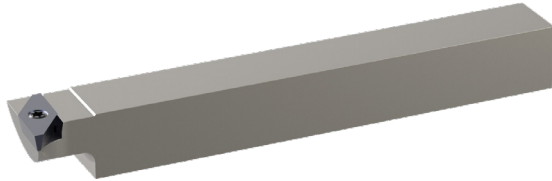
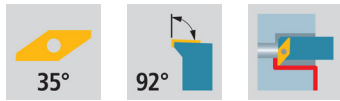
SVJP... X



	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l_1	l_2	f	D_{min}		
L	VP 10	SVJPL 1212 XH10	7005-043108	12	12	100	12	12.2	16		
		SVJPL 1616 XK10	7005-043210	16	16	125	12	16.2	16		
R	VP 10	SVJPR 1212 XH10	7005-043109	12	12	100	12	12.2	16		
		SVJPR 1616 XK10	7005-043211	16	16	125	12	16.2	16		

SVUP... X

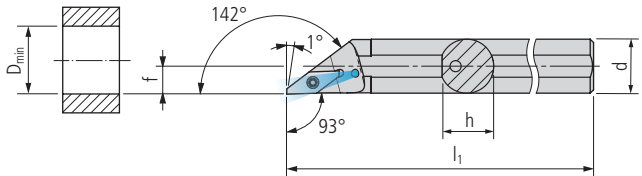
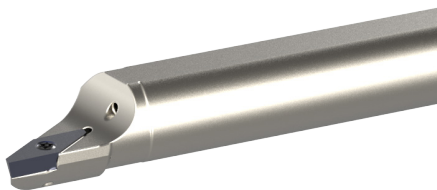
multidec[®]
ISO top



	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	l ₂	f	D _{min}		
L	VP 10 	SVUPL 1212 XH10	7005-044057	12	12	100	12	15.7	17		
		SVUPL 1616 XK10	7005-044059	16	16	125	12	15.7	17		
R	VP 10 	SVUPR 1212 XH10	7005-044058	12	12	100	12	15.7	17		
		SVUPR 1616 XK10	7005-044060	16	16	125	12	15.7	17		

NOTE:
Right hand holder needs left hand insert

A... SVJP



A... SVJP

	Compatible Cutting Edges Pg 106	Utilis Designation	GenSwiss Item #	Dimensions (mm)						
				d	h	l ₁	f	D _{min}		
L	VP 10	A16M SVJPL 10	7005-044348	16	15.3	150	8.3	20		
R	VP 10	A16M SVJPR 10	7005-044349	16	15.3	150	8.3	20		

Replacement and spare parts



For holders (SV.P...) OD turning

		Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screw	M2 × 5.5 T06	MSP 20055 T06	7005-127518	SV.P...10
	Screw Plug	M5	MSP VSR M5 IB2.5	7005-150262	SV.P... IC
		G1/8"	MSP VSR G1/8 IB5	7005-153989	

For holders (...SV...) ID turning

		Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screw	M2.5 × 6 T08	MSP 25060 T08	7005-127518	A...SV.P... 10

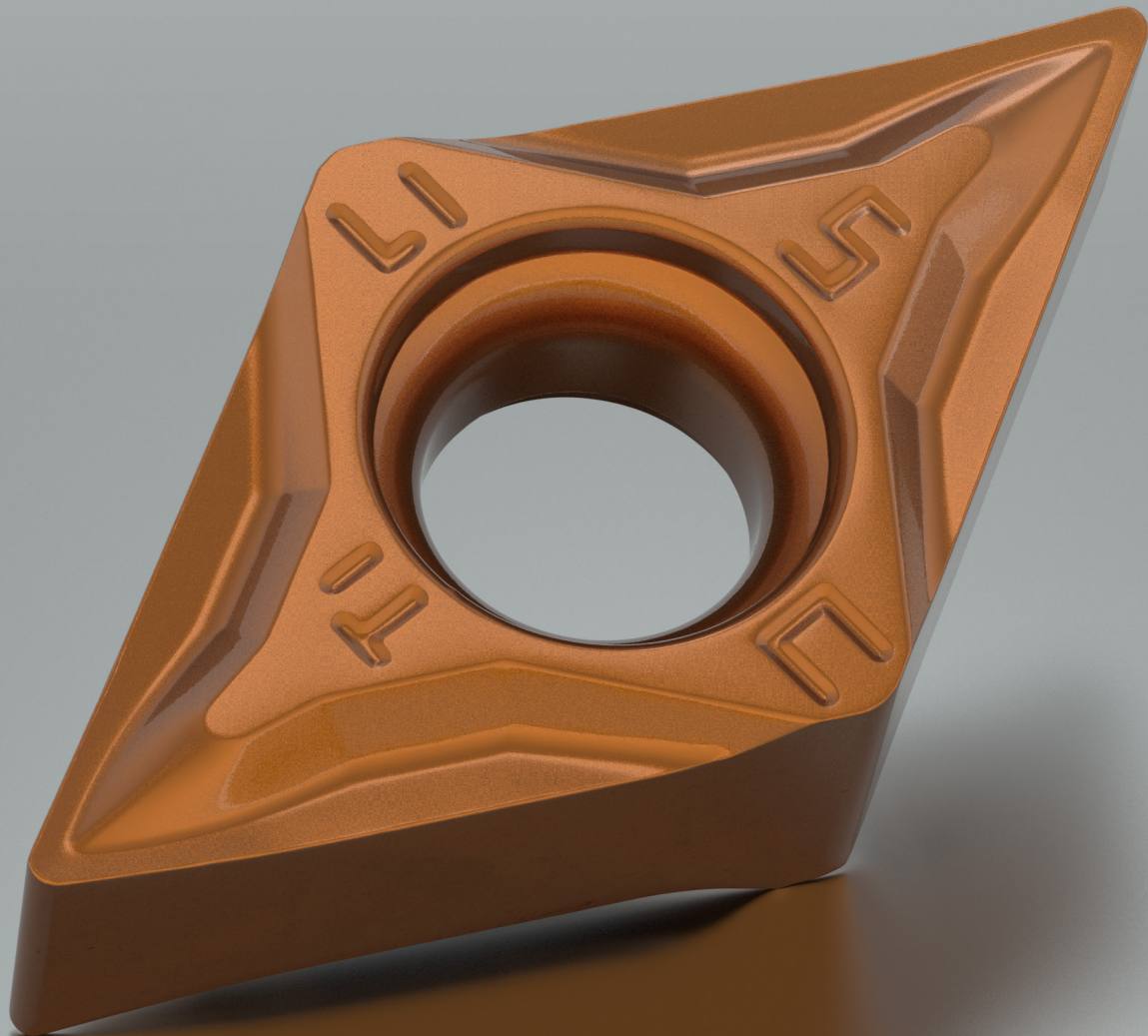
TORX screwdriver

		Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screwdriver	T08	MSP TX08	127520	M... T08

multidec[®]

ISOx4

- Negative ISO inserts with positive cut
- Twice as many cutting edges as a positive ISO insert
- Stable screw clamping
- Optimized for the machining of stainless steel, titanium and exotic materials
- Excellent chip control allowing high feed rate and large cutting depth
- Holder with "IC" internal coolant supply for optimizing tool life



The multidec® -ISOx4 system

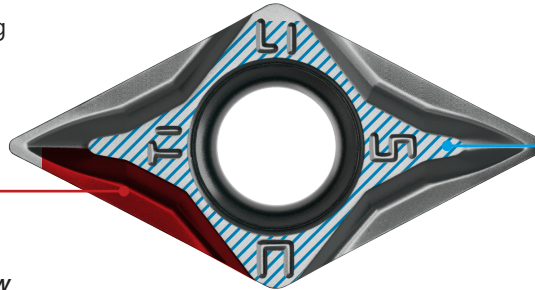
multidec®
ISOx4

multidec® -ISOx4

Negative indexable inserts have several specific advantages over positive inserts, particularly in terms of stability and cost-effectiveness.

Advantages at a glance

The 7° positioning angle of insert clamping provides a highly efficient chip breaker even at high cutting depth.



Increased stability thanks to a large contact surface that extends very close to the cutting edge.

High clamping force thanks to direct screw connection.

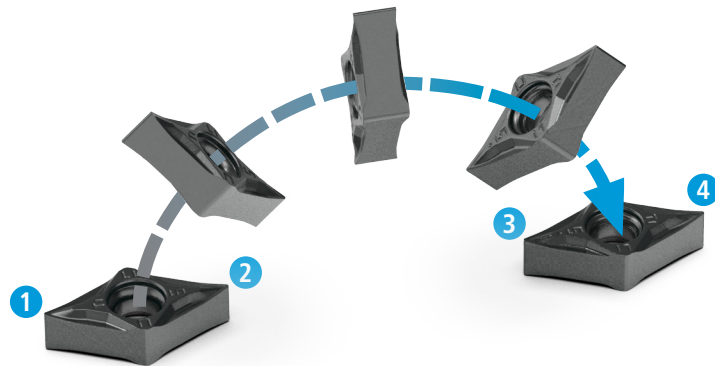


Countersunk screw head avoids conflict with chip outflow.

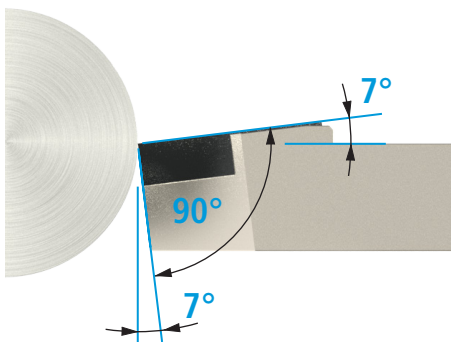


Can be used 4 times

The indexable insert has twice as many cutting edges as a positive ISO indexable insert.

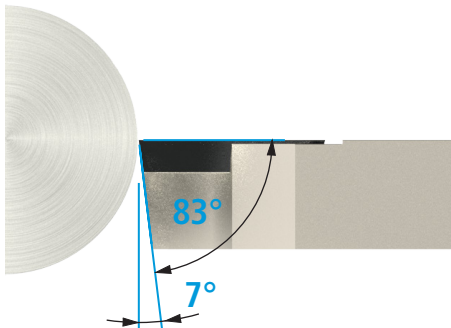


Characteristics of negative and positive indexable inserts



Negative indexable insert

- Double sided
- High cutting edge stability
- Increased stability thanks to the 7° positioning angle of the insert



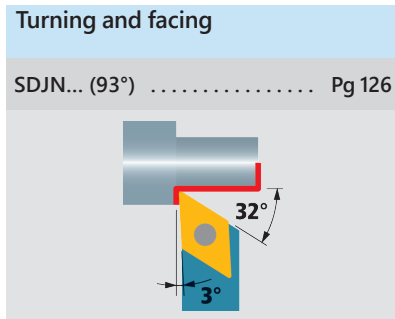
Positive indexable insert

- One sided
- Low cutting force
- Side clearance allow machining in all directions
- First choice for ID and OD turning of small parts

Application Overview - DN 55°



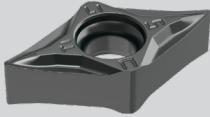
Application OD turning



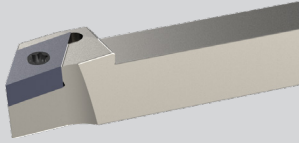
Overview - type DN 55°

multidec[®]
ISOx4

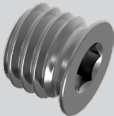
Indexable Inserts

Carbide		
	DNGU	PG 124

Holders

Square Holder		
	SDJN	PG 126

Replacement and Spare Parts

		PG 128
---	--	--------

DNGU ... -A4

Carbide

multidec[®]
ISOx4

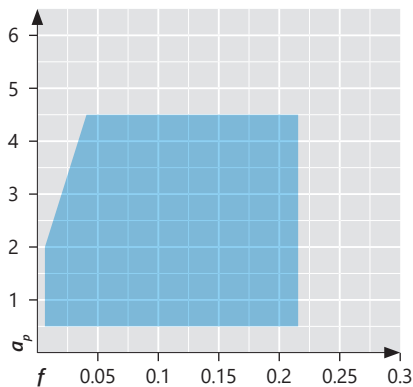


Coated	Uncoated
•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•
•	•

Cutting Edge	Size	R	Utilis Designation	UHM20 HPX	UHM20 TX+	UHM20	
GenSwiss Item #							
		0.08	DNGU 1104008 FN -A4 ...	7005-191910	7005-192487	7005-191909	
		0.15	DNGU 1104015 FN -A4 ...	7005-191049	7005-185274	7005-191048	
		0.35	DNGU 1104035 FN -A4 ...	7005-126958	7005-126957	7005-126956	

Application range

a_p (mm)/ f (mm/U)



v_c (m/min)

	Coated	Uncoated
P	80–160	70–150
M	70–140	–
K	90–150	80–140
N	150–300	140–280
S	50–90	–
H	40–60	–

Availability

12345 Standard items

12345 Standard items, new in this catalog

12345 Discontinued items

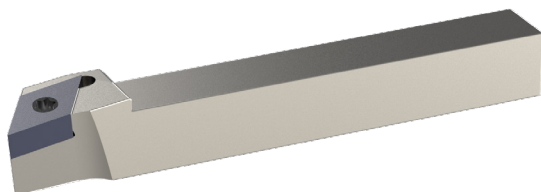
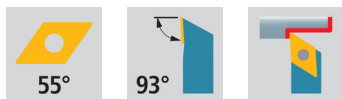
Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

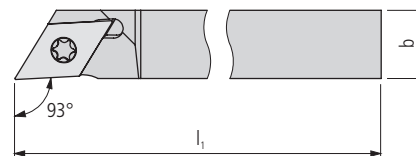
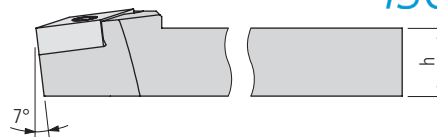
P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings present.

SDJN...



multidec[®]
ISOx4



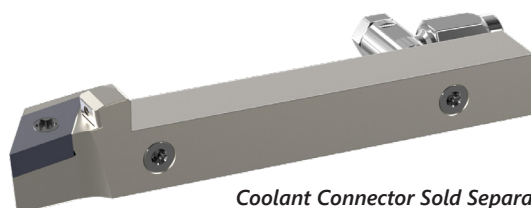
SDJN...

	Compatible Cutting Edges Pg 124	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁					
		SDJNL 1012 F11	7005-148808	10	12	80					
		SDJNL 1012 H11	7005-127479	10	12	100					
		SDJNL 1212 H11	7005-127418	12	12	100					
		SDJNL 1616 K11	7005-127419	16	16	125					
		SDJNL 2020 K11	7005-127480	20	20	125					
		SDJNL 2525 M11	7005-138578	25	25	150					
		SDJNR 1012 F11	7005-148807	10	12	80					
		SDJNR 1012 H11	7005-127476	10	12	100					
		SDJNR 1212 H11	7005-126959	12	12	100					
		SDJNR 1616 K11	7005-126960	16	16	125					
		SDJNR 2020 K11	7005-127477	20	20	125					
		SDJNR 2525 M11	7005-138580	25	25	150					

SDJN... INCH

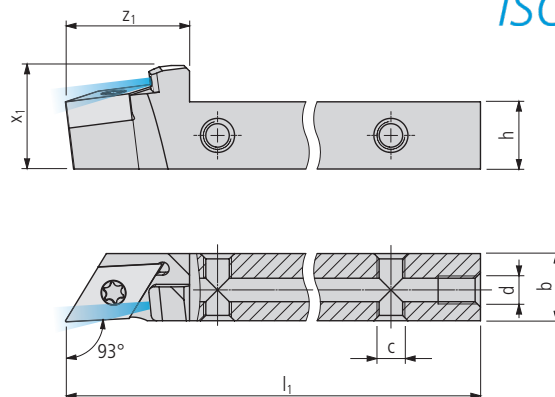
	Compatible Cutting Edges Pg 124	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁					
		SDJNL 3/8" F11	7005-148810	0.375	0.375	80					
		SDJNL 3/8" H11	7005-113722	0.375	0.375	100					
		SDJNL 1/2" H11	7005-113724	0.5	0.5	100					
		SDJNL 5/8" K11	7005-113726	0.625	0.625	125					
		SDJNL 3/4" K11	7005-113728	0.750	0.750	125					
		SDJNR 3/8" F11	7005-148809	0.375	0.375	80					
		SDJNR 3/8" H11	7005-113723	0.375	0.375	100					
		SDJNR 1/2" H11	7005-113725	0.5	0.5	100					
		SDJNR 5/8" K11	7005-113727	0.625	0.625	125					
		SDJNR 3/4" K11	7005-113729	0.750	0.750	125					

SDJN... IC



Coolant Connector Sold Separately

multidec[®]
ISOx4



SDJN... IC

	Compatible Cutting Edges Pg 124	Utilis Designation	GenSwiss Item #	Dimensions (mm)							
				h	b	l ₁	z ₁	x ₁	c	d	
L	DN 11	SDJNL 1012 H11 IC	7005-146389	10	12	100	22	16.5	M5	M5	
		SDJNL 1212 H11 IC	7005-146390	12	12	100	22	18.5	M5	M5	
		SDJNL 1616 K11 IC	7005-146391	16	16	125	22	22.5	M5	G $\frac{1}{8}$ "	
		SDJNL 2020 K11 IC	7005-146392	20	20	125	22	26.5	M5	G $\frac{1}{8}$ "	
		SDJNL 2525 K11 IC	7005-146393	25	25	125	22	31.5	M5	G $\frac{1}{8}$ "	
R	DN 11	SDJNR 1012 H11 IC	7005-146386	10	12	100	22	16.5	M5	M5	
		SDJNR 1212 H11 IC	7005-146038	12	12	100	22	18.5	M5	M5	
		SDJNR 1616 K11 IC	7005-146064	16	16	125	22	22.5	M5	G $\frac{1}{8}$ "	
		SDJNR 2020 K11 IC	7005-146387	20	20	125	22	26.5	M5	G $\frac{1}{8}$ "	
		SDJNR 2525 K11 IC	7005-146388	25	25	125	22	31.5	M5	G $\frac{1}{8}$ "	

SDJN... IC INCH

	Compatible Cutting Edges Pg 124	Utilis Designation	GenSwiss Item #	Dimensions (inch)							
				h	b	l ₁	z ₁	x ₁	c	d	
L	DN 11	SDJNL 3/8" H11 IC	7005-146398	0.375	12.0	100	22	16	M5	M5	
		SDJNL 1/2" H11 IC	7005-146399	0.5	0.5	100	22	19.2	M5	M5	
		SDJNL 5/8" K11 IC	7005-146409	0.625	0.625	125	22	22.4	M5	G $\frac{1}{8}$ "	
		SDJNL 3/4" K11 IC	7005-146410	0.750	0.750	125	22	25.5	M5	G $\frac{1}{8}$ "	
R	DN 11	SDJNR 3/8" H11 IC	7005-146394	0.375	12.0	100	22	16	M5	M5	
		SDJNR 1/2" H11 IC	7005-146395	0.5	0.5	100	22	19.2	M5	M5	
		SDJNR 5/8" K11 IC	7005-146396	0.625	0.625	125	22	22.4	M5	G $\frac{1}{8}$ "	
		SDJNR 3/4" K11 IC	7005-146397	0.750	0.750	125	22	25.5	M5	G $\frac{1}{8}$ "	

Replacement and spare parts



For holders (SDJIN...) OD turning

		Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screw	M4 × 11 TP15	MSP 40110 TP15	7005-127481	SDJN... 11
	Screw Plug	M5	MSP VSR M5 IB2.5	7005-150262	SDJN... IC
		G1/8"	MSP VSR G1/8 IB5	7005-153989	

		Dimensions	Utilis Designation	GenSwiss Item #	Holders
	TORX Screwdriver	T15	MSP TX15	7005-127482	M... TP15
		TP15	MSP TXP15 Torx Plus	7005-127904	M... TP15

Designation System (ISO 1832)

multidec[®]
ISOx4

Form of Insert			Clearance Angle			Tolerance			Distinctive Mark	
Index	α		Index	α		Index	$s \pm$	$d \pm$	Index	
C	80°		C	7°		E	0.025	0.025	W	
D	55°		N	0°		G	0.13	0.025	T	
V	35°		P	11°		M	0.13	0.05-0.15*	U	
						X	0.1	0.04	X/Z	

* Dependent on dimension of insert

DCGT 0702015 FN - A3 UHM20 HPX

Chip Breaker

Pg 10...

Grade

Pg 5

Edge Length			
Index	$\approx l$	d	
06	6	6.35	$C = 80^\circ$
09	9	9.53	
12	12	12.7	
07	7	6.35	$D = 55^\circ$
11	11	9.53	
07	7	3.97	$V = 35^\circ$
11	11	6.35	
16	16	9.53	
10*	10	6.35	$V = 35^\circ$

Insert Thickness		
Index	s	
02	2.38	
03	3.18	
T3	3.97	
04	4.76	

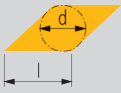
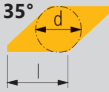
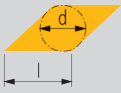
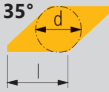
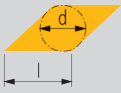
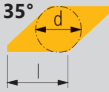
Corner Radius	
Index	R
00/ZZ	0
003	0.03
006	0.06
008	0.08
01	0.1
015	0.15
02	0.2
035	0.35
04	0.4
075	0.75
08	0.8

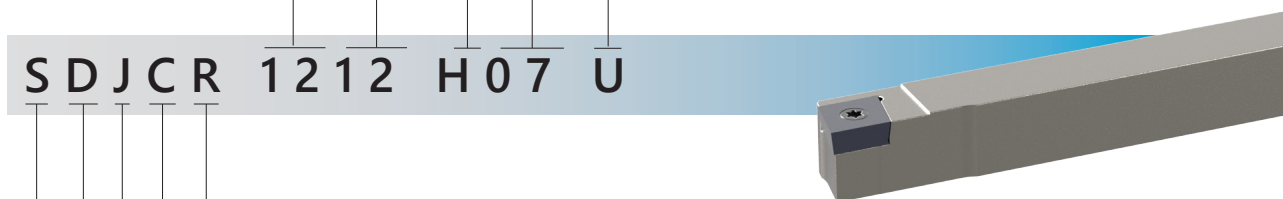
Edge Condition	
Index	
F	Sharp
E	Rounded

Cutting Direction		
Index		
L	Left	
N	Neutral	
R	Right	

Designation System (ISO 4983)

multidec[®]
ISO

Shank height	Shank width	Holder Length	Edge Length	Special Shape																																																									
h_1/h_2	b	<table><tr><th>Index</th><th>l_1</th><th></th></tr><tr><td>D</td><td>60</td><td rowspan="7"></td></tr><tr><td>E</td><td>70</td></tr><tr><td>F</td><td>80</td></tr><tr><td>H</td><td>100</td></tr><tr><td>K</td><td>125</td></tr><tr><td>M</td><td>150</td></tr><tr><td>X</td><td></td></tr></table>	Index	l_1		D	60		E	70	F	80	H	100	K	125	M	150	X		<table><tr><th>Index</th><th>$\approx l$</th><th>d</th><th></th></tr><tr><td>06</td><td>6</td><td>6.35</td><td rowspan="3">$C = 80^\circ$ </td></tr><tr><td>09</td><td>9</td><td>9.53</td></tr><tr><td>12</td><td>12</td><td>12.7</td></tr><tr><td>07</td><td>7</td><td>6.35</td><td rowspan="2">$D = 55^\circ$ </td></tr><tr><td>11</td><td>11</td><td>9.53</td></tr><tr><td>07</td><td>7</td><td>3.97</td><td rowspan="2">$V = 35^\circ$ </td></tr><tr><td>11</td><td>11</td><td>6.35</td></tr><tr><td>16</td><td>16</td><td>9.59</td><td rowspan="2">$V = 35^\circ$ </td></tr><tr><td>10*</td><td>10</td><td>6.35</td></tr></table>	Index	$\approx l$	d		06	6	6.35	$C = 80^\circ$ 	09	9	9.53	12	12	12.7	07	7	6.35	$D = 55^\circ$ 	11	11	9.53	07	7	3.97	$V = 35^\circ$ 	11	11	6.35	16	16	9.59	$V = 35^\circ$ 	10*	10	6.35	<table><tr><th>Index</th><th></th></tr><tr><td>U</td><td>For Swiss-type automatic lathes</td></tr></table>	Index		U	For Swiss-type automatic lathes
Index	l_1																																																												
D	60																																																												
E	70																																																												
F	80																																																												
H	100																																																												
K	125																																																												
M	150																																																												
X																																																													
Index	$\approx l$	d																																																											
06	6	6.35	$C = 80^\circ$ 																																																										
09	9	9.53																																																											
12	12	12.7																																																											
07	7	6.35	$D = 55^\circ$ 																																																										
11	11	9.53																																																											
07	7	3.97	$V = 35^\circ$ 																																																										
11	11	6.35																																																											
16	16	9.59	$V = 35^\circ$ 																																																										
10*	10	6.35																																																											
Index																																																													
U	For Swiss-type automatic lathes																																																												



Clamping		
Index		
S	Screwed	

Form of Insert	
Index	α
C	80°
D	55°
V	35°

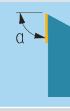
	
--	---

Clearance Angle	
Index	α
C	7°
N	0°
P	11°

	
--	---

Cutting Direction		
Index		
L	Left	
N	Neutral	
R	Right	

Holder Form												
Index	α		Index	α		Index	α		Index	α		
												

Holder Form											
Index	α		Index	α		Index	α		Index	α	
A	90°		J	93°		P	117.5°		V	72.5°	
D	45°		L	95°		Q*	93°		X	Special shape	
H	107.5°		N	62.5°		U	93°				

* UTILIS Standard

Designation System (ISO 8024)

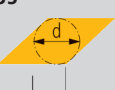
multidec[®]
ISO

Shank Execution	
Index	
A	Steel shank with internal cooling

Shank Diameter	
	d_1
	

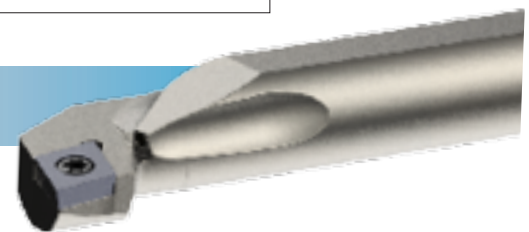
Holder Length		
Index	l_1	
F	80	
H	100	
K	125	
M	150	
Q	180	
R	200	
S	250	
T	300	
X...		



Edge Length			
Index	$\approx l$	d	
06	6	6.35	$C = 80^\circ$ 
09	9	9.53	
12	12	12.7	
07	7	6.35	$D = 55^\circ$ 
11	11	9.53	
07	7	3.97	$V = 35^\circ$ 
11	11	6.35	
16	16	9.53	$V = 35^\circ$ 
10*	10	6.35	

* UTILIS Standard

A 12 K S D U C R 07



Clamping	
Index	
S	

Form of Insert		
Index	α	
C	80°	
D	55°	
V	35°	

Clearance Angle		
Index	α	
C	7°	
N	0°	
P	11°	

Cutting Direction		
Index		
L	Left	
N	Neutral	
R	Right	

Holder Form							
Index	α		Index	α		Index	α
F	90°		L	95°		Q	107.5°
D	45°		O	95°		U	93°
J	93°		Q*	92°		X	Special shape

* UTILIS Standard

[illegible]

Index of Designations



A

A... SCFC...	34
A... SCLC...	35
A... SDOC...	66
A... SDQC...	67
A... SDUC...	68
A... SVJP	118
A... SVOC...	98
A... SVQC...	99
A... SVUC...	100

C

CCGT ... FN	27
CCGT ... -PA6	21
CCGT ... -PA7	20
CCGT ... -PF23	18
CCGT ... -PF23 – CERMET	26
CCGT ... -PF33	19
CCGT ... -UWN	29
CCGT ... -UWS	28
CCMT ... -M18R	24
CCMT ... -PF43	22
CCMT ... -S07	25
CCMT ... -S12	23

D

DCGT ... -A3	46
DCGT ... FN	53
DCGT ... -PA6	45
DCGT ... -PA7	44
DCGT ... -PF	42
DCGT ... -PF05	43

DCGT ... -PF23	40
DCGT ... -PF23 – CERMET	51
DCGT ... -PF33	41
DCGT ... -UWN	55
DCGT ... -UWS	54
DCGW ... FN	52
DCMT ... -M18R	49
DCMT ... -PF43	47
DCMT ... -S07	50
DCMT ... -S12	48
DNGU ... -A4	124

S

SCAC... U	31
SCLC... U	32
SCLC... U IC	33
SDAC... U	57
SDHC... U	60
SDHC... U IC	61
SDJC... U	58
SDJC... U IC	59
SDJN...	126
SDJN... IC	127
SDNCN ... U	64
SDNCN ... U IC	65
SDNC... U	62
SDNC... U IC	63
SVAC... U	85
SVAP...	109
SVHC... U	88
SVHC... U IC	89
SVJC... U	86
SVJC... U IC	87
SVJP...	110

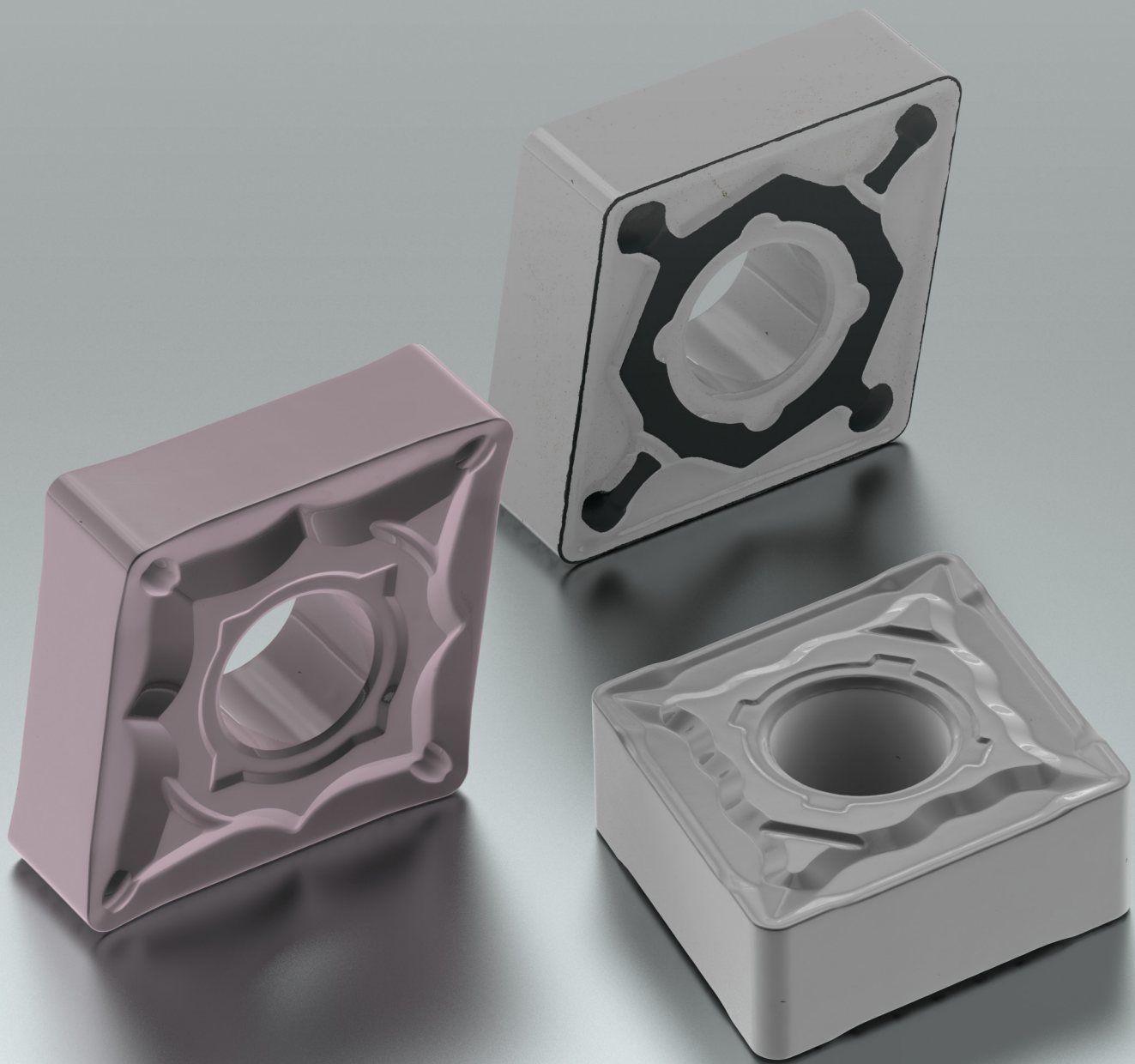
SVJP... IC	111
SVJP... V	112
SVJP... V IC	113
SVJP... X	116
SVPC... U	90
SVPC... U IC	91
SVQC...	93
SVUC...	92
SVUP... X	117
SVVCN ... U	94
SVVCN ... U IC	95
SVXC... U	96
SVXC... U IC	97
SVXP...	114
SVXP... IC	115

V

VCGT ... -A3	77
VCGT ... FN	81
VCGT ... -PA6	76
VCGT ... -PA7	75
VCGT ... -PF05	74
VCGT ... -PF23	72
VCGT ... -PF23 – CERMET	79
VCGT ... -PF33	73
VCGT ... -UWN	83
VCGT ... -UWS	82
VCGW ... FN	80
VCMT ... -PF43	78
VPET ... TOP	106
VPGT ... TOP	107
VPXT ... TOP	108

multidec[®]
ISO turn

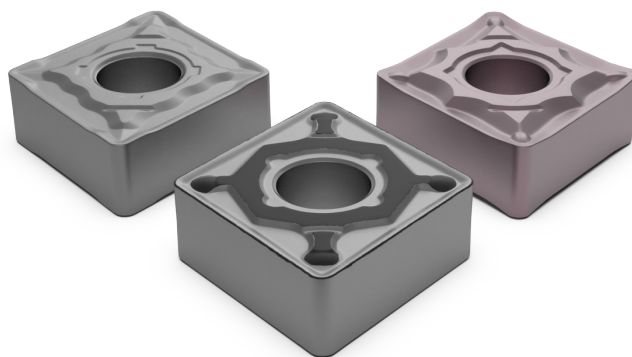
**Negative ISO
indexable inserts**



Negative ISO indexable inserts from multidec®

multidec®
ISO turn

The negative indexable inserts according to ISO standard are universal and usable for precision cutting work. Available in CNMG, DNMG and WNMG versions, they provide optimum cutting conditions thanks to having three different geometries. Our indexable inserts are characterized by having outstanding wear resistance and stability, which makes efficient machining of different materials possible. This is ideal for users who place value on reliable and flexible cutting.



LEGEND

Symbols for tool characteristics and tool applications

	Tool material Carbide		Geometry FE = Finishing		Application For steels
	Form of insert Example: 80°		MN = Medium Normal machining		For Stainless steels
	Tolerance class Class M (sintered)		RV = Roughing		

Categorization of materials

The application data for multidec® tools is defined for specific material groups. All machinable materials are classified using a standardized color-coding system that is applied consistently throughout the entire catalog.

Order Designation	Coated
To the designation of the selected type of product, the desired grade code must be added.	
	UMP30A1
DNMG 11040 MN1...	7005-560870

Order using GenSwiss
Item #: 7005-560870

Utilis Designation:
DNMG 110404 MN1 UMP30A1

Ideal Cutting Materials

- Preferred Application
- Possible Application
- Application Not Recommended

P	Steel
M	Stainless steel
K	Cast iron
N	Non-ferrous metals
S	High-alloy materials
H	Hard materials

Dimensions

All dimensions are in millimeter (mm).

OVERVIEW

multidec[®]
ISO turn

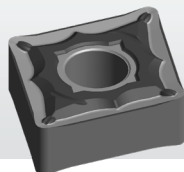
General information

Legend

PG135

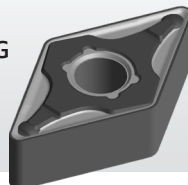
Information about the indexable inserts

CNMG



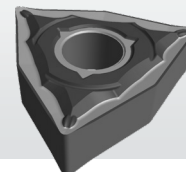
PG 137

DNMG



PG 138

WNMG



PG139

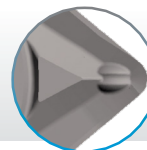
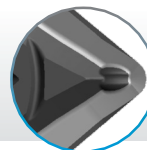
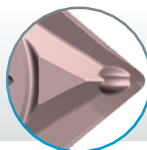
Success Stories

PG 140

Designation key

PG 141

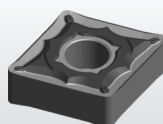
*Application diagram
and grades*



PG 142

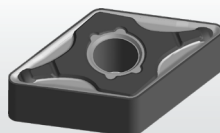
Indexable inserts

CNMG... 80°



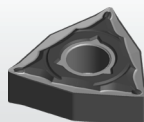
PG 143-144

DNMG... 55°



PG 145-146

WNMG... 80°



PG 147-148

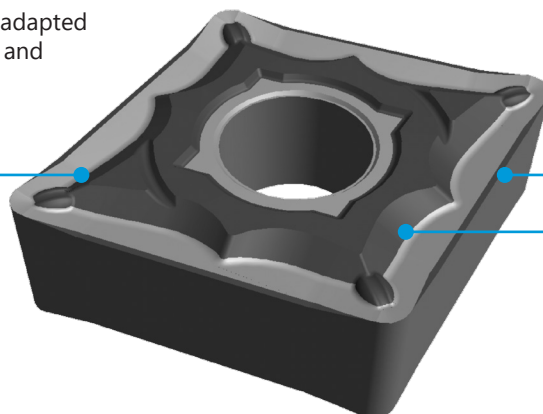
Information about the CNMG indexable insert

multidec[®]
ISO turn

- CNMG 1204 and CNMG 1606
- Corner radius: 0.4, 0.8 and 1.2 mm
- 6 carbide grades with different toughness and different coatings

Overview of CNMG

Special CVD and PVD layers and adapted chip former for machining ISO-P and ISO-M materials.

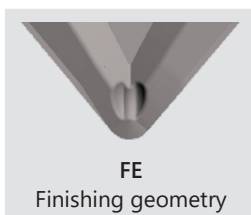


Cutting edge in accordance with EN = rounded

Coordinated substrate & coating, toughness of:
– 15, 25 and 35 with steel grades
– 20, 30 and 40 with grades for stainless materials

Geometries

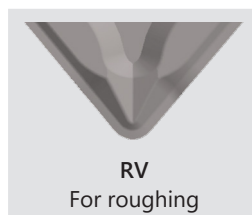
Geometries for steels



FE
Finishing geometry



MN
For medium machining



RV
For roughing

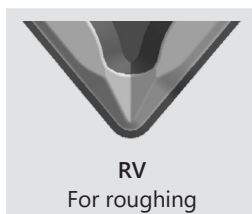
Geometries for stainless steels



FE
Finishing geometry



MN
For medium machining



RV
For roughing

Applications

- Turning
- Roughing with RV geometry of up to $a_p = 6$ mm
- Medium machining with the MN geometry
- Finishing with the FE geometry
- Versatile use in mechanical engineering, aerospace, defense, medical engineering and more

Advantages

- Outstanding process reliability due to optimum chip breaking, therefore no machine downtimes caused by “birds nesting”
- Wide range of substrates and coatings for covering all application areas
- High surface quality by finishing

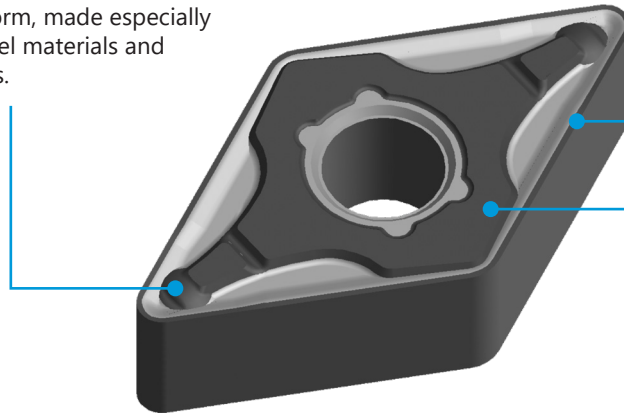
Information about the DNMG indexable insert

- DNMG 1104, DNMG 1504 and DNMG 1506
- Corner radius: 0.4, 0.8 and 1.2 mm
- 4 carbide grades with different toughness and different coatings

multidec[®]
ISO turn

Overview of DNMG

Optimized chip form, made especially for machining steel materials and stainless materials.

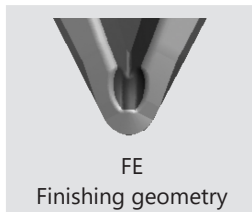


Cutting edge in accordance with EN = rounded

Coordinated substrate & coating, toughness of:
– 15 and 25 with steel grades
– 20 and 30 with grades for stainless materials

Geometries

Geometries for steels

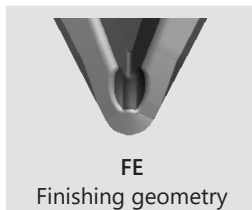


FE
Finishing geometry

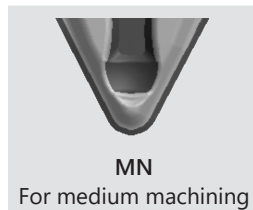


MN
For medium machining

Geometries for stainless steels



FE
Finishing geometry



MN
For medium machining

Applications and advantages

- Turning
- Optimized chip former breaks the chips, even during finishing
- Medium machining with the MN geometry
- Finishing with the FE geometry
- Versatile use in mechanical engineering, aerospace, defense, medical engineering and more

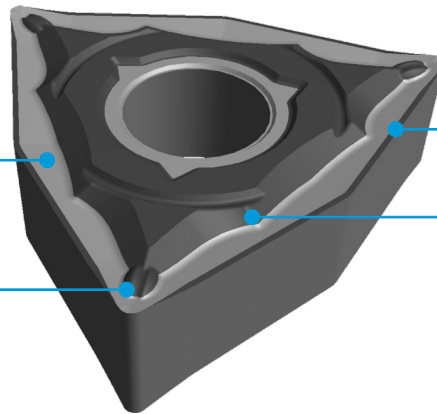
Information about the WNMG indexable insert

multidec[®]
ISO turn

- WNMG 0604 and WNMG 0804
- Corner radius: 0.4, 0.8 and 1.2 mm
- 4 carbide grades with different toughness and coatings

Overview of WNMG

Special CVD and PVD layers and adapted chip former for machining ISO-P and ISO-M materials.



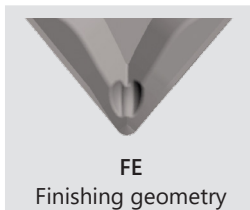
Cutting edge in accordance with EN = rounded

Optimized chip former, specially for machining steel materials and stainless materials.

Coordinated substrate & coating, toughness of:
– 15 and 25 with steel grades
– 30 and 40 with grades for stainless materials

Geometries

Geometries for Steels



Geometries for Stainless Steel



Applications and advantages

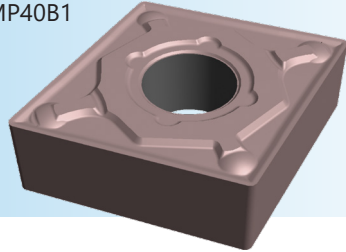
- Turning
- Specially developed chip breaker provides clean and controlled chip formation, even during finishing operations
- Efficient machining with medium cutting thanks to MN geometry
- High surface quality due to FE geometry during precision machining
- Versatile use in mechanical engineering, aerospace, defense, medical engineering, and more

Success Stories

multidec[®]
ISO turn

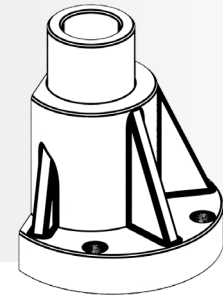
Customer test: Machining of a housing

Indexable insert:
CNMG 120408 MN1 UMP40B1

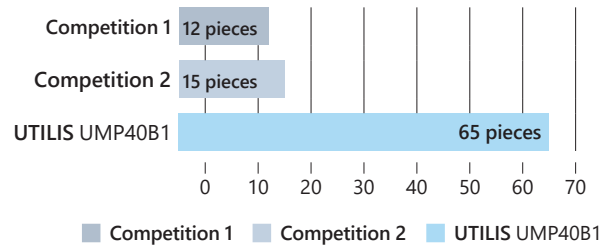


Material:
ISO-M / X2CrNi18-9 (1.4307)

Strength:
280 HB



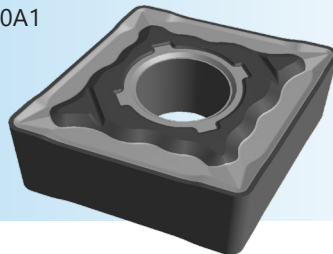
Cutting specification	Competition 1	Competition 2	UTILIS UMP40B1
v_c [m/min]	130	130	130
f [mm/U]	0.13	0.13	0.13
n [U/min-1]	1380	1380	1380
a_p [mm]	1.5	1.5	1.5
T [mm]	from Ø30 to Ø25 mm		
Tool life [Stck.]	12	15	65



65 components were manufactured, and the CNMG 120408 MN1 UMP40B1 insert showed almost no signs of wear.

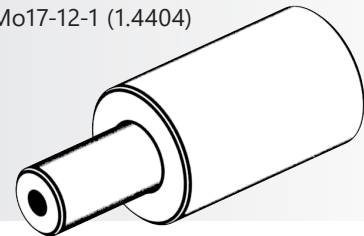
Customer test: Machining of a shaft

Indexable insert:
CNMG 120408 RV1 UMP30A1

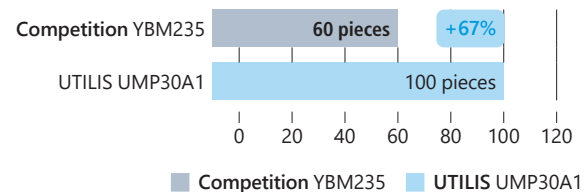


Material:
ISO-M / X2CrNiMo17-12-1 (1.4404)

Strength:
220 HB



Cutting specification	Competition YBM235	UTILIS UMP30A1
v_c [m/min]	216	216
f [mm/U]	0.25	0.25
n [U/min-1]	1250	1250
a_p [mm]	2.5	2.5
T [mm]	from Ø55 to Ø35 mm	
Tool life [Stck.]	60	100



With the CNMG 120408 RV1 UMP30A1, the user achieves significantly higher process reliability and cost-effectiveness in this test. The tool life test revealed a tool life increase of around 67% compared to the competition.

Designation key

multidec[®]
ISO turn

Indexable inserts

ISO designation		ISO dimension code		ISO dimension code	
PG 16		PG 16		PG 4-6	

C N M G 1 2 0 4 0 8 M N 1 U M P 2 0 A 1

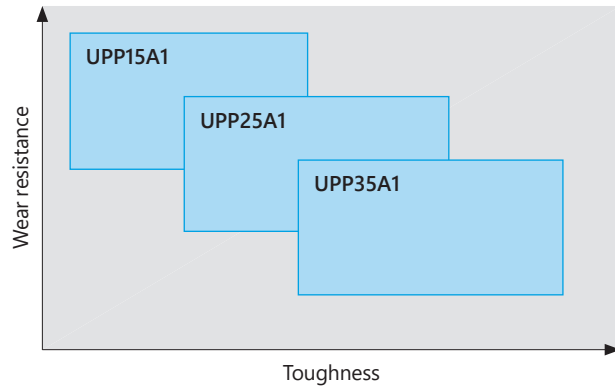
UTILIS	Main application	Secondary application	Hardness/ toughness		Coating			Coating index	
U	P Steels	P Steels	↑ Wear resistance	15	A	CVD	Al ₂ O ₃ TiCN	1	
				20			Al ₂ O ₃ TiCN		
				25			with treatment		
				30	B	PVD	TiAlSiN		
				35					
	M Stainless steels		40 ↓ Toughness						

Application Diagram and Grades

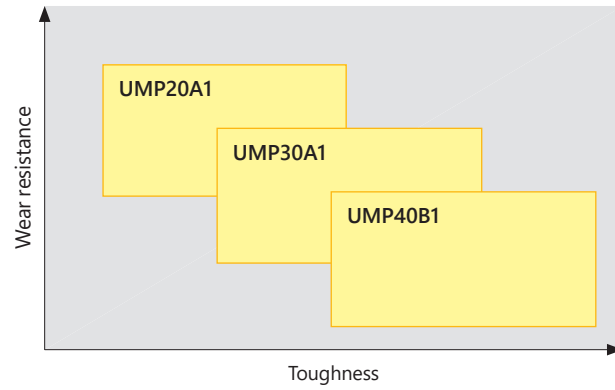
multidec[®]
ISO turn

Wear resistance and toughness

UPP – Wear resistance and toughness



UMP – Wear resistance and toughness



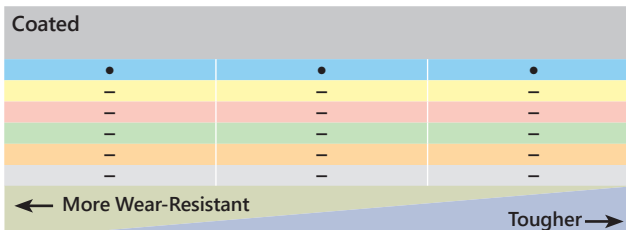
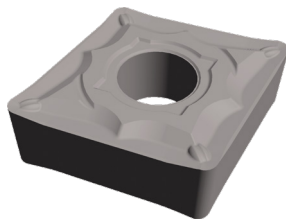
Grades

Material	Hardness/ toughness	Coating		Colour	
		Type	Layers		
P Steels	15A1	CVD	Al ₂ O ₃ TiCN	Silver	
	25A1	CVD	Al ₂ O ₃ TiCN	Silver/ Black	
	35A1	CVD	Al ₂ O ₃ TiCN	Silver	
M Stainless steels	20A1	CVD	Al ₂ O ₃ TiCN	Silver/ Black	
	30A1	CVD	Al ₂ O ₃ TiCN	Silver/ Black	
	40B1	PVD	TiAlSiN	Copper	

CNMG ... ISO-P



multidec[®]
ISO turn

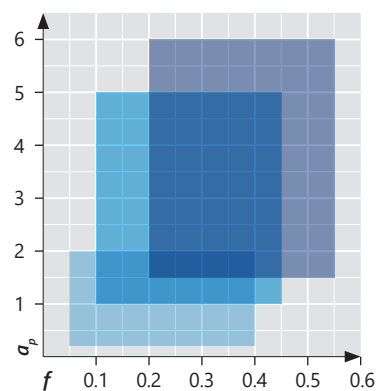


Geometry	Size	R	Utilis Designation	UPP15A1	UPP25A1	UPP35A1
GenSwiss Item #						
FE	CN 12 ~12	0.4	CNMG 120404 FE1 ...	7005-560548	7005-560549	7005-560550
		0.8	CNMG 120408 FE1 ...	7005-558163	7005-558171	7005-560557
MN	CN 12 ~12	0.4	CNMG 120404 MN1 ...	7005-560554	7005-560555	7005-560556
		0.8	CNMG 120408 MN1 ...	7005-558172	7005-558173	7005-558174
		1.2	CNMG 120412 MN1 ...	7005-560562	7005-560563	7005-560564
	CN 16 ~16	0.8	CNMG 160608 MN1 ...	7005-560664	7005-560665	7005-560666
RV	CN 12 ~12	0.8	CNMG 120408 RV1 ...	7005-558176	7005-558177	7005-558178
		1.2	CNMG 120412 RV1 ...	7005-560571	7005-560572	7005-560573

Application range

ISO P – Steels

a_p (mm)/ f (mm/U)



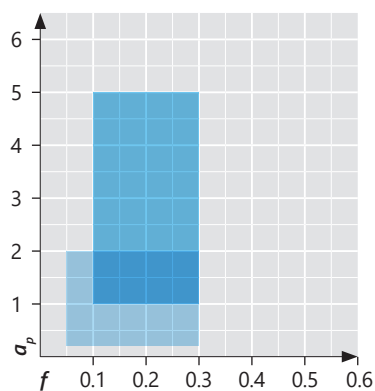
FE: 15A1/35A1 (R 0.8)

MN: 15A1/35A1 (R 0.8)

RV: 15A1/25A1/35A1 (R 0.8)

ISO P – Steels

a_p (mm)/ f (mm/U)



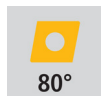
FE: 25A1 (R 0.4)

MN: 25A1 (R 0.4)

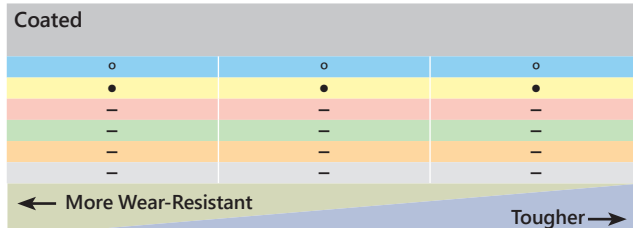
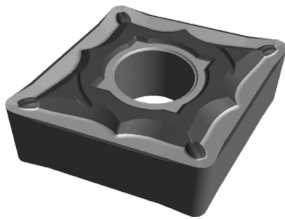
v_c (m/min)

	UPP15A1		UPP25A1		UPP35A1	
	P	M	P	M	P	M
FE	250-450	–	130-300	–	100-220	–
MN	250-450	–	130-300	–	100-220	–
RV	250-450	–	130-300	–	100-220	–

CNMG ... ISO-M



multidec[®]
ISO turn

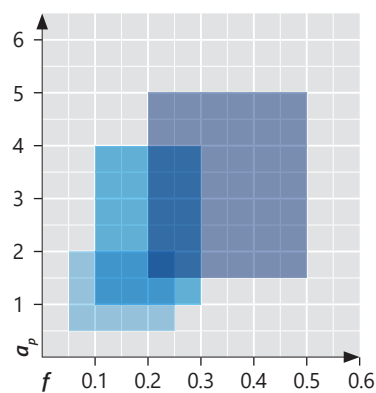


Geometry	Size	R	Utilis Designation	UMP20A1	UMP30A1	UMP40B1
GenSwiss Item #						
FE	CN 12 ~12	0.4	CNMG 120404 FE1 ...	7005-559948	7005-559949	7005-559950
		0.8	CNMG 120408 FE1 ...	7005-559946	7005-558179	7005-559947
MN	CN 12 ~12	0.4	CNMG 120404 MN1 ...	7005-559952	7005-559953	7005-559954
		0.8	CNMG 120408 MN1 ...	7005-558180	7005-558181	7005-558182
		1.2	CNMG 120412 MN1 ...	7005-559960	7005-559961	7005-559962
RV	CN 12 ~12	0.8	CNMG 120408 RV1 ...	7005-558183	7005-558184	7005-558185
		1.2	CNMG 120412 RV1 ...	7005-559963	7005-559964	7005-559965
	CN 16 ~16	1.2	CNMG 160612 RV1 ...		7005-559976	

Application range

ISO P – Steels

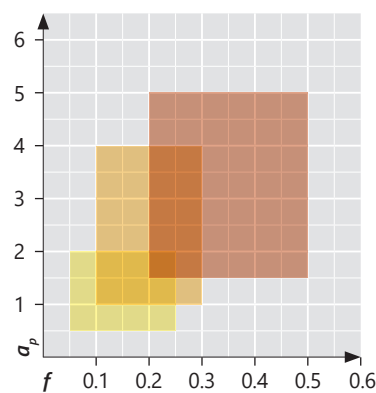
a_p (mm) / f (mm/U)



FE: 20A1/30A1/40B1 (R 0.8)
MN: 20A1/30A1/40B1 (R 0.4)
RV: 20A1/30A1/40B1 (R 0.8)

ISO M – Stainless steels

a_p (mm) / f (mm/U)



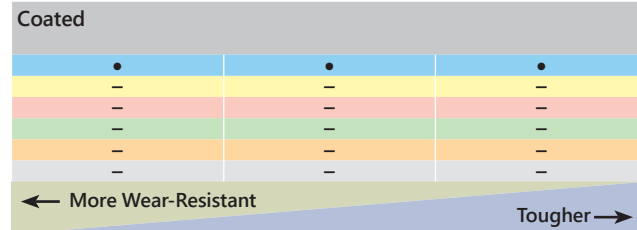
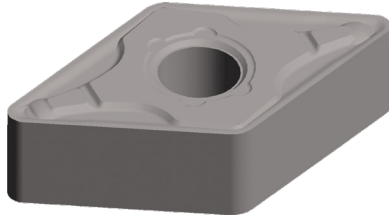
FE: 20A1/30A1/40B1 (R 0.8)
MN: 20A1/30A1/40B1 (R 0.4)
RV: 20A1/30A1/40B1 (R 0.8)

v_c (m/min)

	UMP20A1		UMP30A1		UMP40B1	
	P	M	P	M	P	M
FE	90-210	120-240	80-180	100-200	60-160	80-180
MN	90-210	120-240	80-180	100-200	60-160	80-180
RV	90-210	120-240	80-180	100-200	60-160	80-180

DNMG ... ISO-P

multidec[®]
ISO turn

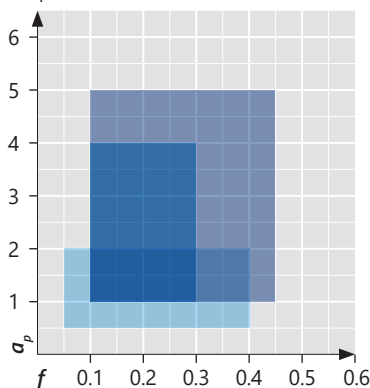


Geometry	Size	R	Utilis Designation	UPP15A1	UPP25A1	UPP35A1
GenSwiss Item #						
FE	DN 11 ~11	0.4	DNMG 110404 FE1 ...		7005-560986	
	DN 15 ~15	0.4	DNMG 150404 FE1 ...		7005-560694	
		0.8	DNMG 150408 FE1 ...		7005-560697	
		0.8	DNMG 150608 FE1 ...		7005-560702	
MN	DN 11 ~11	0.4	DNMG 110404 MN1 ...	7005-560689	7005-560690	
		0.8	DNMG 110408 MN1 ...	7005-560691	7005-560693	
	DN 15 ~15	0.4	DNMG 150404 MN1 ...	7005-560695	7005-560696	
		0.8	DNMG 150408 MN1 ...	7005-560698	7005-560699	
		1.2	DNMG 150412 MN1 ...	7005-560700	7005-560701	
		0.8	DNMG 150608 MN1 ...	7005-560708	7005-560710	
		1.2	DNMG 150612 MN1 ...	7005-560712	7005-560713	

Application range

ISO P – Steels

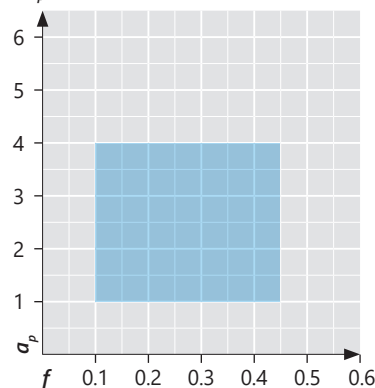
a_p (mm) / f (mm/U)



FE: 25A1
MN: 15A1 (110404)
15A1/25A1 (150608/150612)

ISO M – Stainless steels

a_p (mm) / f (mm/U)



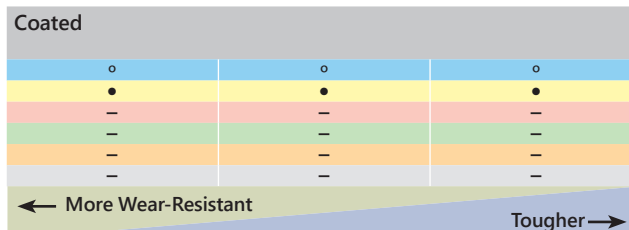
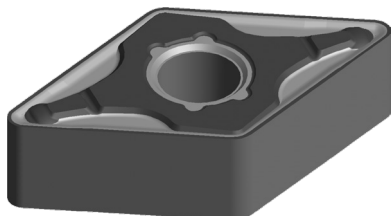
MN: 15A1/25A1 (110408)

v_c (m/min)

	UPP15A1		UPP25A1		UPP35A1	
	P	M	P	M	P	M
FE	–	–	130-300	–	–	–
MN	250-450	–	130-300	–	–	–

DNMG ... ISO-M

multidec[®]
ISO turn

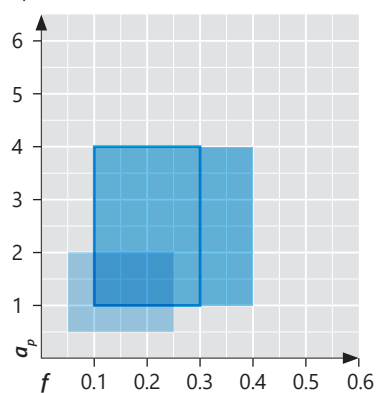


Geometry	Size	R	Utilis Designation	UMP20A1	UMP30A1	UMP40B1
GenSwiss Item #						
FE	DN 11 ~11	0.4	DNMG 110404 FE1 ...	7005-560500	7005-560501	
	DN 15 ~15	0.8	DNMG 150408 FE1 ...	7005-560872	7005-560873	
		0.8	DNMG 150608 FE1 ...	7005-560876	7005-560877	
MN	DN 11 ~11	0.4	DNMG 110404 MN1 ...		7005-560870	
		0.8	DNMG 110408 MN1 ...		7005-560871	
	DN 15 ~15	0.8	DNMG 150408 MN1 ...		7005-560874	
		1.2	DNMG 150412 MN1 ...		7005-560875	
		0.8	DNMG 150608 MN1 ...		7005-560878	
		1.2	DNMG 150612 MN1 ...		7005-560879	

Application range

ISO P – Steels

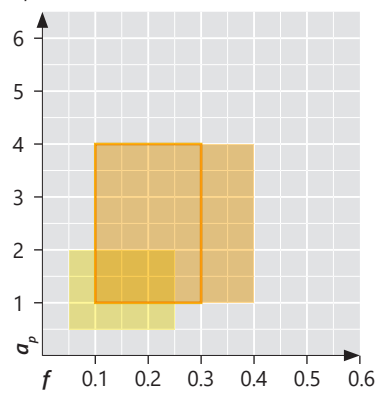
a_p (mm) / f (mm/U)



FE: 20A1/30A1
MN: 30A1
30A1 (110404)

ISO M – Stainless steels

a_p (mm) / f (mm/U)



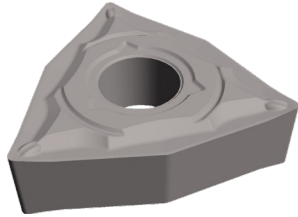
FE: 20A1/30A1
MN: 30A1
30A1 (110404)

v_c (m/min)

	UMP20A1		UMP30A1		UMP40B1	
	P	M	P	M	P	M
FE	90-210	120-240	80-180	100-200	–	–
MN	–	–	80-180	100-200	–	–

WNMG ... ISO-P

multidec
ISO turn



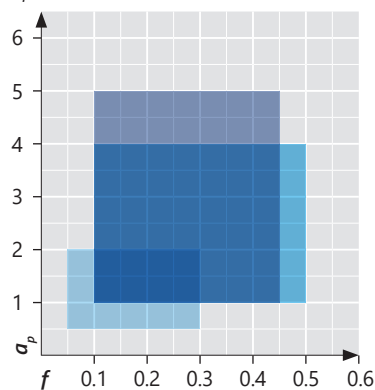
Coatings		
•	•	•
-	-	-
-	-	-
-	-	-
-	-	-
← More Wear-Resistant → Tougher →		

Geometry	Size	R	Order designation	UPP15A1	UPP25A1	UPP35A1
GenSwiss Item #						
FE	WN 6 ~6	0.4	WNMG 060404 FE1 ...		7005-560667	
MN	WN 8 ~8	0.4	WNMG 080404 FE1 ...	7005-560675		
		0.8	WNMG 080408 FE1 ...	7005-560678		
MN	WN 6 ~6	0.4	WNMG 060404 MN1 ...	7005-560668	7005-560669	
		0.8	WNMG 060408 MN1 ...	7005-560673	7005-560674	
MN	WN 8 ~8	0.4	WNMG 080404 MN1 ...	7005-560676	7005-560677	
		0.8	WNMG 080408 MN1 ...	7005-560679	7005-560680	
		1.2	WNMG 080412 MN1 ...	7005-560681	7005-560682	

Application range

ISO P – Steels

a_p (mm)/ f (mm/U)



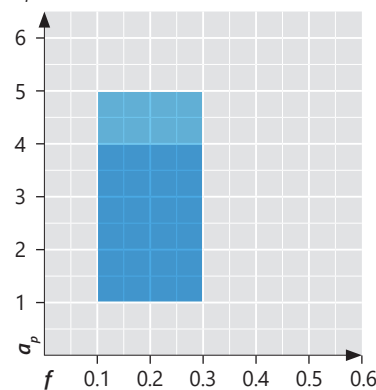
FE: 25A1

MN: 15A1/25A1 (060408)

15A1/25A1 (080408/12)

ISO P – Steels

a_p (mm)/ f (mm/U)



MN: 25A1 (060404)

15A1/25A1 (080408/12)

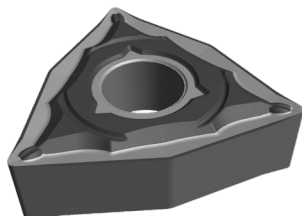
v_c (m/min)

	UPP15A1		UPP25A1		UPP35A1	
	P	M	P	M	P	M
FE	250-450	-	130-300	-	-	-
MN	250-450	-	130-300	-	-	-

WNMG ... ISO-M



multidec[®]
ISO turn



Coatings

°	°	°
•	•	•
—	—	—
—	—	—
—	—	—
—	—	—

← More Wear-Resistant

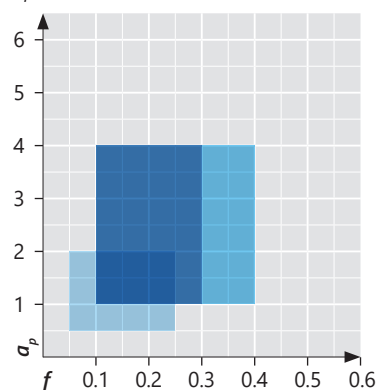
Tougher →

Geometry	Size	R	Utilis designation	UMP20A1	UMP30A1	UMP40B1
GenSwiss Item #						
FE	WN 6 ~6	0.4	WNMG 060404 FE1 ...		7005-559979	
		0.8	WNMG 060408 FE1 ...		7005-559980	
	WN 8 ~8	0.4	WNMG 080404 FE1 ...		7005-560493	
		0.8	WNMG 080408 FE1 ...		7005-560496	
MN	WN 6 ~6	0.8	WNMG 060408 MN1 ...		7005-560484	
	WN 8 ~8	0.4	WNMG 080404 MN1 ...		7005-560494	7005-560495
		0.8	WNMG 080408 MN1 ...		7005-560497	7005-560498

Application range

ISO P – Steels

a_p (mm) / f (mm/U)



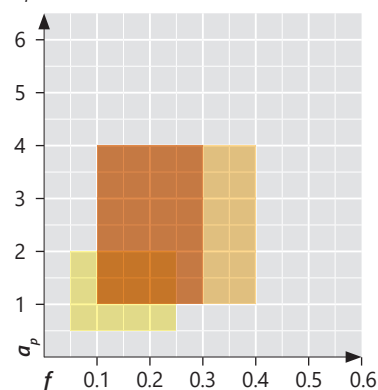
FE: 30A1

MN: 30A1/40B1 (060408/080408)

30A1/40B1 (080404)

ISO M – Stainless steels

a_p (mm) / f (mm/U)



FE: 30A1

MN: 30A1/40B1 (060408/080408)

30A1/40B1 (080404)

v_c (m/min)

	UMP20A1		UMP30A1		UMP40B1	
	P	M	P	M	P	M
FE	–	–	80-180	100-200	–	–
MN	–	–	80-180	100-200	60-160	80-180

Designation System

multidec[®]
ISO turn

Indexable inserts

Form of insert			Clearance angle			Tolerance			Distinctive mark	
Index	α		Index	α		Index	s ±	d ±	Index	
C	80°		N	0°		M	0.13	0.05–0.15*	G	
D	55°									
W	80°									

* Dependent on dimension of insert

C N M G 12 04 08 MN1 UMP 20 A1

Edge length				Insert thickness			Corner radius		Machining recommendation		Grades
Index	$\approx l$	d		Index	s		Index	R	Index		PG 8–9
12	12	12.7	C = 80° 	04	4.76		04	0.4	FE1	Finishing	
16	16	15.88		06	6.35		08	0.8	MN1	Medium Normal machining	
11	11	9.53	D = 55° 				12	1.2	RV1	Roughing	
15	15	12.7									
06	6.5	9.53	W = 80° 								
08	8.7	12.7									

ADDITIONAL INFORMATION & RESOURCES



GenSwiss Master Catalog



Signature Series Catalog



multidec -5000



multidec -Mills



multidec -Micro Tools



multidec -Lube



Ejector Pins



Ti-Loc Signature Series



Saw Arbors & Saws

Visit www.GenSwiss.com or Call Us 413-562-4800 to Request Catalogs