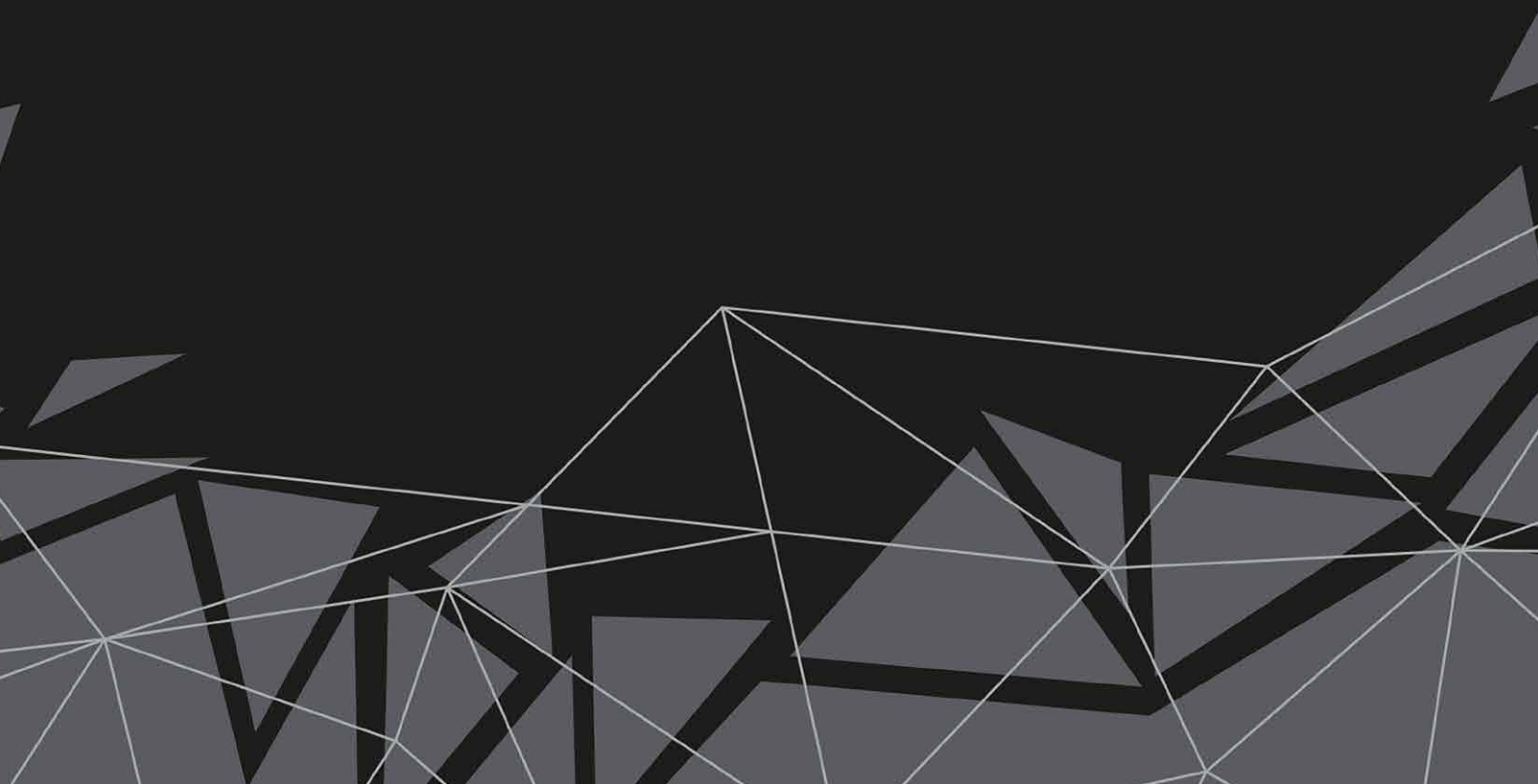


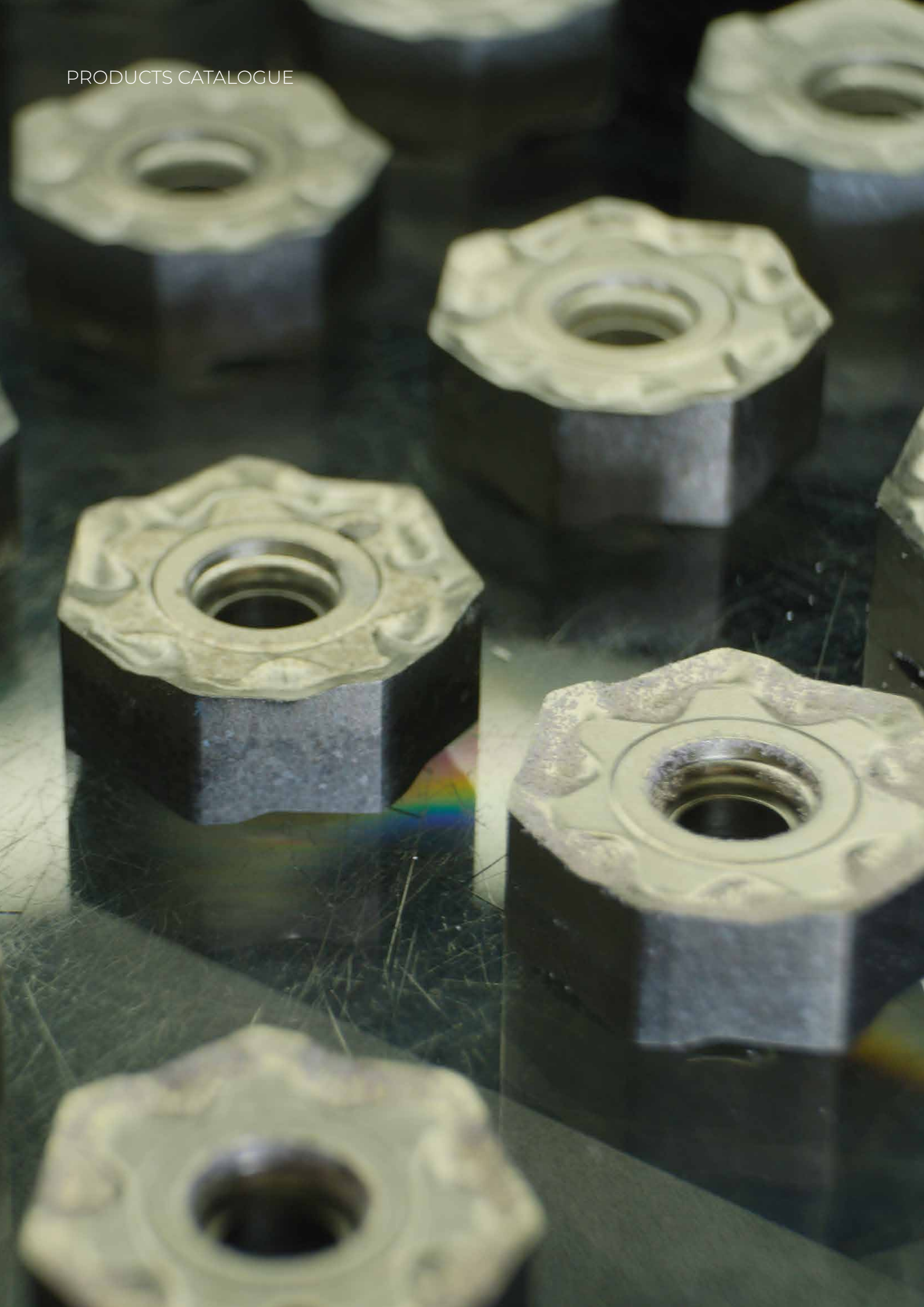


PRODUCTS CATALOGUE V1.0



PRODUCTS CATALOGUE V1.0

**S SHARP
METAL**



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Sharp Metal S.R.L
Via Verbano 12, 20098
San Giuliano Milanese (MI)
Italia

+39 02/9829711
info@sharpmetal.it
<https://sharpmetalttools.com>

introduction **Sharp Metal**

Sharp Metal project has been started in 2013 with an industrial goal, ambitious and well-determined: restoring the unique Italian manufacturer of carbide inserts and molds.

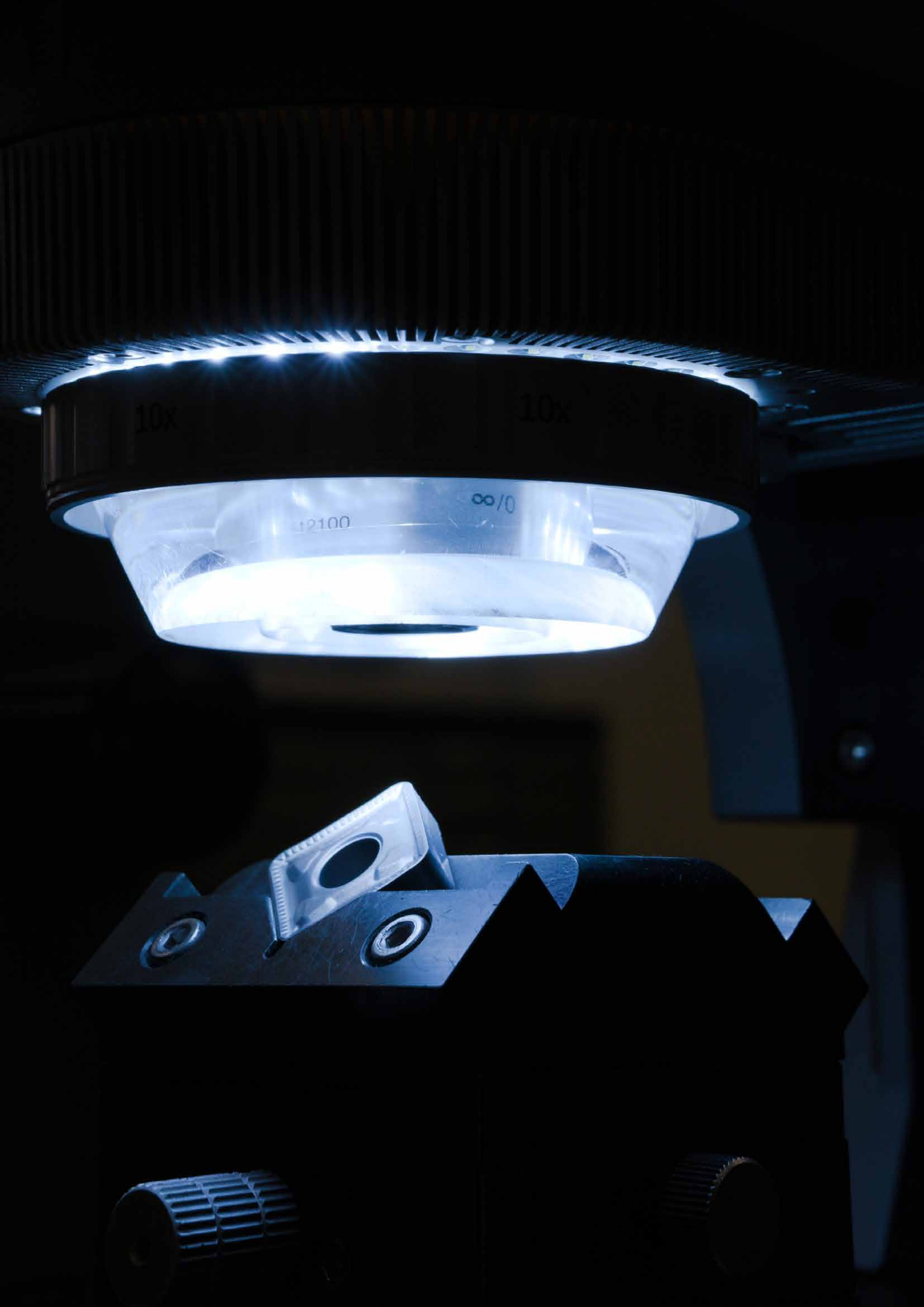


The challenge relies on two important pillars: on one hand the know-how, obtained in 80 years of activity in the chip-removal business, and on the other hand, the international experience.

**“Make easy
what easy
is not”**

The whole, combined with the talent of the new human resources and with the new investments in technological and progressive equipment, has resulted in a new way of doing business, able to compete at the highest levels of the market and to offer the best economic conditions.

This new reality, dynamic and highly specialized, has decided to leave the conventional for the extraordinary, by differentiating from its competitors and by gaining the trust of big industrial and distribution groups.



10x

10x

12100

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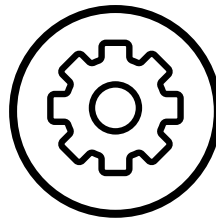


manufacturing **Overview**

Sharp Metal produces carbide inserts, both ISO standard and special, by following its customers 'requests, to perform any mechanical processing of turning, milling, parting, and scarfing.



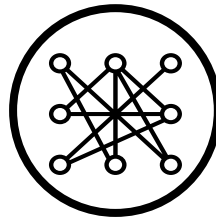
**100%
MADE
IN ITALY**



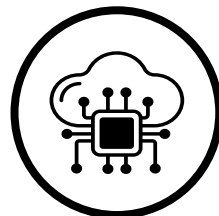
**TECNOLOGICAL
SOFTWARE
FOR DESIGN**



**INTEGRATED
QUALITY
SYSTEM**



**INTERCON-
NECTED
SYSTEM**



4.0 COMPANY

In addition to these, the program also comprehends tooling and milling cutter bodies, specifically developed to ensure great results and high performances. Sharp Metal products are sold all over the world, through important distribution groups and private labels. Sharp Metal's customers are a limited selection of the best distribution and production groups, which benefit of the highest priority and of a special exclusivity. Sharp Metal is proud to be a company 100% made in Italy, monitored by an interconnected management system which controls all the production departments, the customers' requests and the activities of the outsourcers, by using 4.0 technologies. The integrated quality system, used in every production step, ensures a total control of

the finished product and a low level of non-conformity of the same. Our design and projecting software allow to replicate any solutions under the geometrical and metallurgical point of view. This exclusive service (REPLICA) allows our customers to substitute a product of another producer with a Sharp Metal product, identical in terms of aesthetic and of performance.

The mold department is one of the most sophisticated added values of the company, with a remarkable quality level, confirmed by our competitors too, and a portfolio of more than 3.000 products available. Thanks to the important investments, Sharp Metal is able to provide any type of solution, by reducing the timing and ensuring the certainty of the result.



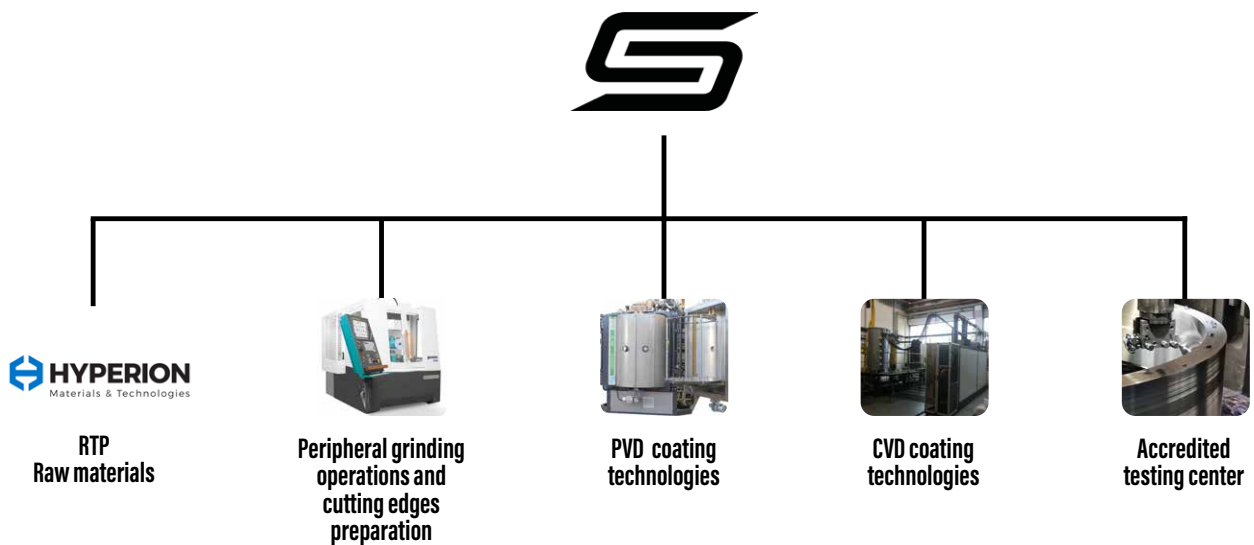
LASER MARKING SYSTEM

Equipped with electric presses, completely automated, Sharp Metal is able to produce 60.000 pieces a day. All our products, both under our brand and under private labels, are marked with the laser technology with codes/logos, to make them recognizable in the markets.

satellite Organization

Sharp Metal is the leader of a network of companies, all involved in the same business field, but each one independent and specialized in a single aspect of the production chain.

This organization is 100% controlled by Sharp Metal and it has made it possible to achieve a final product of absolute quality and satisfaction



Sharp Metal is a combo of experience and innovation. We don't have customers, we have partners, with whom we have created solid and long-lasting cooperation. We share with them our know-how and our innovative ideas, as we fully trust in this deep connection of different minds and experiences.

Our transparency has always been the key for benefit of great advantages from our collaborations and this is the reason why we expect the same from our partners.

We share thoughts, experiences, opinions, test reports and any type of information which may be essential to reach the common success.

key Factors

Sharp Metal aims to supply its commercial partners at the best, by implementing the production processes year by year and by checking every details of the production cycle. This attention, combined with our ambition and will to achieve higher and higher results, pushes us to look for newer solutions to satisfy our customers!

1

FLEXIBILITY

What distinguishes Sharp Metal from the other competitors is a simple and well-organized structure, at the disposal of the customers and able to answer to any requests within 24h. Our reaction times and our care to satisfy the request of our customers are a dominance recognized by our competitors too!

2

QUALITY

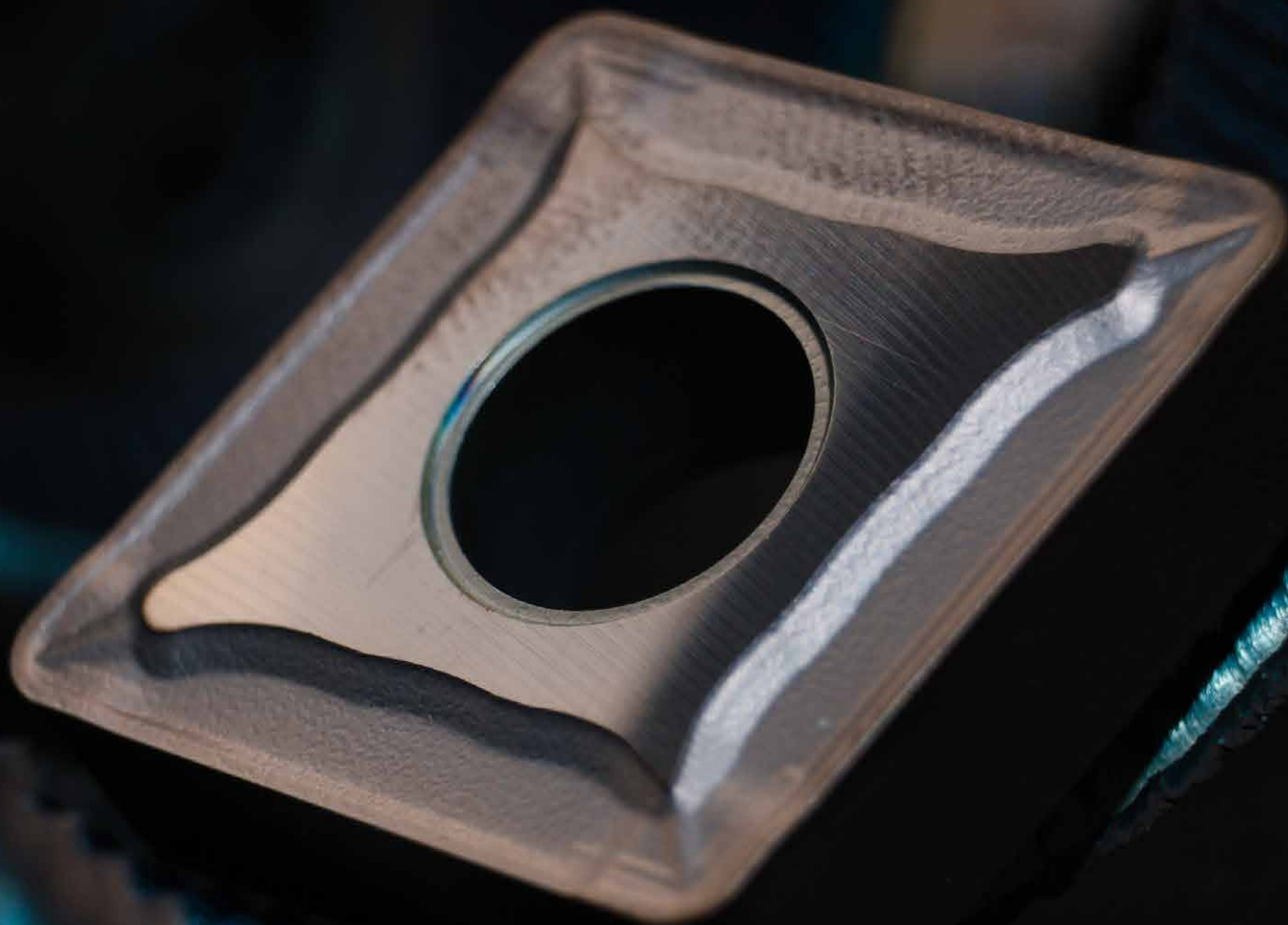
Quality is our first mission. Every production phase is monitored and tracked by the integrated management system, in order to have the total control of each activity performed in our plant.

3

CHALLENGE

We live our present and every occasion as a challenge to improve our services, our quality, and our performances. This is why each goal is only a new starting point toward new discoveries and improvements.

CERTIFICATIONS





Quality System Certificate

Certificato D'Impresa SQ N.1810153 – FA022

Si attesta che L'impresa



**SHARP
METAL**

Via Lario, 2, - 20098 – San Giuliano Milanese (MI)

Telefono: 02.9829711 – FAX: 02.982971251-252

Codice Fiscale/Partita IVA: 12104441006 – REA: MI-2000246 - Codice Univoco: M5UXCR1

E' stata verificata conforme ai requisiti della Normativa

UNI EN ISO 14001:2015

Campo applicativo

Raccolta, trasporto e smaltimento residui di lavorazione. Progettazione, realizzazione e collocazione di stampi industriali. Lavorazione, recupero, analisi di metalli duri in conto proprio e/o di terzi. Acquisto e vendita-all'ingrosso e al dettaglio- Importazione ed esportazione di metalli duri e di polveri metalliche, grezzi, lavorati e/o Semilavorati. Produzione, lavorazione e commercializzazione – all'ingrosso e al dettaglio – di utensili industriali. – CODICE ATECO: 25.73.12



Protocollo n. **01810** – Registrazione n. **03310**



IL SIGILLO A RILIEVO CONVALIDA L'ORIGINALITA' DELL'ATTESTATO

Certificato subordinato all'attinenza e osservanza dei parametri già accertati in prima verifica il 25/01/2022 e successiva il 04/02/2022



Emissione: **07/02/2022**

Scadenza: **02/02/2025**

ESTENSIONE PROSPETTICA E NORMATIVA DA ISTITUTO ITALIANO CERTIFICAZIONE QUALITA'

European Institute for Quality Certificate srl

Notificato alla Presidenza del Consiglio dei Ministri - n. 4841 del 01/03/1996

residenza: Via Nizza, 69 – 10123 Torino (To)- Ufficio Tecnico: Via Benvenuto Cellini, 21 – 10126 Torino

P.IVA: 11884770014 – REA Torino: To-1248118 – Tel. (+39) 011 6633700 – (+39) 011 6633992-

Fax (+39) 011 6633886 – PEC: ijcq@pec.it –

E-mail: Certificazioni.qualita@gmail.com –



Quality System Certificate

Certificato D'Impresa SQ N.1810154 – FA022

Si attesta che L'impresa



**SHARP
METAL**

Via Lario, 2, - 20098 – San Giuliano Milanese (MI)
Telefono: 02.9829711 – FAX: 02.982971251-252

Codice Fiscale/Partita IVA: 12104441006 – REA: MI-2000246 - Codice Univoco: M5UXCR1

E' stata verificata conforme ai requisiti della Normativa

UNI EN ISO 45001

(Già OHSAS 18001 – Salute e Sicurezza sui luoghi di lavoro)

Campo applicativo

Progettazione, realizzazione e collocazione di stampi industriali. Lavorazione, recupero, analisi di metalli duri in conto proprio e/o di terzi. Acquisto e vendita - all'ingrosso e al dettaglio- Importazione ed esportazione di metalli duri e di polveri metalliche, grezzi, lavorati e/o Semilavorati. Produzione, lavorazione e commercializzazione – all'ingrosso e al dettaglio – di utensili industriali. – CODICE ATECO: 25.73.12



Protocollo n. **01811** – Registrazione n. **03311**



IL SIGILLO A RILIEVO CONVALIDA L'ORIGINALITA' DELL'ATTESTATO

Certificato subordinato all'attinenza e osservanza dei parametri già accertati in prima verifica il 25/01/2022 e successiva il 04/02/2022

Emissione: **07/02/2022**



Scadenza: **02/02/2025**

ESTENSIONE PROSPETTICA E NORMATIVA DA ISTITUTO ITALIANO CERTIFICAZIONE QUALITA'

European Institute for Quality Certificate srl

Notificato alla Presidenza del Consiglio dei Ministri - n. 4841 del 01/03/1996

residenza: Via Nizza, 69 – 10123 Torino (To)- Ufficio Tecnico: Via Benvenuto Cellini, 21 – 10126 Torino

P.IVA: 11884770014 – REA Torino: To-1248118 – Tel. (+39) 011 6633700 – (+39) 011 6633992-

Fax (+39) 011 6633886 – PEC: iicq@pec.it –

E-mail: Certificazioni.qualita@gmail.com –



Quality System Certificate

Certificato D'Impresa SQ N.1810152 – FA022

Si attesta che L'impresa



SHARP METAL S.R.L.

Via Lario, 2, - 20098 – San Giuliano Milanese (MI)

Telefono: 02.9829711 – FAX: 02.982971251-252

Codice Fiscale/Partita IVA: 12104441006 – REA: MI-2000246 - Codice Univoco: M5UXCR1

E-mail: info@sharpmetal.it – PEC: sharpmetal@PEC.it – www.sharpmetaltools.com

E' stata verificata conforme ai requisiti della Normativa

UNI EN ISO 9001:2015

Campo applicativo

Progettazione, realizzazione e collocazione di stampi industriali. Lavorazione, recupero, analisi di metalli duri in conto proprio e/o di terzi. Acquisto e vendita-all'ingrosso e al dettaglio- Importazione ed esportazione di metalli duri e di polveri metalliche, grezzi, lavorati e/o Semilavorati. Produzione, lavorazione e commercializzazione – all'ingrosso e al dettaglio – di utensili industriali.

CODICE ATECO:25.73.12



Protocollo n.01809 – Registrazione n. 03309



IL SIGILLO A RILIEVO CONVALIDA L'ORIGINALITA' DELL'ATTESTATO

Certificato subordinato all'attinenza e osservanza dei parametri già accertati in prima verifica il 25/01/2022 e successiva il 04/02/2022

Emissione:07/02/2022

Scadenza: 02/02/2025

ESTENSIONE PROSPETTICA E NORMATIVA DA ISTITUTO ITALIANO CERTIFICAZIONE QUALITA'

European Institute for Quality Certificate srl

Notificato alla Presidenza del Consiglio dei Ministri

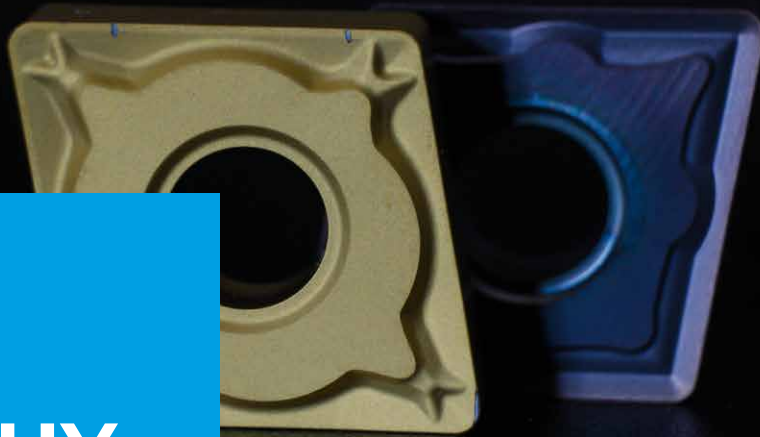
n. 4841 del 01/03/1996

Presidenza: Via Nizza, 69 – 10123 Torino (To)- Ufficio Tecnico: Via Benvenuto Cellini, 21 – 10126 Torino

P.IVA: 11884770014 – REA Torino: To-1248118 – Tel. (+39) 011 6633700 – (+39) 011 6633992-

Fax (+39) 011 6633886 – PEC: ieccq@pec.it –

E-mail: Certificazioni.qualita@gmail.com –



NEW TURNING PHILOSOPHY

The new range of turning products comes from an innovative system of collaboration between a selected group of European users, performing in various mechanical sectors, and Sharp Metal's technicians.

In fact, we have decided to test directly in the field the new solutions, with the aim of understanding the real needs of the operators and the limits of the current solutions in use and to provide concrete responses and high-quality results.

This manual has the purpose of introducing the new philosophy and the principles for a correct application of Sharp Metal's turning products. The product selection is made of two simple steps:







1. The first is the identification of the material to process
2. The second is the selection of the operation to be performed:

Finishing
Medium
Roughing



OVERVIEW OF SHARP METAL GRADES

In partnership with our PVD and CVD providers, equipped with the latest technologies, we have selected for each material to be processed, a dedicated coating solution.

HARDNESS	ISO P	ISO M	ISO K	ISO N	ISO H	ISO S
15	YP15T	DM15T	BK15T	NN15T	RH15T	ZS15T
25	YP25T	DM25T	BK25T	NN25T	RH25T	ZS25T
35	YP35T	DM35T	BK35T	NN35T	RH35T	ZS35T
Coating						
Technology	CVD	PVD	CVD	/	PVD	PVD

STEP 1: MATERIAL IDENTIFICATION

We have created dedicated grades, based on the material to work and therefore based on the ISO families of: Steels, Stainless steels, Cast-irons, non-ferrous materials, tempered steels and superalloys.

ISO P Steels	ISO M Stainless Steels	ISO K Cast Irons
ISO N Non ferrous materials	ISO H Tempered materials	ISO S Superalloys

STEP 2: SELECTION OF THE OPERATION TO PERFORM

We have divided all the possible processing in three families, and we have combined each family with a specific geometry and hardness, in order to avoid any mistakes in the application and to ensure a correct result.

PROCESSING	GEOMETRY	ISO HARDNESS
FINISHING	F	15
MEDIUM	M	25
ROUGHING	R	35

According to the insert size and to the related geometry, each solution is matched with a suitable radius, which ensures the highest performance of the product and the finishing surface, required by the customers.

INSERT DIMENSION	F - FINISHING		M - MEDIUM		R - ROUGHING	
	radius	finishing surface	radius	finishing surface	radius	finishing surface
Ø 12,70	R04	1,2-1,6 µm	R08	1,2-1,6 µm	R1,2	>1,6 µm
Ø 15,88	R1,2	3,2-6,3 µm	R1,6	3,2-6,3 µm	R1,8	>6,3 µm
Ø 19,05	R1,6	6,3-12,5 µm	R1,8 - 2,4	6,3-12,5 µm	R2,4	>12,5 µm
Ø 25,40	R1,8	6,3-12,5 µm	R2,4	6,3-12,5 µm	R3,2	>12,5 µm

C

N

M

G

1

2

3

4

1 INSERT SHAPE					
A	B	C	D	E	H
K	L	M	O	P	R
S	T	V	W		

2 LATERAL CLEARANCE		
A	B	C
D	E	F
G	N	P

3 TOLERANCES													
	m	s	d	3,175	4,76	6,35	9,525	12,7	15,875	19,05	25,4	31,75	38,1
A	0,005	0,025	0,025	•	•	•	•	•	•	•	•	•	•
E	0,025	0,025	0,025	•	•	•	•	•	•	•	•	•	•
F	0,005	0,025	0,013	•	•	•	•	•	•	•	•	•	•
G	0,025	0,13	0,025	•	•	•	•	•	•	•	•	•	•
H	0,013	0,025	0,013	•	•	•	•	•	•	•	•	•	•
J	0,005	0,025	0,05	•	•	•	•						
	0,005	0,025	0,08					•					
	0,005	0,025	0,10						•	•			
	0,005	0,025	0,13								•		
K	0,013	0,025	0,05	•	•	•	•						
	0,013	0,025	0,08					•					
	0,013	0,025	0,10						•	•			
	0,013	0,025	0,13								•		
M	0,08	0,13	0,05	•	•	•	•						
	0,13	0,13	0,08					•					
	0,15	0,13	0,10						•	•			
	0,018	0,13	0,13								•		
U	0,20	0,13	0,15									•	•
	0,13	0,13	0,08	•	•	•	•						
	0,20	0,13	0,13					•					
	0,27	0,13	0,18						•	•			
	0,38	0,13	0,25								•	•	•

3 TOLERANCES		
d	m	s

4 TYPE OF CHIP-BREAKER		
A	F	G
M	N	Q
R	T	U
	X = Special	
W	X = Special	

12 04 08- M

5

6

7

8

5 LENGTH OF THE CUTTING EDGE		
A,B,K	C,D,E,M,V	H,O,P
L	R	S
T	W	

6 THICKNESS			
01	1,59 mm	04	4,76
T1	1,98 mm	05	5,56
02	2,38 mm	06	6,35
03	3,18 mm	07	7,94
T3	3,97 mm	08	8,00
		09	9,52

7 INSERTS WITH CHAMFER OR CORNER RADIUS		
	M0	Round insert
	00	Sharp edge
	01	0,1
	02	0,2
	04	0,4
	08	0,8
	12	1,2
	ecc...	

8 GEOMETRY	
F	M
R	-

S C L C R

1

2

3

4

5

1 FIXING SYSTEM		
C	D	M
P	S	W

2 INSERT SHAPE					
A	B	C	D	E	H
K	L	M	O	P	R
T	V	W			

3 ANGLE OF PROCESSING					
B - 75°	D - 45°	E - 60°	F - 90°	G - 90°	J - 93°
K - 75°	L - 95°	N - 63°	R - 75°	S - 45°	T - 60°
V - 72.5°	Y - 85°				

4 LATERAL CLEARANCE		
A	B	C
D	E	F
G	N	P

5 EXECUTION TYPE		
L	N	R

25 25 M 12

6

7

8

9

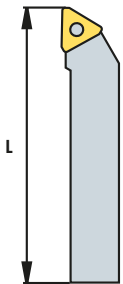
6 STEM HEIGHT



7 STEM LENGTH



8 STEM LENGTH



A-32	H-100	Q-180
B-40	J-110	R-200
C-50	K-125	S-250
D-60	L-140	T-300
E-70	M-150	U-350
F-80	N-160	V-400
G-90	P-170	W-450

X-SPECIAL

9 LENGTH OF THE CUTTING EDGE



A,B,K

C,D,E,M,V

H,O,P



L

R

S



T

W

CUTTING STRATEGIES

EVALUATION OF THE EFFICIENCY OF THE CUTTING STRATEGY:

Focusing the attention on the cutting speed to evaluate the performance of a tool or the cutting strategy is a mistake. The use of high cutting speed can, in some cases, complicate/compromise the processing.

That's why we, as Sharp Metal, invite you to check the chip volume parameter "Q", which identifies the quantity of chips produced by the processing in a determined time frame.

TURNING CALCULATION:

$$Q = Vc \times Fn \times Ap$$

LEGENDA:

Q = Chip volume (cm³/min)

Vc = Cutting speed (m/min) - $Vc = (n \times \pi \times D) / 1000$

Fn = Tool feed for each spindle rotation (mm/r)

Ap = Radial cutting depth (mm)

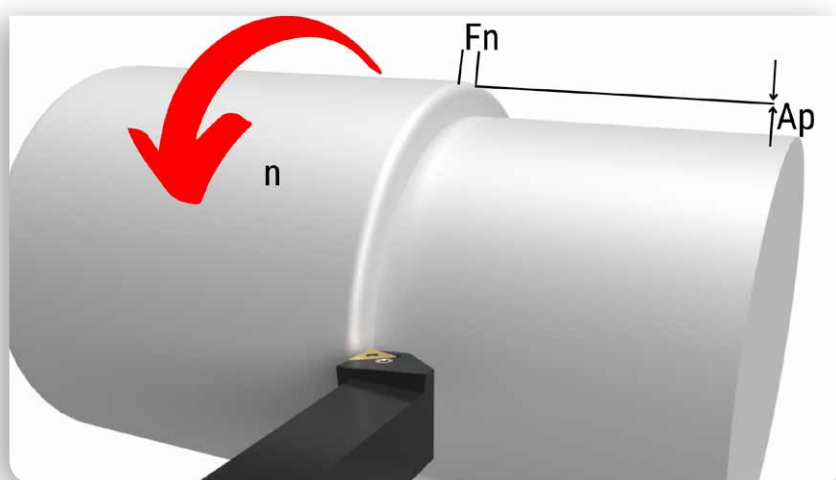
n = Spindle rotating speed (r/min) - $n = (Vc \times 1000) / (\pi \times D)$

D = Diameter of the workpiece (mm)

π = Pi (3.14)

The cutting parameters may vary depending on some external conditions, like the fixing stability of the tooling and piece, the material and the type of machine.

The given parameters represent ideal parameters, which shall be increased or decreased in accordance with the application.



Representation of the values used to evaluate the efficiency of the cutting strategies

CALCULATION EXAMPLE:

Real calculation carried out by a customer on a processing with CNMG 120408:

As you can see here below, at the decrease of the cutting speed in the range of -20%, we have obtained an increase of the chip volume +66% and those adjustments have given enormous advantages to preserve the life of the cutting edge.

$$Q = Vc \times Fn \times Ap$$

Strategy 1:

$Vc = 250 \text{ m/min}$
 $Fn = 0.12 \text{ mm/r}$
 $Ap = 2 \text{ mm/r}$

$$Q = 250 \times 0.12 \times 2 = 60 \text{ cm}^3/\text{min}$$

Strategy 2:

$Vc = 200 \text{ m/min}$
 $Fn = 0.25 \text{ mm/r}$
 $Ap = 2 \text{ mm/r}$

$$Q = 200 \times 0.25 \times 2 = 100 \text{ cm}^3/\text{min}$$



CNMG 120404-F

Insert for finishing application



CUTTING PARAMETERS

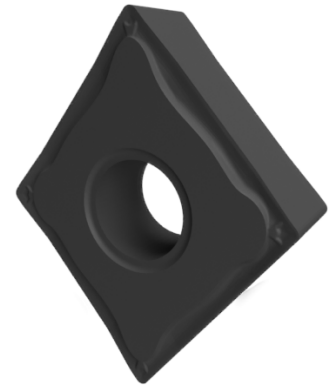
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 120404-F	YP15T	P	0,14	0,11	0,17	0,16	285
CNMG 120404-F	DM15T	M	0,14	0,11	0,17	0,16	140
CNMG 120404-F	BK15T	K	0,14	0,11	0,17	0,16	215
CNMG 120404-F	RH15T	H	0,14	0,11	0,17	0,16	200
CNMG 120404-F	ZS15T	S	0,14	0,11	0,17	0,16	45



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



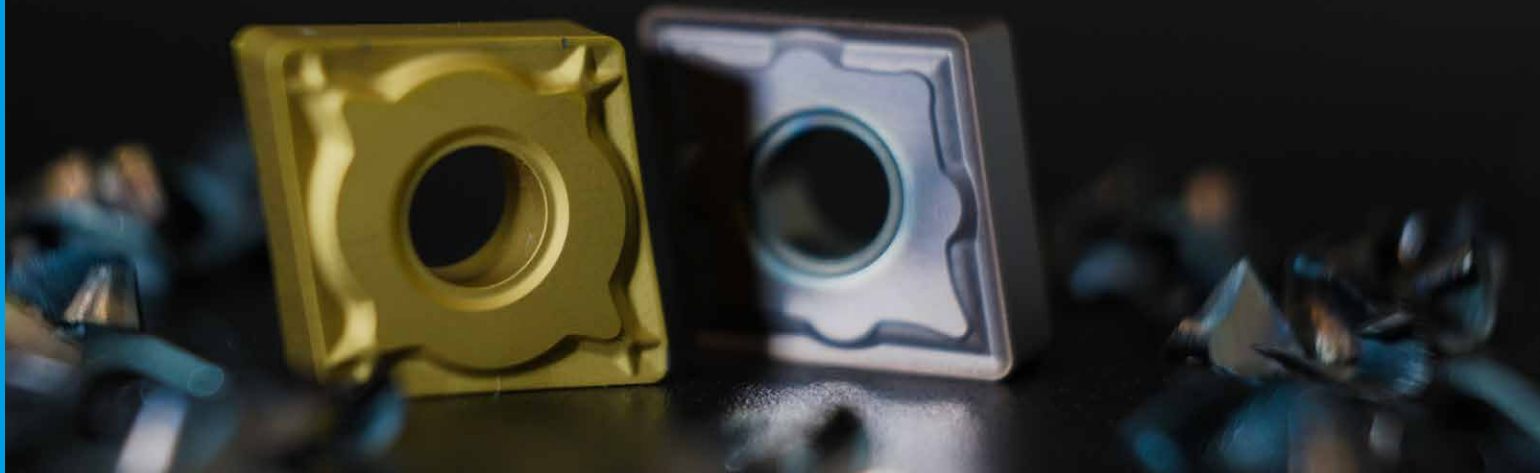
H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	0,40	80



CNMG 120408-M

Insert for medium application



CUTTING PARAMETERS

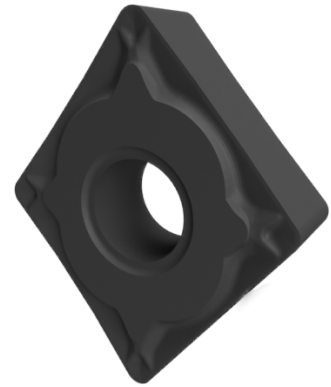
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 120408-M	YP25T	P	0,32	0,26	0,38	0,72	255
CNMG 120408-M	DM25T	M	0,32	0,26	0,38	0,72	100
CNMG 120408-M	BK25T	K	0,32	0,26	0,38	0,72	140
CNMG 120408-M	RH25T	H	0,32	0,26	0,38	0,72	180
CNMG 120408-M	ZS25T	S	0,32	0,26	0,38	0,72	35



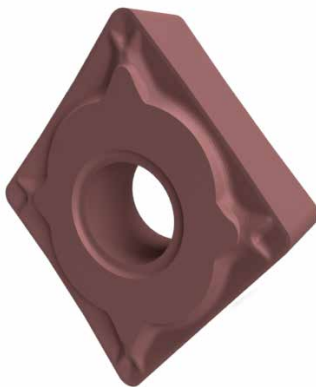
P
 Geometry M
 Grade: YP25T
 Processing: Medium



M
 Geometry M
 Grade: DM25T
 Processing: Medium



K
 Geometry M
 Grade: BK25T
 Processing: Medium



H
 Geometry M
 Grade: RH25T
 Processing: Medium



S
 Geometry M
 Grade: ZS25T
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	0,80	80



CNMG 120412-R

Insert for roughing application



CUTTING PARAMETERS

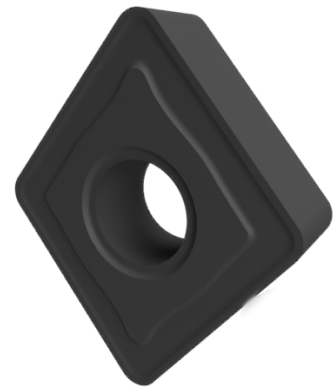
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 120412-R	YP35T	P	0,54	0,43	0,65	1,20	175
CNMG 120412-R	DM35T	M	0,54	0,43	0,65	1,20	120
CNMG 120412-R	BK35T	K	0,54	0,43	0,65	1,20	100
CNMG 120412-R	RH35T	H	0,54	0,43	0,65	1,20	160
CNMG 120412-R	ZS35T	S	0,54	0,43	0,65	1,20	25



P
Geometry R
Grade: YP35T
Processing: Roughing



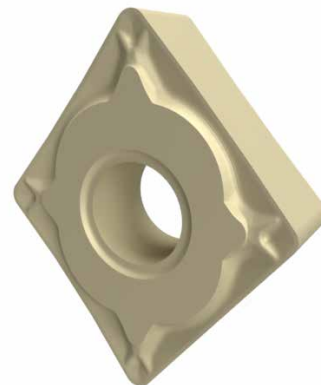
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	1,20	80



CNMG 160612-F

Insert for finishing application

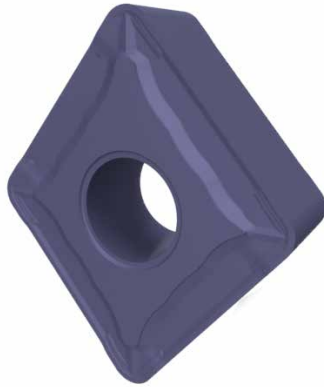


CUTTING PARAMETERS

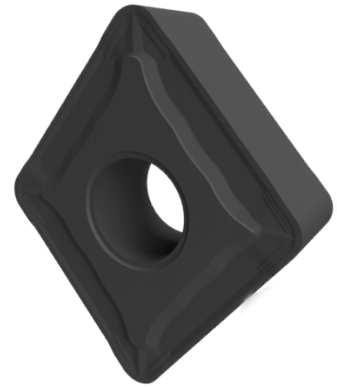
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 160612-F	YP15T	P	0,42	0,34	0,50	0,48	270
CNMG 160612-F	DM15T	M	0,42	0,34	0,50	0,48	106
CNMG 160612-F	BK15T	K	0,42	0,34	0,50	0,48	148
CNMG 160612-F	RH15T	H	0,42	0,34	0,50	0,48	169
CNMG 160612-F	ZS15T	S	0,42	0,34	0,50	0,48	37



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	15,88	16,00	6,35	1,20	80



CNMG 160616-M

Insert for medium application



CUTTING PARAMETERS

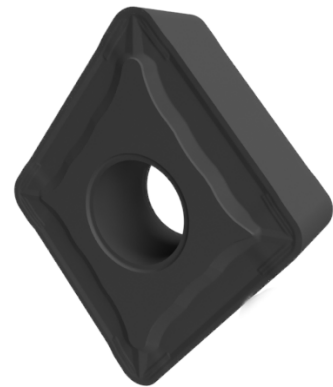
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 160616-M	YP25T	P	0,64	0,51	0,77	1,44	269
CNMG 160616-M	DM25T	M	0,64	0,51	0,77	1,44	106
CNMG 160616-M	BK25T	K	0,64	0,51	0,77	1,44	148
CNMG 160616-M	RH25T	H	0,64	0,51	0,77	1,44	169
CNMG 160616-M	ZS25T	S	0,64	0,51	0,77	1,44	37



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	15,88	16,00	6,35	1,60	80



CNMG 190616-F

Insert for finishing application

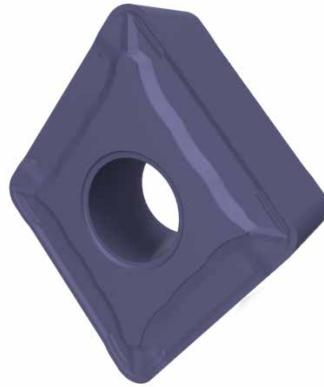


CUTTING PARAMETERS

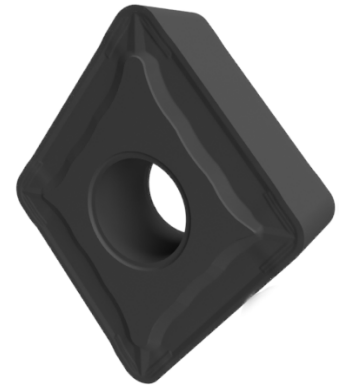
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 190616-F	YP15T	P	0,56	0,45	0,67	0,64	230
CNMG 190616-F	DM15T	M	0,56	0,45	0,67	0,64	149
CNMG 190616-F	BK15T	K	0,56	0,45	0,67	0,64	223
CNMG 190616-F	RH15T	H	0,56	0,45	0,67	0,64	198
CNMG 190616-F	ZS15T	S	0,56	0,45	0,67	0,64	50



P
 Geometry F
 Grade: YP15T
 Processing: Finishing



M
 Geometry F
 Grade: DM15T
 Processing: Finishing



K
 Geometry F
 Grade: BK15T
 Processing: Finishing



H
 Geometry F
 Grade: RH15T
 Processing: Finishing



S
 Geometry F
 Grade: ZS15T
 Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	1,60	80



CNMG 190624-M

Insert for medium application

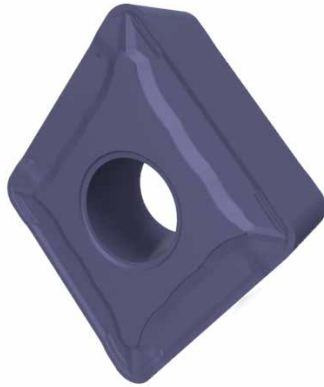


CUTTING PARAMETERS

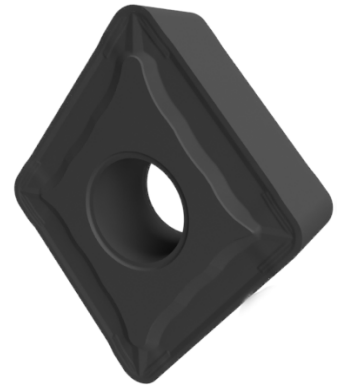
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 190624-M	YP25T	P	0,96	0,77	1,15	2,16	235
CNMG 190624-M	DM25T	M	0,96	0,77	1,15	2,16	124
CNMG 190624-M	BK25T	K	0,96	0,77	1,15	2,16	118
CNMG 190624-M	RH25T	H	0,96	0,77	1,15	2,16	173
CNMG 190624-M	ZS25T	S	0,96	0,77	1,15	2,16	25



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



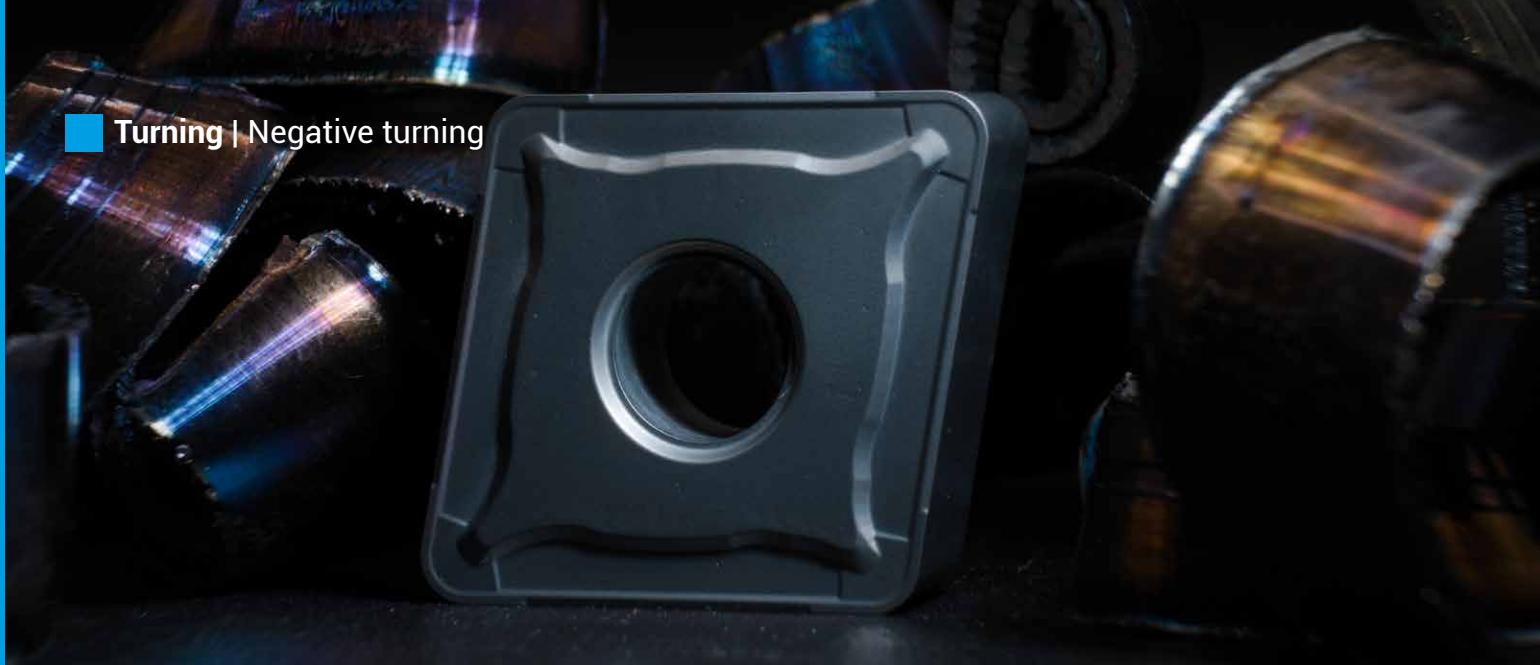
H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	2,40	80



CNMG 250918-F

Insert for finishing application

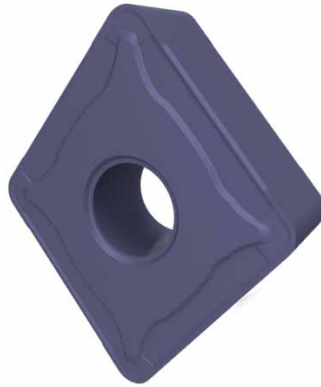


CUTTING PARAMETERS

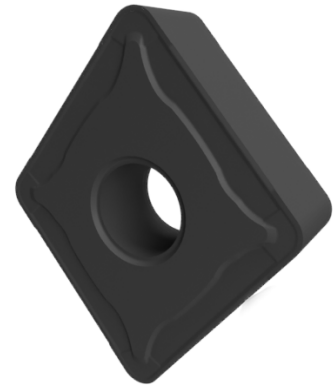
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 250918-F	YP15T	P	0,45	0,36	0,54	0,72	220
CNMG 250918-F	DM15T	M	0,45	0,36	0,54	0,72	110
CNMG 250918-F	BK15T	K	0,45	0,36	0,54	0,72	220
CNMG 250918-F	RH15T	H	0,45	0,36	0,54	0,72	181
CNMG 250918-F	ZS15T	S	0,45	0,36	0,54	0,72	52



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



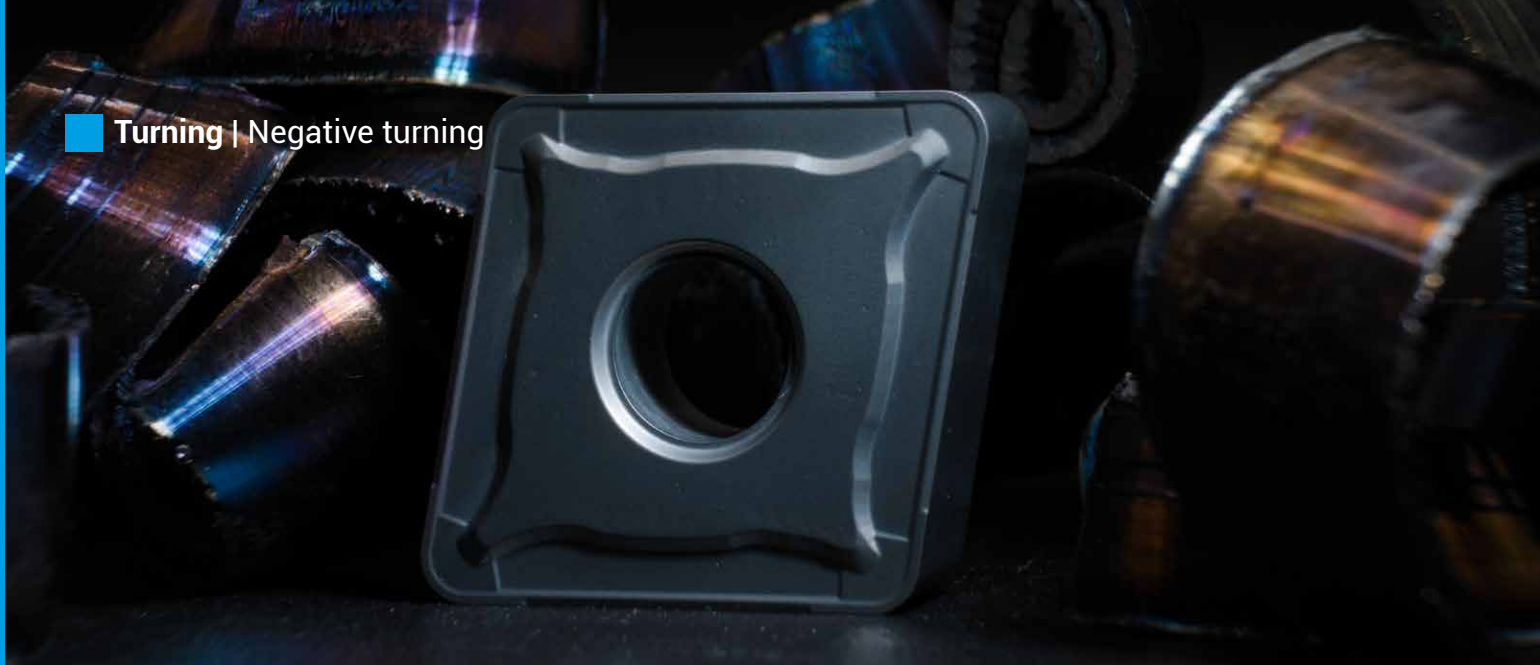
H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	1,80	80



CNMG 250924-M

Insert for medium application

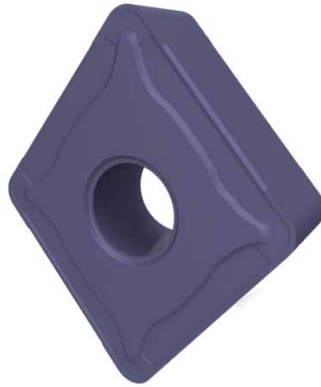


CUTTING PARAMETERS

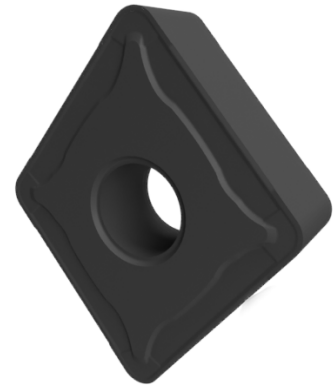
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMG 250924-M	YP25T	P	0,84	0,59	0,92	2,16	266
CNMG 250924-M	DM25T	M	0,84	0,59	0,92	2,16	84
CNMG 250924-M	BK25T	K	0,84	0,59	0,92	2,16	117
CNMG 250924-M	RH25T	H	0,84	0,59	0,92	2,16	155
CNMG 250924-M	ZS25T	S	0,84	0,59	0,92	2,16	26



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

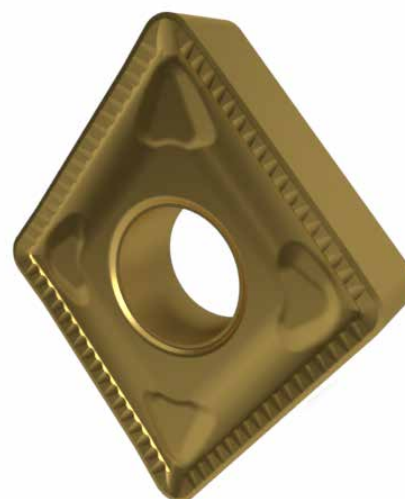
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	2,40	80



CNMM 190618-M

Insert for medium application

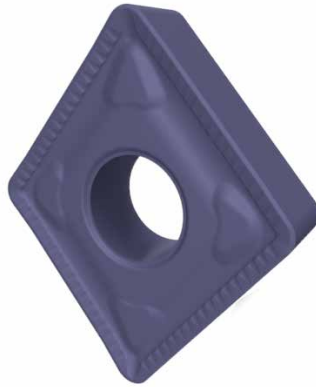


CUTTING PARAMETERS

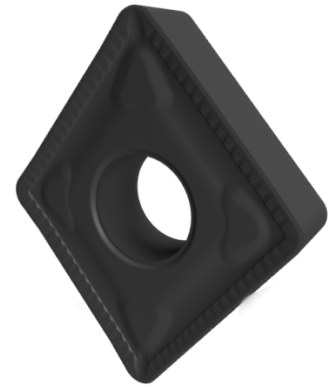
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMM 190618-M	YP25T	P	0,72	0,58	0,86	1,62	230
CNMM 190618-M	DM25T	M	0,72	0,58	0,86	1,62	149
CNMM 190618-M	BK25T	K	0,72	0,58	0,86	1,62	223
CNMM 190618-M	RH25T	H	0,72	0,58	0,86	1,62	198
CNMM 190618-M	ZS25T	S	0,72	0,58	0,86	1,62	50



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	1,80	80



CNMM 190624-R

Insert for roughing application

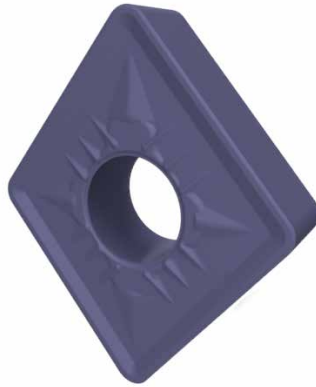


CUTTING PARAMETERS

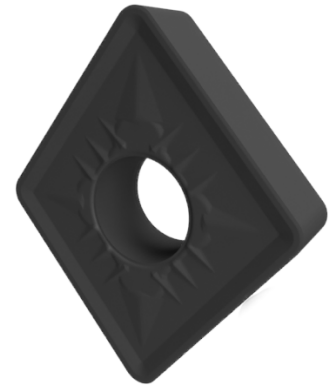
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMM 190624-R	YP35T	P	1,08	0,86	1,30	2,40	161
CNMM 190624-R	DM35T	M	1,08	0,86	1,30	2,40	118
CNMM 190624-R	BK35T	K	1,08	0,86	1,30	2,40	99
CNMM 190624-R	RH35T	H	1,08	0,86	1,30	2,40	149
CNMM 190624-R	ZS35T	S	1,08	0,86	1,30	2,40	25



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	2,40	80



CNMM 250924-M

Insert for medium application



CUTTING PARAMETERS

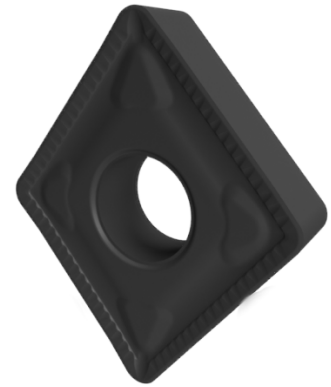
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMM 250924-M	YP25T	P	0,84	0,59	0,92	2,16	266
CNMM 250924-M	DM25T	M	0,84	0,59	0,92	2,16	84
CNMM 250924-M	BK25T	K	0,84	0,59	0,92	2,16	117
CNMM 250924-M	RH25T	H	0,84	0,59	0,92	2,16	155
CNMM 250924-M	ZS25T	S	0,84	0,59	0,92	2,16	26



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	2,40	80



CNMM 250924-R

Insert for roughing application

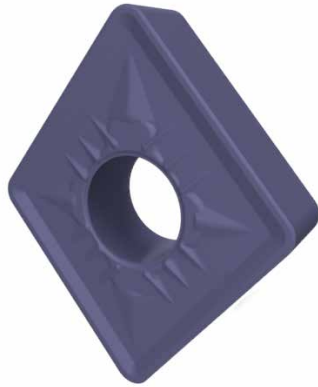


CUTTING PARAMETERS

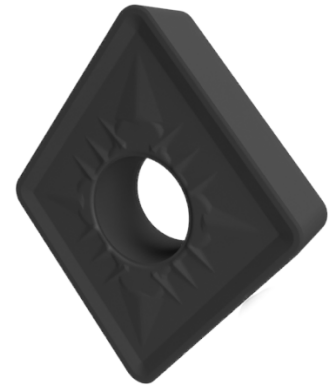
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMM 250924-R	YP35T	P	0,84	0,59	0,92	2,40	162
CNMM 250924-R	DM35T	M	0,84	0,59	0,92	2,40	71
CNMM 250924-R	BK35T	K	0,84	0,59	0,92	2,40	104
CNMM 250924-R	RH35T	H	0,84	0,59	0,92	2,40	130
CNMM 250924-R	ZS35T	S	0,84	0,59	0,92	2,40	26



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	2,40	80



CNMM 250932-R

Insert for roughing application

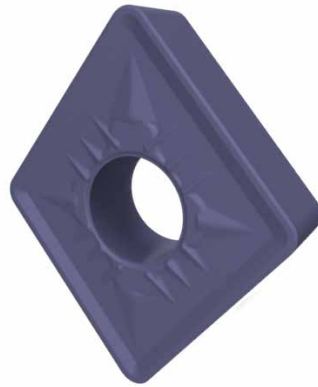


CUTTING PARAMETERS

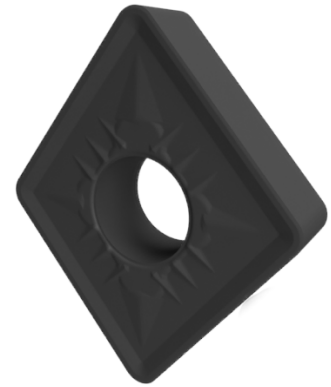
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMM 250932-R	YP35T	P	1,12	0,78	1,23	3,20	162
CNMM 250932-R	DM35T	M	1,12	0,78	1,23	3,20	71
CNMM 250932-R	BK35T	K	1,12	0,78	1,23	3,20	104
CNMM 250932-R	RH35T	H	1,12	0,78	1,23	3,20	130
CNMM 250932-R	ZS35T	S	1,12	0,78	1,23	3,20	26



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	3,20	80





CNMA 120408

Insert for medium application



K

Geometry M

Grade: BK25T

Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMA 120408	BK25T	K	0,32	0,26	0,38	0,72	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	0,80	80



CNMA 120412

Insert for medium application



K
 Geometry M
 Grade: BK25T
 Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMA 120412	BK25T	K	0,48	0,38	0,58	1,08	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	1,20	80



CNMA 120416

Insert for medium application



K

Geometry M

Grade: BK25T

Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal fn (mm giro)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CNMA 120416	BK25T	K	0,64	0,51	0,77	1,44	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	1,60	80

PCBN R/L

Tool holder for inserts CN 12-16-19-25



INSERT DIMENSION	DESCRIPTION
12	PCBNR/L 2020 K12
12	PCBNL/R 2525 M12
16	PCBNL/R 2525 M16
16	PCBNL/R 3225 P16
16	PCBNL/R 3232 P16
19	PCBNL/R 3232 P19
19	PCBNL/R 4040 S19
25	PCBNL/R 4040 S25
25	PCBNL/R 5050 T25

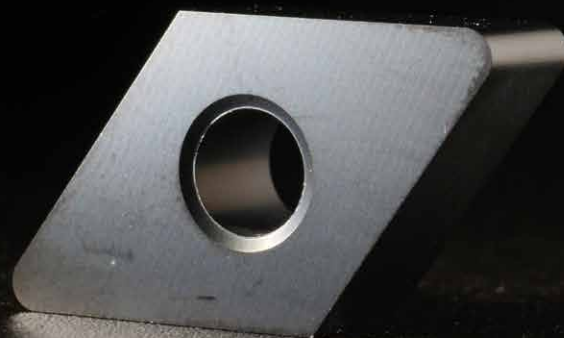
PCLN R/L

Tool holder for inserts CN 12-16-19-25



INSERT DIMENSION	DESCRIPTION
12	PCLNR/L 2020 K12
12	PCLNR/L 2525 K12
12	PCLNR/L 3225 P12
12	PCLNR/L 3232 P12
16	PCLNR/L 2525 M16
16	PCLNR/L 3225 P16
16	PCLNR/L 3232 P16
16	PCLNR/L 4040 S16
19	PCLNR/L 2525 M19
19	PCLNR/L 3225 P19
19	PCLNR/L 3232 P19
19	PCLNR/L 4040 S19
25	PCLNR/L 4040 S25
25	PCLNR/L 5050 T25





DNMA 150608

Insert for medium application



K

Geometry M
Grade: BK25T

Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMA 150608	BK25T	K	0,32	0,26	0,38	0,72	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,80	80



DNMA 150612

Insert for medium application



K
 Geometry M
 Grade: BK25T
 Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal fn (mm giro)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMA 150612	BK25T	K	0,48	0,38	0,58	1,08	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	1,20	80



DNMA 150616

Insert for medium application



K

Geometry M

Grade: BK25T

Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal fn (mm giro)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMA 150616	BK25T	K	0,64	0,51	0,77	1,44	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	1,60	80



DNMG 150604-F

Insert for finishing application



CUTTING PARAMETERS

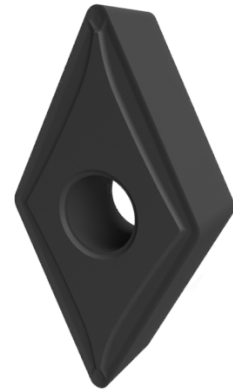
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMG 150604-F	YP15T	P	0,14	0,11	0,17	0,16	285
DNMG 150604-F	DM15T	M	0,14	0,11	0,17	0,16	140
DNMG 150604-F	BK15T	K	0,14	0,11	0,17	0,16	215
DNMG 150604-F	RH15T	H	0,14	0,11	0,17	0,16	200
DNMG 150604-F	ZS15T	S	0,14	0,11	0,17	0,16	45



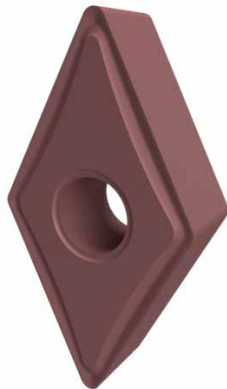
P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,40	55



DNMG 150608-M

Insert for medium application



CUTTING PARAMETERS

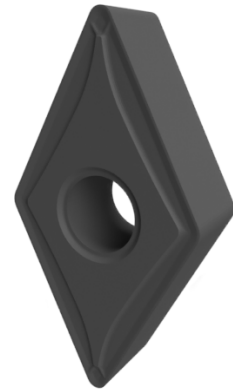
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMG 150608-M	YP25T	P	0,32	0,26	0,38	0,72	255
DNMG 150608-M	DM25T	M	0,32	0,26	0,38	0,72	100
DNMG 150608-M	BK25T	K	0,32	0,26	0,38	0,72	140
DNMG 150608-M	RH25T	H	0,32	0,26	0,38	0,72	180
DNMG 150608-M	ZS25T	S	0,32	0,26	0,38	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,80	55



DNMG 150612-R

Insert for roughing application



CUTTING PARAMETERS

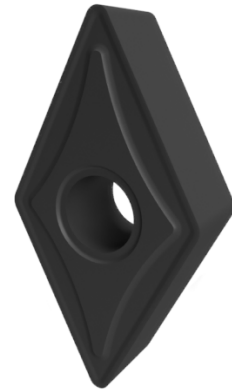
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMG 150612-R	YP35T	P	0,54	0,43	0,65	1,20	175
DNMG 150612-R	DM35T	M	0,54	0,43	0,65	1,20	120
DNMG 150612-R	BK35T	K	0,54	0,43	0,65	1,20	100
DNMG 150612-R	RH35T	H	0,54	0,43	0,65	1,20	160
DNMG 150612-R	ZS35T	S	0,54	0,43	0,65	1,20	25



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	1,20	55



DNMX 150604 L-F

Insert for finishing application

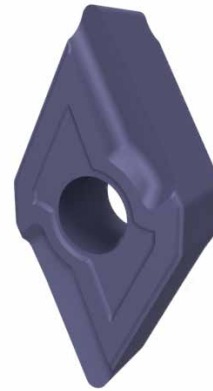


CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMX 150604 L-F	YP15T	P	0,14	0,11	0,17	0,16	285
DNMX 150604 L-F	DM15T	M	0,14	0,11	0,17	0,16	140
DNMX 150604 L-F	BK15T	K	0,14	0,11	0,17	0,16	215
DNMX 150604 L-F	RH15T	H	0,14	0,11	0,17	0,16	200



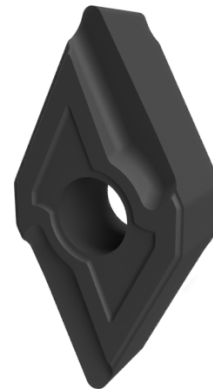
P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,40	55



DNMX 150608 L-M

Insert for medium application

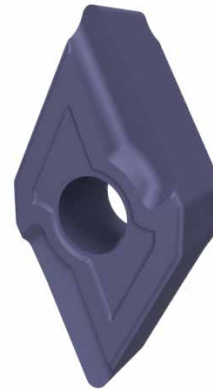


CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMX 150608 L-M	YP25T	P	0,32	0,26	0,38	0,72	255
DNMX 150608 L-M	DM25T	M	0,32	0,26	0,38	0,72	100
DNMX 150608 L-M	BK25T	K	0,32	0,26	0,38	0,72	140
DNMX 150608 L-M	RH25T	H	0,32	0,26	0,38	0,72	180



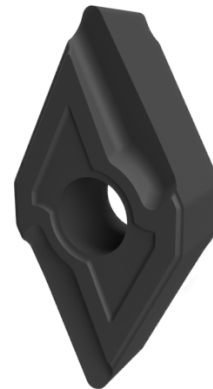
P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,80	55



DNMX 150604 R-F

Insert for finishing application

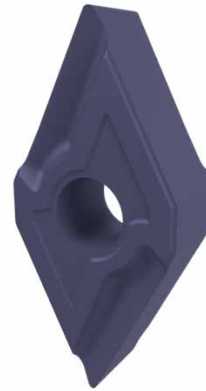


CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMX 150604 R-F	YP15T	P	0,14	0,11	0,17	0,16	285
DNMX 150604 R-F	DM15T	M	0,14	0,11	0,17	0,16	140
DNMX 150604 R-F	BK15T	K	0,14	0,11	0,17	0,16	215
DNMX 150604 R-F	RH15T	H	0,14	0,11	0,17	0,16	200



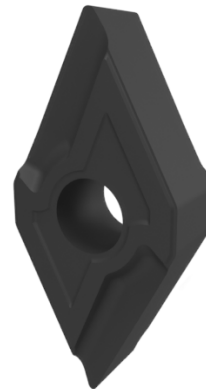
P
 Geometry F
 Grade: YP15T
 Processing: Finishing



M
 Geometry F
 Grade: DM15T
 Processing: Finishing



H
 Geometry F
 Grade: RH15T
 Processing: Finishing



K
 Geometry F
 Grade: BK15T
 Processing: Finishing

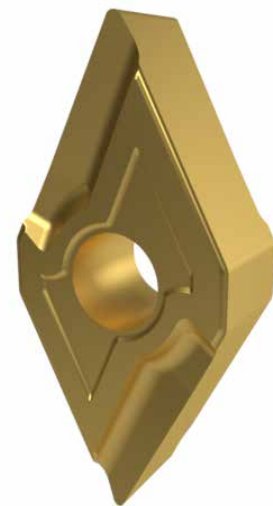
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,40	55



DNMX 150608 R-M

Insert for medium application

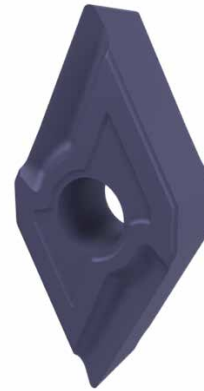


CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DNMX 150608 R-M	YP25T	P	0,32	0,26	0,38	0,72	255
DNMX 150608 R-M	DM25T	M	0,32	0,26	0,38	0,72	100
DNMX 150608 R-M	BK25T	K	0,32	0,26	0,38	0,72	140
DNMX 150608 R-M	RH25T	H	0,32	0,26	0,38	0,72	180



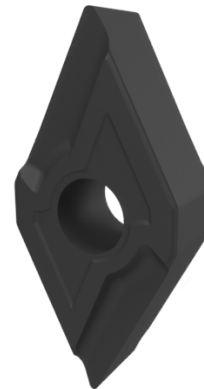
P
 Geometry M
 Grade: YP25T
 Processing: Medium



M
 Geometry M
 Grade: DM25T
 Processing: Medium



H
 Geometry M
 Grade: RH25T
 Processing: Medium



K
 Geometry M
 Grade: BK25T
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	6,35	0,80	55



PDJN R/L

Tool holder for inserts DN 15



INSERT DIMENSION	DESCRIPTION
15	PDJN R/L 2020 K15
15	PDJN R/L 2525 M15



KNUX 160405 L11-M

Insert for medium application

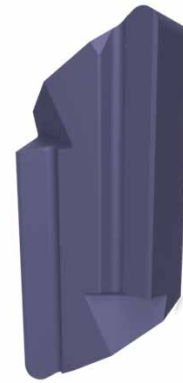


CUTTING PARAMETERS

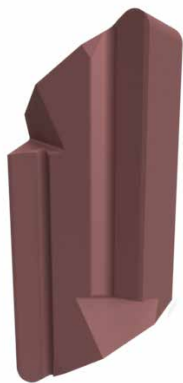
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160405 L11-M	YP25T	P	0,13	0,06	0,15	0,45	255
KNUX 160405 L11-M	DM25T	M	0,13	0,06	0,15	0,45	100
KNUX 160405 L11-M	BK25T	K	0,13	0,06	0,15	0,45	140
KNUX 160405 L11-M	RH25T	H	0,13	0,06	0,15	0,45	180



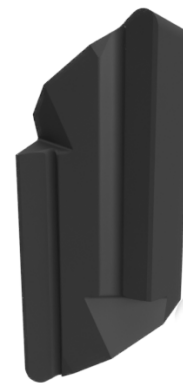
P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

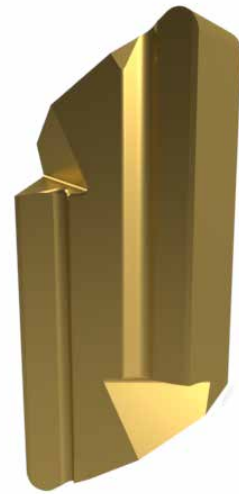
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,50	55



KNUX 160405 L12-M

Insert for medium application

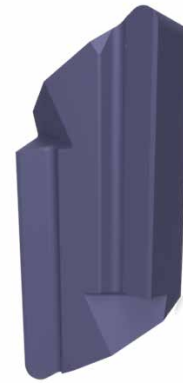


CUTTING PARAMETERS

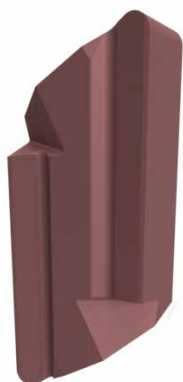
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160405 L12-M	YP25T	P	0,13	0,06	0,15	0,45	255
KNUX 160405 L12-M	DM25T	M	0,13	0,06	0,15	0,45	100
KNUX 160405 L12-M	BK25T	K	0,13	0,06	0,15	0,45	140
KNUX 160405 L12-M	RH25T	H	0,13	0,06	0,15	0,45	180



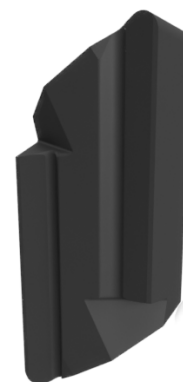
P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,50	55



KNUX 160410 L11-M

Insert for medium application

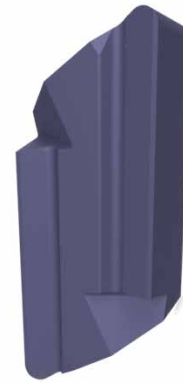


CUTTING PARAMETERS

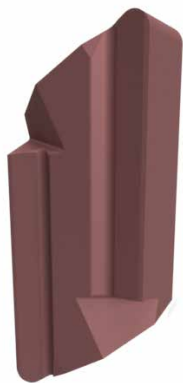
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160410 L11-M	YP25T	P	0,25	0,13	0,30	0,90	255
KNUX 160410 L11-M	DM25T	M	0,25	0,13	0,30	0,90	100
KNUX 160410 L11-M	BK25T	K	0,25	0,13	0,30	0,90	140
KNUX 160410 L11-M	RH25T	H	0,25	0,13	0,30	0,90	180



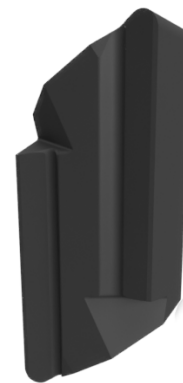
P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

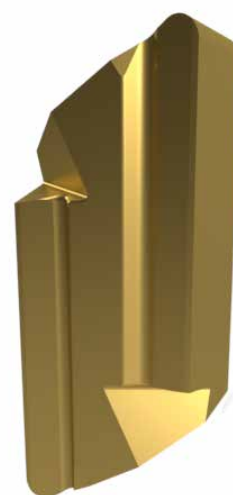
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	1,00	55



KNUX 160410 L12-M

Insert for medium application

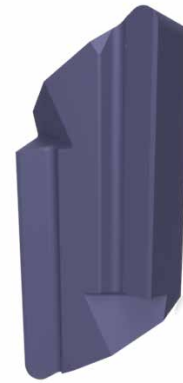


CUTTING PARAMETERS

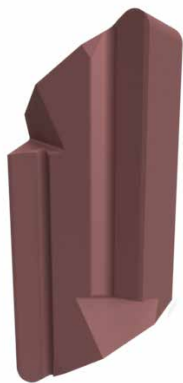
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160410 L12-M	YP25T	P	0,25	0,13	0,30	0,90	255
KNUX 160410 L12-M	DM25T	M	0,25	0,13	0,30	0,90	100
KNUX 160410 L12-M	BK25T	K	0,25	0,13	0,30	0,90	140
KNUX 160410 L12-M	RH25T	H	0,25	0,13	0,30	0,90	180



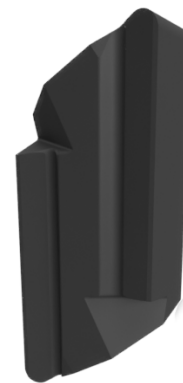
P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

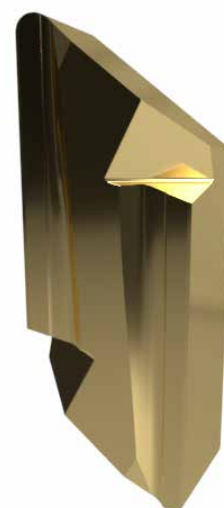
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	1,00	55



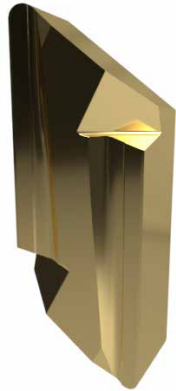
KNUX 160405 R11-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160405 R11-M	YP25T	P	0,13	0,06	0,15	0,45	255
KNUX 160405 R11-M	DM25T	M	0,13	0,06	0,15	0,45	100
KNUX 160405 R11-M	BK25T	K	0,13	0,06	0,15	0,45	140
KNUX 160405 R11-M	RH25T	H	0,13	0,06	0,15	0,45	180



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

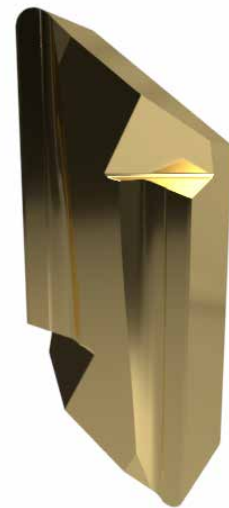
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,50	55



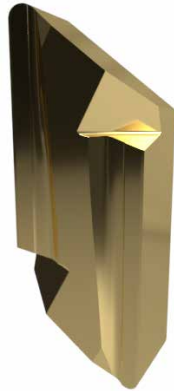
KNUX 160405 R12-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160405 R12-M	YP25T	P	0,13	0,06	0,15	0,45	255
KNUX 160405 R12-M	DM25T	M	0,13	0,06	0,15	0,45	100
KNUX 160405 R12-M	BK25T	K	0,13	0,06	0,15	0,45	140
KNUX 160405 R12-M	RH25T	H	0,13	0,06	0,15	0,45	180



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

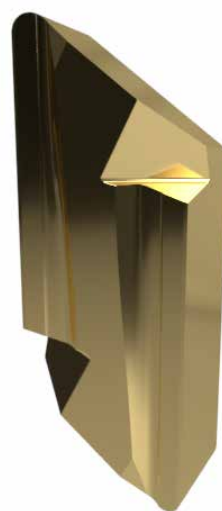
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,50	55



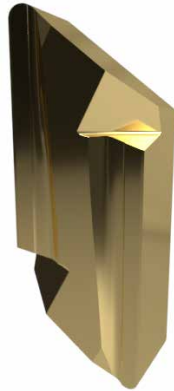
KNUX 160410 R11-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160410 R11-M	YP25T	P	0,25	0,13	0,30	0,90	255
KNUX 160410 R11-M	DM25T	M	0,25	0,13	0,30	0,90	100
KNUX 160410 R11-M	BK25T	K	0,25	0,13	0,30	0,90	140
KNUX 160410 R11-M	RH25T	H	0,25	0,13	0,30	0,90	180



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

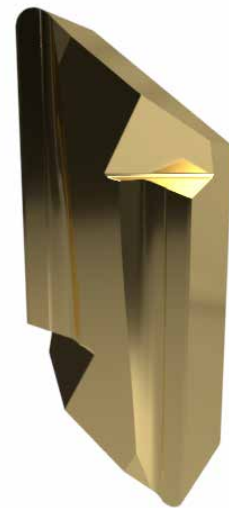
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	1,00	55



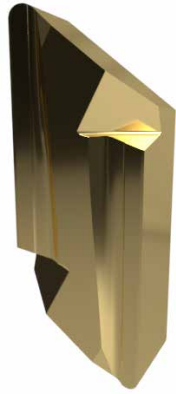
KNUX 160410 R12-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
KNUX 160410 R12-M	YP25T	P	0,25	0,13	0,30	0,90	255
KNUX 160410 R12-M	DM25T	M	0,25	0,13	0,30	0,90	100
KNUX 160410 R12-M	BK25T	K	0,25	0,13	0,30	0,90	140
KNUX 160410 R12-M	RH25T	H	0,25	0,13	0,30	0,90	180



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	1,00	55



CKJN R/L

Tool holder for inserts KN 15



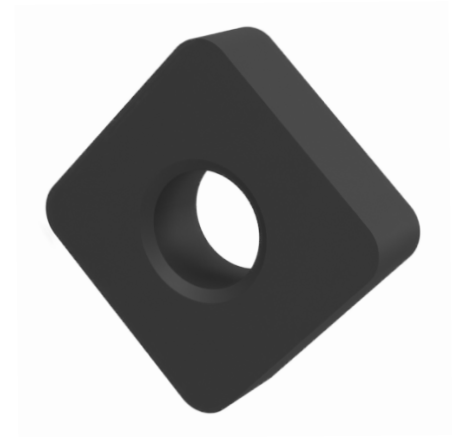
INSERT DIMENSION	DESCRIPTION
16	CKJN R/L 2020 K16
16	CKJN R/L 2525 K16





SNMA 120408

Insert for medium application



K

Geometry M

Grade: BK25T

Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMA 120408	BK25T	K	0,32	0,26	0,38	0,72	140

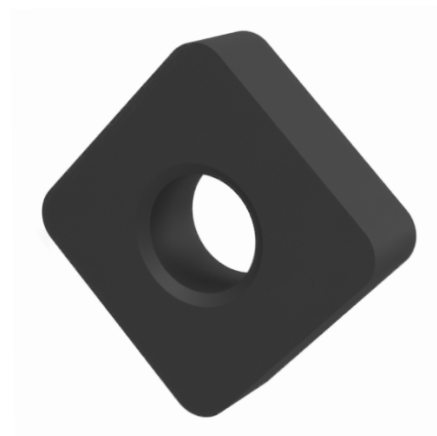
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	0,80	80



SNMA 120412

Insert for medium application



K
 Geometry M
 Grade: BK25T
 Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMA 120412	BK25T	K	0,48	0,38	0,58	1,08	140

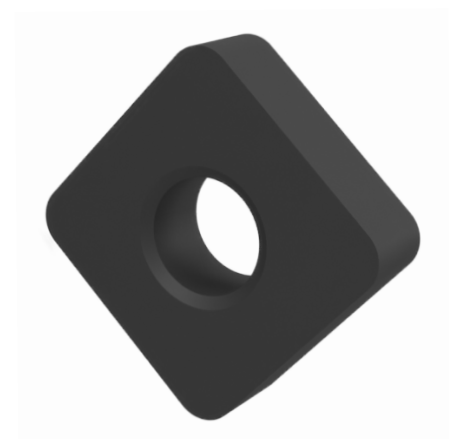
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	4,76	1,20	80



SNMA 120416

Insert for medium application



K

Geometry M

Grade: BK25T

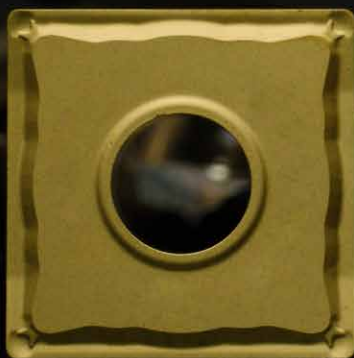
Processing: Medium

CUTTING PARAMETERS

Description	Grade	Iso	Nominal fn (mm giro)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMA 120416	BK25T	K	0,64	0,51	0,77	1,44	140

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	12,70	15,00	4,76	1,60	80



SNMG 120404-F

Insert for finishing application

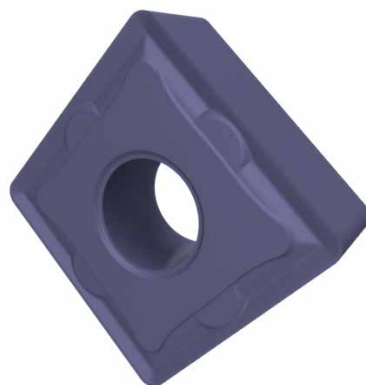


CUTTING PARAMETERS

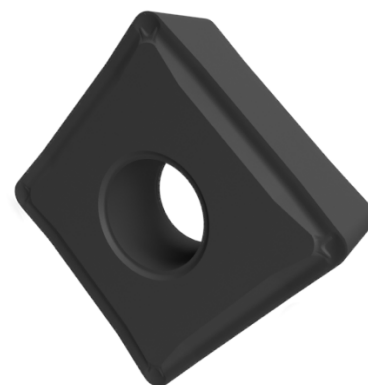
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 120404-F	YP15T	P	0,14	0,11	0,17	0,16	285
SNMG 120404-F	DM15T	M	0,14	0,11	0,17	0,16	140
SNMG 120404-F	BK15T	K	0,14	0,11	0,17	0,16	215
SNMG 120404-F	RH15T	H	0,14	0,11	0,17	0,16	200
SNMG 120404-F	ZS15T	S	0,14	0,11	0,17	0,16	45



P
Geometry F
Grade: YP15T
Processing: Finishing



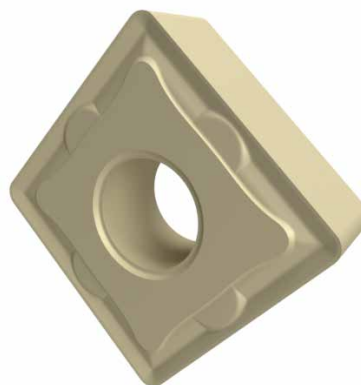
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



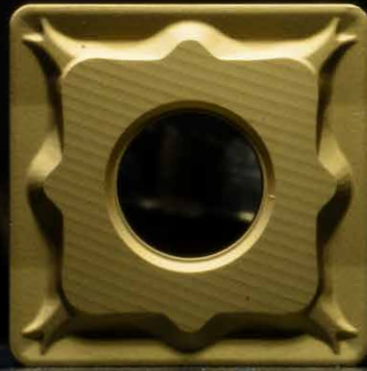
H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	0,40	90



SNMG 120408-M

Insert for medium application

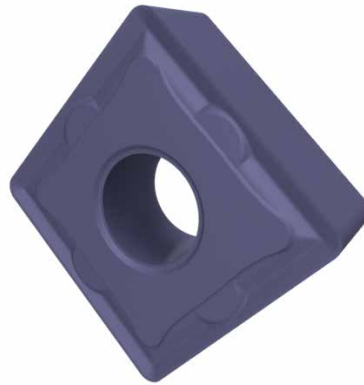


CUTTING PARAMETERS

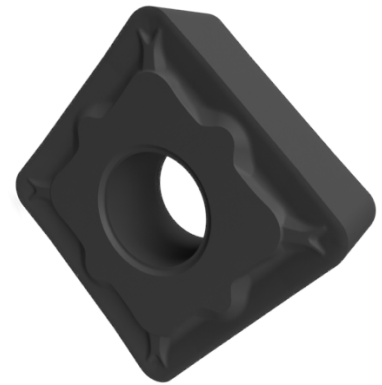
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 120408-M	YP25T	P	0,32	0,26	0,38	0,72	255
SNMG 120408-M	DM25T	M	0,32	0,26	0,38	0,72	100
SNMG 120408-M	BK25T	K	0,32	0,26	0,38	0,72	140
SNMG 120408-M	RH25T	H	0,32	0,26	0,38	0,72	180
SNMG 120408-M	ZS25T	S	0,32	0,26	0,38	0,72	35



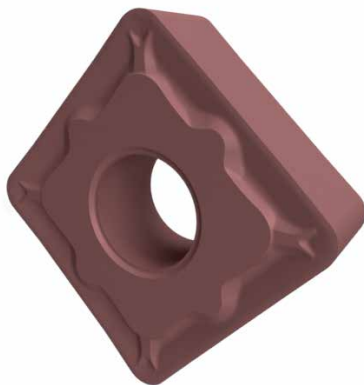
P
Geometry M
Grade: YP25T
Processing: Medium



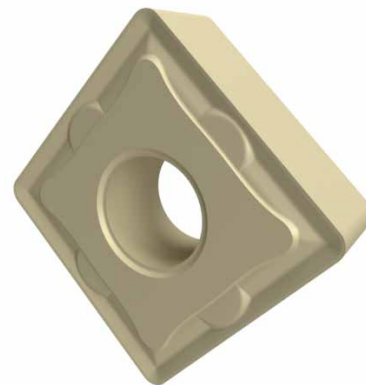
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

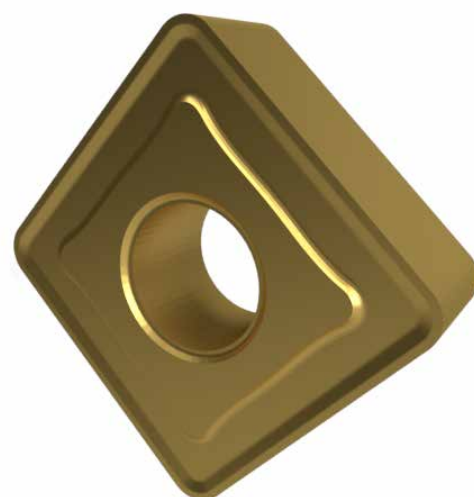
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	0,80	90



SNMG 120412-R

Insert for roughing application

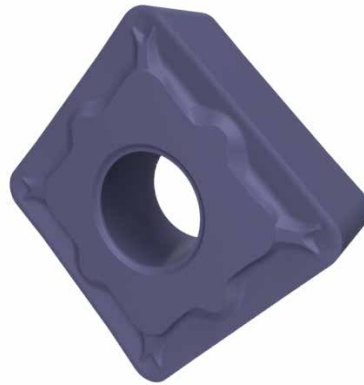


CUTTING PARAMETERS

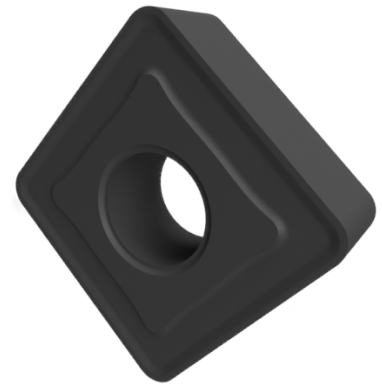
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 120412-R	YP35T	P	0,54	0,43	0,65	1,20	175
SNMG 120412-R	DM35T	M	0,54	0,43	0,65	1,20	120
SNMG 120412-R	BK35T	K	0,54	0,43	0,65	1,20	100
SNMG 120412-R	RH35T	H	0,54	0,43	0,65	1,20	160
SNMG 120412-R	ZS35T	S	0,54	0,43	0,65	1,20	25



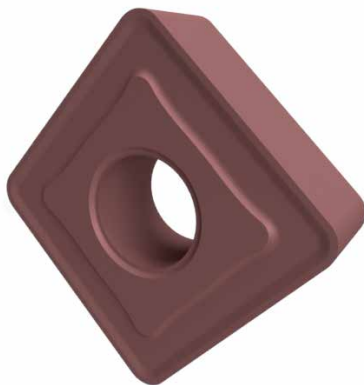
P
Geometry R
Grade: YP35T
Processing: Roughing



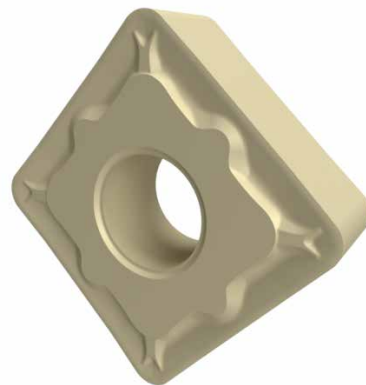
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



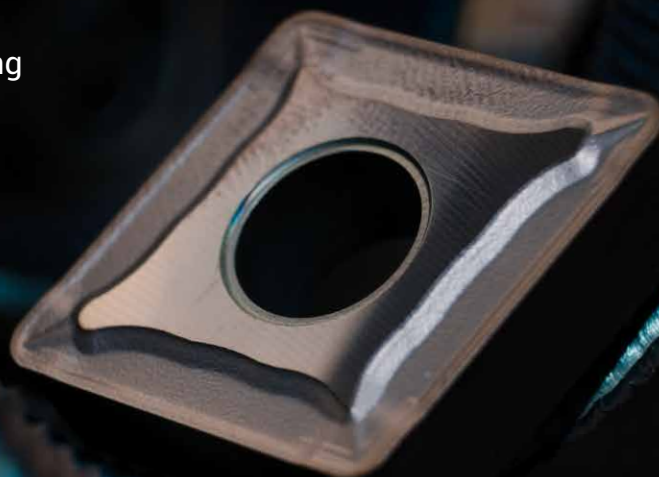
H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,00	4,76	1,20	90



SNMG 150612-F

Insert for finishing application

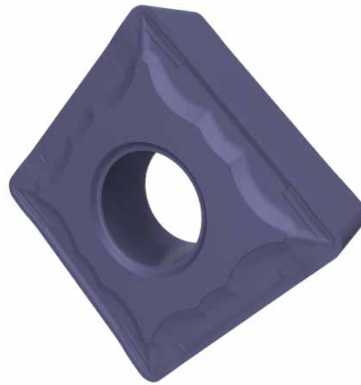


CUTTING PARAMETERS

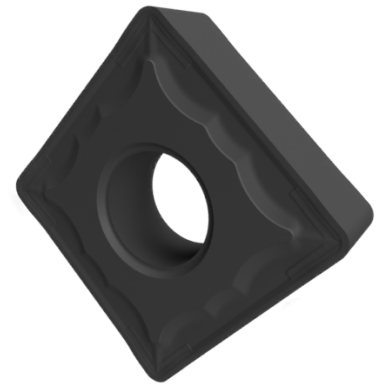
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 150612-F	YP15T	P	0,42	0,34	0,50	0,48	270
SNMG 150612-F	DM15T	M	0,42	0,34	0,50	0,48	148
SNMG 150612-F	BK15T	K	0,42	0,34	0,50	0,48	216
SNMG 150612-F	RH15T	H	0,42	0,34	0,50	0,48	190
SNMG 150612-F	ZS15T	S	0,42	0,34	0,50	0,48	48



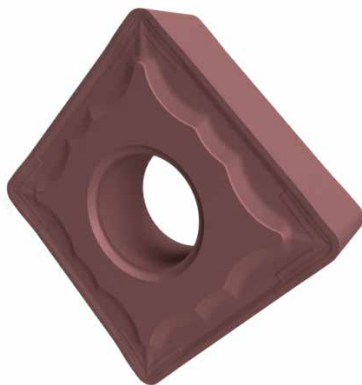
P
 Geometry F
 Grade: YP15T
 Processing: Finishing



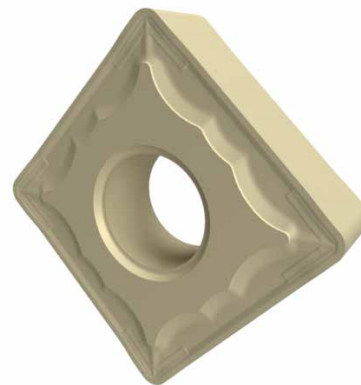
M
 Geometry F
 Grade: DM15T
 Processing: Finishing



K
 Geometry F
 Grade: BK15T
 Processing: Finishing



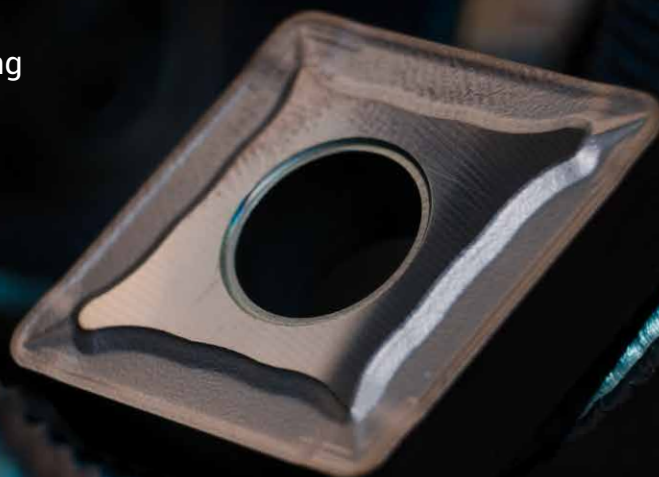
H
 Geometry F
 Grade: RH15T
 Processing: Finishing



S
 Geometry F
 Grade: ZS15T
 Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	15,875	15,00	6,35	1,20	90



SNMG 150616-M

Insert for medium application

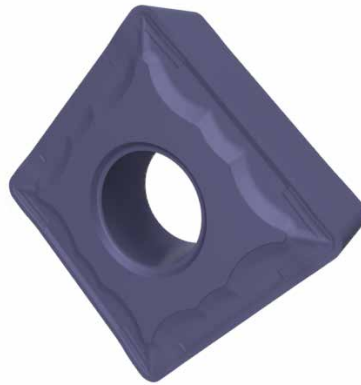


CUTTING PARAMETERS

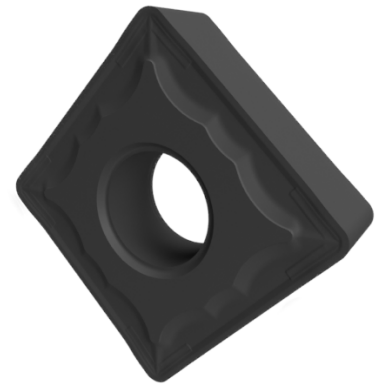
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 150616-M	YP25T	P	0,64	0,51	0,77	1,44	269
SNMG 150616-M	DM25T	M	0,64	0,51	0,77	1,44	106
SNMG 150616-M	BK25T	K	0,64	0,51	0,77	1,44	148
SNMG 150616-M	RH25T	H	0,64	0,51	0,77	1,44	169
SNMG 150616-M	ZS25T	S	0,64	0,51	0,77	1,44	37



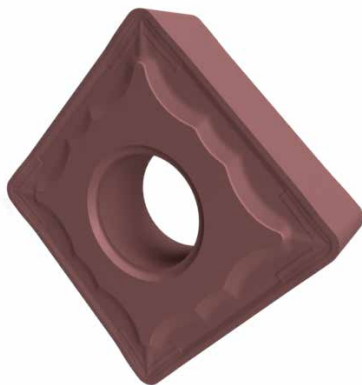
P
Geometry M
Grade: YP25T
Processing: Medium



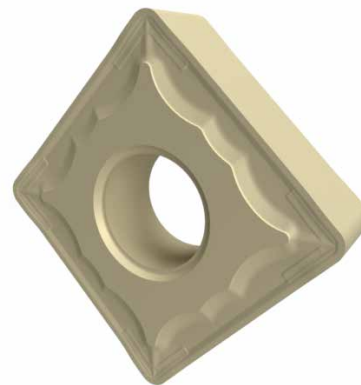
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



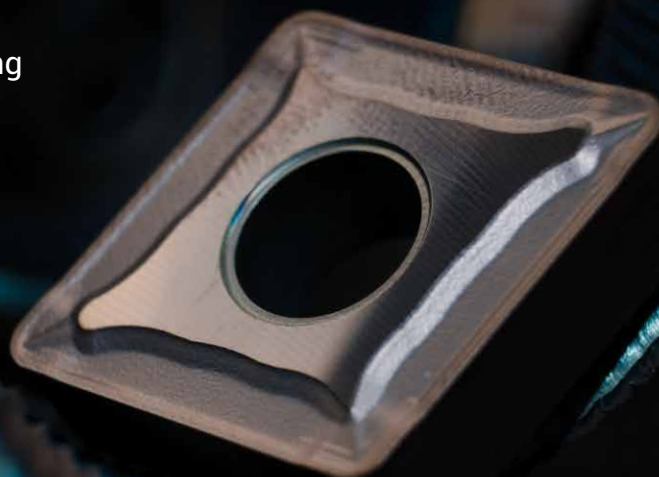
H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	15,875	15,00	6,35	1,60	90



SNMG 150618-R

Insert for roughing application

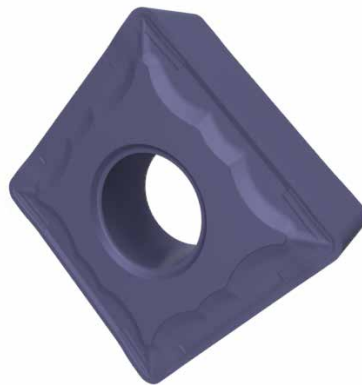


CUTTING PARAMETERS

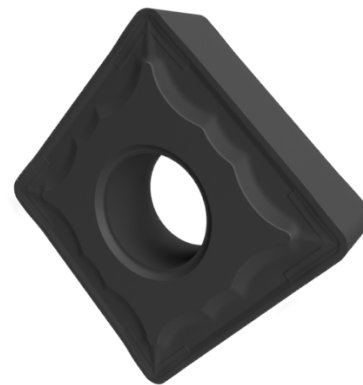
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 150618-R	YP35T	P	0,81	0,65	0,97	1,80	169
SNMG 150618-R	DM35T	M	0,81	0,65	0,97	1,80	106
SNMG 150618-R	BK35T	K	0,81	0,65	0,97	1,80	106
SNMG 150618-R	RH35T	H	0,81	0,65	0,97	1,80	148
SNMG 150618-R	ZS35T	S	0,81	0,65	0,97	1,80	26



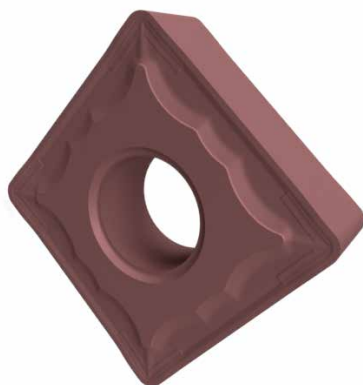
P
Geometry R
Grade: YP35T
Processing: Roughing



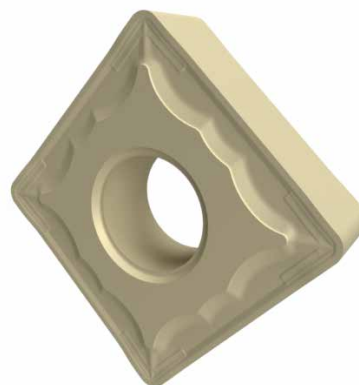
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



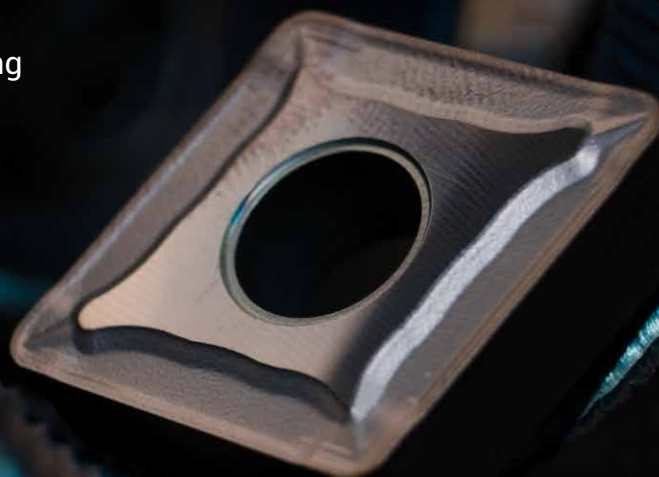
H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
15	15,875	15,00	6,35	1,80	90



SNMG 190616-F

Insert for finishing application

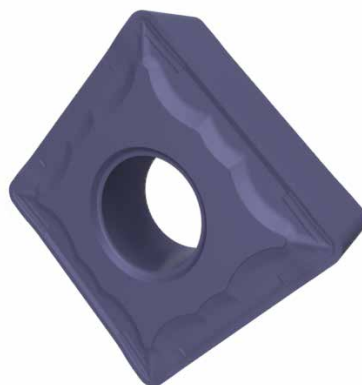


CUTTING PARAMETERS

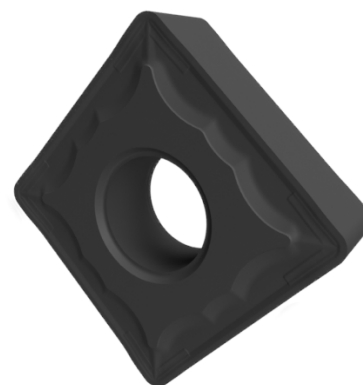
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 190616-F	YP15T	P	0,56	0,45	0,67	0,64	230
SNMG 190616-F	DM15T	M	0,56	0,45	0,67	0,64	149
SNMG 190616-F	BK15T	K	0,56	0,45	0,67	0,64	223
SNMG 190616-F	RH15T	H	0,56	0,45	0,67	0,64	198
SNMG 190616-F	ZS15T	S	0,56	0,45	0,67	0,64	50



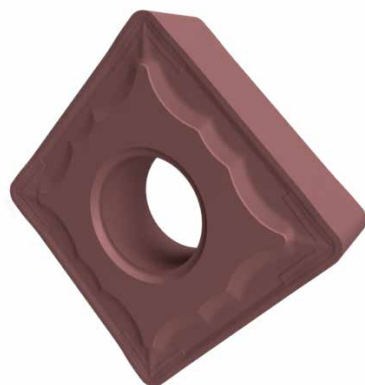
P
Geometry F
Grade: YP15T
Processing: Finishing



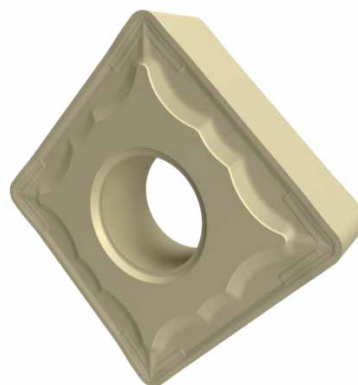
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



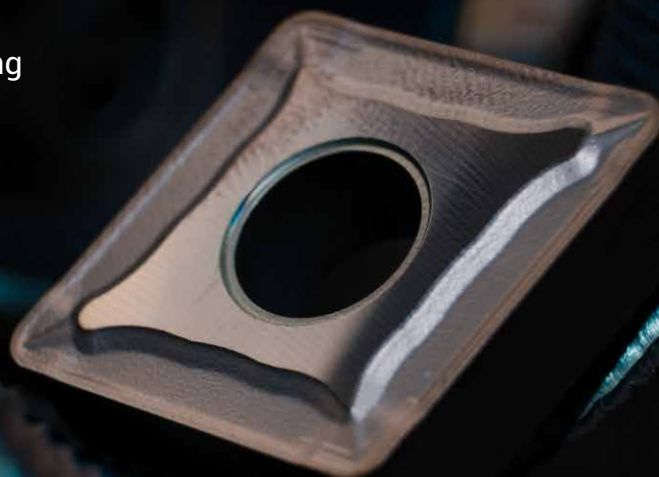
H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	1,60	90



SNMG 190624-M

Insert for medium application

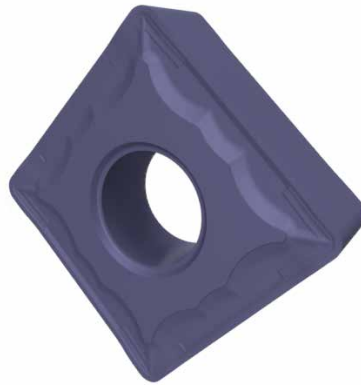


CUTTING PARAMETERS

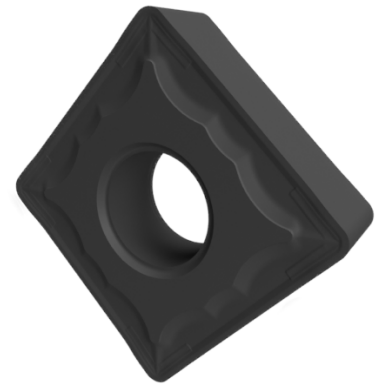
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 190624-M	YP25T	P	0,96	0,77	1,15	2,16	235
SNMG 190624-M	DM25T	M	0,96	0,77	1,15	2,16	124
SNMG 190624-M	BK25T	K	0,96	0,77	1,15	2,16	118
SNMG 190624-M	RH25T	H	0,96	0,77	1,15	2,16	173
SNMG 190624-M	ZS25T	S	0,96	0,77	1,15	2,16	25



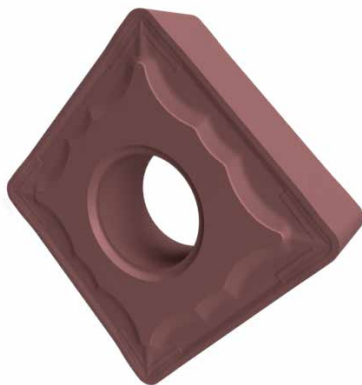
P
Geometry M
Grade: YP25T
Processing: Medium



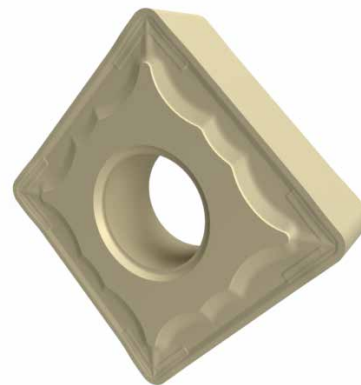
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



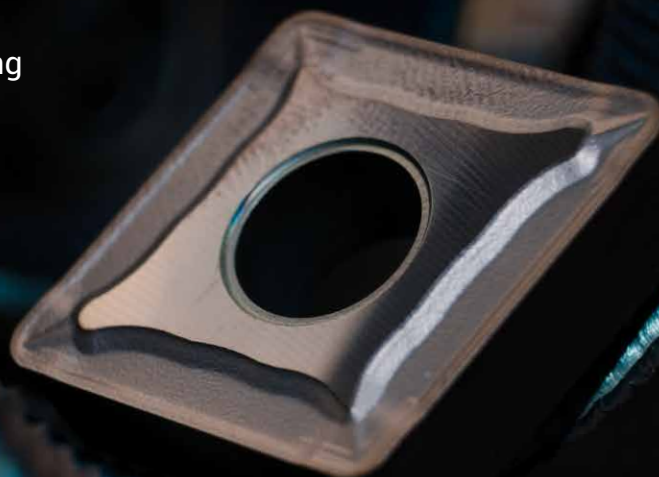
H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	2,40	90



SNMG 190624-R

Insert for roughing application

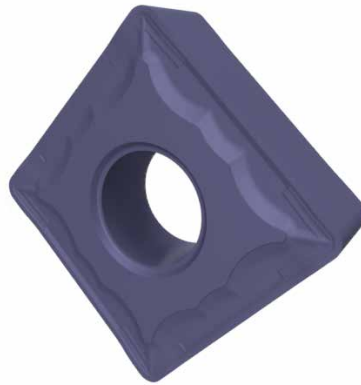


CUTTING PARAMETERS

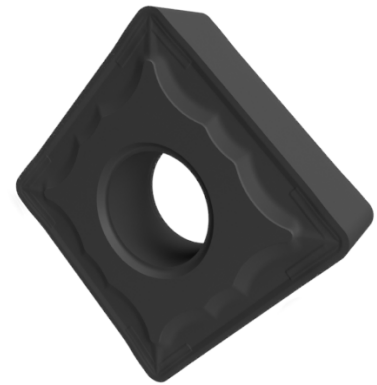
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 190624-R	YP35T	P	1,08	0,86	1,30	2,40	161
SNMG 190624-R	DM35T	M	1,08	0,86	1,30	2,40	118
SNMG 190624-R	BK35T	K	1,08	0,86	1,30	2,40	99
SNMG 190624-R	RH35T	H	1,08	0,86	1,30	2,40	149
SNMG 190624-R	ZS35T	S	1,08	0,86	1,30	2,40	25



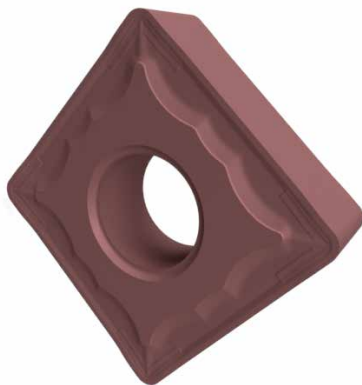
P
Geometry R
Grade: YP35T
Processing: Roughing



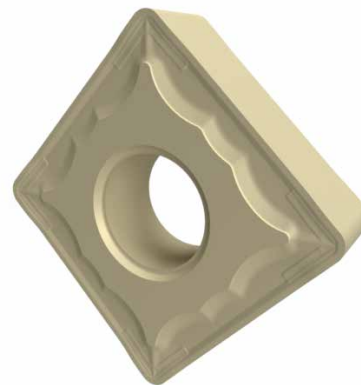
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

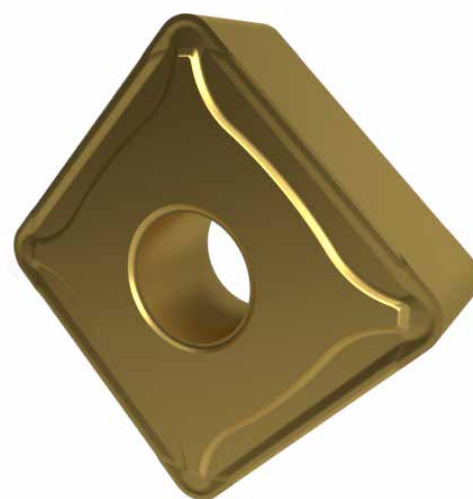
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	2,40	90



SNMG 250918-F

Insert for finishing application

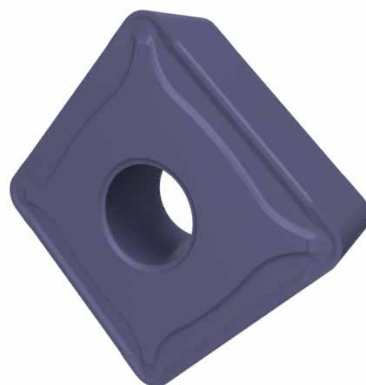


CUTTING PARAMETERS

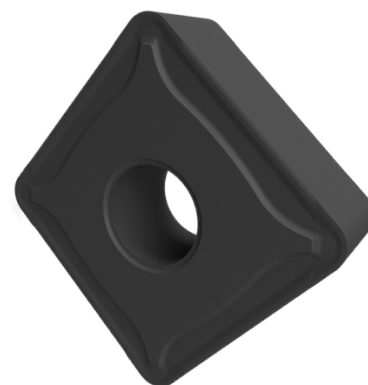
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 250918 - F	YP15T	P	0,45	0,36	0,54	0,72	220
SNMG 250918 - F	DM15T	M	0,45	0,36	0,54	0,72	181
SNMG 250918 - F	BK15T	K	0,45	0,36	0,54	0,72	220
SNMG 250918 - F	RH15T	H	0,45	0,36	0,54	0,72	181
SNMG 250918 - F	ZS15T	S	0,45	0,36	0,54	0,72	52



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

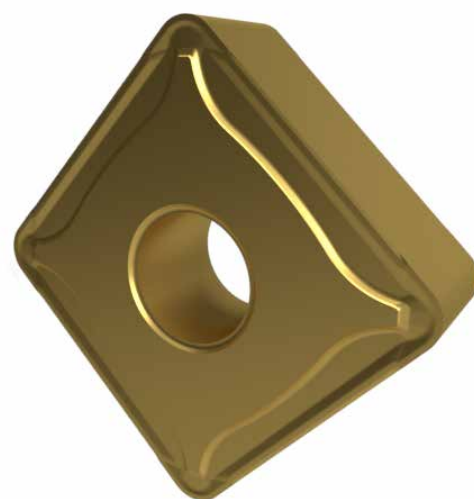
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	1,80	90



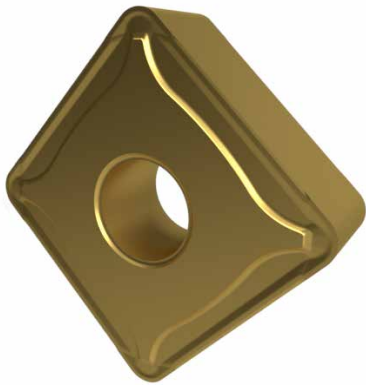
SNMG 250924-M

Insert for medium application

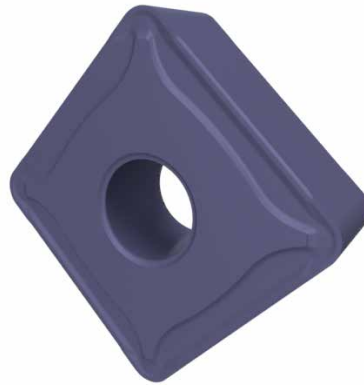


CUTTING PARAMETERS

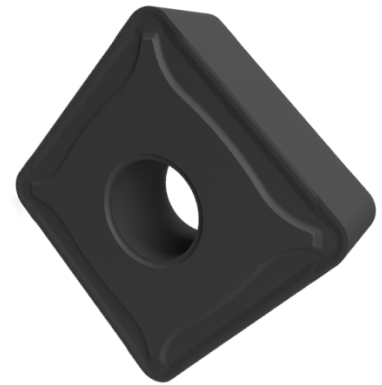
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMG 250924-M	YP25T	P	0,84	0,59	0,92	2,16	266
SNMG 250924-M	DM25T	M	0,84	0,59	0,92	2,16	84
SNMG 250924-M	BK25T	K	0,84	0,59	0,92	2,16	117
SNMG 250924-M	RH25T	H	0,84	0,59	0,92	2,16	155
SNMG 250924-M	ZS25T	S	0,84	0,59	0,92	2,16	26



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

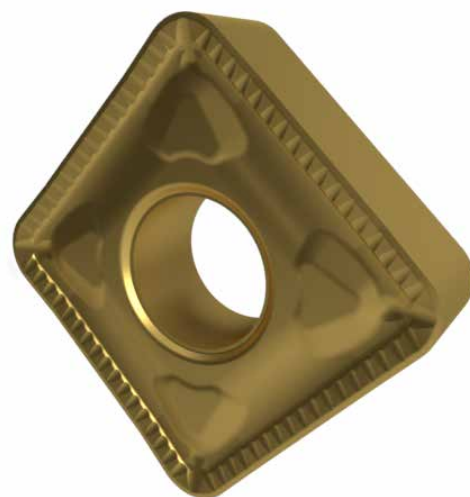
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	2,40	90



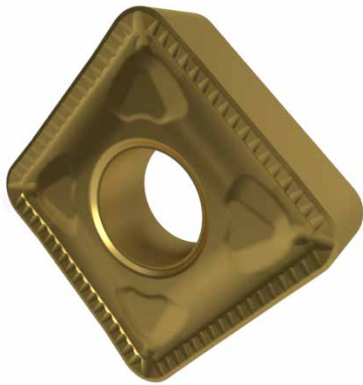
SNMM 190618-M

Insert for medium application

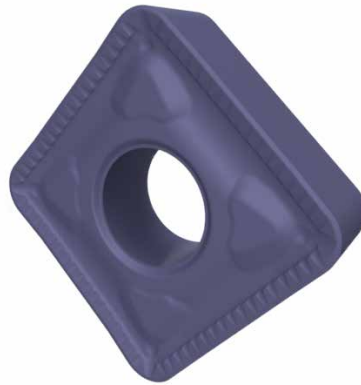


CUTTING PARAMETERS

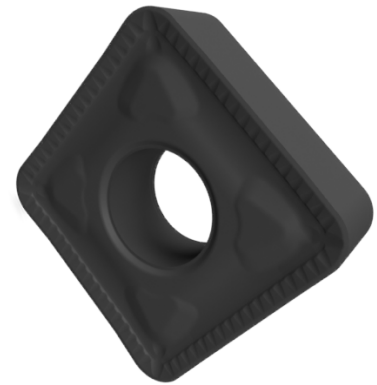
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMM 190618-M	YP25T	P	0,63	0,50	0,76	0,72	230
SNMM 190618-M	DM25T	M	0,63	0,50	0,76	0,72	149
SNMM 190618-M	BK25T	K	0,63	0,50	0,76	0,72	223
SNMM 190618-M	RH25T	H	0,63	0,50	0,76	0,72	198
SNMM 190618-M	ZS25T	S	0,63	0,50	0,76	0,72	50



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	1,80	90



SNMM 190624-R

Insert for roughing application

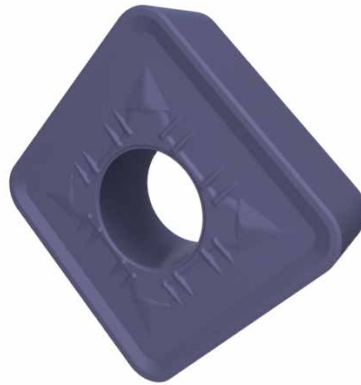


CUTTING PARAMETERS

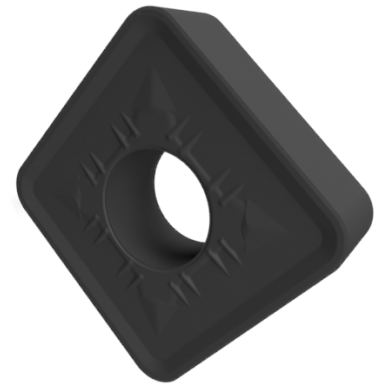
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMM 190624-R	YP35T	P	1,08	0,86	1,30	2,40	235
SNMM 190624-R	DM35T	M	1,08	0,86	1,30	2,40	124
SNMM 190624-R	BK35T	K	1,08	0,86	1,30	2,40	118
SNMM 190624-R	RH35T	H	1,08	0,86	1,30	2,40	173
SNMM 190624-R	ZS35T	S	1,08	0,86	1,30	2,40	25



P
Geometry R
Grade: YP35T
Processing: Roughing



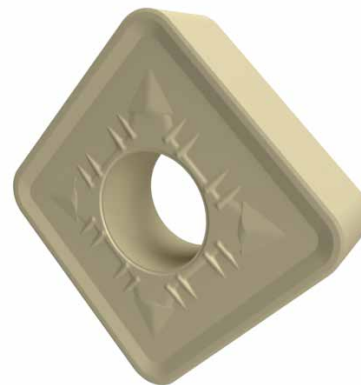
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

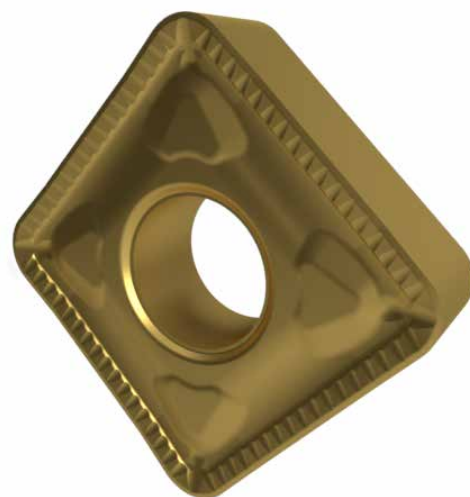
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
19	19,05	19,00	6,35	2,40	90



SNMM 250924-M

Insert for medium application

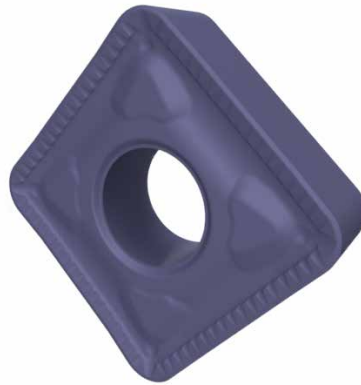


CUTTING PARAMETERS

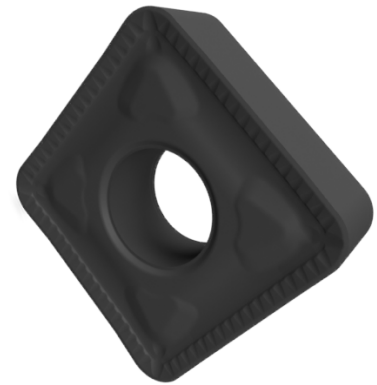
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMM 250924-M	YP25T	P	0,84	0,59	0,92	2,16	266
SNMM 250924-M	DM25T	M	0,84	0,59	0,92	2,16	84
SNMM 250924-M	BK25T	K	0,84	0,59	0,92	2,16	117
SNMM 250924-M	RH25T	H	0,84	0,59	0,92	2,16	155
SNMM 250924-M	ZS25T	S	0,84	0,59	0,92	2,16	26



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	2,40	90



SNMM 250924-R

Insert for roughing application



CUTTING PARAMETERS

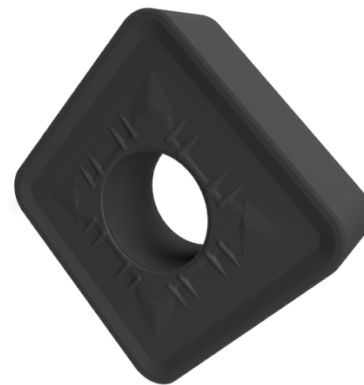
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMM 250924-R	YP35T	P	0,84	0,59	0,92	2,40	162
SNMM 250924-R	DM35T	M	0,84	0,59	0,92	2,40	71
SNMM 250924-R	BK35T	K	0,84	0,59	0,92	2,40	104
SNMM 250924-R	RH35T	H	0,84	0,59	0,92	2,40	130
SNMM 250924-R	ZS35T	S	0,84	0,59	0,92	2,40	26



P
Geometry R
Grade: YP35T
Processing: Roughing



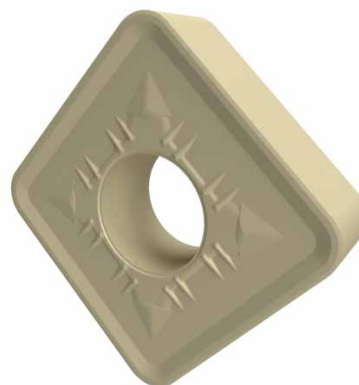
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	2,40	90



SNMM 250932-R

Insert for roughing application

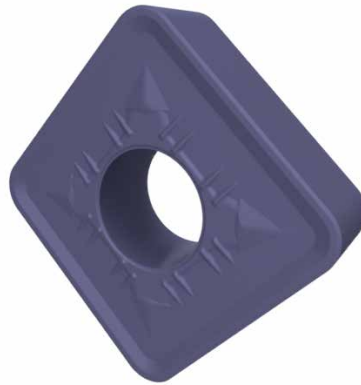


CUTTING PARAMETERS

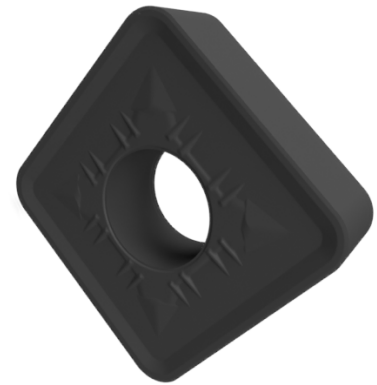
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SNMM 250932-R	YP35T	P	1,12	0,78	1,23	3,20	162
SNMM 250932-R	DM35T	M	1,12	0,78	1,23	3,20	71
SNMM 250932-R	BK35T	K	1,12	0,78	1,23	3,20	104
SNMM 250932-R	RH35T	H	1,12	0,78	1,23	3,20	130
SNMM 250932-R	ZS35T	S	1,12	0,78	1,23	3,20	26



P
 Geometry R
 Grade: YP35T
 Processing: Roughing



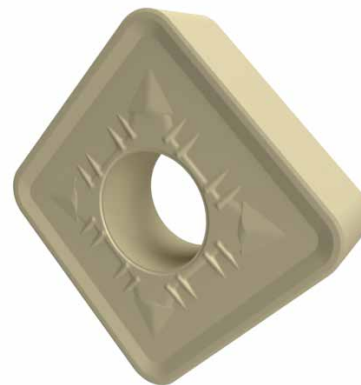
M
 Geometry R
 Grade: DM35T
 Processing: Roughing



K
 Geometry R
 Grade: BK35T
 Processing: Roughing



H
 Geometry R
 Grade: RH35T
 Processing: Roughing



S
 Geometry R
 Grade: ZS35T
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,40	25,00	9,52	3,20	90

PSBN R/L

Tool holder for inserts SN 12-16-19-25



INSERT DIMENSION	DESCRIPTION
12	PSBNR/L 2020 K12
12	PSBNR/L 2525 K12
16	PSBNR/L 2525 M15
16	PSBNR/L 3225 P15
16	PSBNR/L 3232 P15
19	PSBNR/L 3232 P19
19	PSBNR/L 4040 S19
25	PSBNR/L 4040 S25
25	PSBNR/L 5050 T25

PSSNR/L

Tool holder for inserts SN 12-16-19-25



INSERT DIMENSION	DESCRIPTION
12	PSSNR/L 2020 K12
12	PSSNR/L 2525 K12
16	PSSNR/L 2525 M15
16	PSSNR/L 3225 P15
16	PSSNR/L 3232 P15
19	PSSNR/L 3232 P19
19	PSSNR/L 4040 S19
25	PSSNR/L 4040 S25
25	PSSNR/L 5050 T25



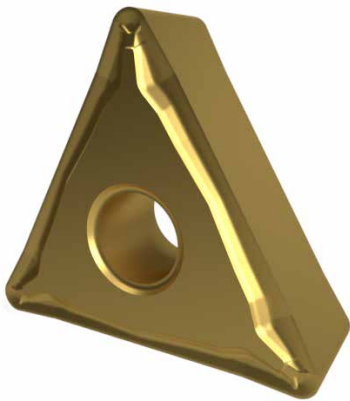
TNMG 160404-F

Insert for finishing application

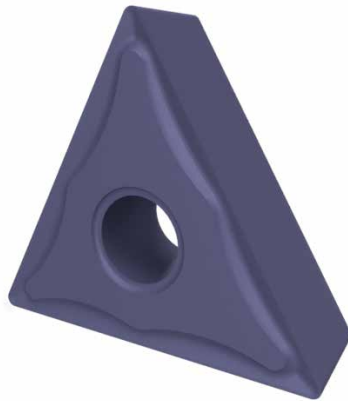


CUTTING PARAMETERS

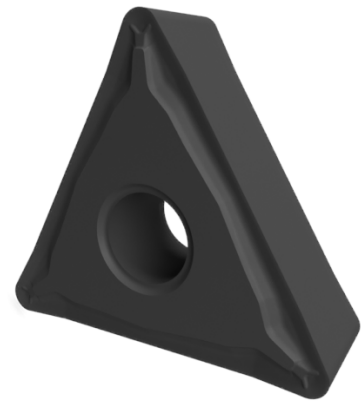
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TNMG 160404-F	YP15T	P	0,14	0,11	0,17	0,36	285
TNMG 160404-F	DM15T	M	0,14	0,11	0,17	0,36	140
TNMG 160404-F	BK15T	K	0,14	0,11	0,17	0,36	215
TNMG 160404-F	RH15T	H	0,14	0,11	0,17	0,36	200
TNMG 160404-F	ZS15T	S	0,14	0,11	0,17	0,36	45



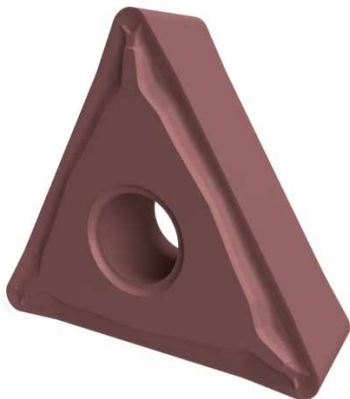
P
Geometry F
Grade: YP15T
Processing: Finishing



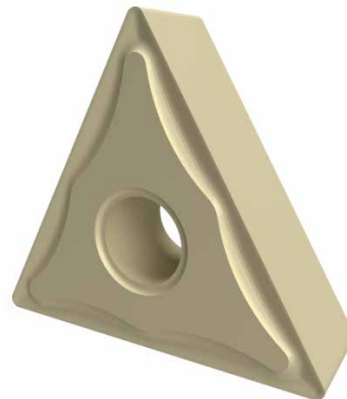
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,40	60



TNMG 160408-M

Insert for medium application

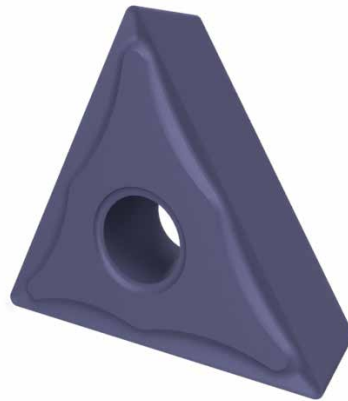


CUTTING PARAMETERS

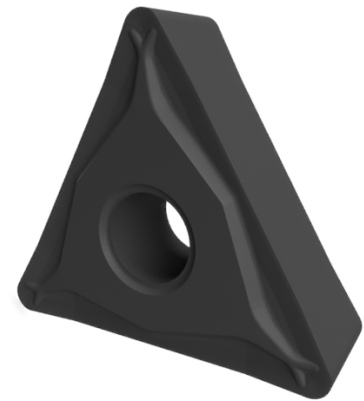
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TNMG 160408-M	YP25T	P	0,20	0,10	0,24	0,72	255
TNMG 160408-M	DM25T	M	0,20	0,10	0,24	0,72	100
TNMG 160408-M	BK25T	K	0,20	0,10	0,24	0,72	140
TNMG 160408-M	RH25T	H	0,20	0,10	0,24	0,72	180
TNMG 160408-M	ZS25T	S	0,20	0,10	0,24	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



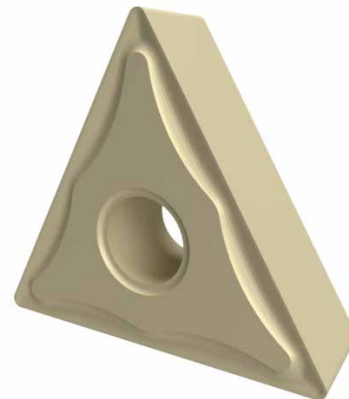
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,80	60



TNMG 160412-R

Insert for roughing application

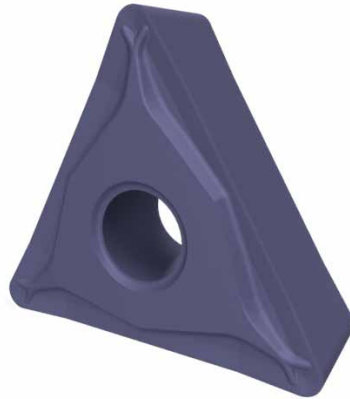


CUTTING PARAMETERS

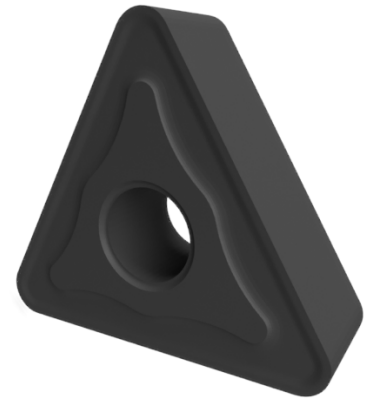
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TNMG 160412-R	YP35T	P	0,30	0,15	0,36	1,08	175
TNMG 160412-R	DM35T	M	0,30	0,15	0,36	1,08	120
TNMG 160412-R	BK35T	K	0,30	0,15	0,36	1,08	100
TNMG 160412-R	RH35T	H	0,30	0,15	0,36	1,08	160
TNMG 160412-R	ZS35T	S	0,30	0,15	0,36	1,08	25



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	1,20	60



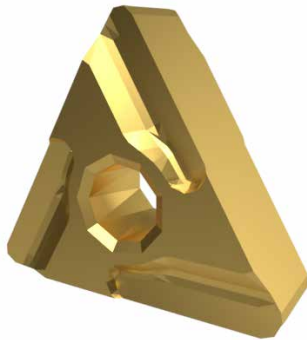
TNMX 160408 L-M

Insert for medium application

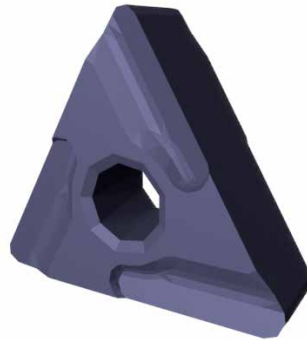


CUTTING PARAMETERS

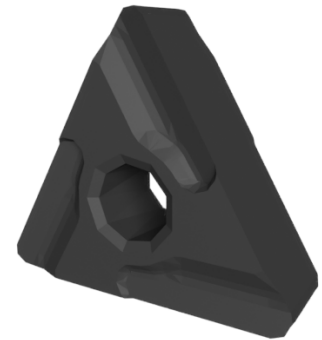
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TNMX 160408 L-M	YP25T	P	0,20	0,10	0,24	0,72	255
TNMX 160408 L-M	DM25T	M	0,20	0,10	0,24	0,72	100
TNMX 160408 L-M	BK25T	K	0,20	0,10	0,24	0,72	140
TNMX 160408 L-M	RH25T	H	0,20	0,10	0,24	0,72	180
TNMX 160408 L-M	ZS25T	S	0,20	0,10	0,24	0,72	35



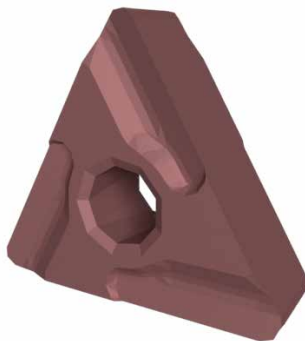
P
Geometry M
Grade: YP25T
Processing: Medium



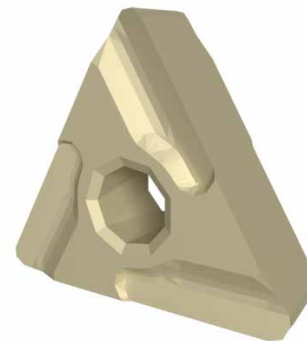
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,80	60



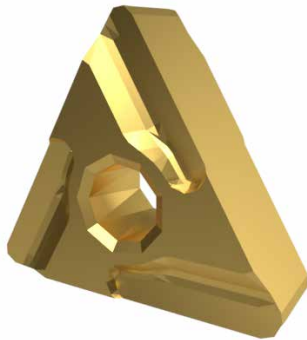
TNMX 160408 R-M

Insert for medium application

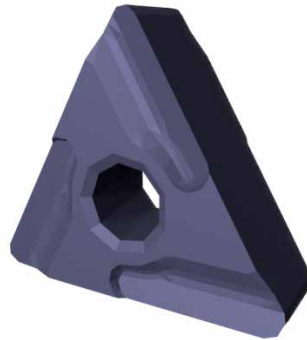


CUTTING PARAMETERS

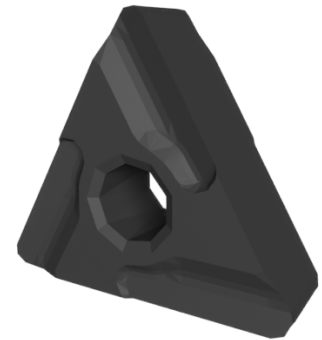
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TNMX 160408 R-M	YP25T	P	0,20	0,10	0,24	0,72	255
TNMX 160408 R-M	DM25T	M	0,20	0,10	0,24	0,72	100
TNMX 160408 R-M	BK25T	K	0,20	0,10	0,24	0,72	140
TNMX 160408 R-M	RH25T	H	0,20	0,10	0,24	0,72	180
TNMX 160408 R-M	ZS25T	S	0,20	0,10	0,24	0,72	35



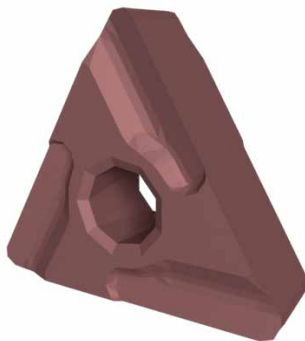
P
Geometry M
Grade: YP25T
Processing: Medium



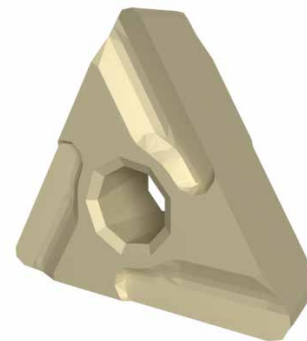
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,80	60



PTGN R/L

Tool holder for inserts TN 16



INSERT DIMENSION	DESCRIPTION
16	PTGNR/L 2020 K16
16	PTGNR/L 2525 M16



VNMG 160404-F

Insert for finishing application



CUTTING PARAMETERS

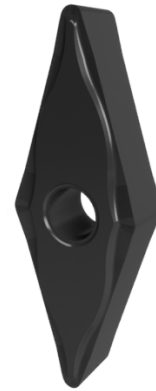
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
VNMG 160404-F	YP15T	P	0,14	0,11	0,17	0,36	285
VNMG 160404-F	DM15T	M	0,14	0,11	0,17	0,36	140
VNMG 160404-F	BK15T	K	0,14	0,11	0,17	0,36	215
VNMG 160404-F	RH15T	H	0,14	0,11	0,17	0,36	200
VNMG 160404-F	ZS15T	S	0,14	0,11	0,17	0,36	45



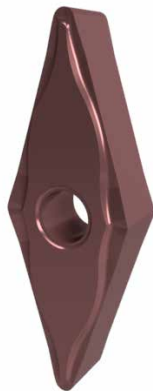
P
Geometry F
Grade: YP15T
Processing: Finishing



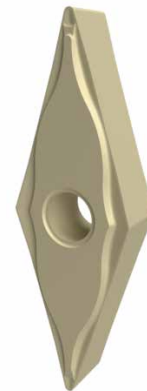
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,40	60



VNMG 160408-M

Insert for medium application



CUTTING PARAMETERS

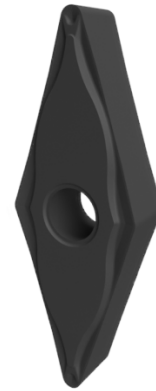
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
VNMG 160408-M	YP25T	P	0,20	0,10	0,24	0,72	255
VNMG 160408-M	DM25T	M	0,20	0,10	0,24	0,72	100
VNMG 160408-M	BK25T	K	0,20	0,10	0,24	0,72	140
VNMG 160408-M	RH25T	H	0,20	0,10	0,24	0,72	180
VNMG 160408-M	ZS25T	S	0,20	0,10	0,24	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	0,80	60



VNMG 160412-R

Insert for roughing application



CUTTING PARAMETERS

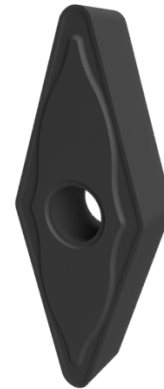
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
VNMG 160412-R	YP35T	P	0,30	0,15	0,36	1,08	175
VNMG 160412-R	DM35T	M	0,30	0,15	0,36	1,08	120
VNMG 160412-R	BK35T	K	0,30	0,15	0,36	1,08	100
VNMG 160412-R	RH35T	H	0,30	0,15	0,36	1,08	160
VNMG 160412-R	ZS35T	S	0,30	0,15	0,36	1,08	25



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,00	4,76	1,20	60



DVJN R/L

Tool holder for inserts VN 08



INSERT DIMENSION	DESCRIPTION
08	DVJNR/L 2020 K16
08	DVJNR/L 2525 K16



WNMG 080404-F

Insert for finishing application

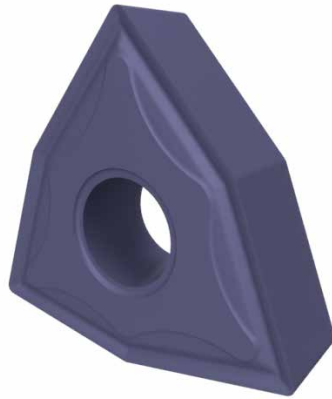


CUTTING PARAMETERS

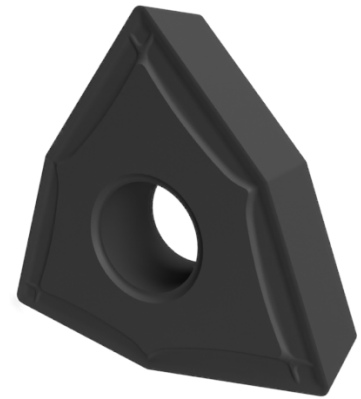
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
WNMG 080404-F	YP15T	P	0,14	0,11	0,17	0,16	285
WNMG 080404-F	DM15T	M	0,14	0,11	0,17	0,16	140
WNMG 080404-F	BK15T	K	0,14	0,11	0,17	0,16	215
WNMG 080404-F	RH15T	H	0,14	0,11	0,17	0,16	200
WNMG 080404-F	ZS15T	S	0,14	0,11	0,17	0,16	45



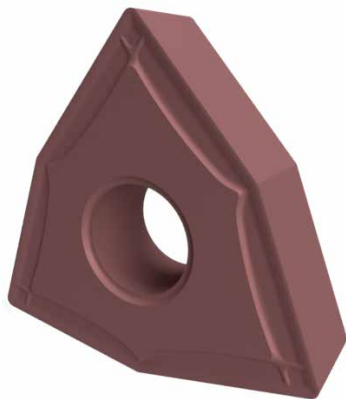
P
Geometry F
Grade: YP15T
Processing: Finishing



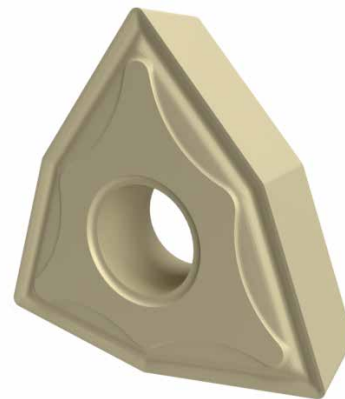
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



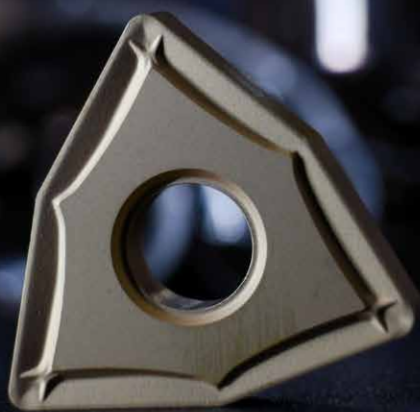
H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
08	12,70	8,00	4,76	0,40	80



WNMG 080408-M

Insert for medium application

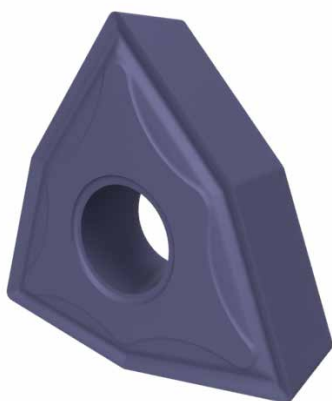


CUTTING PARAMETERS

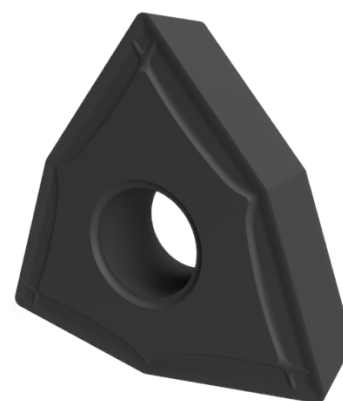
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
WNMG 080408-M	YP25T	P	0,32	0,26	0,38	0,72	255
WNMG 080408-M	DM25T	M	0,32	0,26	0,38	0,72	100
WNMG 080408-M	BK25T	K	0,32	0,26	0,38	0,72	140
WNMG 080408-M	RH25T	H	0,32	0,26	0,38	0,72	180
WNMG 080408-M	ZS25T	S	0,32	0,26	0,38	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



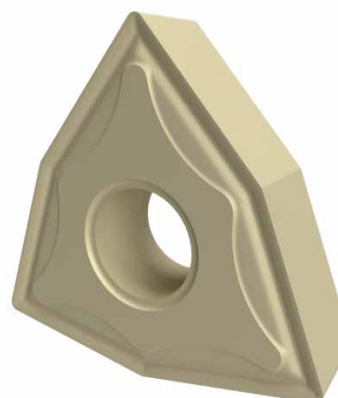
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



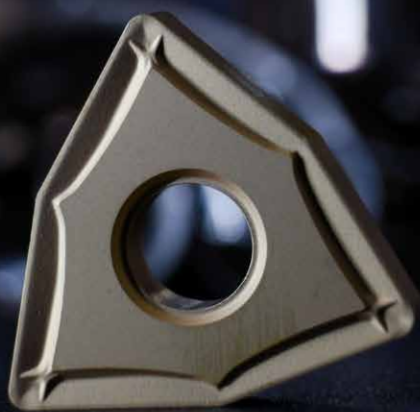
H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
08	12,70	8,00	4,76	0,80	80



WNMG 080412-R

Insert for roughing application



CUTTING PARAMETERS

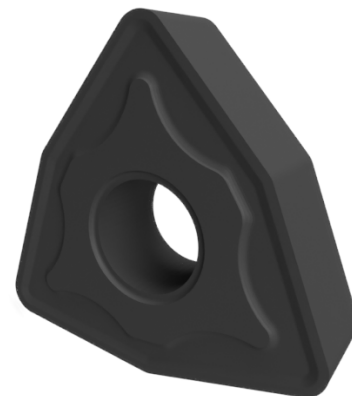
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
WNMG 080412-R	YP35T	P	0,54	0,43	0,65	1,20	175
WNMG 080412-R	DM35T	M	0,32	0,26	0,38	0,72	120
WNMG 080412-R	BK35T	K	0,32	0,26	0,38	0,72	100
WNMG 080412-R	RH35T	H	0,32	0,26	0,38	0,72	160
WNMG 080412-R	ZS35T	S	0,32	0,26	0,38	0,72	25



P
Geometry R
Grade: YP35T
Processing: Roughing



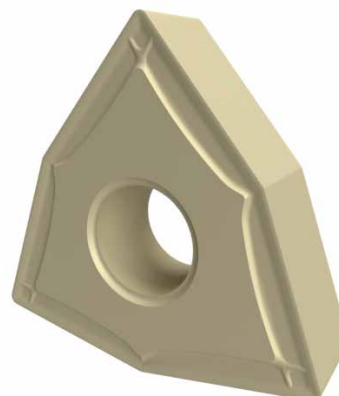
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: ZS35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
08	12,70	8,00	4,76	1,20	80



PWLN R/L

Tool holder for inserts WN 08



INSERT DIMENSION	DESCRIPTION
08	PWLN R/L 2020 K08
08	PWLN R/L 2525 M08



CCMT 060202-F

Insert for finishing application

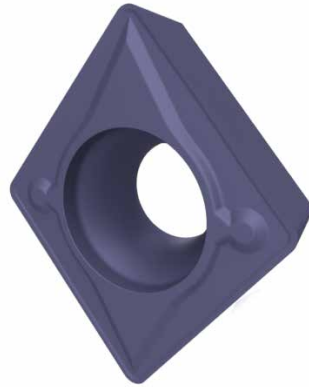


CUTTING PARAMETERS

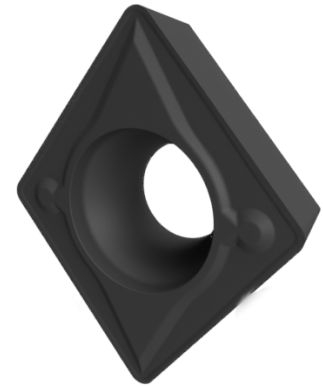
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 060202-F	YP15T	P	0,06	0,04	0,07	0,14	285
CCMT 060202-F	DM15T	M	0,06	0,04	0,07	0,14	140
CCMT 060202-F	BK15T	K	0,06	0,04	0,07	0,14	215
CCMT 060202-F	RH15T	H	0,06	0,04	0,07	0,14	200
CCMT 060202-F	ZS15T	S	0,06	0,04	0,07	0,14	45



P
Geometry F
Grade: YP15T
Processing: Finishing



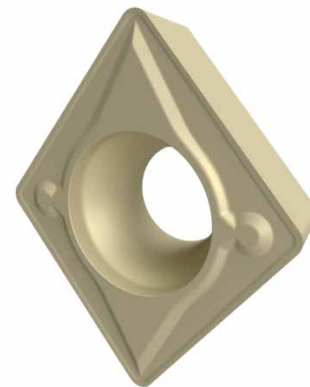
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
06	6,35	6,30	2,38	0,20	80



CCMT 060204-M

Insert for medium application

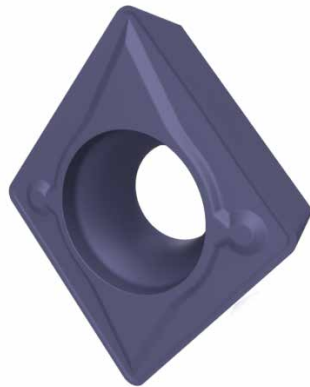


CUTTING PARAMETERS

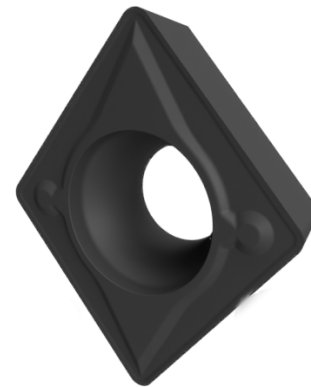
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 060204-M	YP25T	P	0,08	0,06	0,09	0,28	255
CCMT 060204-M	DM25T	M	0,08	0,06	0,09	0,28	100
CCMT 060204-M	BK25T	K	0,08	0,06	0,09	0,28	140
CCMT 060204-M	RH25T	H	0,08	0,06	0,09	0,28	180
CCMT 060204-M	ZS25T	S	0,08	0,06	0,09	0,28	35



P
Geometry M
Grade: YP25T
Processing: Medium



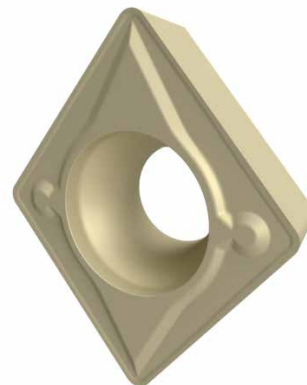
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
06	6,35	6,30	2,38	0,40	80



CCMT 060208-R

Insert for roughing application

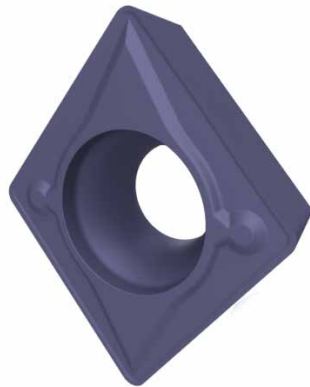


CUTTING PARAMETERS

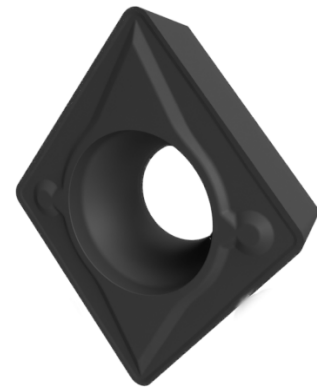
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 060208-R	YP35T	P	0,16	0,13	0,18	0,56	175
CCMT 060208-R	DM35T	M	0,16	0,13	0,18	0,56	120
CCMT 060208-R	BK35T	K	0,16	0,13	0,18	0,56	100
CCMT 060208-R	RH35T	H	0,16	0,13	0,18	0,56	160
CCMT 060208-R	ZS35T	S	0,16	0,13	0,18	0,56	25



P
Geometry R
Grade: YP35T
Processing: Roughing



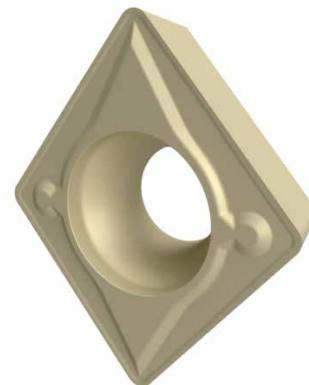
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: Z35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
06	6,35	6,30	2,38	0,80	80



CCMT 09T304-F

Insert for finishing application

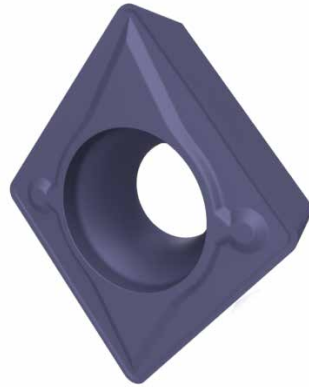


CUTTING PARAMETERS

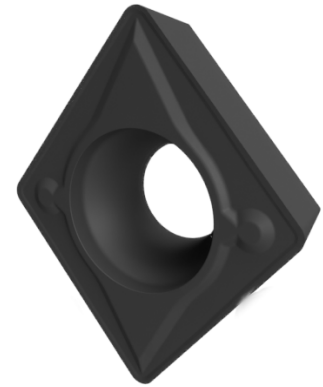
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 09T304-F	YP15T	P	0,14	0,11	0,17	0,36	285
CCMT 09T304-F	DM15T	M	0,14	0,11	0,17	0,36	140
CCMT 09T304-F	BK15T	K	0,14	0,11	0,17	0,36	215
CCMT 09T304-F	RH15T	H	0,14	0,11	0,17	0,36	200
CCMT 09T304-F	ZS15T	S	0,14	0,11	0,17	0,36	45



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
09	9,52	9,70	3,97	0,40	80



CCMT 09T308-M

Insert for medium application



CUTTING PARAMETERS

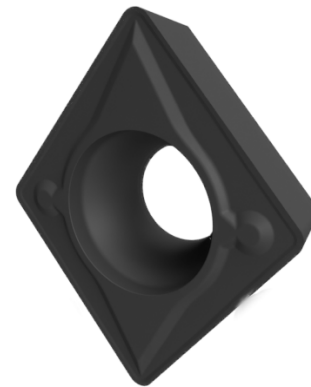
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 09T308-M	YP25T	P	0,20	0,10	0,24	0,72	255
CCMT 09T308-M	DM25T	M	0,20	0,10	0,24	0,72	100
CCMT 09T308-M	BK25T	K	0,20	0,10	0,24	0,72	140
CCMT 09T308-M	RH25T	H	0,20	0,10	0,24	0,72	180
CCMT 09T308-M	ZS25T	S	0,20	0,10	0,24	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



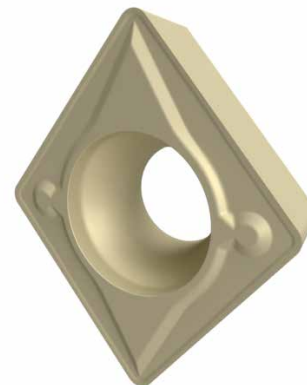
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
09	9,52	9,70	3,97	0,80	80



CCMT 120404-F

Insert for finishing application

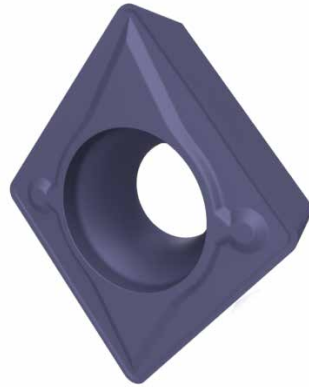


CUTTING PARAMETERS

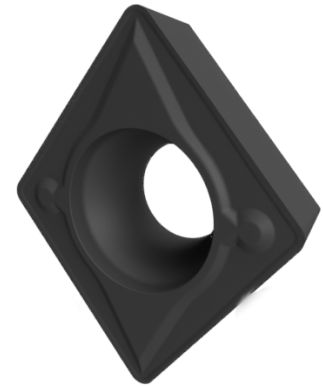
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 120404-F	YP15T	P	0,14	0,11	0,17	0,16	285
CCMT 120404-F	DM15T	M	0,14	0,11	0,17	0,16	140
CCMT 120404-F	BK15T	K	0,14	0,11	0,17	0,16	215
CCMT 120404-F	RH15T	H	0,14	0,11	0,17	0,16	200
CCMT 120404-F	ZS15T	S	0,14	0,11	0,17	0,16	45



P
Geometry F
Grade: YP15T
Processing: Finishing



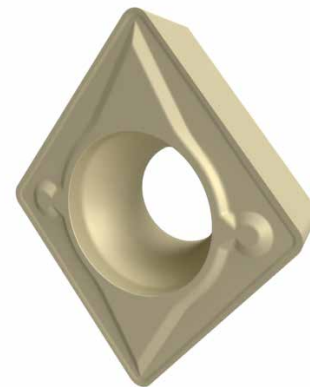
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,90	4,76	0,40	80



CCMT 120408-M

Insert for medium application

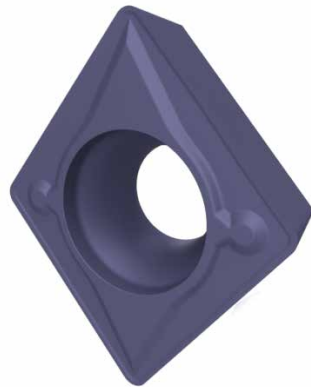


CUTTING PARAMETERS

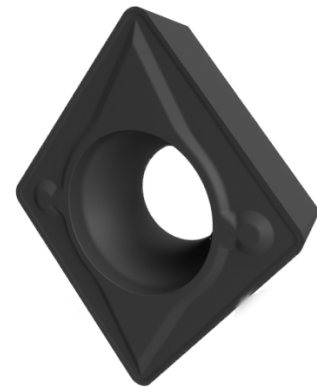
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
CCMT 120408-M	YP25T	P	0,32	0,26	0,38	0,72	255
CCMT 120408-M	DM25T	M	0,32	0,26	0,38	0,72	100
CCMT 120408-M	BK25T	K	0,32	0,26	0,38	0,72	140
CCMT 120408-M	RH25T	H	0,32	0,26	0,38	0,72	180
CCMT 120408-M	ZS25T	S	0,32	0,26	0,38	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,90	4,76	0,80	80

SCLC R/L

Tool holder for inserts CC 06-09-12



INSERT DIMENSION	DESCRIPTION
06	SCLCR/L 0808-D06
06	SCLCR/L 1010-E06
09	SCLCR/L 1212-F09
09	SCLCR/L 1616-H09
12	SCLCR/L 2020-K12
12	SCLCR/L 2525-M12

A SCLC R/L

Tool holder for inserts CC 06-09-12



INSERT DIMENSION	DESCRIPTION
06	A12K-SCLCR/L 06
09	A16M-SCLCR/L 09



DCMT 070204-F

Insert for finishing application



CUTTING PARAMETERS

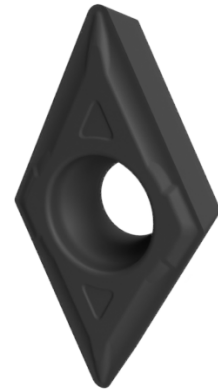
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DCMT 070204-F	YP15T	P	0,12	0,08	0,13	0,28	285
DCMT 070204-F	DM15T	M	0,12	0,08	0,13	0,28	140
DCMT 070204-F	BK15T	K	0,12	0,08	0,13	0,28	215
DCMT 070204-F	RH15T	H	0,12	0,08	0,13	0,28	200
DCMT 070204-F	ZS15T	S	0,12	0,08	0,13	0,28	45



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
07	6,35	7,70	2,38	0,40	80



DCMT 070208-M

Insert for medium application



CUTTING PARAMETERS

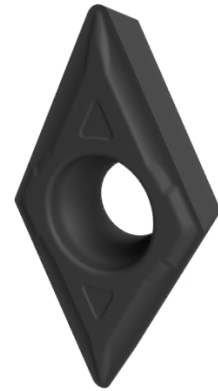
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DCMT 070208-M	YP25T	P	0,16	0,13	0,18	0,56	255
DCMT 070208-M	DM25T	M	0,16	0,13	0,18	0,56	100
DCMT 070208-M	BK25T	K	0,16	0,13	0,18	0,56	140
DCMT 070208-M	RH25T	H	0,16	0,13	0,18	0,56	180
DCMT 070208-M	ZS25T	S	0,16	0,13	0,18	0,56	35



P
Geometry M
Grade: YP25T
Processing: **Medium**



M
Geometry M
Grade: DM25T
Processing: **Medium**



K
Geometry M
Grade: BK25T
Processing: **Medium**



H
Geometry M
Grade: RH25T
Processing: **Medium**



S
Geometry M
Grade: ZS25T
Processing: **Medium**

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
07	6,35	7,70	2,38	0,80	80



DCMT 11T304-F

Insert for finishing application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DCMT 11T304-F	YP15T	P	0,14	0,11	0,17	0,36	285
DCMT 11T304-F	DM15T	M	0,14	0,11	0,17	0,36	140
DCMT 11T304-F	BK15T	K	0,14	0,11	0,17	0,36	215
DCMT 11T304-F	RH15T	H	0,14	0,11	0,17	0,36	200
DCMT 11T304-F	ZS15T	S	0,14	0,11	0,17	0,36	45



P
Geometry F
Grade: YP15T
Processing: Finishing



M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
11	9,52	11,60	3,97	0,40	80



DCMT 11T308-M

Insert for medium application



CUTTING PARAMETERS

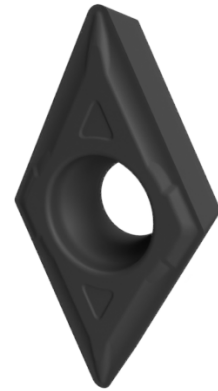
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
DCMT 11T308-M	YP25T	P	0,20	0,10	0,24	0,72	255
DCMT 11T308-M	DM25T	M	0,20	0,10	0,24	0,72	100
DCMT 11T308-M	BK25T	K	0,20	0,10	0,24	0,72	140
DCMT 11T308-M	RH25T	H	0,20	0,10	0,24	0,72	180
DCMT 11T308-M	ZS25T	S	0,20	0,10	0,24	0,72	35



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
11	9,52	11,60	3,97	0,80	80

SDJC R/L

Tool holder for inserts DC 07-11



INSERT DIMENSION	DESCRIPTION
07	SDJCR/L 1212-F07
07	SDJCR/L 1616-H07
11	SDJCR/L 1616-H11
11	SDJCR/L 2020-K11
11	SDJCR/L 2525-M11

A SDUC R/L

Tool holder for inserts DC 07-11



INSERT DIMENSION	DESCRIPTION
07	A12K-SDUCR/L 07
11	A20Q-SDUCR/L 11



RCMT 1204M0-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 1204M0-M	YP25T	P	0,56	0,14	0,77	1,20	255
RCMT 1204M0-M	DM25T	M	0,56	0,14	0,77	1,20	100
RCMT 1204M0-M	BK25T	K	0,56	0,14	0,77	1,20	140
RCMT 1204M0-M	RH25T	H	0,56	0,14	0,77	1,20	180



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,00	-	4,76	-	-



RCMT 1204M0-R

Insert for roughing application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 1204M0-R	YP35T	P	0,56	0,14	0,77	1,20	175
RCMT 1204M0-R	DM35T	M	0,56	0,14	0,77	1,20	120
RCMT 1204M0-R	BK35T	K	0,56	0,14	0,77	1,20	100
RCMT 1204M0-R	RH35T	H	0,56	0,14	0,77	1,20	160



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,00	-	4,76	-	-



RCMT 1606MO-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 1606MO-M	YP25T	P	0,76	0,17	0,98	1,60	269
RCMT 1606MO-M	DM25T	M	0,76	0,17	0,98	1,60	106
RCMT 1606MO-M	BK25T	K	0,76	0,17	0,98	1,60	148
RCMT 1606MO-M	RH25T	H	0,76	0,17	0,98	1,60	169



P
 Geometry M
 Grade: YP25T
 Processing: Medium



M
 Geometry M
 Grade: DM25T
 Processing: Medium



K
 Geometry M
 Grade: BK25T
 Processing: Medium



H
 Geometry M
 Grade: RH25T
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	16,00	-	6,35	-	-



RCMT 1606M0-R

Insert for roughing application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 1606M0-R	YP35T	P	0,76	0,17	0,98	1,60	169
RCMT 1606M0-R	DM35T	M	0,76	0,17	0,98	1,60	106
RCMT 1606M0-R	BK35T	K	0,76	0,17	0,98	1,60	106
RCMT 1606M0-R	RH35T	H	0,76	0,17	0,98	1,60	148



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	16,00	-	6,35	-	-



RCMT 2006M0-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 2006M0-M	YP25T	P	0,98	0,21	1,26	2,00	269
RCMT 2006M0-M	DM25T	M	0,98	0,21	1,26	2,00	106
RCMT 2006M0-M	BK25T	K	0,98	0,21	1,26	2,00	148
RCMT 2006M0-M	RH25T	H	0,98	0,21	1,26	2,00	169



P
 Geometry M
 Grade: YP25T
 Processing: Medium



M
 Geometry M
 Grade: DM25T
 Processing: Medium



K
 Geometry M
 Grade: BK25T
 Processing: Medium



H
 Geometry M
 Grade: RH25T
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
20	20,00	-	6,35	-	-



RCMT 2006M0-R

Insert for roughing application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 2006M0-R	YP35T	P	0,98	0,21	1,26	2,00	169
RCMT 2006M0-R	DM35T	M	0,98	0,21	1,26	2,00	106
RCMT 2006M0-R	BK35T	K	0,98	0,21	1,26	2,00	106
RCMT 2006M0-R	RH35T	H	0,98	0,21	1,26	2,00	148



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
20	20,00	-	6,35	-	-



RCMT 2507M0-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 2507M0-M	YP25T	P	1,11	0,28	1,53	2,50	269
RCMT 2507M0-M	DM25T	M	1,11	0,28	1,53	2,50	124
RCMT 2507M0-M	BK25T	K	1,11	0,28	1,53	2,50	118
RCMT 2507M0-M	RH25T	H	1,11	0,28	1,53	2,50	173



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,00	-	7,94	-	-



RCMT 2507M0-R

Insert for roughing application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 2507M0-R	YP35T	P	1,11	0,28	1,53	2,50	161
RCMT 2507M0-R	DM35T	M	1,11	0,28	1,53	2,50	118
RCMT 2507M0-R	BK35T	K	1,11	0,28	1,53	2,50	99
RCMT 2507M0-R	RH35T	H	1,11	0,28	1,53	2,50	149



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



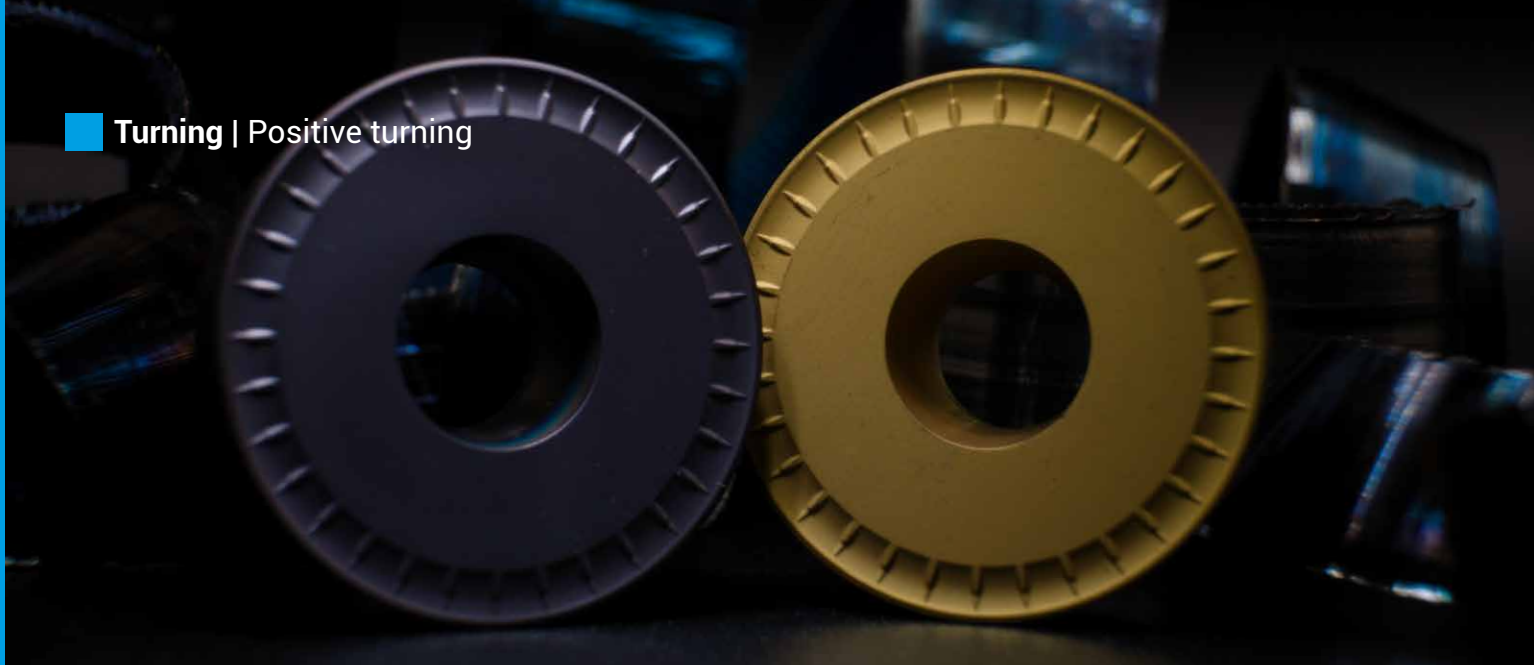
K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
25	25,00	-	7,94	-	-



RCMT 3209M0-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 3209M0-M	YP25T	P	1,54	0,35	1,96	3,20	235
RCMT 3209M0-M	DM25T	M	1,54	0,35	1,96	3,20	84
RCMT 3209M0-M	BK25T	K	1,54	0,35	1,96	3,20	117
RCMT 3209M0-M	RH25T	H	1,54	0,35	1,96	3,20	155



P
Geometry M
Grade: YP25T
Processing: Medium



M
Geometry M
Grade: DM25T
Processing: Medium



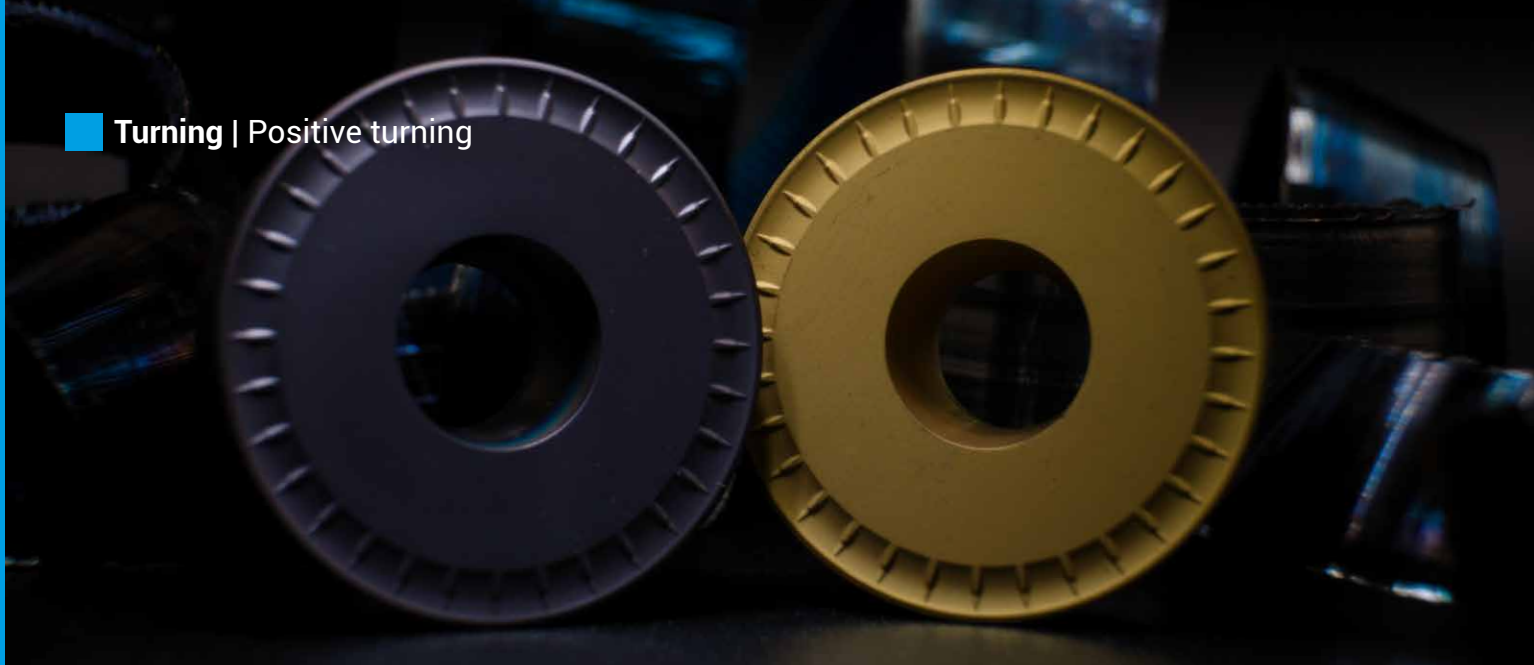
K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
32	32,00	-	9,52	-	-



RCMT 3209M0-R

Insert for roughing application



CUTTING PARAMETERS

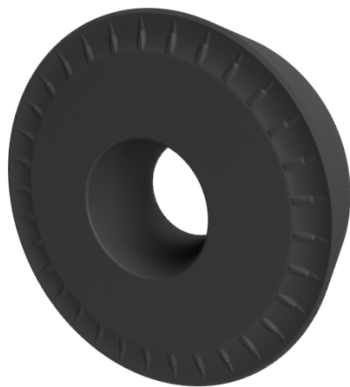
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
RCMT 3209M0-R	YP35T	P	1,54	0,35	1,96	3,20	162
RCMT 3209M0-R	DM35T	M	1,54	0,35	1,96	3,20	71
RCMT 3209M0-R	BK35T	K	1,54	0,35	1,96	3,20	104
RCMT 3209M0-R	RH35T	H	1,54	0,35	1,96	3,20	130



P
Geometry R
Grade: YP35T
Processing: Roughing



M
Geometry R
Grade: DM35T
Processing: Roughing



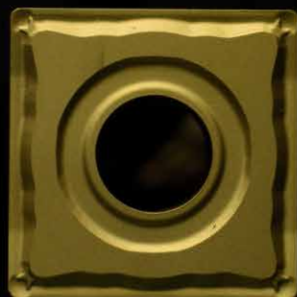
K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
32	32,00	-	9,52	-	-



SCMT 09T304-F

Insert for finishing application

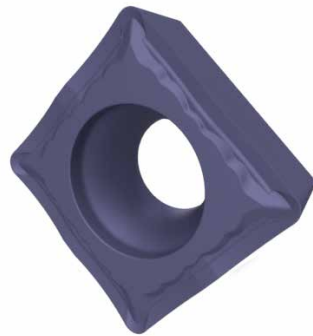


CUTTING PARAMETERS

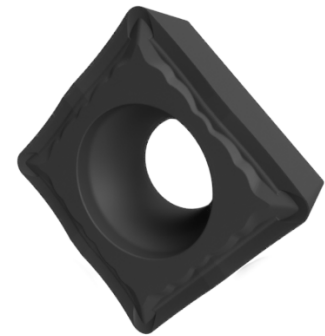
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SCMT 09T304-F	YP15T	P	0,14	0,11	0,17	0,36	285
SCMT 09T304-F	DM15T	M	0,14	0,11	0,17	0,36	140
SCMT 09T304-F	BK15T	K	0,14	0,11	0,17	0,36	215
SCMT 09T304-F	RH15T	H	0,14	0,11	0,17	0,36	200
SCMT 09T304-F	ZS15T	S	0,14	0,11	0,17	0,36	45



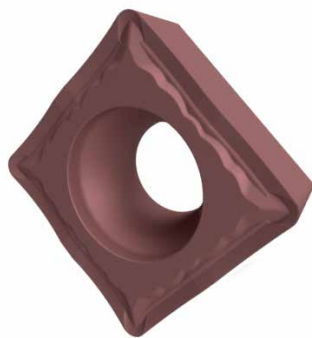
P
Geometry F
Grade: YP15T
Processing: Finishing



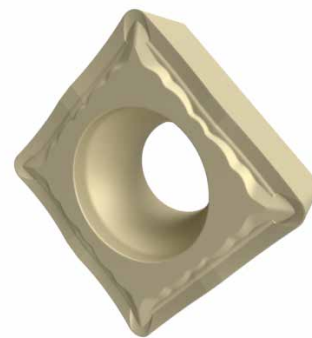
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



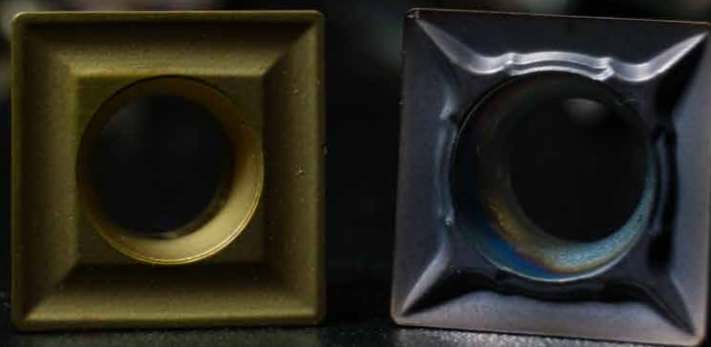
H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

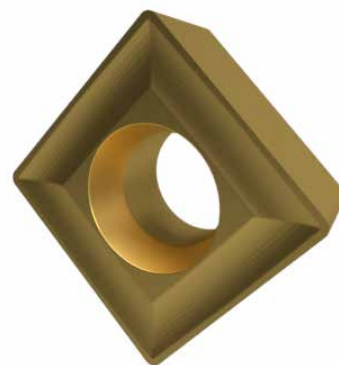
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
09	9,52	9,52	3,97	0,40	90



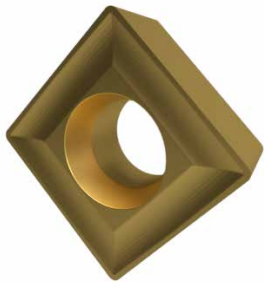
SCMT 09T308-M

Insert for medium application

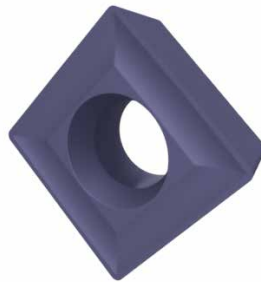


CUTTING PARAMETERS

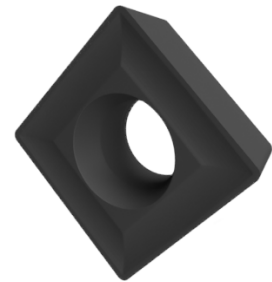
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SCMT 09T308-M	YP25T	P	0,20	0,10	0,24	0,72	255
SCMT 09T308-M	DM25T	M	0,20	0,10	0,24	0,72	100
SCMT 09T308-M	BK25T	K	0,20	0,10	0,24	0,72	140
SCMT 09T308-M	RH25T	H	0,20	0,10	0,24	0,72	180
SCMT 09T308-M	ZS25T	S	0,20	0,10	0,24	0,72	35



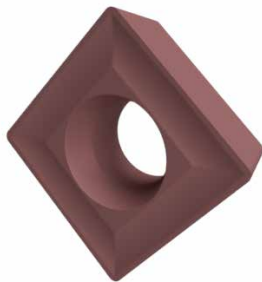
P
Geometry M
Grade: YP25T
Processing: Medium



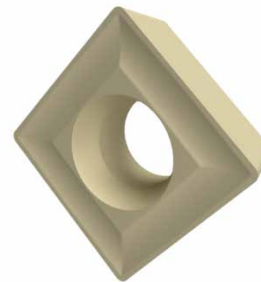
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



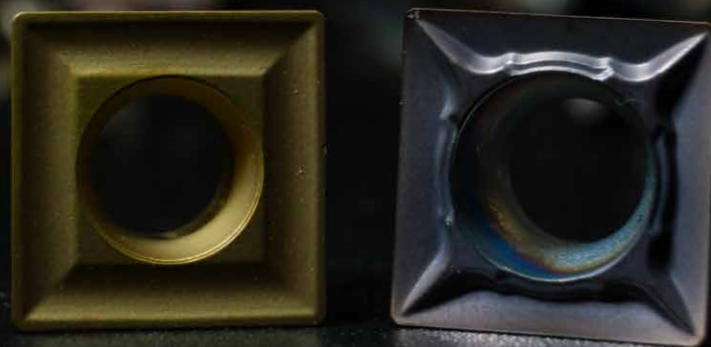
H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

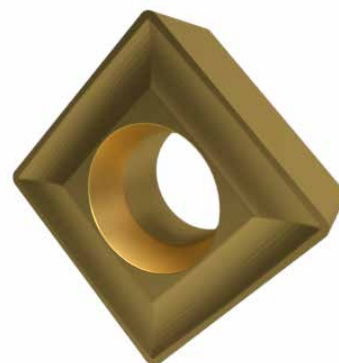
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
09	9,52	9,52	3,97	0,80	90



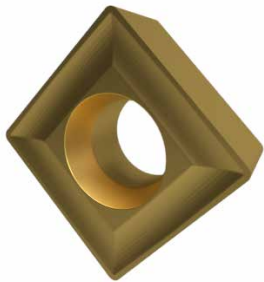
SCMT 120408-M

Insert for medium application

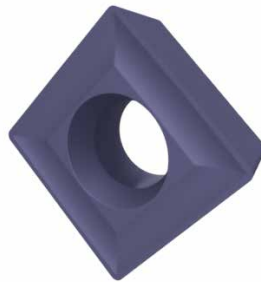


CUTTING PARAMETERS

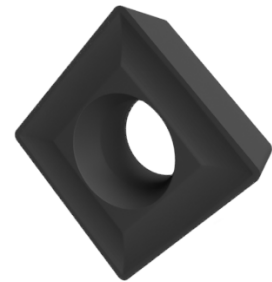
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SCMT 120408-M	YP25T	P	0,32	0,26	0,38	0,72	255
SCMT 120408-M	DM25T	M	0,32	0,26	0,38	0,72	100
SCMT 120408-M	BK25T	K	0,32	0,26	0,38	0,72	140
SCMT 120408-M	RH25T	H	0,32	0,26	0,38	0,72	180
SCMT 120408-M	ZS25T	S	0,32	0,26	0,38	0,72	35



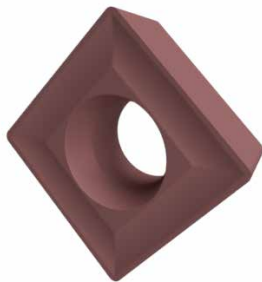
P
Geometry M
Grade: YP25T
Processing: Medium



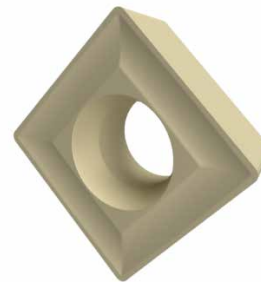
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



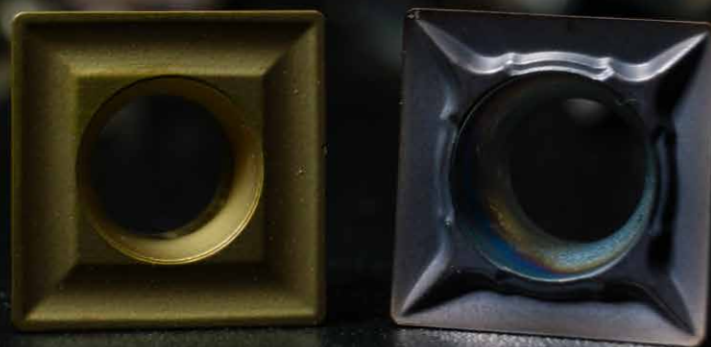
H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

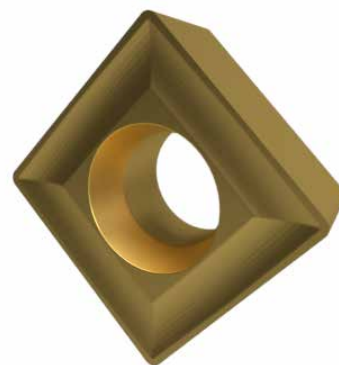
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,70	4,76	0,80	90



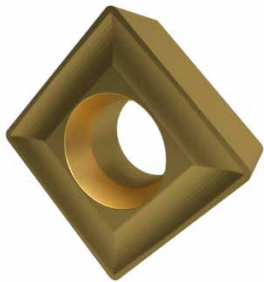
SCMT 120412-R

Insert for roughing application

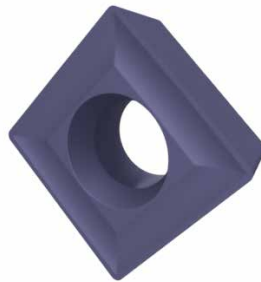


CUTTING PARAMETERS

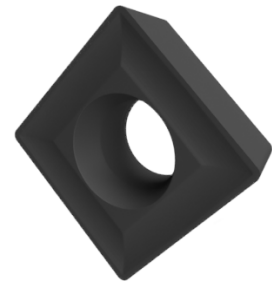
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
SCMT 120412-R	YP35T	P	0,54	0,43	0,65	1,20	175
SCMT 120412-R	DM35T	M	0,54	0,43	0,65	1,20	120
SCMT 120412-R	BK35T	K	0,54	0,43	0,65	1,20	100
SCMT 120412-R	RH35T	H	0,54	0,43	0,65	1,20	160
SCMT 120412-R	ZS35T	S	0,54	0,43	0,65	1,20	25



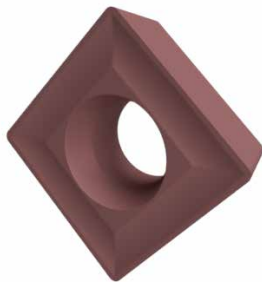
P
Geometry R
Grade: YP35T
Processing: Roughing



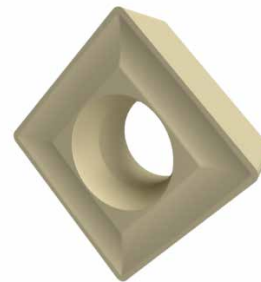
M
Geometry R
Grade: DM35T
Processing: Roughing



K
Geometry R
Grade: BK35T
Processing: Roughing



H
Geometry R
Grade: RH35T
Processing: Roughing



S
Geometry R
Grade: Z35T
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
12	12,70	12,70	4,76	1,20	90

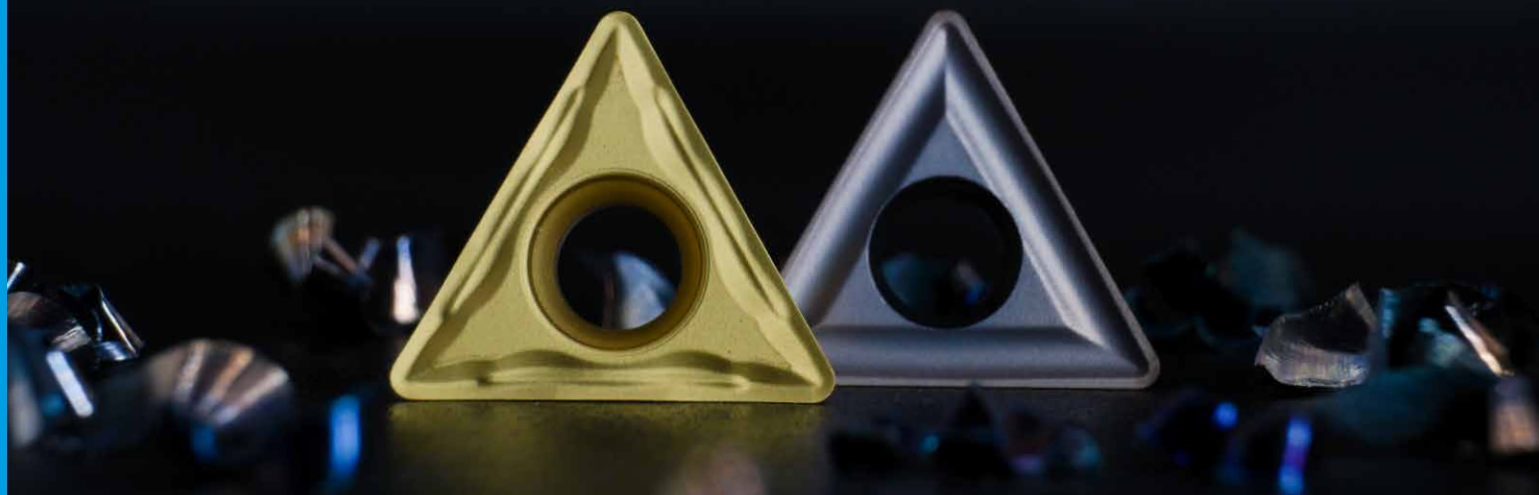


SSSC R/L

Tool holder for inserts SC 09-12



INSERT DIMENSION	DESCRIPTION
09	SSSCR/L 1616-H09
12	SSSCR/L 2020-K12



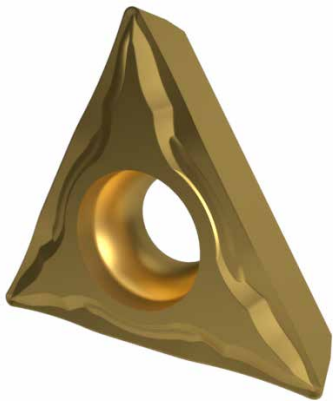
TCMT 110204-F

Insert for finishing application

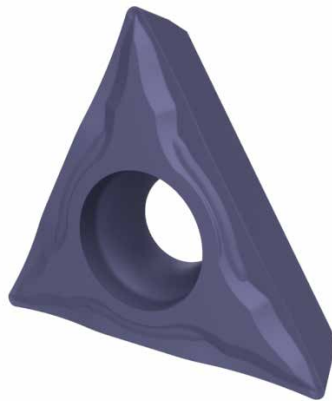


CUTTING PARAMETERS

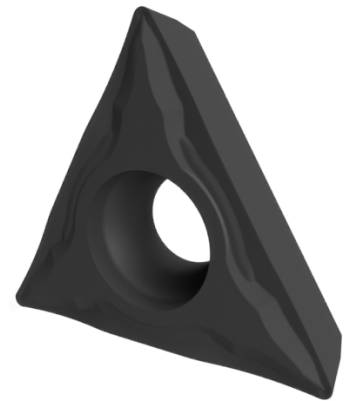
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TCMT 110204-F	YP15T	P	0,12	0,08	0,13	0,28	285
TCMT 110204-F	DM15T	M	0,12	0,08	0,13	0,28	140
TCMT 110204-F	BK15T	K	0,12	0,08	0,13	0,28	215
TCMT 110204-F	RH15T	H	0,12	0,08	0,13	0,28	200
TCMT 110204-F	ZS15T	S	0,12	0,08	0,13	0,28	45



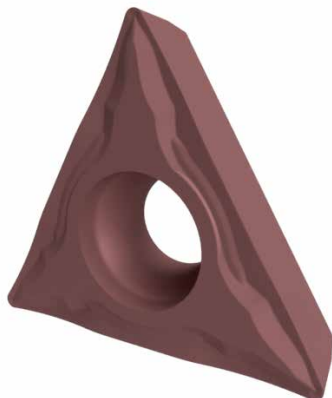
P
Geometry F
Grade: YP15T
Processing: Finishing



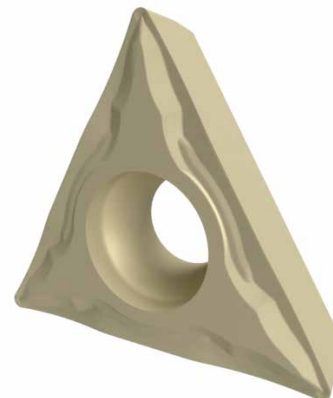
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
11	6,35	11,00	2,38	0,40	60



TCMT 110208-M

Insert for medium application

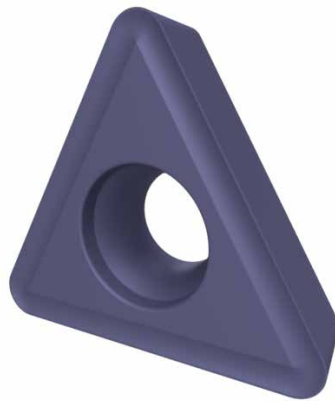


CUTTING PARAMETERS

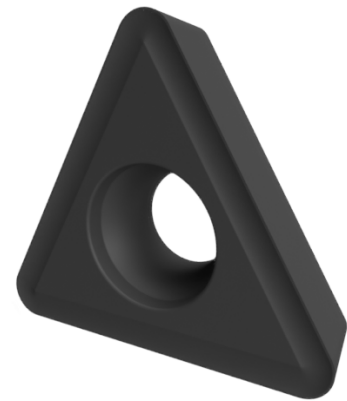
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TCMT 110208-M	YP25T	P	0,16	0,13	0,18	0,56	255
TCMT 110208-M	DM25T	M	0,16	0,13	0,18	0,56	100
TCMT 110208-M	BK25T	K	0,16	0,13	0,18	0,56	140
TCMT 110208-M	RH25T	H	0,16	0,13	0,18	0,56	180
TCMT 110208-M	ZS25T	S	0,16	0,13	0,18	0,56	35



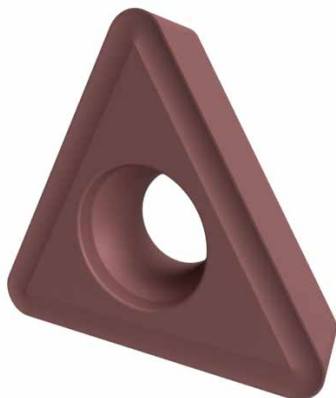
P
Geometry M
Grade: YP25T
Processing: Medium



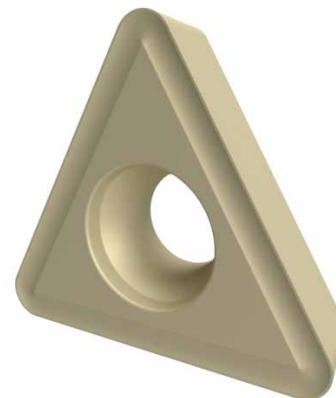
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
11	6,35	11,00	2,38	0,80	60



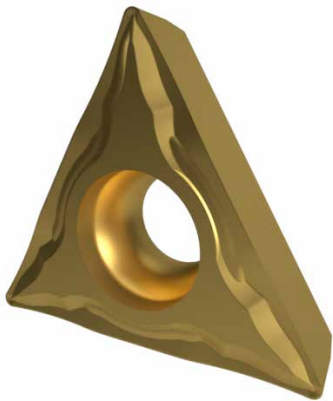
TCMT 16T304-F

Insert for finishing application

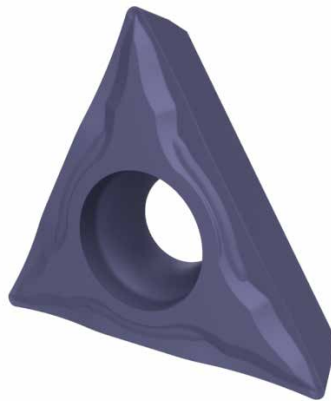


CUTTING PARAMETERS

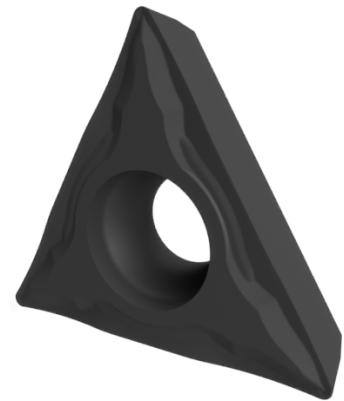
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TCMT 16T304-F	YP15T	P	0,14	0,11	0,17	0,36	285
TCMT 16T304-F	DM15T	M	0,14	0,11	0,17	0,36	140
TCMT 16T304-F	BK15T	K	0,14	0,11	0,17	0,36	215
TCMT 16T304-F	RH15T	H	0,14	0,11	0,17	0,36	200
TCMT 16T304-F	ZS15T	S	0,14	0,11	0,17	0,36	45



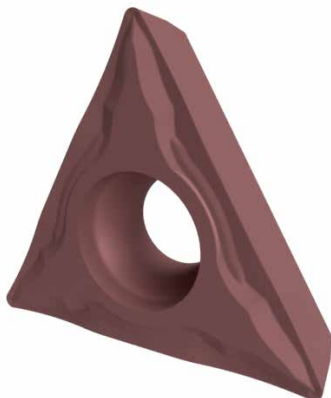
P
Geometry F
Grade: YP15T
Processing: Finishing



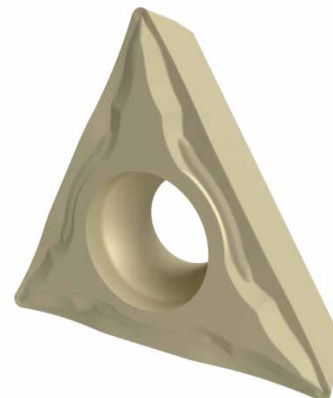
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,50	3,97	0,40	60



TCMT 16T308-M

Insert for medium application

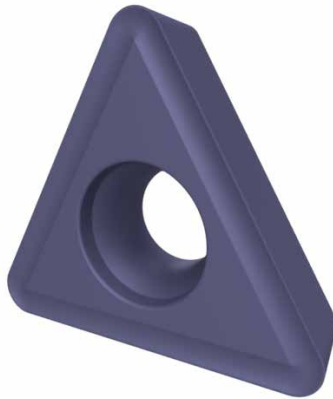


CUTTING PARAMETERS

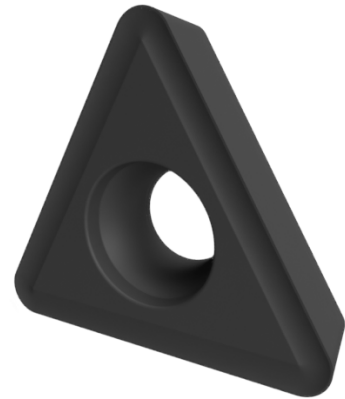
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
TCMT 16T308-M	YP25T	P	0,20	0,10	0,24	0,72	255
TCMT 16T308-M	DM25T	M	0,20	0,10	0,24	0,72	100
TCMT 16T308-M	BK25T	K	0,20	0,10	0,24	0,72	140
TCMT 16T308-M	RH25T	H	0,20	0,10	0,24	0,72	180
TCMT 16T308-M	ZS25T	S	0,20	0,10	0,24	0,72	35



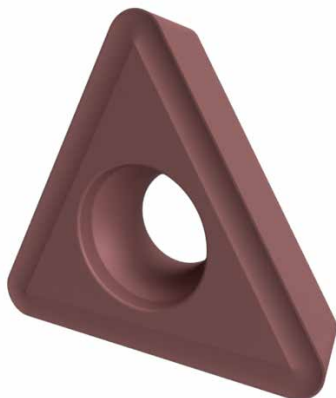
P
Geometry M
Grade: YP25T
Processing: Medium



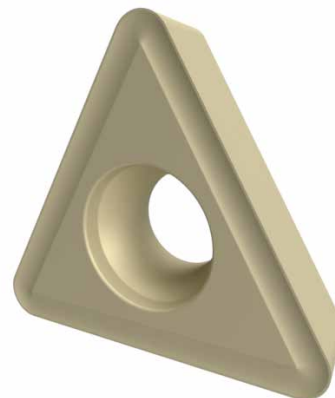
M
Geometry M
Grade: DM25T
Processing: Medium



K
Geometry M
Grade: BK25T
Processing: Medium



H
Geometry M
Grade: RH25T
Processing: Medium



S
Geometry M
Grade: ZS25T
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,50	3,97	0,80	60



STGC R/L

Tool holder for inserts TC 11-16

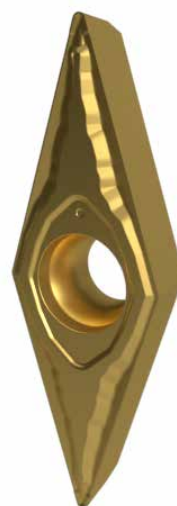


INSERT DIMENSION	DESCRIPTION
11	STGCR/L 1212-F11
11	STGCR/L 1616-H11
16	STGCR/L 1616-H16
16	STGCR/L 2020-K16
16	STGCR/L 2525-M16



VBMT 160404-F

Insert for finishing application



CUTTING PARAMETERS

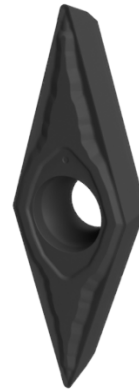
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
VBMT 160404-F	YP15T	P	0,14	0,11	0,17	0,36	285
VBMT 160404-F	DM15T	M	0,14	0,11	0,17	0,36	140
VBMT 160404-F	BK15T	K	0,14	0,11	0,17	0,36	215
VBMT 160404-F	RH15T	H	0,14	0,11	0,17	0,36	200
VBMT 160404-F	ZS15T	S	0,14	0,11	0,17	0,36	45



P
Geometry F
Grade: YP15T
Processing: Finishing



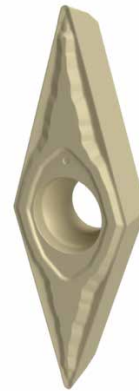
M
Geometry F
Grade: DM15T
Processing: Finishing



K
Geometry F
Grade: BK15T
Processing: Finishing



H
Geometry F
Grade: RH15T
Processing: Finishing



S
Geometry F
Grade: ZS15T
Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,60	4,76	0,40	35



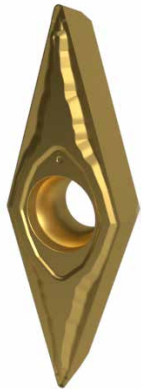
VBMT 160408-M

Insert for medium application



CUTTING PARAMETERS

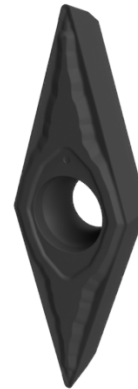
Description	Grade	Iso	Nominal Fn (mm/r)	Fn min (mm/r)	Fn max (mm/r)	ap min (mm)	Vc min (m/min)
VBMT 160408-M	YP25T	P	0,20	0,10	0,24	0,72	255
VBMT 160408-M	DM25T	M	0,20	0,10	0,24	0,72	100
VBMT 160408-M	BK25T	K	0,20	0,10	0,24	0,72	140
VBMT 160408-M	RH25T	H	0,20	0,10	0,24	0,72	180
VBMT 160408-M	ZS25T	S	0,20	0,10	0,24	0,72	35



P
Geometry M
Grade: YP25T
Processing: **Medium**



M
Geometry M
Grade: DM25T
Processing: **Medium**



K
Geometry M
Grade: BK25T
Processing: **Medium**



H
Geometry M
Grade: RH25T
Processing: **Medium**



S
Geometry M
Grade: ZS25T
Processing: **Medium**

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)	Angle (°)
16	9,52	16,60	4,76	0,80	35



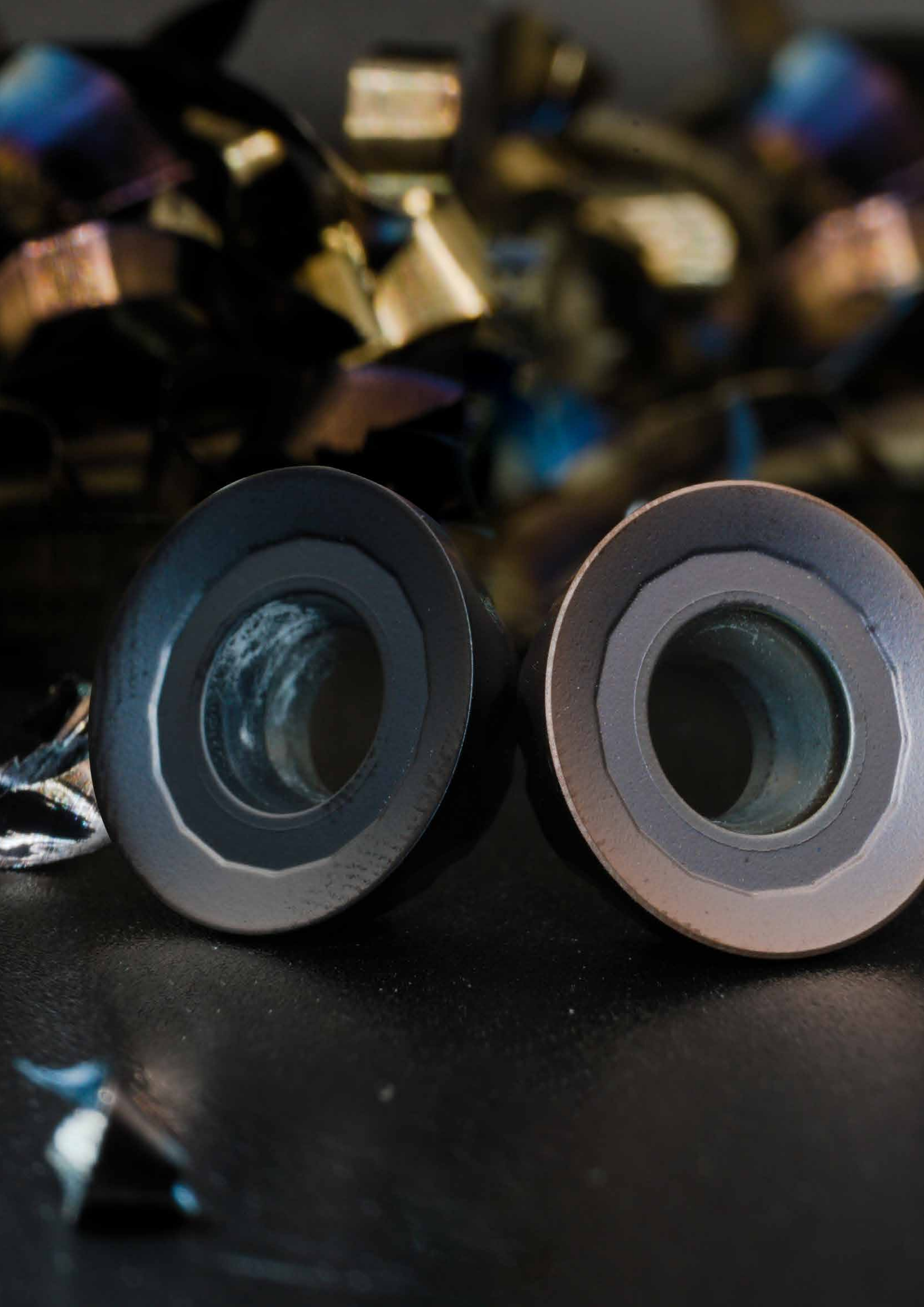
SVJB R/L

Tool holder for inserts VB 16



INSERT DIMENSION	DESCRIPTION
16	SVJBRL 2020-K16







NEW MILLING PHILOSOPHY

The new range of milling products comes from an innovative system of collaboration between a selected group of European users, performing in various mechanical sectors, and Sharp Metal's technicians.

In fact, we have decided to test directly in the field the new solutions, with the aim of understanding the real needs of the operators and the limits of the current solutions in use and to provide concrete responses and high-quality results.

This manual has the purpose of introducing the new philosophy and the principles for a correct application of Sharp Metal's turning products.







The product selection is made of two simple steps:

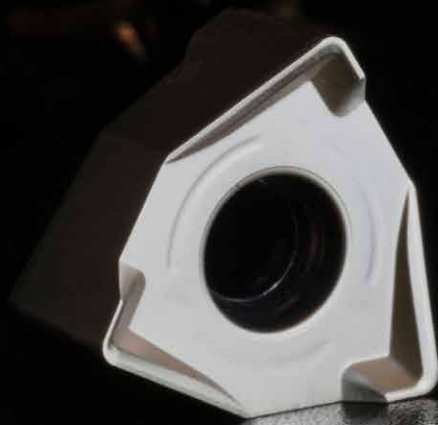
1. The first is the identification of the material to process
2. The second is the selection of the operation to be performed:

Finishing 
 Medium 
 Roughing 

OVERVIEW OF SHARP METAL GRADES

In partnership with our PVD and CVD providers, equipped with the latest technologies, we have selected for each material to be processed, a dedicated coating solution.

HARDNESS	ISO P	ISO M	ISO K	ISO N	ISO H	ISO S
20	DP20M	DM20M	BK20M	NN20M	RH20M	ZS20M
30	DP30M	DM30M	BK30M	NN30M	RH30M	ZS30M
40	DP40M	DM40M	BK40M	NN40M	RH40M	ZS40M
Coating						
Technology	PVD	PVD	CVD	/	PVD	PVD



STEP 1: MATERIAL IDENTIFICATION

We have created dedicated grades, based on the material to work and therefore based on the ISO families of: Steels, Stainless steels, Cast-irons, non-ferrous materials, tempered steels and superalloys.

ISO P Steels	ISO M Stainless Steels	ISO K Cast Irons	ISO N Non ferrous materials	ISO H Tempered materials	ISO S Superalloys
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STEP 2: SELECTION OF THE OPERATION TO PERFORM

We have divided all the possible processing in three families, and we have combined each family with a specific geometry and hardness, in order to avoid any mistakes in the application and to ensure a correct result.

PROCESSING	GEOMETRY	ISO HARDNESS
FINISHING	F	20
MEDIUM	M	30
ROUGHING	R	40

S E H T

1

2

3

4

1 INSERT SHAPE					
A	B	C	D	E	H
K	L	M	O	P	R
S	T	V	W		

2 LATERAL CLEARANCE		
A	B	C
D	E	F
G	N	P

3 TOLERANCES													
	m	s	d	3,175	4,76	6,35	9,525	12,7	15,875	19,05	25,4	31,75	38,1
A	0,005	0,025	0,025	•	•	•	•	•	•	•	•	•	•
E	0,025	0,025	0,025	•	•	•	•	•	•	•	•	•	•
F	0,005	0,025	0,013	•	•	•	•	•	•	•	•	•	•
G	0,025	0,13	0,025	•	•	•	•	•	•	•	•	•	•
H	0,013	0,025	0,013	•	•	•	•	•	•	•	•	•	•
J	0,005	0,025	0,05	•	•	•	•						
	0,005	0,025	0,08					•					
	0,005	0,025	0,10						•	•			
	0,005	0,025	0,13								•		
	0,005	0,025	0,15									•	•
K	0,013	0,025	0,05	•	•	•	•						
	0,013	0,025	0,08					•					
	0,013	0,025	0,10						•	•			
	0,013	0,025	0,13								•		
	0,013	0,025	0,15									•	•
M	0,08	0,13	0,05	•	•	•	•						
	0,13	0,13	0,08					•					
	0,15	0,13	0,10						•	•			
	0,018	0,13	0,13								•		
	0,20	0,13	0,15									•	•
U	0,13	0,13	0,08	•	•	•	•						
	0,20	0,13	0,13					•					
	0,27	0,13	0,18						•	•			
	0,38	0,13	0,25								•	•	•

3 TOLERANCES		
d	m	s

4 TYPE OF CHIP-BREAKER		
A	F	G
M	N	Q
R	T	U
	X = Special	
W	X = Special	

12 04 AF S N

5

6

7

8

9

5 LENGTH OF THE CUTTING EDGE		
A,B,K	C,D,E,M,V	H,O,P
L	R	S
T	W	

6 THICKNESS			
01	1,59 mm	04	4,76
T1	1,98 mm	05	5,56
02	2,38 mm	06	6,35
03	3,18 mm	07	7,94
T3	3,97 mm	08	8,00
		09	9,52

7 INSERTS WITH CHAMFER OR CORNER RADIUS				
	A	45°		
	D	60°		
	E	75°		
	F	85°		
	P	90°		
	Z	Special		
	A	3°	F	25°
	B	5°	G	30°
	C	7°	N	0°
	D	15°	P	11°
	E	20°		
	Z	Special		
	M0	Round insert		
	00	Sharp edge		
	01	0,1		
	02	0,2		
	04	0,4		
	08	0,8		
	12	1,2		
	ecc...			



8 SHAPE OF THE CUTTING EDGE	
F	E
T	S

9 CUT DIRECTION	
	R - RIGHT ROTATION
	L - LEFT ROTATION
	N - NEUTRAL (LEFT AND RIGHT ROTATION)













M I L L

1

1 MILLING CUTTER BODIES TYPE

	
MILL	TWIST

2 INSERT TYPE



		
AP - APHT/APKT	VX	XN - XNEX
		
3P - 3PEX	SN - SNMX/SNHX/ONMX	SE - SEHT / SEXH
		
RC - RCKT	RD - RDHW	RP - RPHW/RPHX
		
BN - BNMT	JD - JDMW	SP - SHHT/SPHW

AP 10 D40 M Z3



3 INSERT DIMENSION								
04	06	07	08	10	12	15	16	20

4 MILLING CUTTER BODIES TYPE								
D16	D20	D25	D32	D35	D40	D42	D50	D52
D63	D66	D80	D100	D125	D160	D200	-	-

5 FIXING TYPE	
	
C - CYLINDRICAL	M - SHELL MILL

4 N. TEETH				
Z2	Z3	Z4	Z5	Z6
Z7	Z8	Z9	Z10	-



CUTTING STRATEGIES

EVALUATION OF THE EFFICIENCY OF THE CUTTING STRATEGY:

Focusing the attention on the cutting speed to evaluate the performance of a tool or the cutting strategy is a mistake. The use of high cutting speed can, in some cases, complicate/compromise the processing.

That's why we, as Sharp Metal, invite you to check the chip volume parameter "Q", which identifies the quantity of chips produced by the processing in a determined time frame.

MILLING CALCULATION:

$$Q = (A_p \times A_e \times V_f) / 1000$$

LEGENDA:

Q = Chip volume (cm³/min)

V_c = Cutting speed (m/min)

F_z = Feed of the cutting edge for each rotation (mm)

A_p = Depth of cut (mm)

A_e = Cutting width of the milling cutter bodies engaged (mm)

n = Number of rotation of the milling

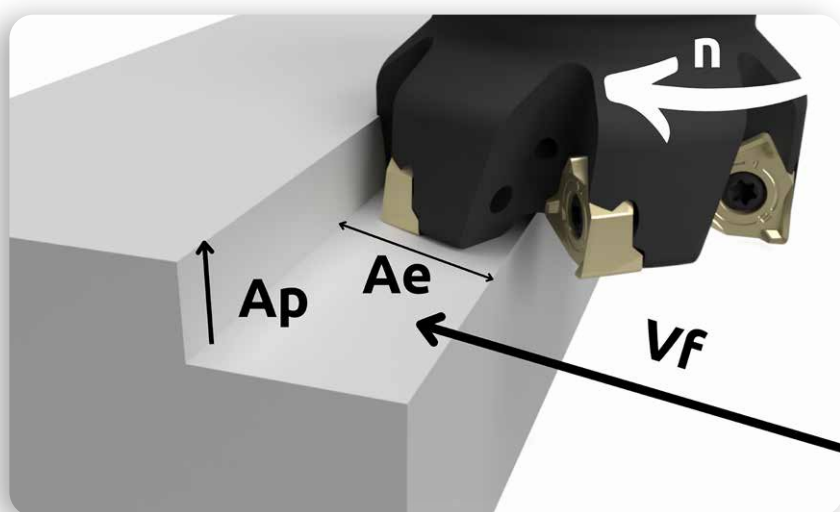
cutter bodies (rotation/min) - $n = (V_c \times 1000) / (\pi \times D)$

z = Number of teeth of the milling cutter body

D = Diameter of the milling cutter body (mm)

π = Pi (3.14)

The cutting parameters may vary depending on some external conditions, like the fixing stability of the tooling and piece, the material and the type of machine. The given parameters represent ideal parameters, which shall be increased or decreased in accordance with the application.



Representation of the values used to evaluate the efficiency of the cutting strategies.

CALCULATION EXAMPLE:

Real calculation carried out by a customer on a processing with XNEX 080608:

As you can see here below, at the decrease of the cutting speed in the range of -20%, we have obtained an increase of the chip volume +13% and those adjustments have given enormous advantages to preserve the life of the cutting edge.

$$Q = (A_p \times A_e \times V_f) / 1000$$

Strategy 1:

$V_c = 250 \text{ m/min}$

$A_p = 4 \text{ mm}$

$A_e = 30 \text{ mm}$

$F_z = 0.15 \text{ mm}$

$V_f = 1192,5 \text{ mm/min}$

$$Q = (4 \times 30 \times 1192,5) / 1000 \\ = 143.10 \text{ cm}^3/\text{min}$$

Strategy 2:

$V_c = 200 \text{ m/min}$

$A_p = 4 \text{ mm}$

$A_e = 30 \text{ mm}$

$F_z = 0,21\text{mm}$

$V_f = 1338,75 \text{ mm/min}$

$$Q = (4 \times 30 \times 1338,75) / 1000 \\ = 160.65 \text{ cm}^3/\text{min}$$



APHR 1003PD R-F

Insert for finishing application



CUTTING PARAMETERS

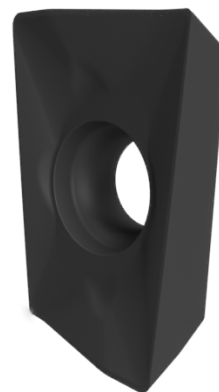
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APHR 1003PD R-F	DP20M	P	0,16	0,10	0,25	0,50	190
APHR 1003PD R-F	DM20M	M	0,16	0,10	0,25	0,50	114
APHR 1003PD R-F	BK20M	K	0,16	0,10	0,25	0,50	171
APHR 1003PD R-F	RH20M	H	0,16	0,10	0,25	0,50	190
APHR 1003PD R-F	ZS20M	S	0,16	0,10	0,25	0,50	40



P
Geometry F
Grade: DP20M
Processing: Finishing



M
Geometry F
Grade: DM20M
Processing: Finishing



K
Geometry F
Grade: BK20M
Processing: Finishing



H
Geometry F
Grade: RH20M
Processing: Finishing



S
Geometry F
Grade: ZS20M
Processing: Finishing

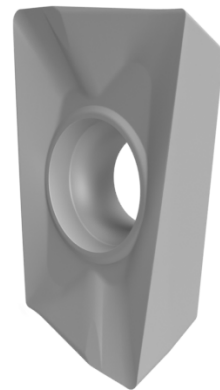
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,70	10,00	3,49	0,50



APHT 100302PD R-F ALU

Insert for finishing application



N
Geometry F
Grade: NN20M
Processing: Finishing

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APHT 100302PD R-F ALU	NN20M	N	0,30	0,05	0,60	0,10	684

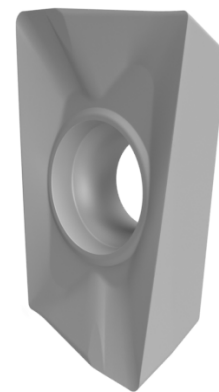
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,70	10,00	3,49	0,20



APHT 100305PD R-F ALU

Insert for finishing application



N

Geometry F
Grade: NN20M
Processing: Finishing

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APHT 100305PD R-F ALU	NN20M	N	0,30	0,05	0,60	0,10	684

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,70	10,00	3,49	0,50



APKT 1003PD R-M

Insert for medium application

*It can be used on milling cutter bodies of:
SUMITOMO-PRAMET*



CUTTING PARAMETERS

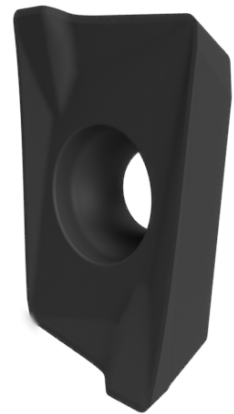
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APKT 1003PD R-M	DP30M	P	0,20	0,12	0,35	0,50	181
APKT 1003PD R-M	DM30M	M	0,20	0,12	0,35	0,50	114
APKT 1003PD R-M	BK30M	K	0,20	0,12	0,35	0,50	171
APKT 1003PD R-M	RH30M	H	0,20	0,12	0,35	0,50	40
APKT 1003PD R-M	ZS30M	S	0,20	0,12	0,35	0,50	40



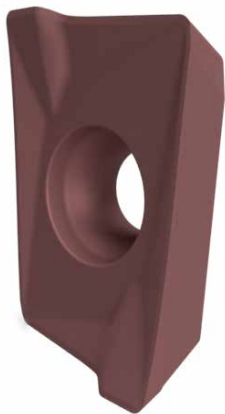
P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,70	10,00	3,49	0,50



APKT 1003PD R-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 SUMITOMO-PRAMET



CUTTING PARAMETERS

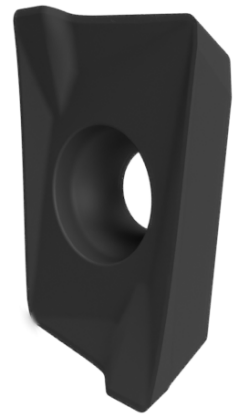
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APKT 1003PD R-R	DP40M	P	0,25	0,15	0,35	0,50	171
APKT 1003PD R-R	DM40M	M	0,25	0,15	0,35	0,50	114
APKT 1003PD R-R	BK40M	K	0,25	0,15	0,35	0,50	171
APKT 1003PD R-R	RH40M	H	0,25	0,15	0,35	0,50	40
APKT 1003PD R-R	ZS40M	S	0,25	0,15	0,35	0,50	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,70	10,00	3,49	0,50



APKT 1604PD R-M

Insert for medium application

It can be used on milling cutter bodies of:
SUMITOMO-PRAMET



CUTTING PARAMETERS

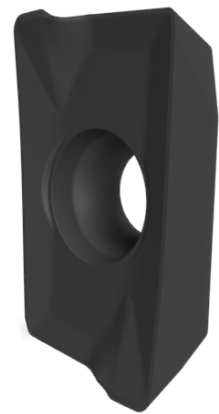
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APKT 1604PD R-M	DP30M	P	0,25	0,12	0,40	1,00	181
APKT 1604PD R-M	DM30M	M	0,25	0,12	0,40	1,00	114
APKT 1604PD R-M	BK30M	K	0,25	0,12	0,40	1,00	171
APKT 1604PD R-M	RH30M	H	0,25	0,12	0,40	1,00	40
APKT 1604PD R-M	ZS30M	S	0,25	0,12	0,40	1,00	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	9,50	16,30	5,26	0,90



APKT 1604PD R-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 SUMITOMO-PRAMET



CUTTING PARAMETERS

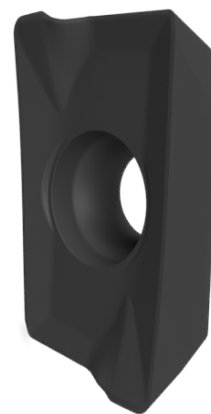
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
APKT 1604PD R-R	DP40M	P	0,28	0,15	0,40	1,00	171
APKT 1604PD R-R	DM40M	M	0,28	0,15	0,40	1,00	114
APKT 1604PD R-R	BK40M	K	0,28	0,15	0,40	1,00	171
APKT 1604PD R-R	RH40M	H	0,28	0,15	0,40	1,00	40
APKT 1604PD R-R	ZS40M	S	0,28	0,15	0,40	1,00	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	9,50	16,30	5,26	0,90

MILL AP 10

Milling cutter bodies for inserts AP



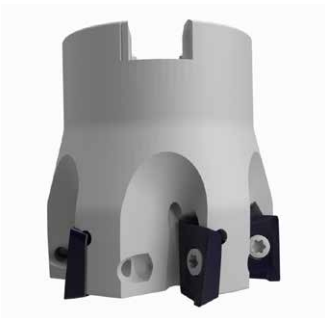
SIZE AVAILABLE

MILL AP 10 D16-C16-L130-Z2

MILL AP 10 D20-C20-L150-Z3

MILL AP 10 D25-C20-L170-Z4

MILL AP 10 D32-C25-L195-Z5



SIZE AVAILABLE

MILL AP 10 D40-M-Z6

MILL AP 10 D50-M-Z7

MILL AP 16

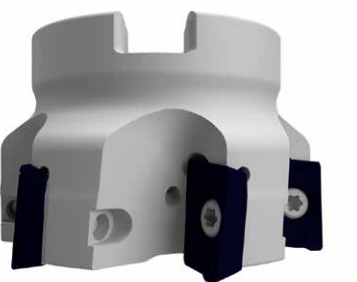
Milling cutter bodies for inserts AP



SIZE AVAILABLE

MILL AP 16 D25-C20-L200-Z2

MILL AP 16 D32-C25-L200-Z3



SIZE AVAILABLE

MILL AP 16 D40-M-Z4

MILL AP 16 D50-M-Z5

MILL AP 16 D63-M-Z6



VX 100308 R-M

Insert for medium application

*It can be used on milling cutter bodies of:
PRAMET-AKKO*

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
VX 100308 R-M	DP30M	P	0,20	0,10	0,35	1,00	181
VX 100308 R-M	DM30M	M	0,20	0,10	0,35	1,00	114
VX 100308 R-M	BK30M	K	0,20	0,10	0,35	1,00	171
VX 100308 R-M	RH30M	H	0,20	0,10	0,35	1,00	40
VX 100308 R-M	ZS30M	S	0,20	0,10	0,35	1,00	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,39	11,78	3,31	0,70



VX 100308 R-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 PRAMET-AKKO



CUTTING PARAMETERS

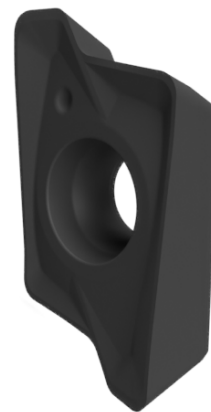
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
VX 100308 R-R	DP40M	P	0,25	0,15	0,35	1,00	171
VX 100308 R-R	DM40M	M	0,25	0,15	0,35	1,00	114
VX 100308 R-R	BK40M	K	0,25	0,15	0,35	1,00	171
VX 100308 R-R	RH40M	H	0,25	0,15	0,35	1,00	40
VX 100308 R-R	ZS40M	S	0,25	0,15	0,35	1,00	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	6,39	11,78	3,31	0,70



VX 160608 ER-M

Insert for medium application

*It can be used on milling cutter bodies of:
PRAMET-AKKO*



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
VX 160608 ER-M	DP30M	P	0,27	0,15	0,45	1,00	181
VX 160608 ER-M	DM30M	M	0,27	0,15	0,45	1,00	114
VX 160608 ER-M	BK30M	K	0,27	0,15	0,45	1,00	171
VX 160608 ER-M	RH30M	H	0,27	0,15	0,45	1,00	40
VX 160608 ER-M	ZS30M	S	0,27	0,15	0,45	1,00	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	9,36	21,59	6,35	0,70



VX 160608 ER-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 PRAMET-AKKO



CUTTING PARAMETERS

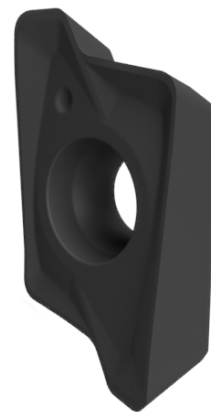
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
VX 160608 ER-R	DP40M	P	0,27	0,15	0,45	1,00	171
VX 160608 ER-R	DM40M	M	0,27	0,15	0,45	1,00	114
VX 160608 ER-R	BK40M	K	0,27	0,15	0,45	1,00	171
VX 160608 ER-R	RH40M	H	0,27	0,15	0,45	1,00	40
VX 160608 ER-R	ZS40M	S	0,27	0,15	0,45	1,00	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	9,36	21,59	6,35	0,70

MILL VX 10

Milling cutter bodies for inserts VX



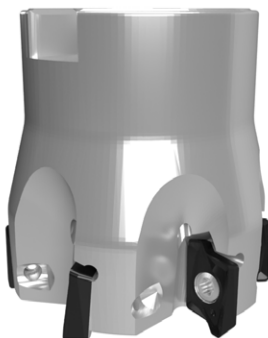
SIZE AVAILABLE

MILL VX 10 D16-C16-L130-Z2

MILL VX 10 D20-C20-L150-Z3

MILL VX 10 D25-C20-L170-Z4

MILL VX 10 D32-C25-L195-Z5



SIZE AVAILABLE

MILL VX 10 D40-M-Z6

MILL VX 10 D50-M-Z7

MILL VX 16

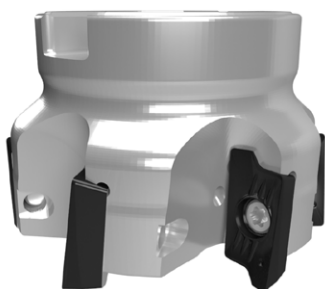
Milling cutter bodies for inserts VX



SIZE AVAILABLE

MILL VX 16 D25-C20-L200-Z2

MILL VX 16 D32-C25-L200-Z3



SIZE AVAILABLE

MILL VX 16 D40-M-Z4

MILL VX 16 D50-M-Z5

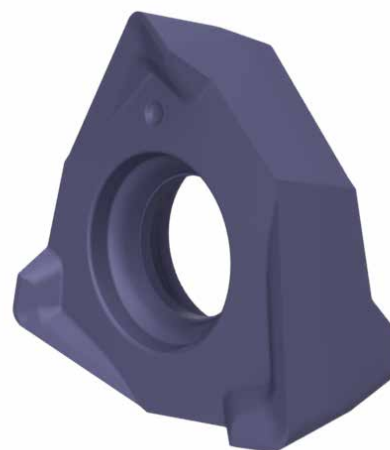
MILL VX 16 D63-M-Z6



XNEX 040304-F

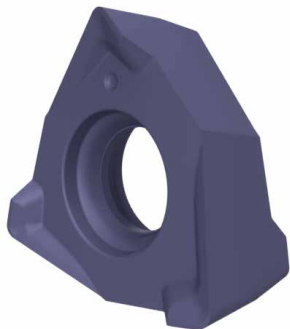
Insert for finishing application

It can be used on milling cutter bodies of: SECO-AKKO

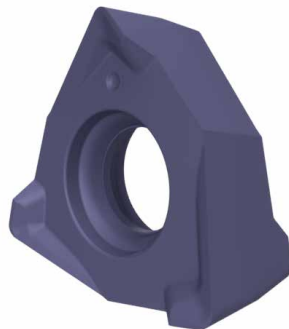


CUTTING PARAMETERS

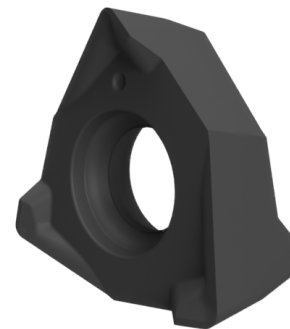
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 040304-F	DP20M	P	0,20	0,10	0,30	0,50	190
XNEX 040304-F	DM20M	M	0,20	0,10	0,30	0,50	114
XNEX 040304-F	BK20M	K	0,20	0,10	0,30	0,50	171
XNEX 040304-F	RH20M	H	0,20	0,10	0,30	0,50	190
XNEX 040304-F	ZS20M	S	0,20	0,10	0,30	0,50	40



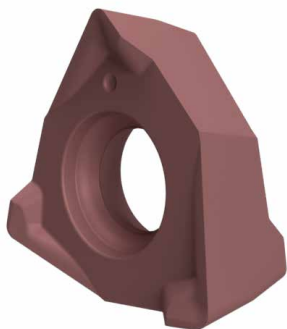
P
Geometry F
Grade: DP20M
Processing: Finishing



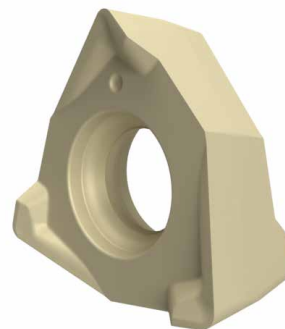
M
Geometry F
Grade: DM20M
Processing: Finishing



K
Geometry F
Grade: BK20M
Processing: Finishing



H
Geometry F
Grade: RH20M
Processing: Finishing



S
Geometry F
Grade: ZS20M
Processing: Finishing

TECHNICAL SHEET - ISO

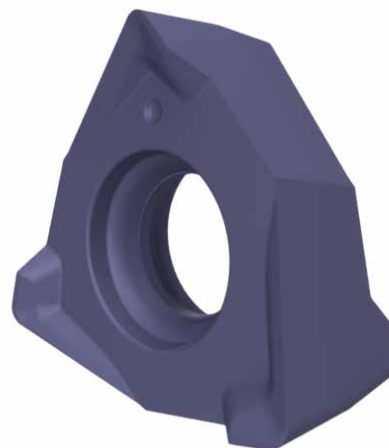
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
04	6,73	4,41	3,31	0,40



XNEX 040304-M

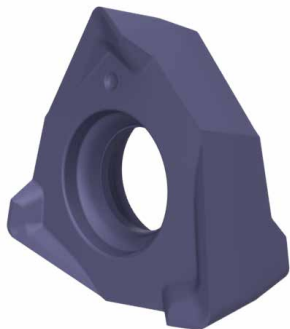
Insert for medium application

It can be used on milling cutter bodies of: SECO-AKKO

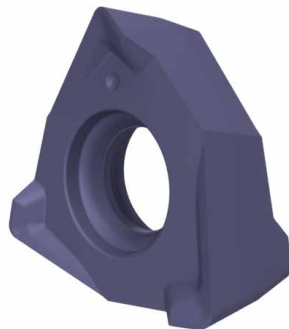


CUTTING PARAMETERS

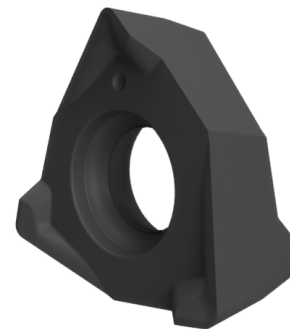
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 040304-M	DP30M	P	0,25	0,15	0,30	0,50	181
XNEX 040304-M	DM30M	M	0,25	0,15	0,30	0,50	114
XNEX 040304-M	BK30M	K	0,25	0,15	0,30	0,50	171
XNEX 040304-M	RH30M	H	0,25	0,15	0,30	0,50	40
XNEX 040304-M	ZS30M	S	0,25	0,15	0,30	0,50	40



P
Geometry M
Grade: DP30M
Processing: Medium



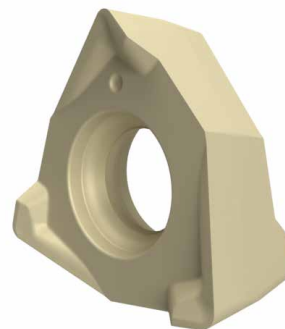
M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

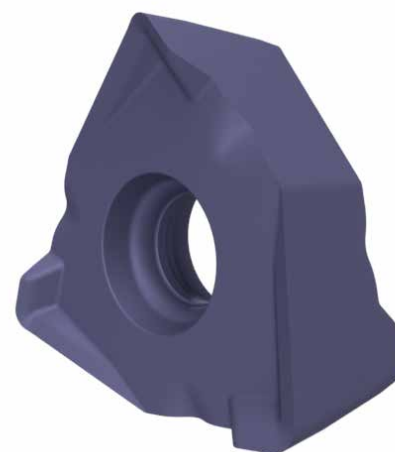
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
04	6,73	4,41	3,31	0,40



XNEX 080604-F

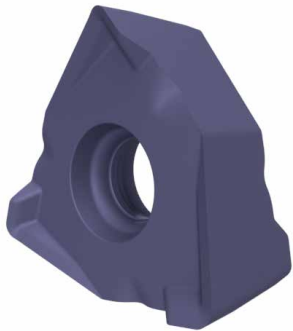
Insert for finishing application

It can be used on milling cutter bodies of: SECO-AKKO

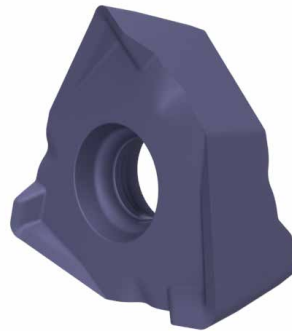


CUTTING PARAMETERS

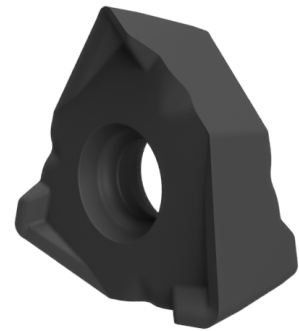
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 080604-F	DP20M	P	0,20	0,15	0,30	0,50	190
XNEX 080604-F	DM20M	M	0,20	0,15	0,30	0,50	114
XNEX 080604-F	BK20M	K	0,20	0,15	0,30	0,50	171
XNEX 080604-F	RH20M	H	0,20	0,15	0,30	0,50	190
XNEX 080604-F	ZS20M	S	0,20	0,15	0,30	0,50	40



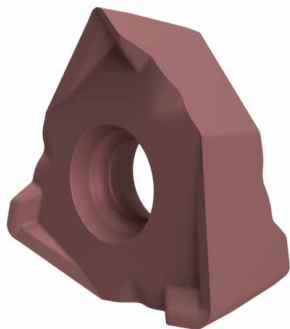
P
Geometry F
Grade: DP20M
Processing: Finishing



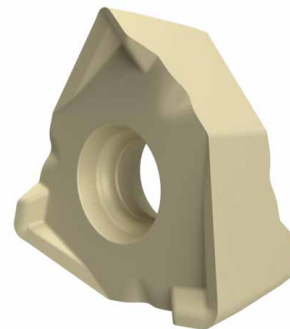
M
Geometry F
Grade: DM20M
Processing: Finishing



K
Geometry F
Grade: BK20M
Processing: Finishing



H
Geometry F
Grade: RH20M
Processing: Finishing



S
Geometry F
Grade: ZS20M
Processing: Finishing

TECHNICAL SHEET - ISO

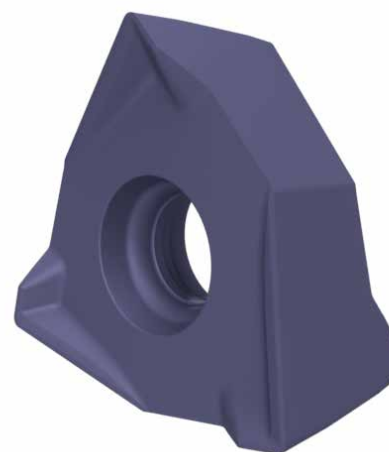
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
08	12,50	7,50	6,56	0,40



XNEX 080608-M

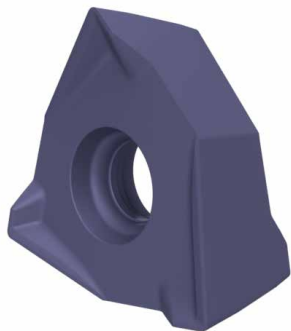
Insert for medium application

It can be used on milling cutter bodies of: SECO-AKKO

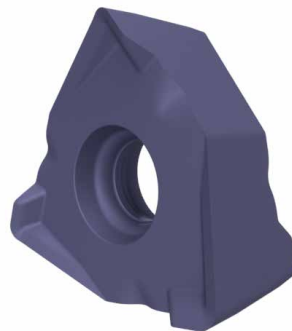


CUTTING PARAMETERS

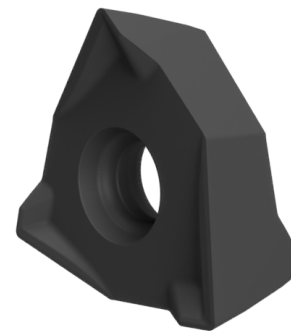
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 080608-M	DP30M	P	0,25	0,17	0,35	0,90	181
XNEX 080608-M	DM30M	M	0,25	0,17	0,35	0,90	114
XNEX 080608-M	BK30M	K	0,25	0,17	0,35	0,90	171
XNEX 080608-M	RH30M	H	0,25	0,17	0,35	0,90	40
XNEX 080608-M	ZS30M	S	0,25	0,17	0,35	0,90	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



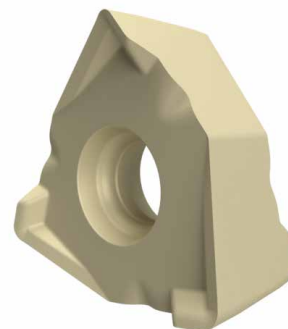
M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

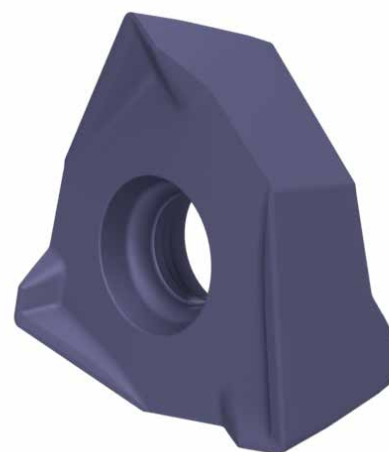
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
08	12,50	7,50	6,56	0,80



XNEX 080612-R

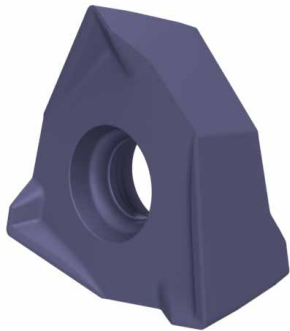
Insert for roughing application

It can be used on milling cutter bodies of: SECO-AKKO

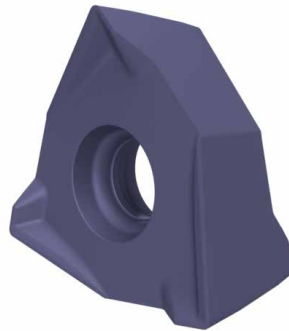


CUTTING PARAMETERS

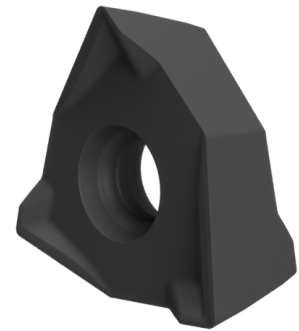
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 080612-R	DP40M	P	0,29	0,20	0,45	1,30	171
XNEX 080612-R	DM40M	M	0,29	0,20	0,45	1,30	114
XNEX 080612-R	BK40M	K	0,29	0,20	0,45	1,30	171
XNEX 080612-R	RH40M	H	0,29	0,20	0,45	1,30	40
XNEX 080612-R	ZS40M	S	0,29	0,20	0,45	1,30	40



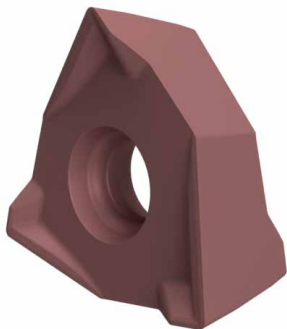
P
 Geometry R
 Grade: DP40M
 Processing: Roughing



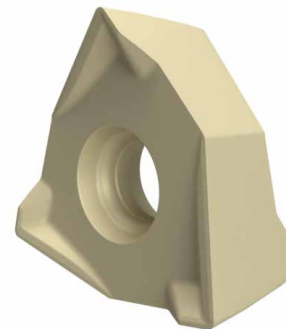
M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



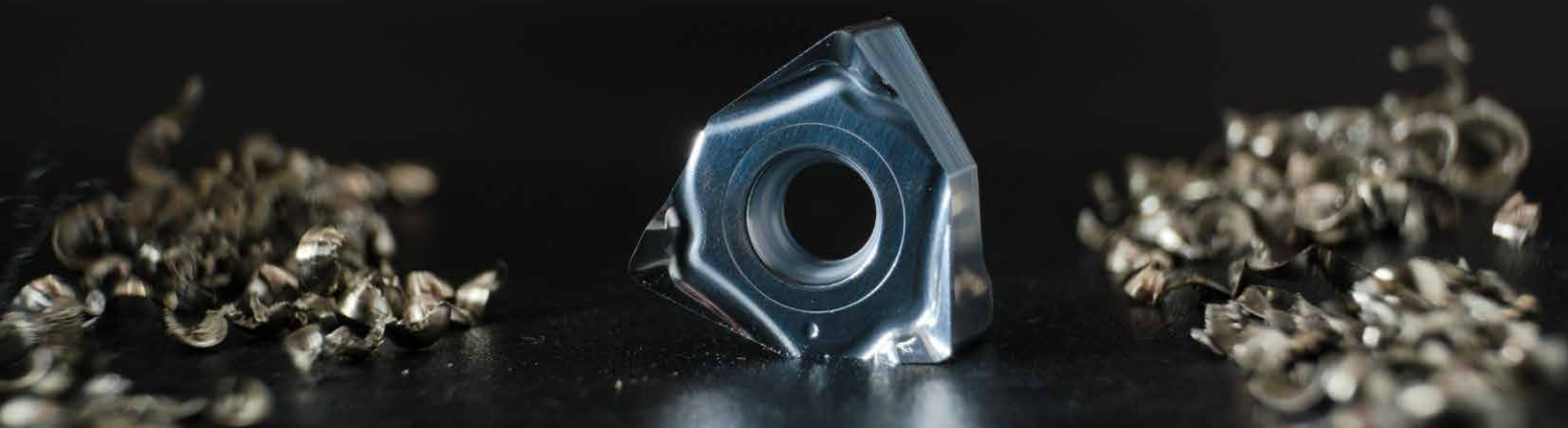
S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
08	12,50	7,50	6,56	1,20

■ Milling | 90°



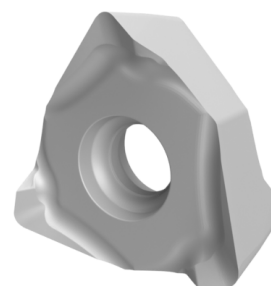


XNEX 080608

ALU NN20M

Insert for finishing application

It can be used on milling cutter bodies of: SECO-AKKO



N
Geometry F
Grade: NN20M
Processing: Finishing

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 080608 ALU NN20M	NN20M	N	0,15	0,05	0,25	0,80	684

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
08	12,50	7,50	6,56	1,20

MILL XN 04

Milling cutter bodies for inserts XN



SIZE AVAILABLE

MILL XN 04 D20-C20-L150-Z3

MILL XN 04 D25-C25-L170-Z4

MILL XN 04 D32-C32-L195-Z5



SIZE AVAILABLE

MILL XN 04 D40-M-Z6

MILL XN 04 D50-M-Z8

MILL XN 08

Milling cutter bodies for inserts XN



SIZE AVAILABLE

MILL XN 08 D50-M-Z4

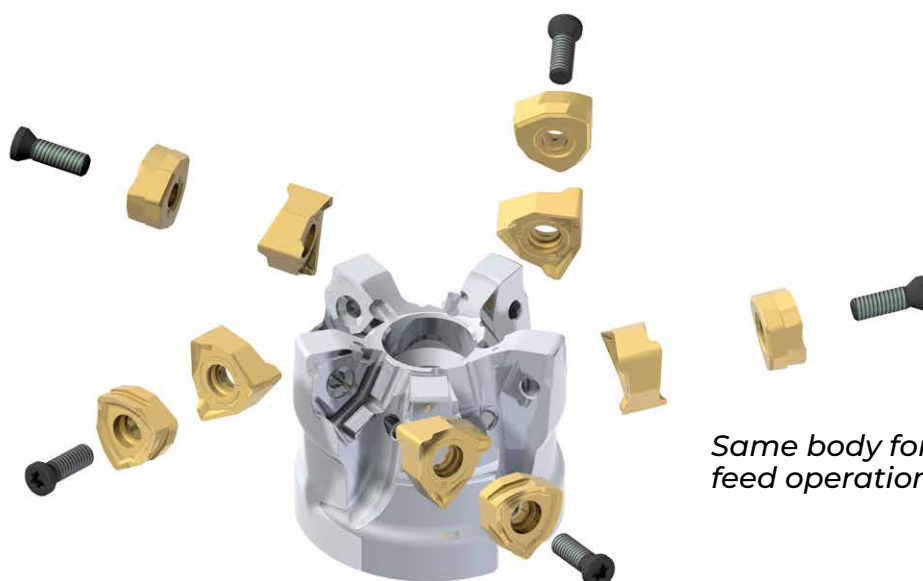
MILL XN 08 D50-M-Z5

MILL XN 08 D63-M-Z6

MILL XN 08 D80-M-Z7

MILL XN 08 D100-M-Z8

MILL XN 08 D125-M-Z11

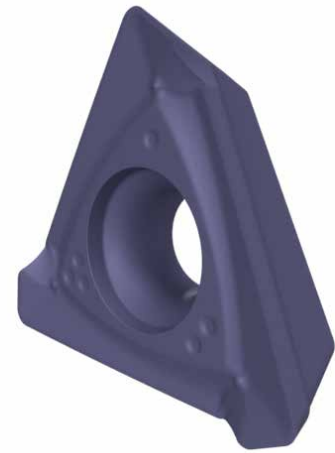


Same body for 90° and high feed operations



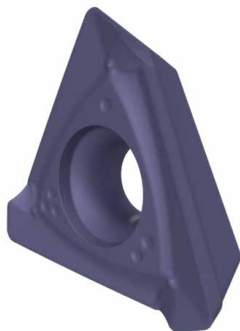
3PEX 110508-M

Insert for medium application



CUTTING PARAMETERS

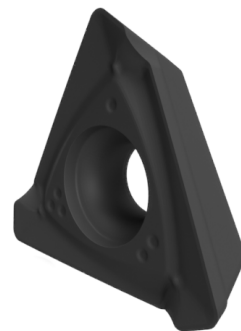
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
3PEX 110508-M	DP30M	P	1,20	0,12	0,30	0,80	181
3PEX 110508-M	DM30M	M	1,20	0,12	0,30	0,80	114
3PEX 110508-M	BK30M	K	1,20	0,12	0,30	0,80	171
3PEX 110508-M	RH30M	H	1,20	0,12	0,30	0,80	40
3PEX 110508-M	ZS30M	S	1,20	0,12	0,30	0,80	40



P
Geometry M
Grade: DP30M
Processing: Medium



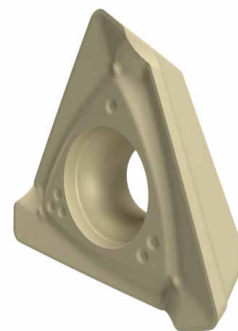
M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

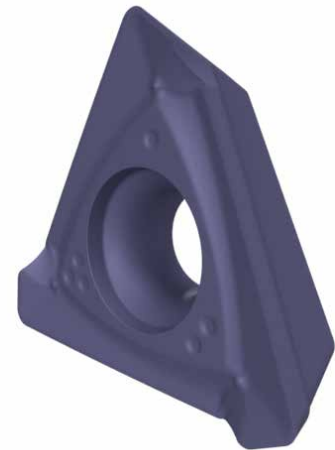
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	7,90	8,00	-	0,80



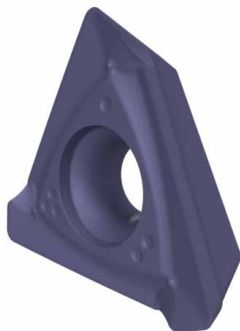
3PEX 160808-M

Insert for medium application

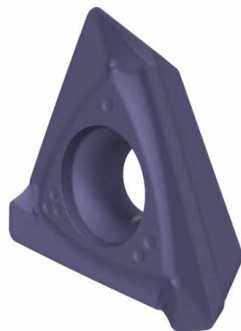


CUTTING PARAMETERS

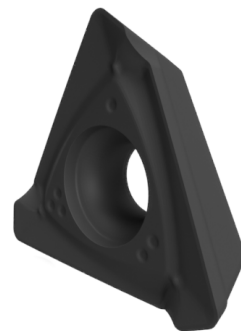
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
3PEX 160808-M	DP30M	P	0,25	0,15	0,35	0,80	181
3PEX 160808-M	DM30M	M	0,25	0,15	0,35	0,80	114
3PEX 160808-M	BK30M	K	0,25	0,15	0,35	0,80	171
3PEX 160808-M	RH30M	H	0,25	0,15	0,35	0,80	40
3PEX 160808-M	ZS30M	S	0,25	0,15	0,35	0,80	40



P
Geometry M
Grade: DP30M
Processing: Medium



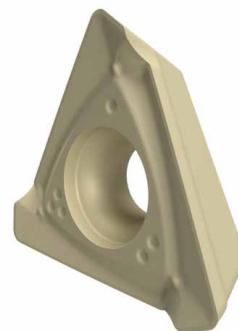
M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

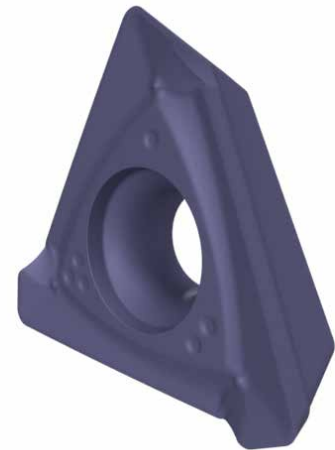
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	11,70	12	-	0,8



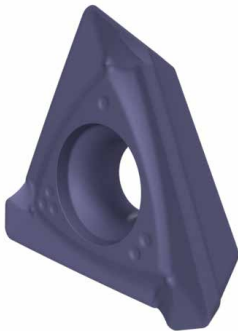
3PEX 200712-M

Insert for medium application



CUTTING PARAMETERS

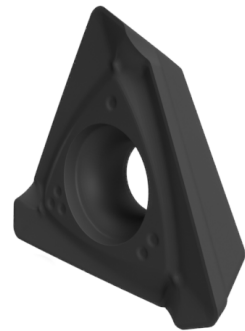
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
3PEX 200712-M	DP30M	P	0,25	0,15	0,35	1,20	181
3PEX 200712-M	DM30M	M	0,25	0,15	0,35	1,20	114
3PEX 200712-M	BK30M	K	0,25	0,15	0,35	1,20	171
3PEX 200712-M	RH30M	H	0,25	0,15	0,35	1,20	40
3PEX 200712-M	ZS30M	S	0,25	0,15	0,35	1,20	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



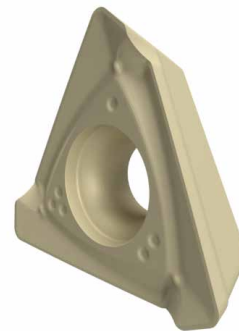
M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	14,50	16	-	1,2

MILL 3P 11

Milling cutter bodies for inserts 3P



SIZE AVAILABLE

MILL 3P 11 D40-M-Z6

MILL 3P 11 D50-M-Z7

MILL 3P 16

Milling cutter bodies for inserts 3P



SIZE AVAILABLE

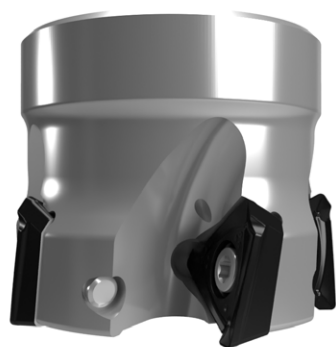
MILL 3P 16 D50-M-Z5

MILL 3P 16 D63-M-Z6

MILL 3P 16 D 80-M-Z7

MILL 3P 20

Milling cutter bodies for inserts 3P



SIZE AVAILABLE

MILL 3P 20 D63-M-Z6

MILL 3P 20 D80-M-Z7

MILL 3P 20 D100-M-Z8



ONMX 1205 ANN-M

Insert for medium application



CUTTING PARAMETERS

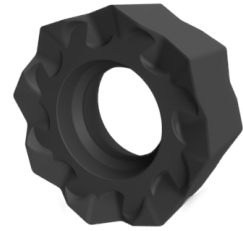
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
ONMX 1205 ANN-M	DP30M	P	0,22	0,15	0,30	0,80	181
ONMX 1205 ANN-M	DM30M	M	0,22	0,15	0,30	0,80	114
ONMX 1205 ANN-M	BK30M	K	0,22	0,15	0,30	0,80	171
ONMX 1205 ANN-M	RH30M	H	0,22	0,15	0,30	0,80	40
ONMX 1205 ANN-M	ZS30M	S	0,22	0,15	0,30	0,80	40



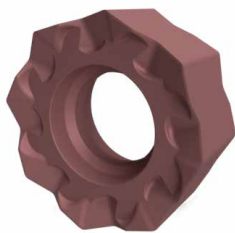
P
 Geometry M
 Grade: DP30M
 Processing: Medium



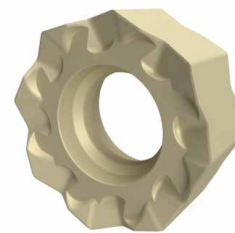
M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

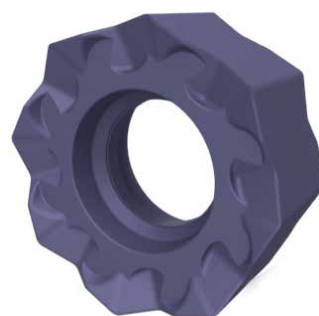
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	12,70	5,42	0,40



ONMX 1205 ANN-R

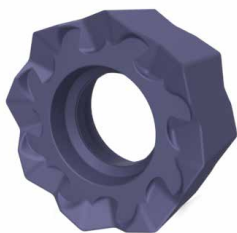
Insert for roughing application

It can be used on the milling cutter bodies of the SN line; see page 301

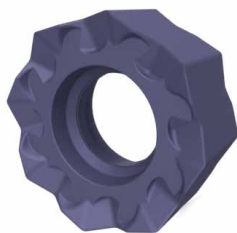


CUTTING PARAMETERS

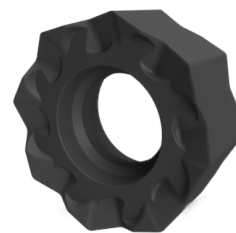
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
ONMX 1205 ANN-R	DP40M	P	0,25	0,18	0,32	0,80	171
ONMX 1205 ANN-R	DM40M	M	0,25	0,18	0,32	0,80	114
ONMX 1205 ANN-R	BK40M	K	0,25	0,18	0,32	0,80	171
ONMX 1205 ANN-R	RH40M	H	0,25	0,18	0,32	0,80	40
ONMX 1205 ANN-R	ZS40M	S	0,25	0,18	0,32	0,80	40



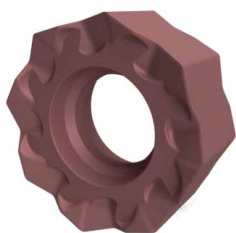
P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

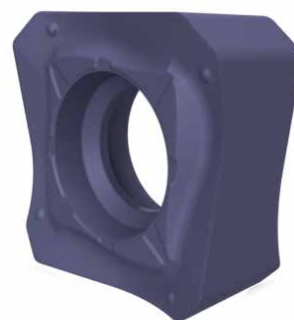
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	12,70	5,42	0,40



SNHX 1205AN EN-F

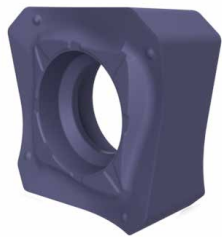
Insert for finishing application

*It can be used on milling cutter bodies of:
WALTER-KORLOY*

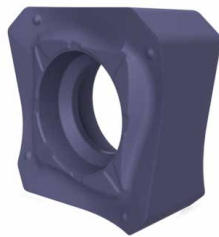


CUTTING PARAMETERS

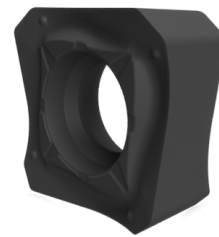
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SNHX 1205AN EN-F	DP20M	P	0,20	0,15	0,30	1,00	190
SNHX 1205AN EN-F	DM20M	M	0,20	0,15	0,30	1,00	114
SNHX 1205AN EN-F	BK20M	K	0,20	0,15	0,30	1,00	171
SNHX 1205AN EN-F	RH20M	H	0,20	0,15	0,30	1,00	190
SNHX 1205AN EN-F	ZS20M	S	0,20	0,15	0,30	1,00	40



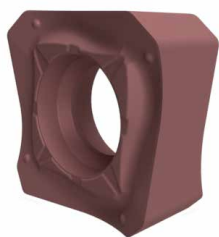
P
 Geometry F
 Grade: DP20M
 Processing: Finishing



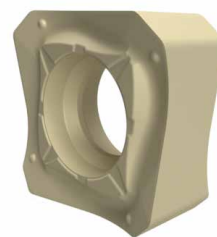
M
 Geometry F
 Grade: DM20M
 Processing: Finishing



K
 Geometry F
 Grade: BK20M
 Processing: Finishing



H
 Geometry F
 Grade: RH20M
 Processing: Finishing



S
 Geometry F
 Grade: ZS20M
 Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	15,80	5,71	-



SNMX 1205 ANN-M

Insert for medium application

*It can be used on milling cutter bodies of:
WALTER-KORLOY*



CUTTING PARAMETERS

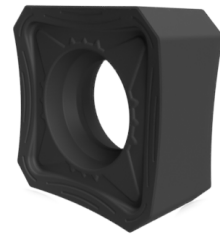
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SNMX 1205 ANN-M	DP30M	P	0,25	0,18	0,50	1,00	181
SNMX 1205 ANN-M	DM30M	M	0,25	0,18	0,50	1,00	114
SNMX 1205 ANN-M	BK30M	K	0,25	0,18	0,50	1,00	171
SNMX 1205 ANN-M	RH30M	H	0,25	0,18	0,50	1,00	40
SNMX 1205 ANN-M	ZS30M	S	0,25	0,18	0,50	1,00	40



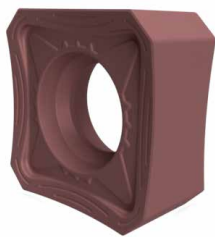
P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	15,80	5,71	-



SNMX 1205 ANN-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 WALTER-KORLOY



CUTTING PARAMETERS

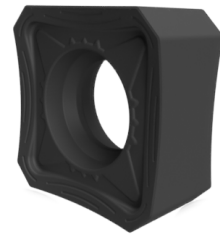
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SNMX 1205 ANN-R	DP40M	P	0,28	0,20	0,50	1,00	171
SNMX 1205 ANN-R	DM40M	M	0,28	0,20	0,50	1,00	114
SNMX 1205 ANN-R	BK40M	K	0,28	0,20	0,50	1,00	171
SNMX 1205 ANN-R	RH40M	H	0,28	0,20	0,50	1,00	40
SNMX 1205 ANN-R	ZS40M	S	0,28	0,20	0,50	1,00	40



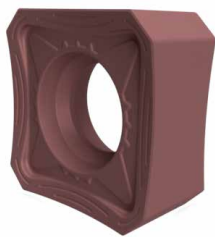
P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

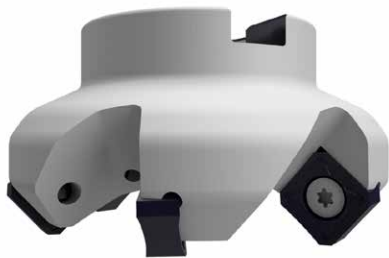
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	15,80	5,71	-



MILL SN 12

Milling cutter bodies for inserts SN-ON



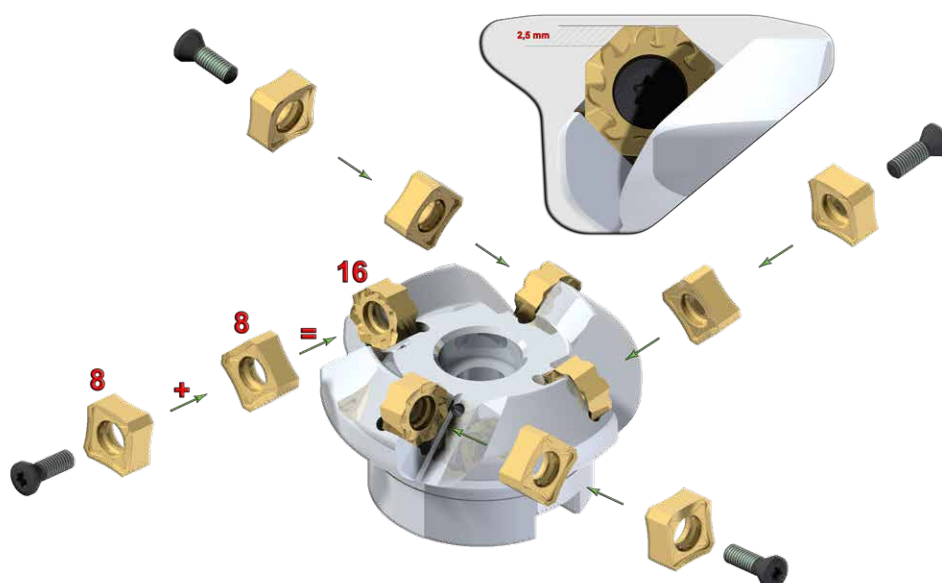
SIZE AVAILABLE

MILL SN 12 D50-M-Z4

MILL SN 12 D63-M-Z6

MILL SN 12 D80-M-Z7

MILL SN 12 D100-M-Z8





SEHT 1204AF SNRC-F

Insert for finishing application



CUTTING PARAMETERS

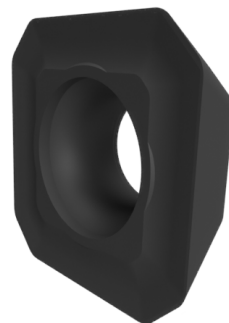
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SEHT 1204AF SNRC-F	DP20M	P	0,20	0,15	0,30	1,00	190
SEHT 1204AF SNRC-F	DM20M	M	0,20	0,15	0,30	1,00	114
SEHT 1204AF SNRC-F	BK20M	K	0,20	0,15	0,30	1,00	171
SEHT 1204AF SNRC-F	RH20M	H	0,20	0,15	0,30	1,00	190
SEHT 1204AF SNRC-F	ZS20M	S	0,20	0,15	0,30	1,00	40



P
 Geometry F
 Grade: DP20M
 Processing: Finishing



M
 Geometry F
 Grade: DM20M
 Processing: Finishing



K
 Geometry F
 Grade: BK20M
 Processing: Finishing



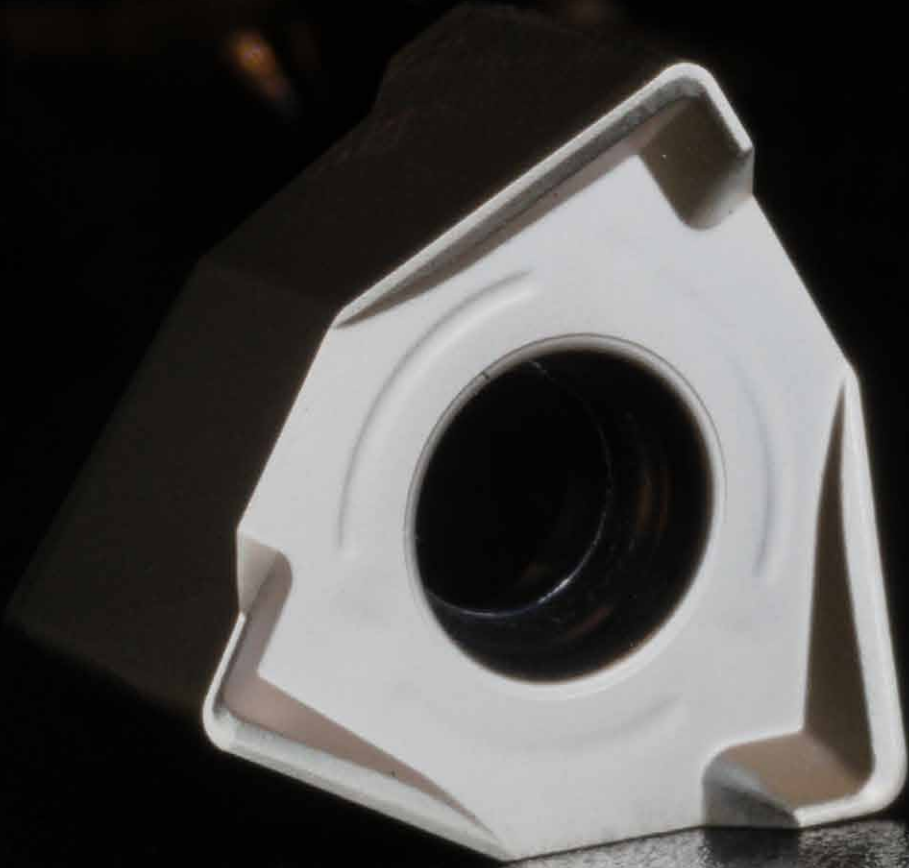
H
 Geometry F
 Grade: RH20M
 Processing: Finishing

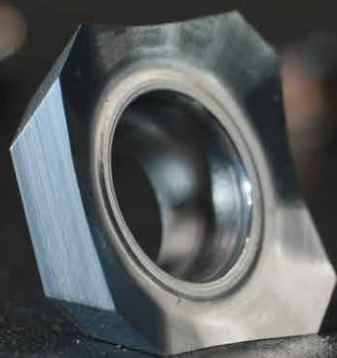


S
 Geometry F
 Grade: ZS20M
 Processing: Finishing

TECHNICAL SHEET - ISO

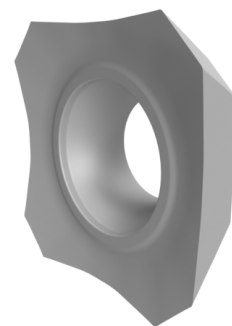
Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	12,70	4,76	-





SEHT 1204AF-F ALU NN20M

Insert for finishing application



N
Geometry F
Grade: NN20M
Processing: Finishing

CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SEHT 1204AF-F ALU	NN20M	N	0,20	0,05	0,80	0,10	684

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	12,70	4,76	-



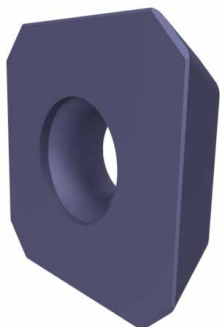
SEHX 1204AFSN-M

Insert for medium application



CUTTING PARAMETERS

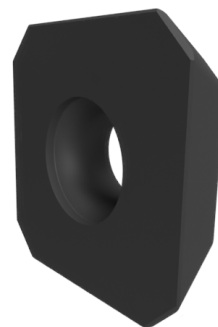
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SEHX 1204AFSN-M	DP30M	P	0,22	0,15	0,35	0,50	181
SEHX 1204AFSN-M	DM30M	M	0,22	0,15	0,35	0,50	114
SEHX 1204AFSN-M	BK30M	K	0,22	0,15	0,35	0,50	171
SEHX 1204AFSN-M	RH30M	H	0,22	0,15	0,35	0,50	40
SEHX 1204AFSN-M	ZS30M	S	0,22	0,15	0,35	0,50	40



P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	12,70	4,76	-



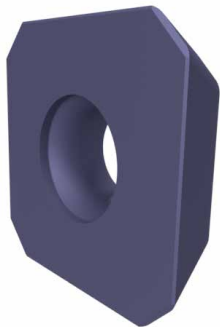
SEHX 1204AFSN-R

Insert for roughing application

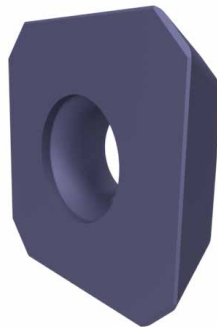


CUTTING PARAMETERS

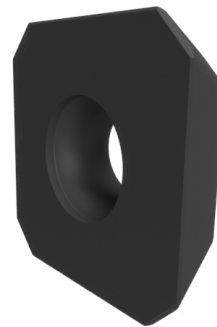
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SEHX 1204AFSN-R	DP40M	P	0,22	0,20	0,40	0,50	171
SEHX 1204AFSN-R	DM40M	M	0,22	0,20	0,40	0,50	114
SEHX 1204AFSN-R	BK40M	K	0,22	0,20	0,40	0,50	171
SEHX 1204AFSN-R	RH40M	H	0,22	0,20	0,40	0,50	40
SEHX 1204AFSN-R	ZS40M	S	0,22	0,20	0,40	0,50	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

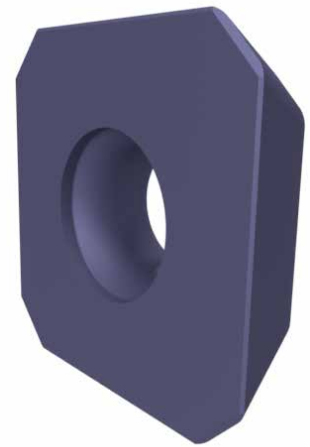
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,70	12,70	4,76	-



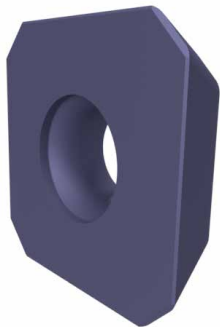
SEHX 1504AFSN-M

Insert for medium application

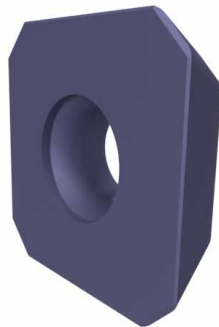


CUTTING PARAMETERS

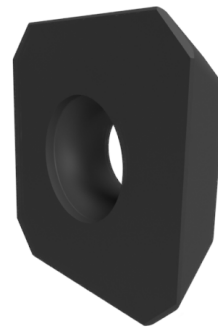
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SEHX 1504AFSN-M	DP30M	P	0,22	0,15	0,35	1,00	181
SEHX 1504AFSN-M	DM30M	M	0,22	0,15	0,35	1,00	114
SEHX 1504AFSN-M	BK30M	K	0,22	0,15	0,35	1,00	171
SEHX 1504AFSN-M	RH30M	H	0,22	0,15	0,35	1,00	40
SEHX 1504AFSN-M	ZS30M	S	0,22	0,15	0,35	1,00	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
15	15,38	15,38	4,76	-



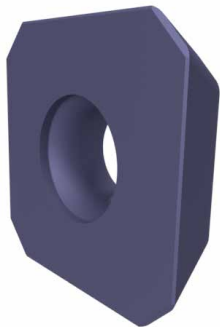
SEHX 1504AFSN-R

Insert for roughing application

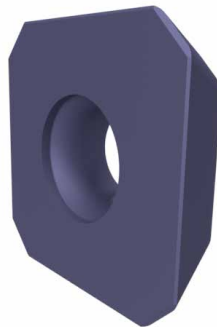


CUTTING PARAMETERS

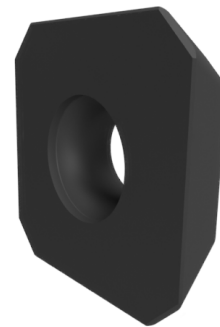
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SEHX 1504AFSN-R	DP40M	P	0,25	0,20	0,40	1,00	171
SEHX 1504AFSN-R	DM40M	M	0,25	0,20	0,40	1,00	114
SEHX 1504AFSN-R	BK40M	K	0,25	0,20	0,40	1,00	171
SEHX 1504AFSN-R	RH40M	H	0,25	0,20	0,40	1,00	40
SEHX 1504AFSN-R	ZS40M	S	0,25	0,20	0,40	1,00	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

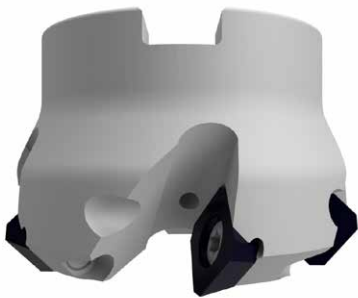
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
15	15,38	15,38	4,76	-



MILL SE 12

Milling cutter bodies for inserts SE



SIZE AVAILABLE

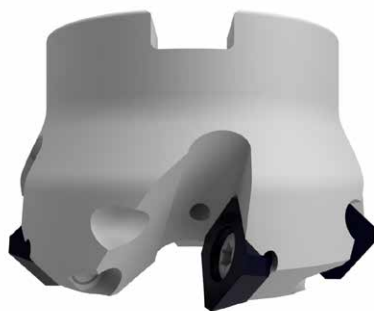
MILL SE 12 D40-M-Z4

MILL SE 12 D50-M-Z5

MILL SE 12 D63-M-Z6

MILL SE 15

Milling cutter bodies for inserts SE



SIZE AVAILABLE

MILL SE 15 D160-M-Z5

MILL SE 15 D200-M-Z10



RCKT 1606MO S-M

Insert for medium application

*It can be used on milling cutter bodies of:
SANDVIK-AKKO*



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RCKT 1606MO S-M	DP30M	P	0,40	0,20	0,70	0,50	181
RCKT 1606MO S-M	DM30M	M	0,40	0,20	0,70	0,50	114
RCKT 1606MO S-M	BK30M	K	0,40	0,20	0,70	0,50	171
RCKT 1606MO S-M	RH30M	H	0,40	0,20	0,70	0,50	40
RCKT 1606MO S-M	ZS30M	S	0,40	0,20	0,70	0,50	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



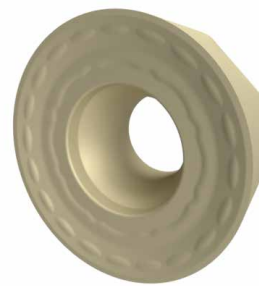
M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	6,35	-



RCKT 1606MO S-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 SANDVIK-AKKO



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RCKT 1606MO S-R	DP40M	P	0,45	0,30	0,80	0,50	171
RCKT 1606MO S-R	DM40M	M	0,45	0,30	0,80	0,50	114
RCKT 1606MO S-R	BK40M	K	0,45	0,30	0,80	0,50	171
RCKT 1606MO S-R	RH40M	H	0,45	0,30	0,80	0,50	40
RCKT 1606MO S-R	ZS40M	S	0,45	0,30	0,80	0,50	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	6,35	-



RCKT 2006MO S-M

Insert for medium application

*It can be used on milling cutter bodies of:
SANDVIK-AKKO*



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RCKT 2006MO S-M	DP30M	P	0,40	0,20	0,70	0,50	181
RCKT 2006MO S-M	DM30M	M	0,40	0,20	0,70	0,50	114
RCKT 2006MO S-M	BK30M	K	0,40	0,20	0,70	0,50	171
RCKT 2006MO S-M	RH30M	H	0,40	0,20	0,70	0,50	40
RCKT 2006MO S-M	ZS30M	S	0,40	0,20	0,70	0,50	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
20	20,00	-	6,35	-



RCKT 2006MO S-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 SANDVIK-AKKO



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RCKT 2006MO S-R	DP40M	P	0,45	0,30	0,80	0,50	171
RCKT 2006MO S-R	DM40M	M	0,45	0,30	0,80	0,50	114
RCKT 2006MO S-R	BK40M	K	0,45	0,30	0,80	0,50	171
RCKT 2006MO S-R	RH40M	H	0,45	0,30	0,80	0,50	40
RCKT 2006MO S-R	ZS40M	S	0,45	0,30	0,80	0,50	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
20	20,00	-	6,35	-



MILL RC 20

Milling cutter bodies for inserts RC



SIZE AVAILABLE

MILL RC 20 D125-M-Z6

MILL RC 20 D160-M-Z7

MILL RC 20 D200-M-Z8

MILL RC 16

Milling cutter bodies for inserts RC



SIZE AVAILABLE

MILL RC 16 D63-M-Z5

MILL RC 16 D80-M-Z6

MILL RC 16 D100-M-Z6



RDHW 0702MOT-M

Insert for medium application



CUTTING PARAMETERS

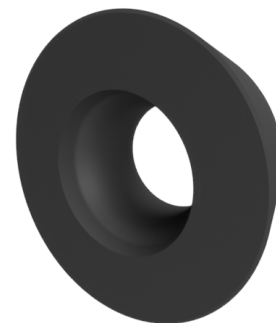
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 0702MOT-M	DP30M	P	0,45	0,10	0,80	0,50	171
RDHW 0702MOT-M	DM30M	M	0,45	0,10	0,80	0,50	114
RDHW 0702MOT-M	BK30M	K	0,45	0,10	0,80	0,50	171
RDHW 0702MOT-M	RH30M	H	0,45	0,10	0,80	0,50	40
RDHW 0702MOT-M	ZS30M	S	0,45	0,10	0,80	0,50	40



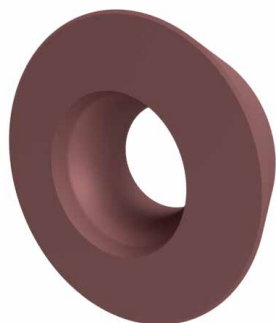
P
Geometry M
Grade: DP30M
Processing: Medium



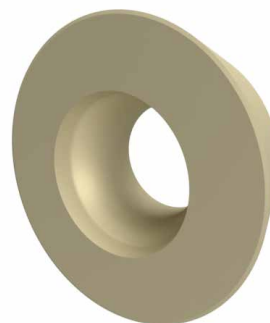
M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
07	7,00	-	2,38	-



RDHW 0702MOT-R

Insert for roughing application



CUTTING PARAMETERS

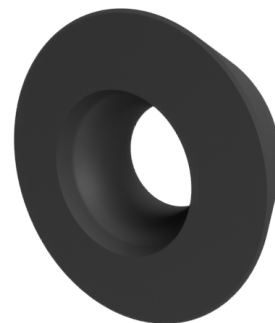
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 0702MOT-R	DP40M	P	0,45	0,10	0,80	0,50	171
RDHW 0702MOT-R	DM40M	M	0,45	0,10	0,80	0,50	114
RDHW 0702MOT-R	BK40M	K	0,45	0,10	0,80	0,50	171
RDHW 0702MOT-R	RH40M	H	0,45	0,10	0,80	0,50	40
RDHW 0702MOT-R	ZS40M	S	0,45	0,10	0,80	0,50	40



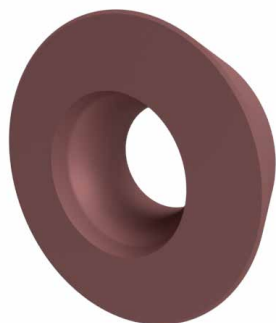
P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

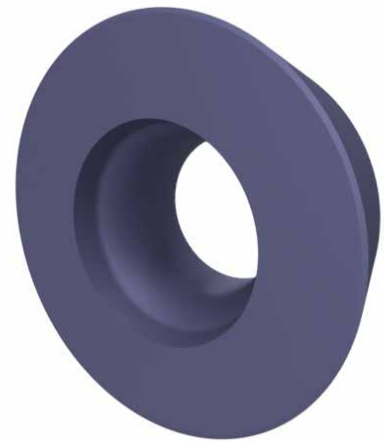
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
07	7,00	-	2,38	-



RDHW 1003MOT-M

Insert for medium application



CUTTING PARAMETERS

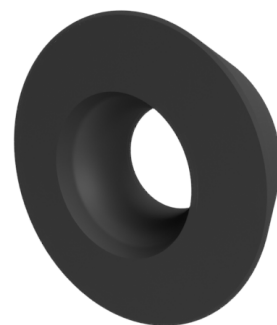
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 1003MOT-M	DP30M	P	0,45	0,10	0,80	0,50	171
RDHW 1003MOT-M	DM30M	M	0,45	0,10	0,80	0,50	114
RDHW 1003MOT-M	BK30M	K	0,45	0,10	0,80	0,50	171
RDHW 1003MOT-M	RH30M	H	0,45	0,10	0,80	0,50	40
RDHW 1003MOT-M	ZS30M	S	0,45	0,10	0,80	0,50	40



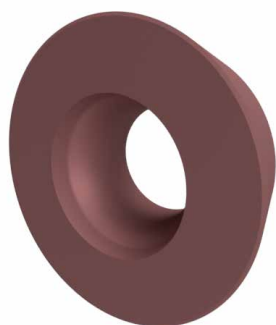
P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	10,00	-	3,17	-



RDHW 1003MOT-R

Insert for roughing application



CUTTING PARAMETERS

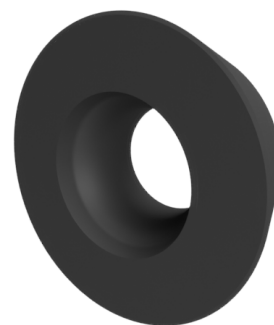
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 1003MOT-R	DP40M	P	0,45	0,10	0,80	0,50	171
RDHW 1003MOT-R	DM40M	M	0,45	0,10	0,80	0,50	114
RDHW 1003MOT-R	BK40M	K	0,45	0,10	0,80	0,50	171
RDHW 1003MOT-R	RH40M	H	0,45	0,10	0,80	0,50	40
RDHW 1003MOT-R	ZS40M	S	0,45	0,10	0,80	0,50	40



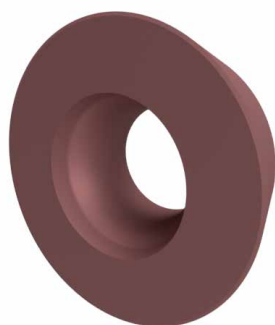
P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
10	10,00	-	3,17	-



RDHW 12T3MOT-M

Insert for medium application



CUTTING PARAMETERS

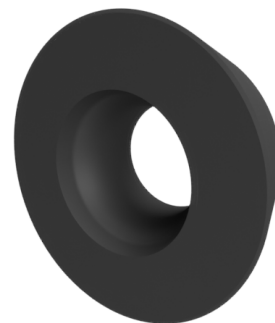
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 12T3MOT-M	DP30M	P	0,45	0,10	0,80	0,50	171
RDHW 12T3MOT-M	DM30M	M	0,45	0,10	0,80	0,50	114
RDHW 12T3MOT-M	BK30M	K	0,45	0,10	0,80	0,50	171
RDHW 12T3MOT-M	RH30M	H	0,45	0,10	0,80	0,50	190
RDHW 12T3MOT-M	ZS30M	S	0,45	0,10	0,80	0,50	40



P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	3,97	-



RDHW 12T3MOT-R

Insert for roughing application



CUTTING PARAMETERS

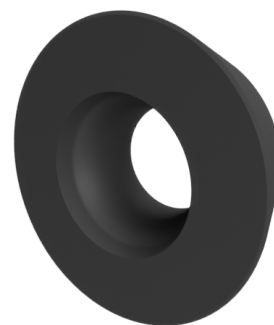
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 12T3MOT-R	DP40M	P	0,45	0,10	0,80	0,50	171
RDHW 12T3MOT-R	DM40M	M	0,45	0,10	0,80	0,50	114
RDHW 12T3MOT-R	BK40M	K	0,45	0,10	0,80	0,50	171
RDHW 12T3MOT-R	RH40M	H	0,45	0,10	0,80	0,50	190
RDHW 12T3MOT-R	ZS40M	S	0,45	0,10	0,80	0,50	40



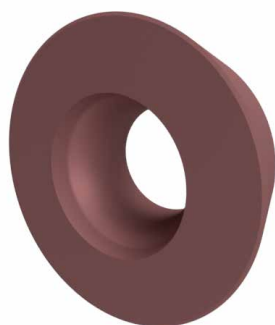
P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	3,97	-



RDHW 1604MOT-M

Insert for medium application



CUTTING PARAMETERS

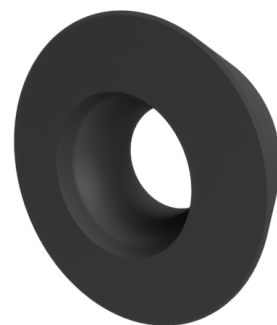
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 1604MOT-M	DP30M	P	0,45	0,10	0,80	0,50	171
RDHW 1604MOT-M	DM30M	M	0,45	0,10	0,80	0,50	114
RDHW 1604MOT-M	BK30M	K	0,45	0,10	0,80	0,50	171
RDHW 1604MOT-M	RH30M	H	0,45	0,10	0,80	0,50	190
RDHW 1604MOT-M	ZS30M	S	0,45	0,10	0,80	0,50	40



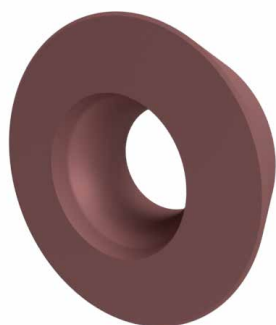
P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	4,76	-



RDHW 1604MOT-R

Insert for roughing application



CUTTING PARAMETERS

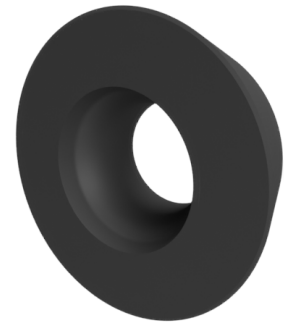
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RDHW 1604MOT-R	DP40M	P	0,45	0,10	0,80	0,50	171
RDHW 1604MOT-R	DM40M	M	0,45	0,10	0,80	0,50	114
RDHW 1604MOT-R	BK40M	K	0,45	0,10	0,80	0,50	171
RDHW 1604MOT-R	RH40M	H	0,45	0,10	0,80	0,50	190
RDHW 1604MOT-R	ZS40M	S	0,45	0,10	0,80	0,50	40



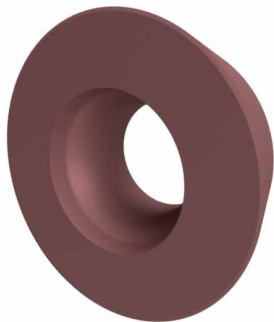
P
 Geometry R
 Grade: DP40M
 Processing: Roughing



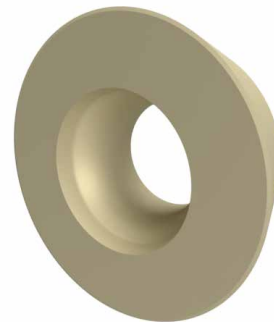
M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	4,76	-

TWIST RD 07

Milling cutter bodies for inserts RD



SIZE AVAILABLE

TWIST RD 07 D16-M08-Z3

TWIST RD 07 D20-M10-Z4

TWIST RD 07 D25-M12-Z5

TWIST RD 10

Milling cutter bodies for inserts RD



SIZE AVAILABLE

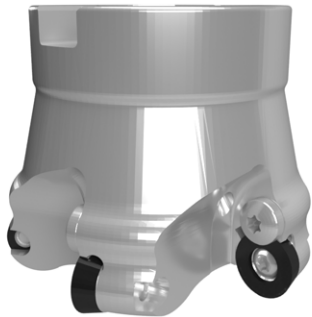
TWIST RD 10 D20-M10-Z2

TWIST RD 10 D25-M12-Z3

TWIST RD 10 D32-M16-Z4

MILL RD 12

Milling cutter bodies for inserts RD



SIZE AVAILABLE

MILL RD 12 D52-M-Z5

MILL RD 12 D66-M-Z6

MILL RD 16

Milling cutter bodies for inserts RD



SIZE AVAILABLE

MILL RD 16 D66-M-Z5

MILL RD 16 D50-M-Z6



RPHW 1204MO-R

Insert for roughing application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RPHW 1204MO-R	DP40M	P	0,45	0,10	0,80	0,50	171
RDHW 12T3MOT-M	DM40M	M	0,45	0,10	0,80	0,50	114
RDHW 12T3MOT-M	BK40M	K	0,45	0,10	0,80	0,50	171
RDHW 12T3MOT-M	RH40M	H	0,45	0,10	0,80	0,50	190
RDHW 12T3MOT-M	ZS40M	S	0,45	0,10	0,80	0,50	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	4,76	-



RPHW 1605MO-R

Insert for roughing application



CUTTING PARAMETERS

Descrizione	Grado	Iso	Nominale fz (mm giro)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RPHW 1605MO-R	DP40M	P	0,45	0,10	0,80	0,50	171
RPHW 1605MO-R	DM40M	M	0,45	0,10	0,80	0,50	114
RPHW 1605MO-R	BK40M	K	0,45	0,10	0,80	0,50	171
RPHW 1605MO-R	RH40M	H	0,45	0,10	0,80	0,50	190
RPHW 1605MO-R	ZS40M	S	0,45	0,10	0,80	0,50	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	4,76	-



RPHX 1204MO-M

Insert for medium application



CUTTING PARAMETERS

Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RPHX 1204MO-M	DP30M	P	0,40	0,20	0,80	0,50	181
RPHX 1204MO-M	DM30M	M	0,40	0,20	0,80	0,50	114
RPHX 1204MO-M	BK30M	K	0,40	0,20	0,80	0,50	171
RPHX 1204MO-M	RH30M	H	0,40	0,20	0,80	0,50	40
RPHX 1204MO-M	ZS30M	S	0,40	0,20	0,80	0,50	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	4,76	-



RPHX 1204MO-R

Insert for roughing application



CUTTING PARAMETERS

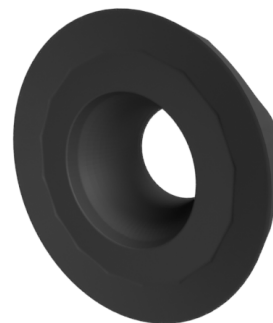
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RPHX 1204MO-R	DP40M	P	0,45	0,10	0,80	0,50	171
RPHX 1204MO-R	DM40M	M	0,45	0,10	0,80	0,50	114
RPHX 1204MO-R	BK40M	K	0,45	0,10	0,80	0,50	171
RPHX 1204MO-R	RH40M	H	0,45	0,10	0,80	0,50	190
RPHX 1204MO-R	ZS40M	S	0,45	0,10	0,80	0,50	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	4,76	-



RPHX 1605MO-M

Insert for medium application



CUTTING PARAMETERS

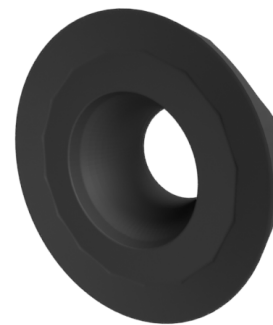
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RPHX 1605MO-M	DP30M	P	0,50	0,25	0,80	1,50	181
RPHX 1605MO-M	DM30M	M	0,50	0,25	0,80	1,50	114
RPHX 1605MO-M	BK30M	K	0,50	0,25	0,80	1,50	171
RPHX 1605MO-M	RH30M	H	0,50	0,25	0,80	1,50	40
RPHX 1605MO-M	ZS30M	S	0,50	0,25	0,80	1,50	40



P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	5,56	-



RPHX 1605MO-R

Insert for roughing application



CUTTING PARAMETERS

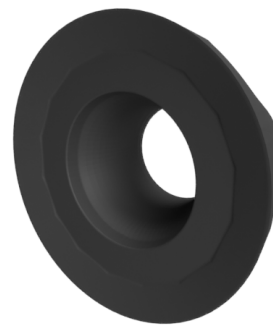
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
RPHX 1605MO-R	DP40M	P	0,60	0,30	1,00	1,50	171
RPHX 1605MO-R	DM40M	M	0,60	0,30	1,00	1,50	114
RPHX 1605MO-R	BK40M	K	0,60	0,30	1,00	1,50	171
RPHX 1605MO-R	RH40M	H	0,60	0,30	1,00	1,50	40
RPHX 1605MO-R	ZS40M	S	0,60	0,30	1,00	1,50	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	5,56	-

MILL RP 12

Milling cutter bodies for inserts RP



SIZE AVAILABLE

MILL RP 12 D40-M-Z4

MILL RP 12 D50-M-Z5

MILL RP 12 D52-M-Z5

MILL RP 12 D63-M-Z6

MILL RP 12 D66-M-Z7

MILL RP 12 D80-M-Z7

MILL RP 12 D100-M-Z10

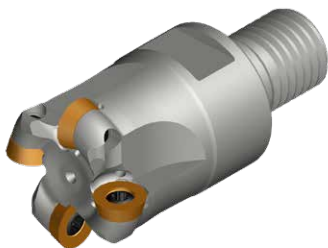


SIZE AVAILABLE

MILL RP 12 D35-C32-L150-Z3

MILL RP 12

Milling cutter bodies for inserts RP



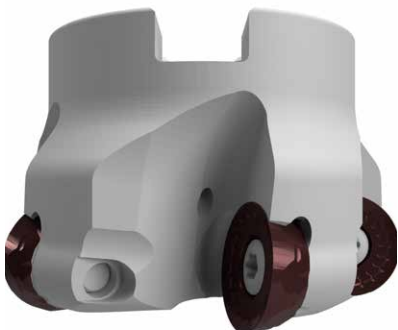
SIZE AVAILABLE

TWIST RP 12 D32-M16-Z3

TWIST RP 12 D42-M16-Z4

MILL RP 16

Milling cutter bodies for inserts RP



SIZE AVAILABLE

MILL RP 16 D63-M-Z5

MILL RP 16 D80-M-Z6

MILL RP 16 D100-M-Z7



BNMT 0603TR-F

Insert for finishing application

*It can be used on milling cutter bodies of:
TAEGUTEC-AKKO*



CUTTING PARAMETERS

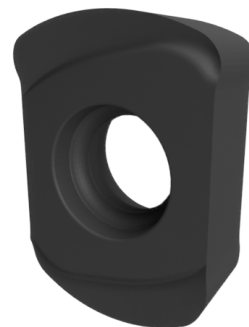
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
BNMT 0603TR-F	DP20M	P	0,80	0,10	2,00	0,10	190
BNMT 0603TR-F	DM20M	M	0,80	0,10	2,00	0,10	114
BNMT 0603TR-F	BK20M	K	0,80	0,10	2,00	0,10	171
BNMT 0603TR-F	RH20M	H	0,80	0,10	2,00	0,10	190
BNMT 0603TR-F	ZS20M	S	0,80	0,10	2,00	0,10	40



P
 Geometry F
 Grade: DP20M
 Processing: Finishing



M
 Geometry F
 Grade: DM20M
 Processing: Finishing



K
 Geometry F
 Grade: BK20M
 Processing: Finishing



H
 Geometry F
 Grade: RH20M
 Processing: Finishing



S
 Geometry F
 Grade: ZS20M
 Processing: Finishing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	6,24	9,00	3,00	-



BNMT 0603TR-M

Insert for medium application

*It can be used on milling cutter bodies of:
TAEGUTEC-AKKO*



CUTTING PARAMETERS

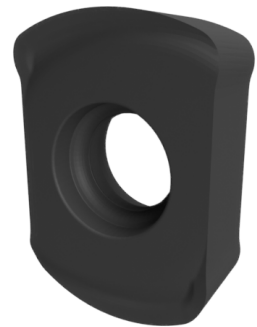
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
BNMT 0603TR-M	DP30M	P	0,80	0,10	2,00	0,10	181
BNMT 0603TR-M	DM30M	M	0,80	0,10	2,00	0,10	114
BNMT 0603TR-M	BK30M	K	0,80	0,10	2,00	0,10	171
BNMT 0603TR-M	RH30M	H	0,80	0,10	2,00	0,10	40
BNMT 0603TR-M	ZS30M	S	0,80	0,10	2,00	0,10	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	6,24	9,00	3,00	-



BNMT 0603SR-R

Insert for roughing application
It can be used on milling cutter bodies of:
TAEGUTEC-AKKO



CUTTING PARAMETERS

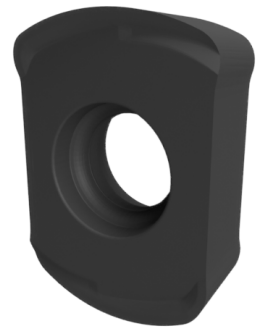
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
BNMT 0603SR-R	DP40M	P	0,80	0,20	2,00	0,20	171
BNMT 0603SR-R	DM40M	M	0,80	0,20	2,00	0,20	114
BNMT 0603SR-R	BK40M	K	0,80	0,20	2,00	0,20	171
BNMT 0603SR-R	RH40M	H	0,80	0,20	2,00	0,20	40
BNMT 0603SR-R	ZS40M	S	0,80	0,20	2,00	0,20	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	6,24	9,00	3,00	-

MILL BN 06

Milling cutter bodies for inserts BN



SIZE AVAILABLE

MILL BN 06 D20-C20-L150-Z3

MILL BN 06 D25-C25-L170-Z4

MILL BN 06 D32-C32-L195-Z5

MILL BN 06

Milling cutter bodies for inserts BN



SIZE AVAILABLE

MILL BN 06 D40-M-Z6

MILL BN 06 D50-M-Z8

TWIST BN 06

Milling cutter bodies for inserts BN



SIZE AVAILABLE

TWIST BN 06 D20-M10-Z3

TWIST BN 06 D25-M12-Z4

TWIST BN 06 D32-M16-Z5



JDMW 120420 SR-M

Insert for medium application

*It can be used on milling cutter bodies of:
MITSUBISHI-AKKO*



CUTTING PARAMETERS

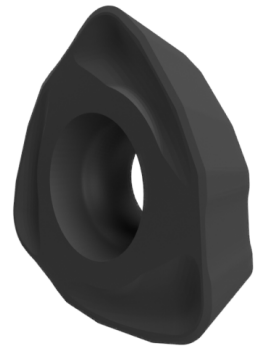
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
JDMW 120420 SR-M	DP30M	P	0,85	0,60	1,50	1,00	181
JDMW 120420 SR-M	DM30M	M	0,85	0,60	1,50	1,00	114
JDMW 120420 SR-M	BK30M	K	0,85	0,60	1,50	1,00	171
JDMW 120420 SR-M	RH30M	H	0,85	0,60	1,50	1,00	40
JDMW 120420 SR-M	ZS30M	S	0,85	0,60	1,50	1,00	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	4,76	-



JDMW 120420 SR-R

Insert for roughing application

*It can be used on milling cutter bodies of:
MITSUBISHI-AKKO*



CUTTING PARAMETERS

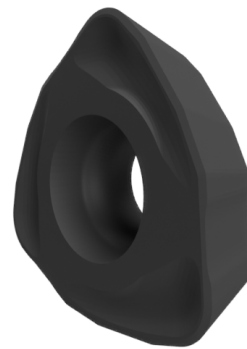
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
JDMW 120420 SR-R	DP40M	P	0,85	0,60	1,50	1,00	171
JDMW 120420 SR-R	DM40M	M	0,85	0,60	1,50	1,00	114
JDMW 120420 SR-R	BK40M	K	0,85	0,60	1,50	1,00	171
JDMW 120420 SR-R	RH40M	H	0,85	0,60	1,50	1,00	40
JDMW 120420 SR-R	ZS40M	S	0,85	0,60	1,50	1,00	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
12	12,00	-	4,76	-



JDMW 140520-M

Insert for medium application

*It can be used on milling cutter bodies of:
MITSUBISHI-AKKO*



CUTTING PARAMETERS

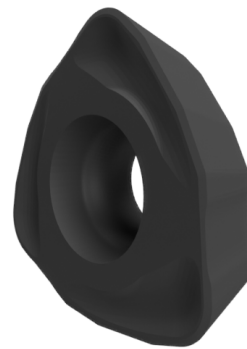
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
JDMW 140520-M	DP30M	P	0,85	0,50	1,20	0,70	181
JDMW 140520-M	DM30M	M	0,85	0,50	1,20	0,70	114
JDMW 140520-M	BK30M	K	0,85	0,50	1,20	0,70	171
JDMW 140520-M	RH30M	H	0,85	0,50	1,20	0,70	40
JDMW 140520-M	ZS30M	S	0,85	0,50	1,20	0,70	40



P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	13,89	-	5,58	-



JDMW 140520-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 MITSUBISHI-AKKO



CUTTING PARAMETERS

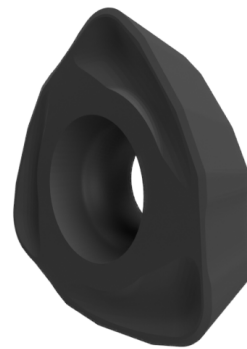
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
JDMW 140520-R	DP40M	P	0,85	0,50	1,20	0,70	171
JDMW 140520-R	DM40M	M	0,85	0,50	1,20	0,70	114
JDMW 140520-R	BK40M	K	0,85	0,50	1,20	0,70	171
JDMW 140520-R	RH40M	H	0,85	0,50	1,20	0,70	40
JDMW 140520-R	ZS40M	S	0,85	0,50	1,20	0,70	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
-	13,89	-	5,58	-

MILL JD 12

Milling cutter bodies for inserts JD



SIZE AVAILABLE

MILL JD 12 D32-C32-L300-Z2

MILL JD 12 D40-C40-L300-Z3

MILL JD 12

Milling cutter bodies for inserts JD



SIZE AVAILABLE

MILL JD 12 D50-M-Z4

MILL JD 12 D52-M-Z4

MILL JD 14

Milling cutter bodies for inserts JD



SIZE AVAILABLE

MILL JD 14 D63-M-Z4

MILL JD 14 D80-M-Z5

MILL JD 14 D100-M-Z6



SPHW 1605-M

Insert for medium application



CUTTING PARAMETERS

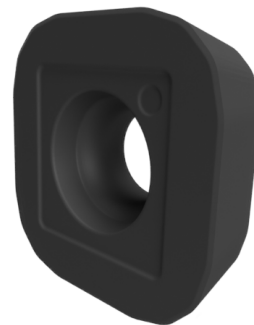
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SPHW 1605-M	DP30M	P	1,50	1,00	3,00	1,00	181
SPHW 1605-M	DM30M	M	1,50	1,00	3,00	1,00	114
SPHW 1605-M	BK30M	K	1,50	1,00	3,00	1,00	171
SPHW 1605-M	RH30M	H	1,50	1,00	3,00	1,00	40
SPHW 1605-M	ZS30M	S	1,50	1,00	3,00	1,00	40



P
Geometry M
Grade: DP30M
Processing: Medium



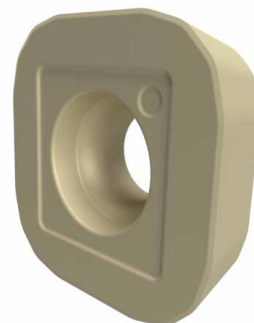
M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	5,56	-



SPHW 1605-R

Insert for roughing application



CUTTING PARAMETERS

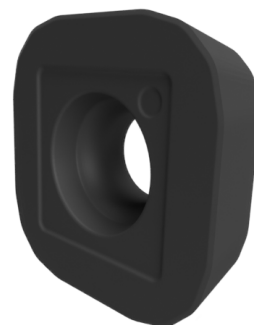
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SPHW 1605-R	DP40M	P	1,50	1,00	3,00	1,00	171
SPHW 1605-R	DM40M	M	1,50	1,00	3,00	1,00	114
SPHW 1605-R	BK40M	K	1,50	1,00	3,00	1,00	171
SPHW 1605-R	RH40M	H	1,50	1,00	3,00	1,00	40
SPHW 1605-R	ZS40M	S	1,50	1,00	3,00	1,00	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	5,56	-



SPHT 1605E-M

Insert for medium application



CUTTING PARAMETERS

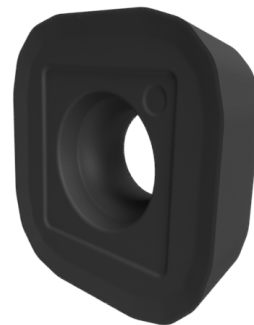
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SPHT 160E-M	DP30M	P	1,00	1,00	1,50	1,00	181
SPHT 160E-M	DM30M	M	1,00	1,00	1,50	1,00	114
SPHT 160E-M	BK30M	K	1,00	1,00	1,50	1,00	171
SPHT 160E-M	RH30M	H	1,00	1,00	1,50	1,00	40
SPHT 160E-M	ZS30M	S	1,00	1,00	1,50	1,00	40



P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	5,56	-



SPHT 1605E-R

Insert for roughing application



CUTTING PARAMETERS

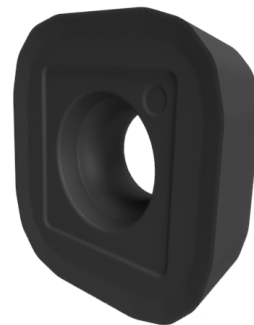
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
SPHT 1605E-R	DP40M	P	1,00	1,00	1,50	1,00	171
SPHT 1605E-R	DM40M	M	1,00	1,00	1,50	1,00	114
SPHT 1605E-R	BK40M	K	1,00	1,00	1,50	1,00	171
SPHT 1605E-R	RH40M	H	1,00	1,00	1,50	1,00	40
SPHT 1605E-R	ZS40M	S	1,00	1,00	1,50	1,00	40



P
Geometry R
Grade: DP40M
Processing: Roughing



M
Geometry R
Grade: DM40M
Processing: Roughing



K
Geometry R
Grade: BK40M
Processing: Roughing



H
Geometry R
Grade: RH40M
Processing: Roughing



S
Geometry R
Grade: ZS40M
Processing: Roughing

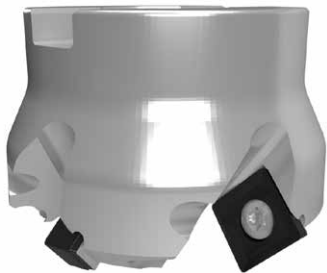
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
16	16,00	-	5,56	-



MILL SP 16

Milling cutter bodies for inserts SP



SIZE AVAILABLE

MILL SP 16 D80-M-Z7

MILL SP 16 D100-M-Z8

MILL SP 16 D125-M-Z11



XNEX 080610 HF-M

Insert for medium application

It can be used on the milling cutter bodies of the XNEX line; see page 279



CUTTING PARAMETERS

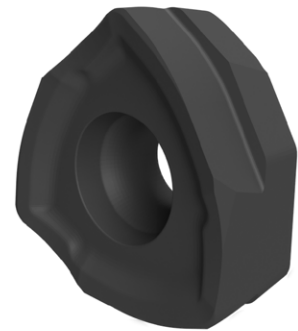
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 080610 HF-M	DP30M	P	0,70	0,40	1,00	0,30	181
XNEX 080610 HF-M	DM30M	M	0,70	0,40	1,00	0,30	114
XNEX 080610 HF-M	BK30M	K	0,70	0,40	1,00	0,30	171
XNEX 080610 HF-M	RH30M	H	0,70	0,40	1,00	0,30	40
XNEX 080610 HF-M	ZS30M	S	0,70	0,40	1,00	0,30	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
08	12,52	-	5,51	-



XNEX 080610 HF-R

Insert for roughing application



CUTTING PARAMETERS

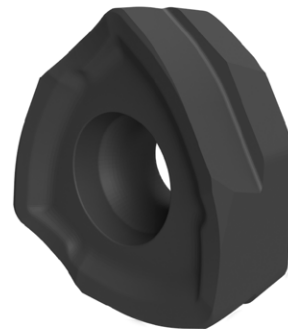
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XNEX 080610 HF-R	DP40M	P	0,70	0,40	1,00	0,30	171
XNEX 080610 HF-R	DM40M	M	0,70	0,40	1,00	0,30	114
XNEX 080610 HF-R	BK40M	K	0,70	0,40	1,00	0,30	171
XNEX 080610 HF-R	RH40M	H	0,70	0,40	1,00	0,30	40
XNEX 080610 HF-R	ZS40M	S	0,70	0,40	1,00	0,30	40



P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
08	12,52	-	5,51	-



XPT 0603TN-M

Insert for medium application

*It can be used on milling cutter bodies of:
HITACHI-AKKO*



CUTTING PARAMETERS

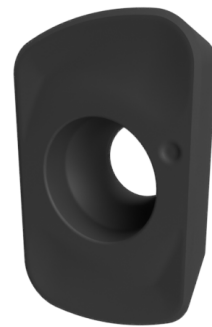
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XPT 0603TN-M	DP30M	P	0,80	0,40	1,60	0,10	181
XPT 0603TN-M	DM30M	M	0,80	0,40	1,60	0,10	114
XPT 0603TN-M	BK30M	K	0,80	0,40	1,60	0,10	171
XPT 0603TN-M	RH30M	H	0,80	0,40	1,60	0,10	40
XPT 0603TN-M	ZS30M	S	0,80	0,40	1,60	0,10	40



P
 Geometry M
 Grade: DP30M
 Processing: Medium



M
 Geometry M
 Grade: DM30M
 Processing: Medium



K
 Geometry M
 Grade: BK30M
 Processing: Medium



H
 Geometry M
 Grade: RH30M
 Processing: Medium



S
 Geometry M
 Grade: ZS30M
 Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
06	6,32	9,97	3,18	-



XPT 0603TN-R

Insert for roughing application
It can be used on milling cutter bodies of:
HITACHI-AKKO



CUTTING PARAMETERS

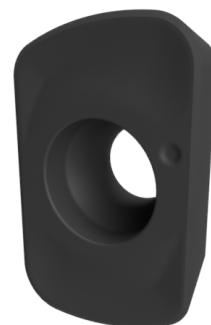
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XPT 0603TN-R	DP40M	P	0,80	0,40	1,60	0,10	171
XPT 0603TN-R	DM40M	M	0,80	0,40	1,60	0,10	114
XPT 0603TN-R	BK40M	K	0,80	0,40	1,60	0,10	171
XPT 0603TN-R	RH40M	H	0,80	0,40	1,60	0,10	40
XPT 0603TN-R	ZS40M	S	0,80	0,40	1,60	0,10	40

**P**

Geometry R
Grade: DP40M
Processing: Roughing

**M**

Geometry R
Grade: DM40M
Processing: Roughing

**K**

Geometry R
Grade: BK40M
Processing: Roughing

**H**

Geometry R
Grade: RH40M
Processing: Roughing

**S**

Geometry R
Grade: ZS40M
Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
06	6,32	9,97	3,18	-



XPW 0603TN-M

Insert for medium application

*It can be used on milling cutter bodies of:
HITACHI-AKKO*



CUTTING PARAMETERS

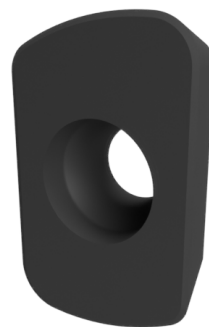
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XPW 0603TN-M	DP30M	P	0,80	0,40	1,60	0,10	181
XPW 0603TN-M	DM30M	M	0,80	0,40	1,60	0,10	114
XPW 0603TN-M	BK30M	K	0,80	0,40	1,60	0,10	171
XPW 0603TN-M	RH30M	H	0,80	0,40	1,60	0,10	40
XPW 0603TN-M	ZS30M	S	0,80	0,40	1,60	0,10	40



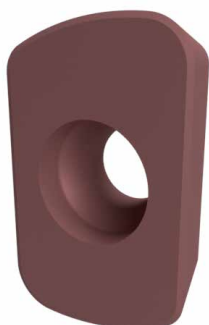
P
Geometry M
Grade: DP30M
Processing: Medium



M
Geometry M
Grade: DM30M
Processing: Medium



K
Geometry M
Grade: BK30M
Processing: Medium



H
Geometry M
Grade: RH30M
Processing: Medium



S
Geometry M
Grade: ZS30M
Processing: Medium

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
06	6,32	9,97	3,18	-



XPW 0603TN-R

Insert for roughing application
 It can be used on milling cutter bodies of:
 HITACHI-AKKO



CUTTING PARAMETERS

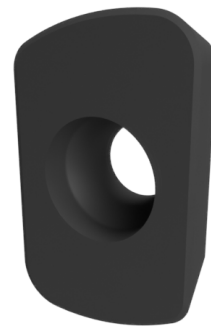
Description	Grade	Iso	Nominal Fz (mm)	Fz min (mm)	Fz max (mm)	ap min (mm)	Vc min (m/min)
XPW 0603TN-R	DP40M	P	0,80	0,40	1,60	0,10	171
XPW 0603TN-R	DM40M	M	0,80	0,40	1,60	0,10	114
XPW 0603TN-R	BK40M	K	0,80	0,40	1,60	0,10	171
XPW 0603TN-R	RH40M	H	0,80	0,40	1,60	0,10	40
XPW 0603TN-R	ZS40M	S	0,80	0,40	1,60	0,10	40



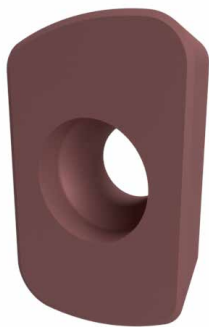
P
 Geometry R
 Grade: DP40M
 Processing: Roughing



M
 Geometry R
 Grade: DM40M
 Processing: Roughing



K
 Geometry R
 Grade: BK40M
 Processing: Roughing



H
 Geometry R
 Grade: RH40M
 Processing: Roughing



S
 Geometry R
 Grade: ZS40M
 Processing: Roughing

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Thickness (mm)	Radius (mm)
06	6,32	9,97	3,18	-








NEW PARTING PHILOSOPHY

The new range of parting products comes from an innovative system of collaboration between a selected group of European users, performing in various mechanical sectors, and Sharp Metal's technicians.

In fact, we have decided to test directly in the field the new solutions, with the aim of understanding the real needs of the operators and the limits of the current solutions in use and to provide concrete responses and high-quality results.

OVERVIEW OF SHARP METAL GRADES

In partnership with our PVD and CVD providers, equipped with the latest technologies, we have selected for each material to be processed, a dedicated coating solution.

HARDNESS	ISO P	ISO M	ISO H
15	DP15P	DM15P	RH15P
25	DP25P	DM25P	RH25P
35	DP35P	DM35P	RH35P
Coating			
Technology	PVD	PVD	PVD

We have created dedicated grades, based on the material to be worked and therefore based on the ISO families of: Steels, Stainless steels, Cast-irons, non-ferrous materials, tempered steels and superalloys.

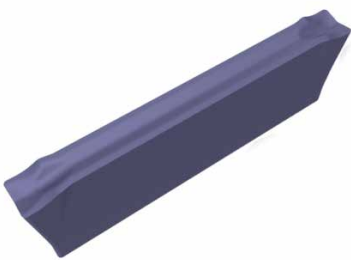
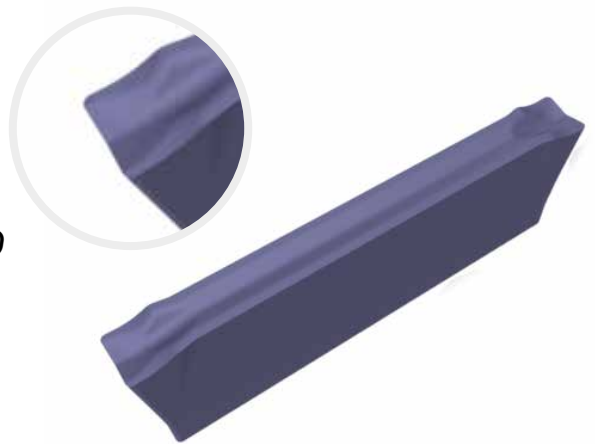
ISO P Steels
ISO M Stainless Steels
ISO H Tempered materials



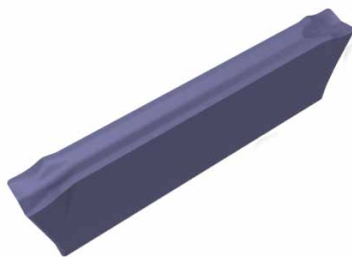
DCT 22-F

Parting insert

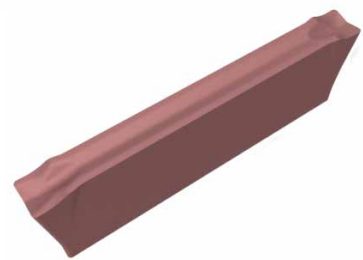
It can be used on tool holders of: ISCAR-AKKO



P
Grade: DP15P



M
Grade: DM15P



H
Grade: RH15P

TECHNICAL SHEET - ISO

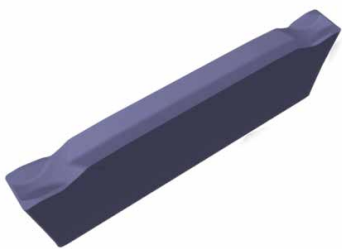
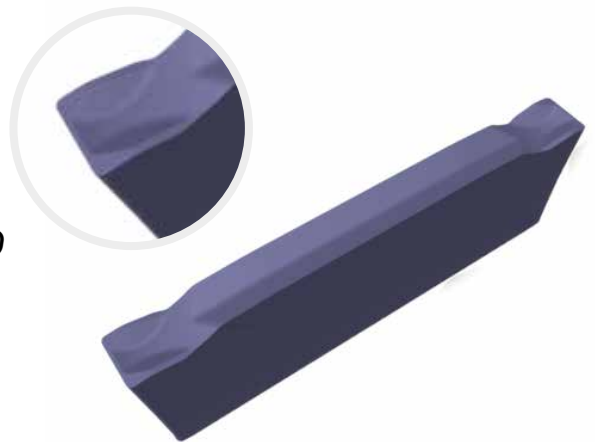
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	19,80	2,20	0,20



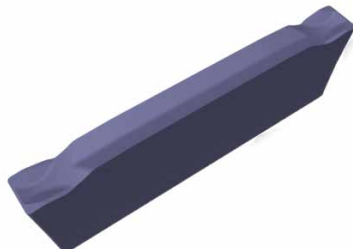
DCT 22-M

Parting insert

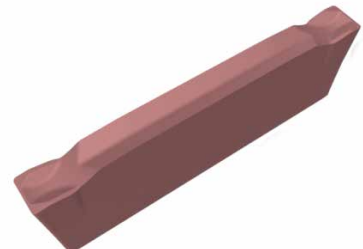
It can be used on tool holders of: ISCAR-AKKO



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

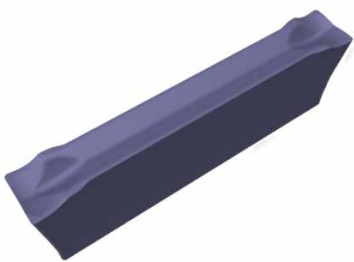
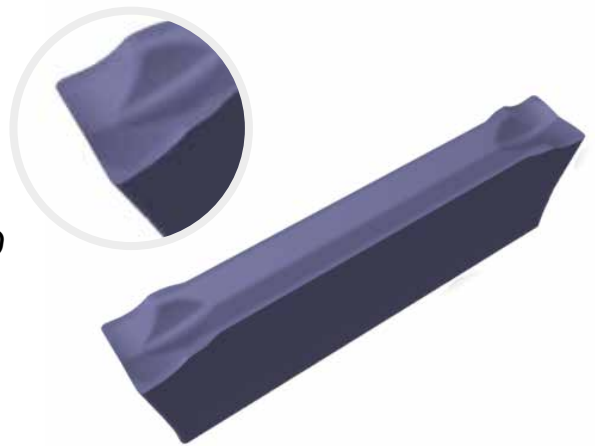
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	19,80	2,20	0,20



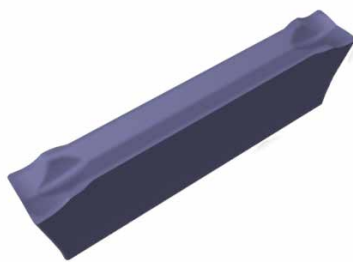
DCT 31-M

Parting insert

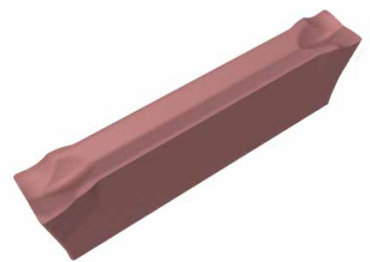
It can be used on tool holders of: ISCAR-AKKO



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

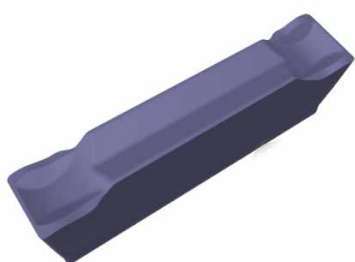
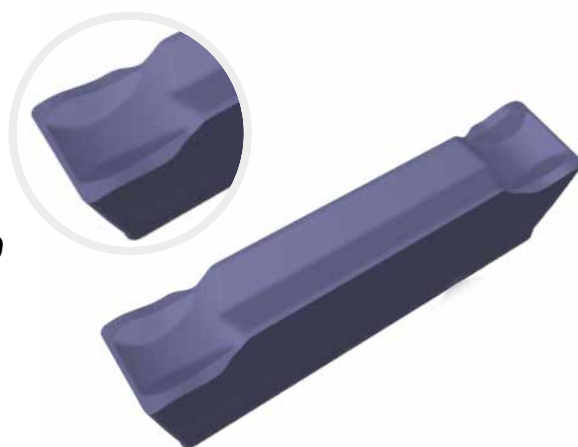
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	19,80	3,10	0,20



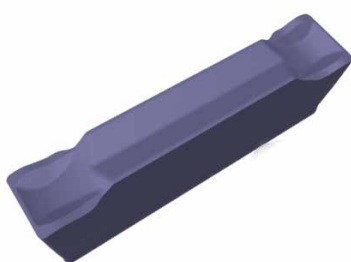
DCT 40-M

Parting insert

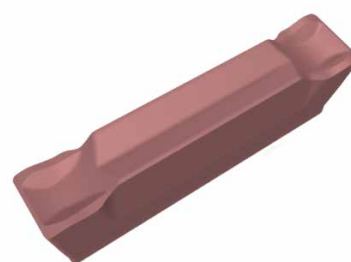
It can be used on tool holders of: ISCAR-AKKO



P
Grade: DP25P



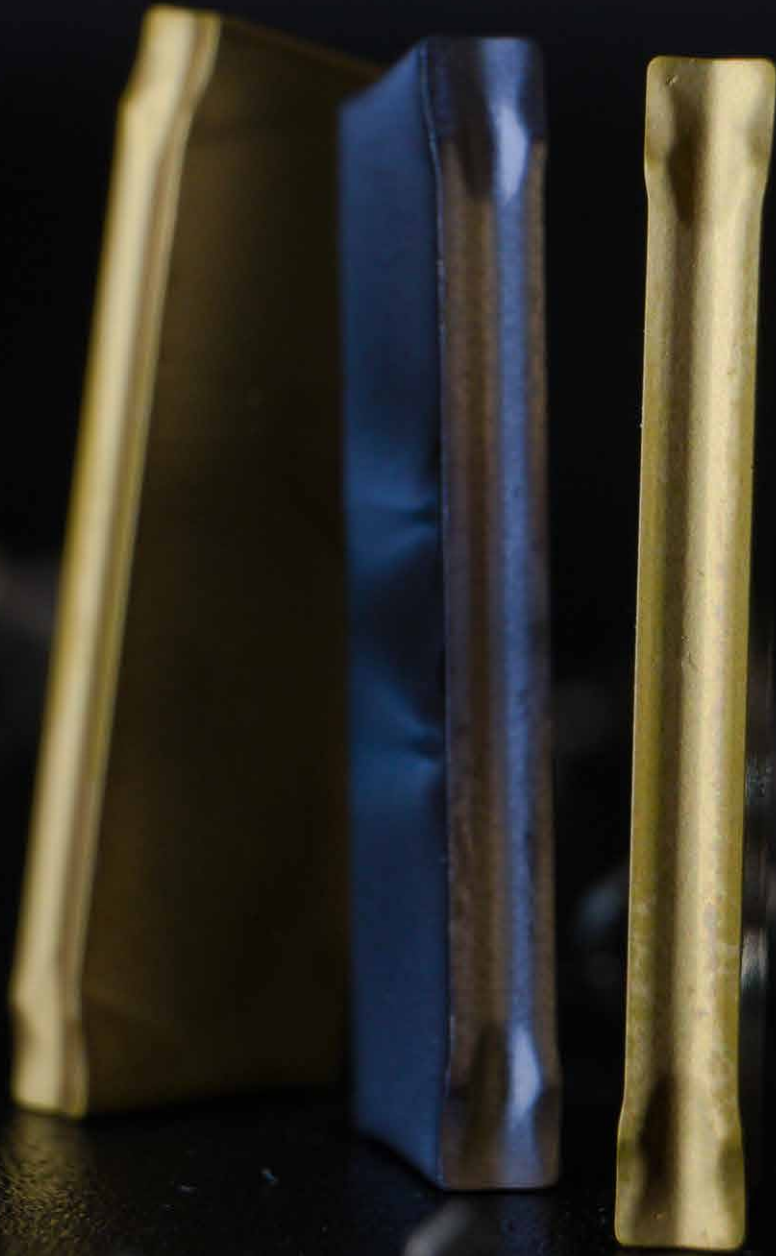
M
Grade: DM25P



H
Grade: RH25P

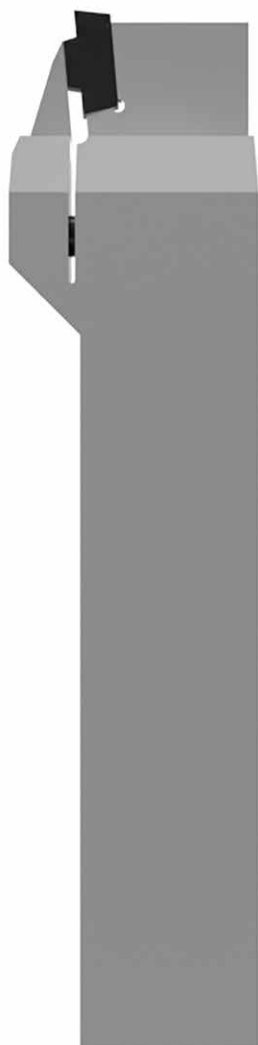
TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	19,80	4,00	0,30



CUT DCT R/L

Tool holder for inserts DC 22-31-40



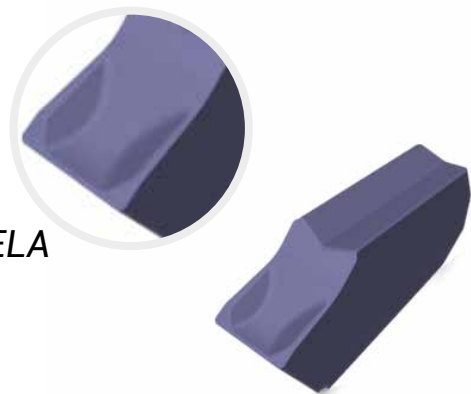
INSERT DIMENSION	DESCRIPTION
22-31-40	CUT DCTR/L 1616-K22
22-31-40	CUT DCTR/L 2020-K22
22-31-40	CUT DCTR/L 1616-K31
22-31-40	CUT DCTR/L 2020-K31
22-31-40	CUT DCTR/L 2020-L40
22-31-40	CUT DCTR/L 2525-L40



GCMX 20EN-M

Parting insert

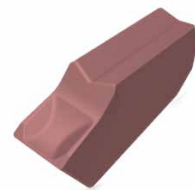
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

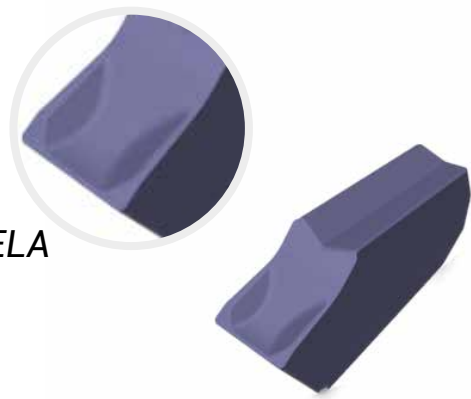
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	2,20	0,20



GCMX 24EN-M

Parting insert

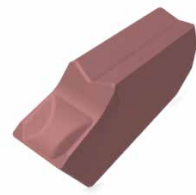
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

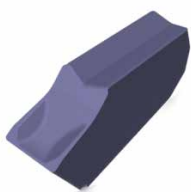
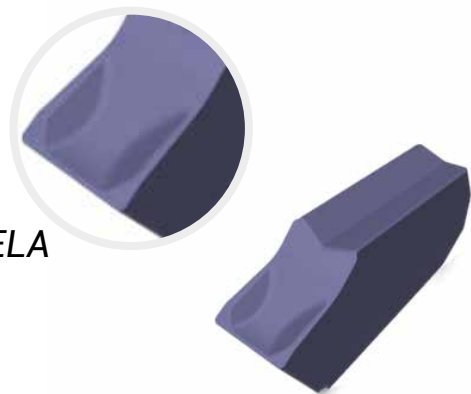
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	2,20	0,20



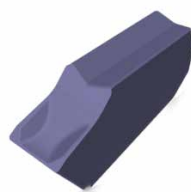
GCMX 30EN-M

Parting insert

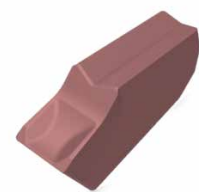
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

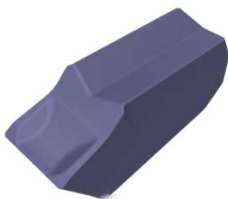
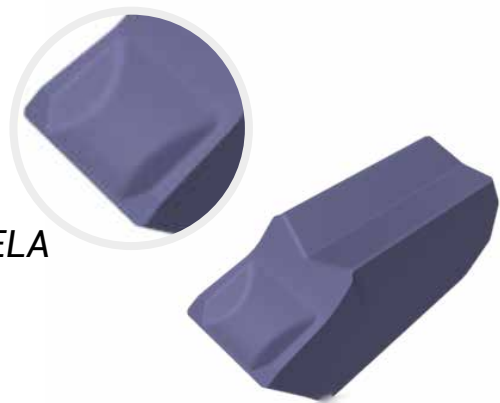
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	2,20	0,20



GCMX 40EN-M

Parting insert

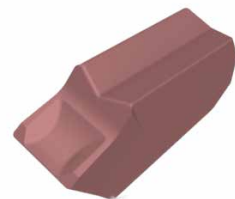
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

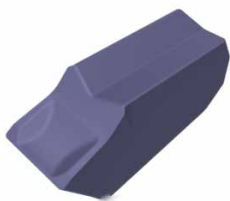
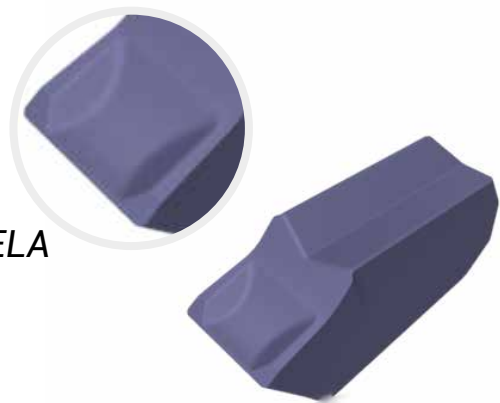
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	4,10	0,20



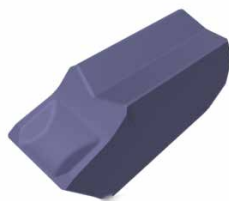
GCMX 48EN-M

Parting insert

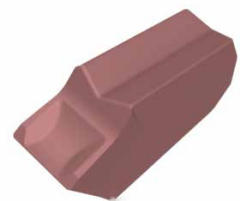
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

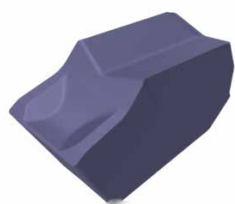
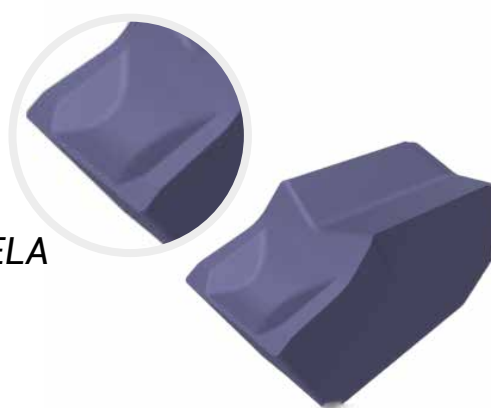
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	5,10	0,20



GCMX 50EN-M

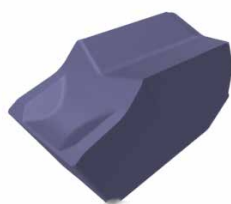
Parting insert

It can be used on tool holders of: ISCAR-CANELA



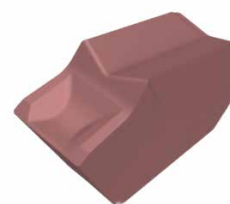
P

Grade: DP25P



M

Grade: DM25P



H

Grade: RH25P

TECHNICAL SHEET - ISO

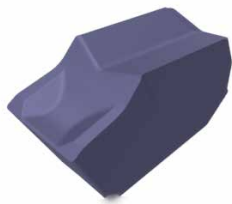
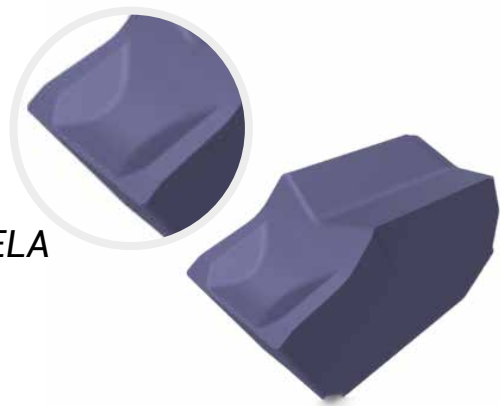
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	5,10	0,30



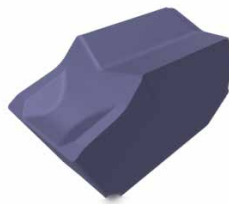
GCMX 60EN-M

Parting insert

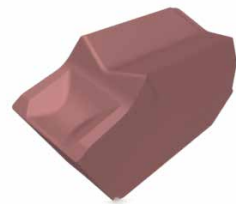
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



H
Grade: RH25P

TECHNICAL SHEET - ISO

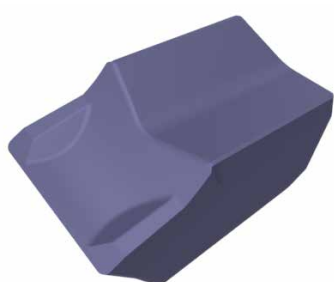
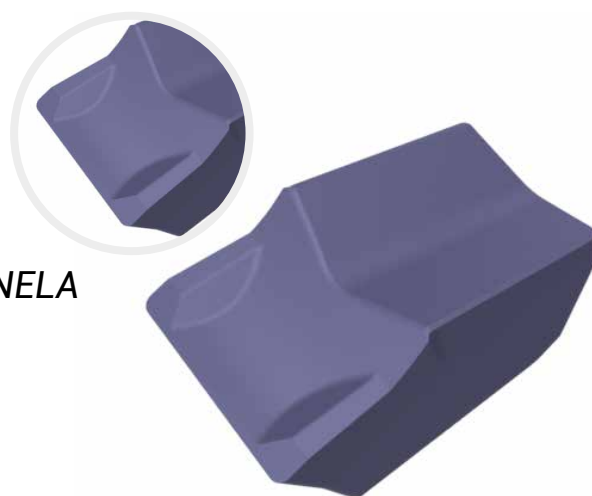
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	6,40	0,30



GCMX 80EN-M

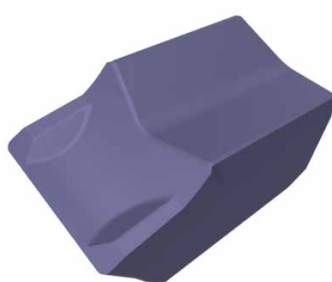
Parting insert

It can be used on tool holders of: ISCAR-CANELA



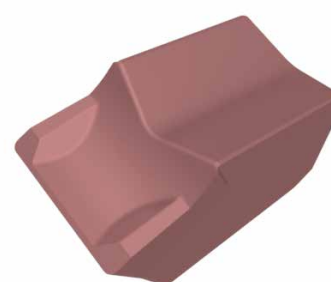
P

Grade: DP25P



M

Grade: DM25P



H

Grade: RH25P

TECHNICAL SHEET - ISO

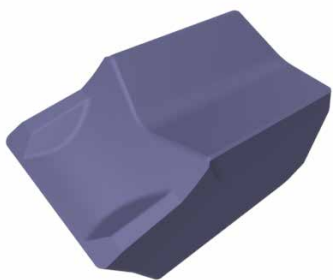
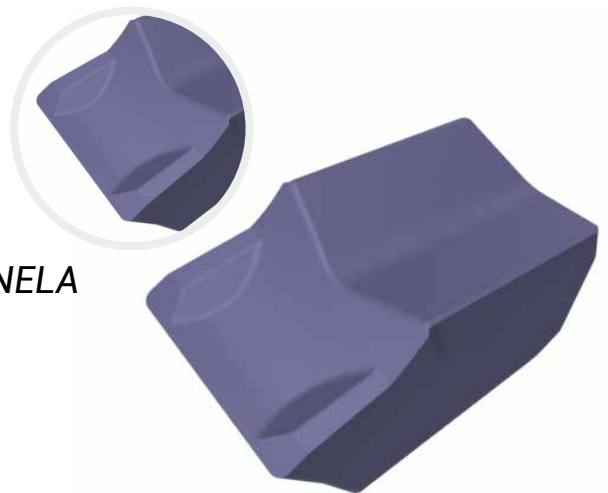
Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	8,00	0,40



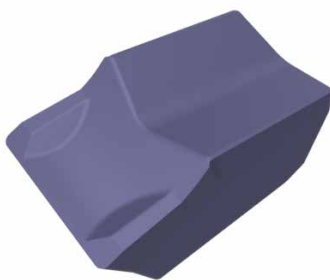
GCMX 90EN-M

Parting insert

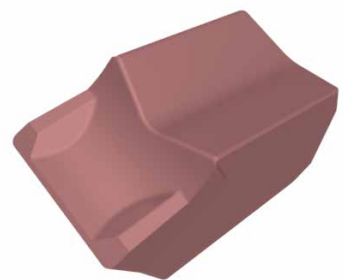
It can be used on tool holders of: ISCAR-CANELA



P
Grade: DP25P



M
Grade: DM25P



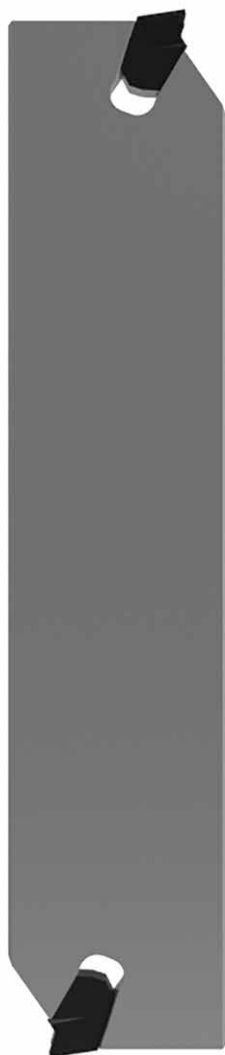
H
Grade: RH25P

TECHNICAL SHEET - ISO

Dimension	I.C (mm)	Length (mm)	Width (mm)	Radius (mm)
-	-	-	9,60	0,40

CUT GCMX

Tool holder for inserts GCMX



DESCRIPTION
CUT GCMX 20-26
CUT GCMX 30-26
CUT GCMX 40-26
CUT GCMX 20-32
CUT GCMX 30-32
CUT GCMX 40-32








NEW SCARFING PHILOSOPHY

The new range of scarfing products comes from an innovative system of collaboration between a selected group of European users, performing in various mechanical sectors, and Sharp Metal's technicians.

In fact, we have decided to test directly in the field the new solutions, with the aim of understanding the real needs of the operators and the limits of the current solutions in use and to provide concrete responses and high-quality results.

OVERVIEW OF SHARP METAL GRADES

In partnership with our PVD and CVD providers, equipped with the latest technologies, we have selected for each material to be processed, a dedicated coating solution.

HARDNESS	ISO P	ISO M	GALVANIZED STEELS
15	GP15P	GM15P	BP15P
25	GP25P	GM25P	BP25P
35	GP35P	GM35P	BP35P
Coating			
Technology	CVD	PVD	CVD

We have created dedicated grades, based on the material to be worked and therefore based on the ISO families of: Steels, Stainless steels, Cast-irons, non-ferrous materials, tempered steels and superalloys.

ISO P
Steels

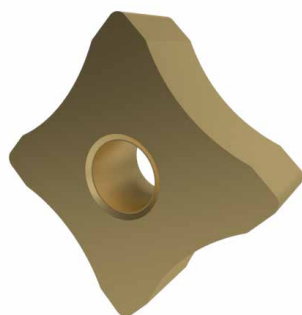
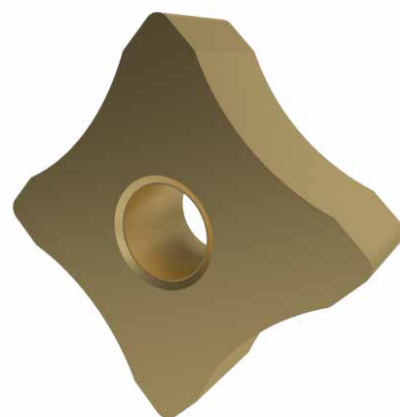
ISO M
Stainless Steels

GALVANIZED STEELS



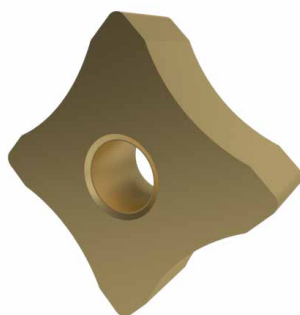
SNMX 150608-21

Scarfig insert



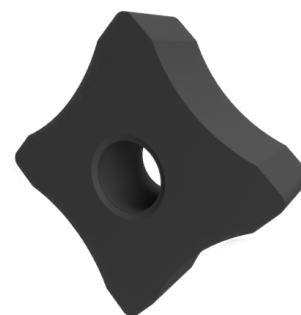
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

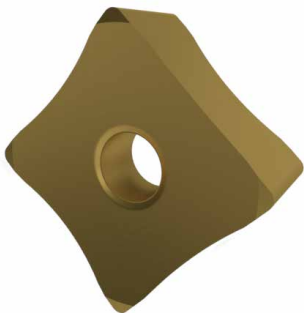
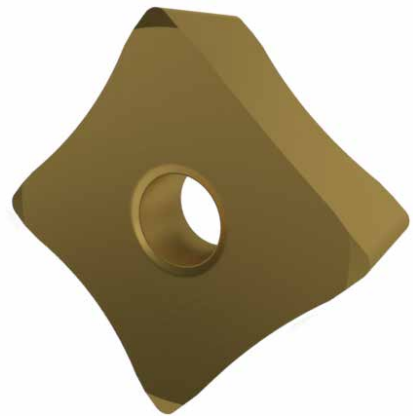
Dimension

11 - 13 - 15 - 18 - 20 - 22 - 25 - 27 - 30 - 35 -
40 - 42 - 45 - 50 - 60 - 65 - 70 - 75 - 80 - 90 - 105



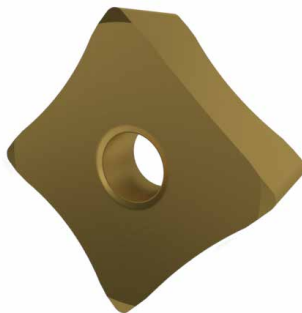
SNMX 150708-22

Scarfing insert



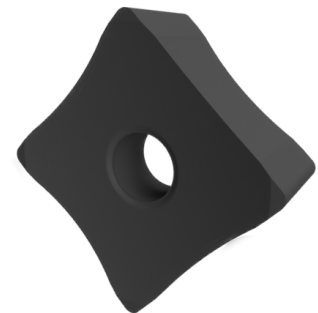
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

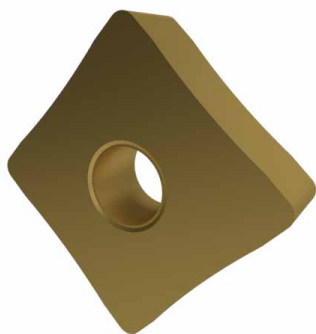
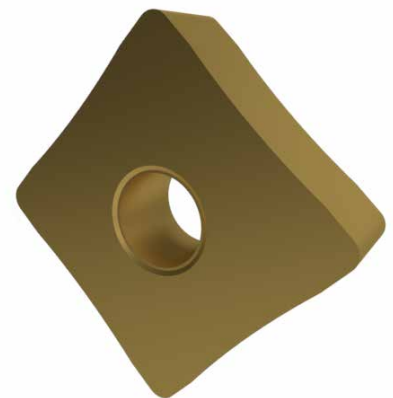
Dimension

7 - 9 - 11 - 13 - 15 - 18 - 20 - 22 - 25 - 27 - 30 - 35 -
40 - 42 - 45 - 50 - 60 - 75 - 90 - 100



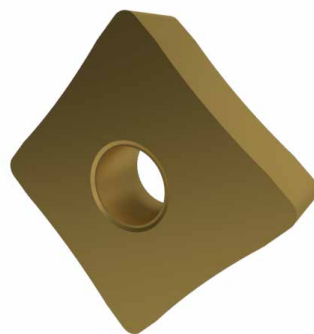
SNMX 190612-21

Scarfig insert



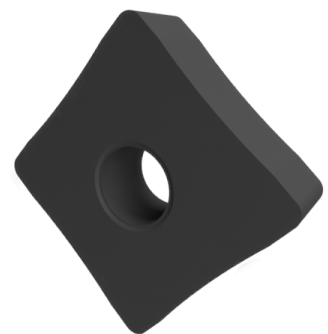
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

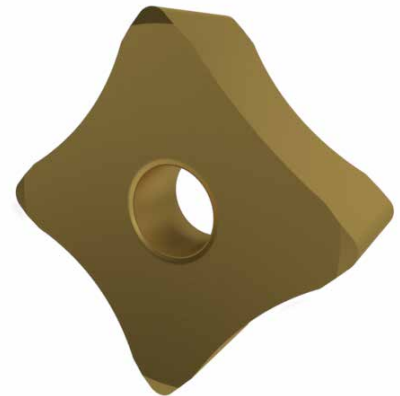
Dimension

50 - 60 - 70 - 80 - 90 - 100



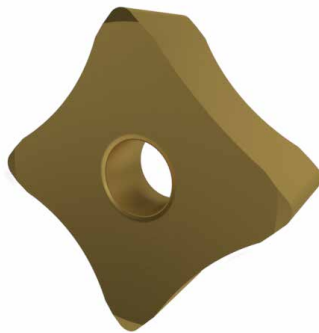
SNMX 190912-22

Scarfig insert



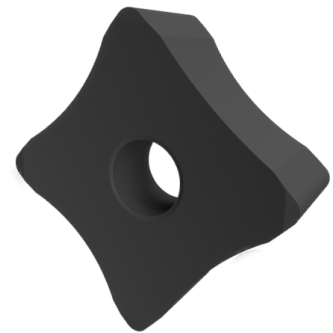
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

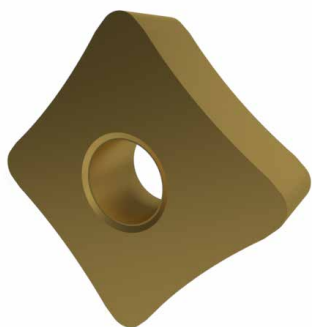
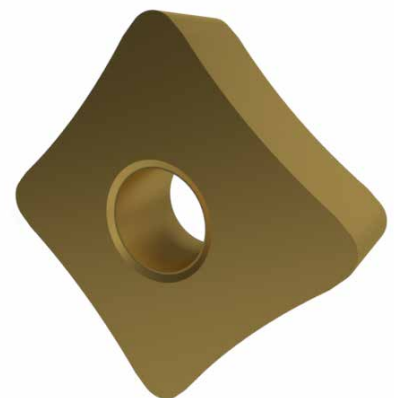
Dimension

30 - 40 - 50 - 60 - 70 - 80 - 90 - 100

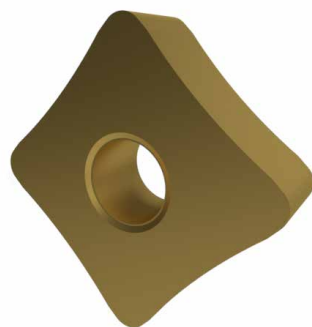


SNMX 250924-21

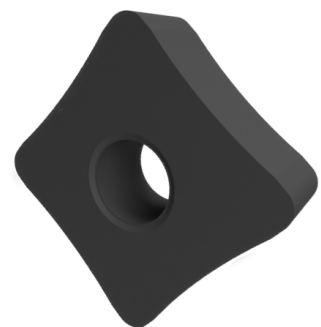
Scarfig insert



P
Grade: GP25S
Processing: Medium



M
Grade: GM25S
Processing: Medium

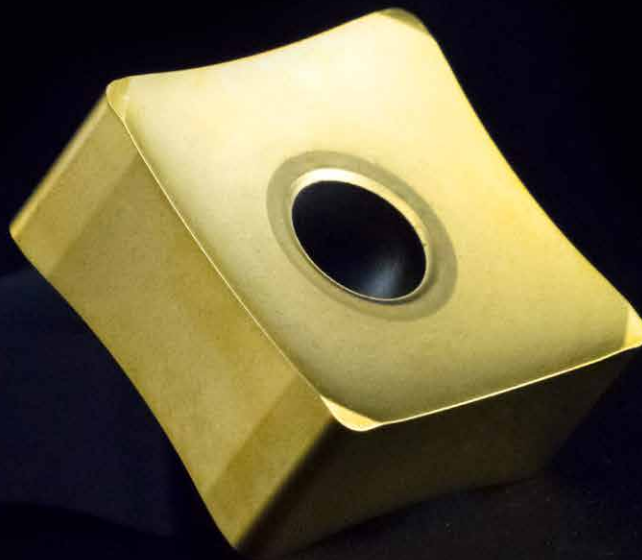


GALVANIZED STEELS
Grade: BP25S
Processing: Medium

RADII AVAILABLE

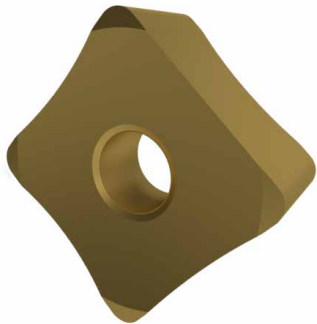
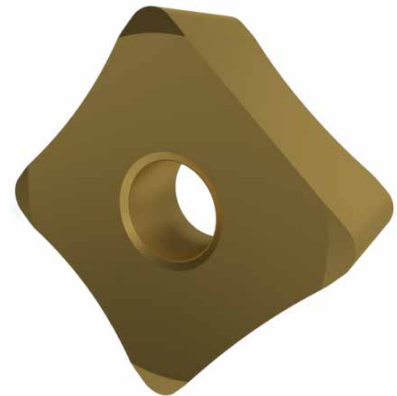
Dimension

50 - 75 - 100 - 120 - 140 - 160 - 180 - 200



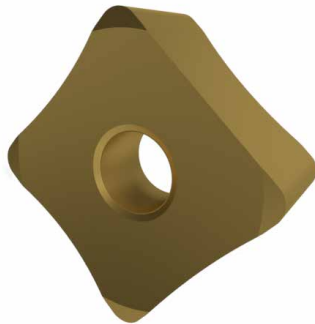
SNMX 251224-22

Scarfing insert



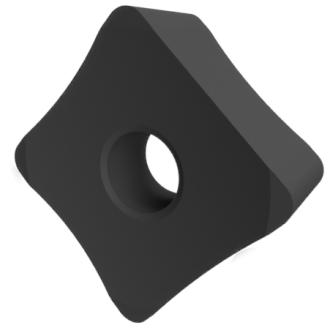
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



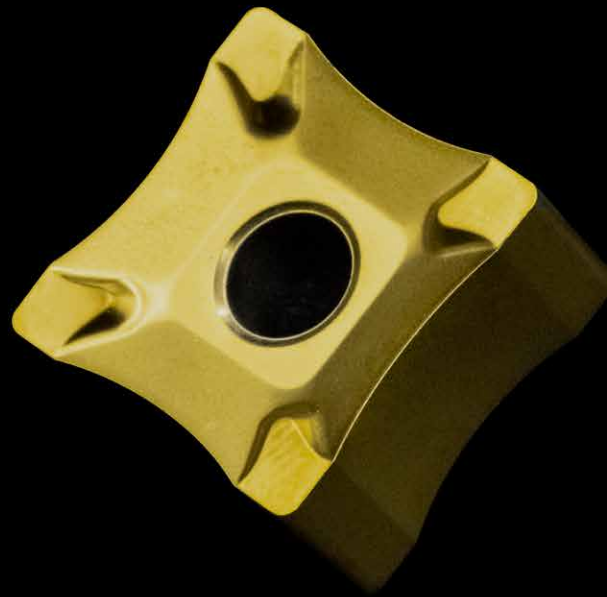
GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

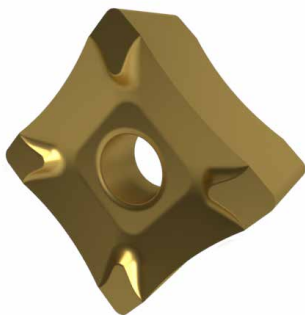
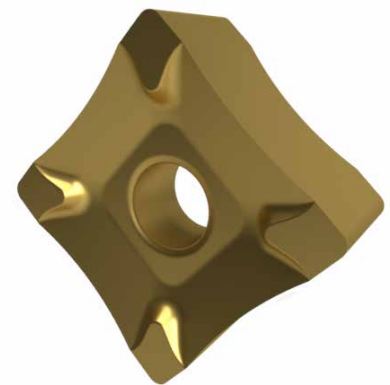
Dimension

09 - 40 - 50 - 60 - 70 - 80 - 90 - 100

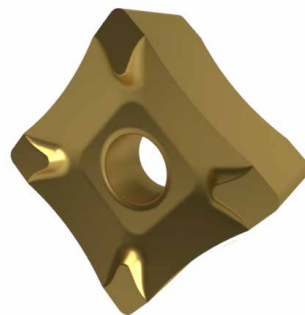


SNMG 1507-P

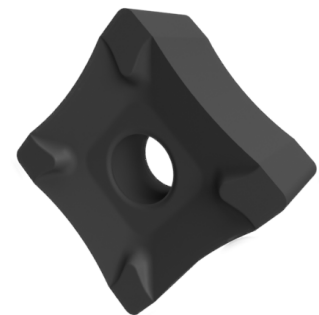
Scarfing insert



P
Grade: GP25S
Processing: Medium



M
Grade: GM25S
Processing: Medium



GALVANIZED STEELS
Grade: BP25S
Processing: Medium

RADII AVAILABLE

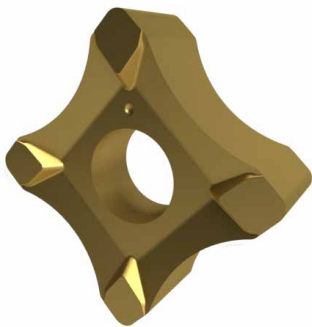
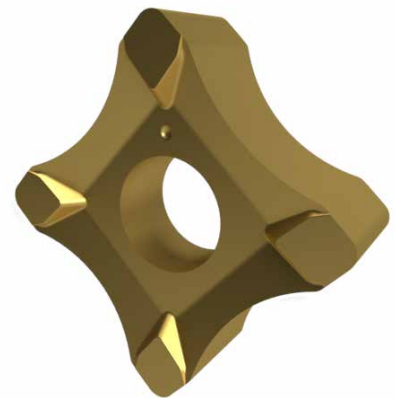
Dimension

07 - 09 - 11 - 13 - 15 - 18 - 20 - 22
25 - 27 - 30 - 35 - 40 - 45 - 50 - 60



SNMG 1908-P

Scarfing insert



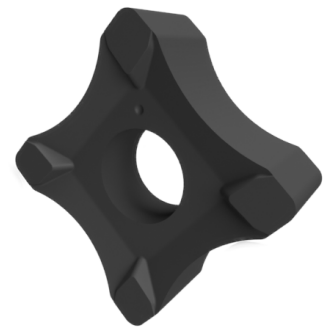
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

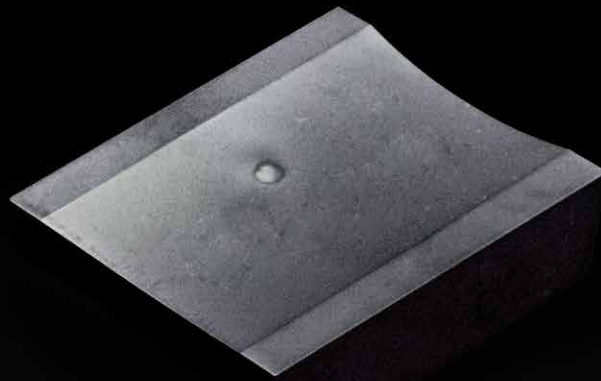
Grade: BP25S
Processing: Medium

RADII AVAILABLE

Dimension

12 - 15 - 20 - 25 - 30 - 35 - 40 - 45

50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 - 90 - 95 - 100



SGGN 2005

Scarfig insert



P
Grade: GP25S
Processing: Medium



M
Grade: GM25S
Processing: Medium

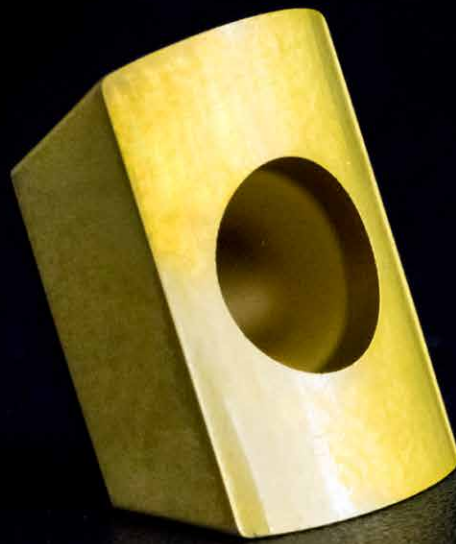


GALVANIZED STEELS
Grade: BP25S
Processing: Medium

RADII AVAILABLE

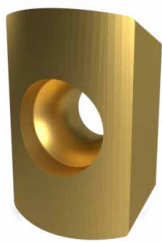
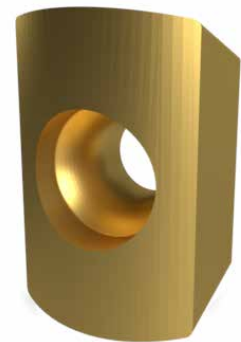
Dimension

00 - 15 - 20 - 25 - 30 - 40 - 45 - 50 - 70 - 80



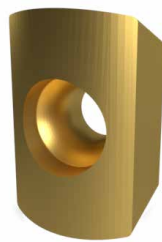
LNGX 09

Scarfing insert



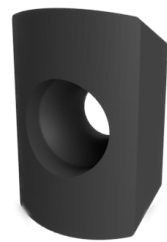
P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

Dimension

06 - 08 - 10



LNGX 17

Scarfig insert



P
Grade: GP25S
Processing: Medium



M
Grade: GM25S
Processing: Medium



GALVANIZED STEELS
Grade: BP25S
Processing: Medium

RADII AVAILABLE

Dimension

20 - 25 - 30



LNGX 25

Scarfig insert



P

Grade: GP25S
Processing: Medium



M

Grade: GM25S
Processing: Medium



GALVANIZED STEELS

Grade: BP25S
Processing: Medium

RADII AVAILABLE

Dimension

26 - 32 - 50 - 60

SPARE PARTS

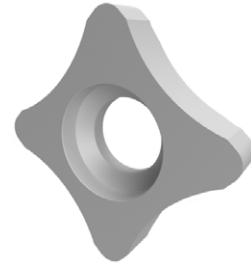
Scarfing spare parts



SSN 15-S R...



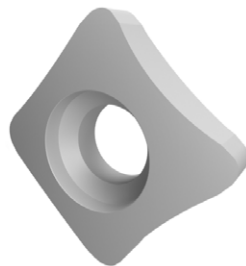
SSN 19-S R...



SSN1 25-S R...



SSN2 25-S R...



SSP1 25-S R...



SSP2 25-S R...

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Sharp Metal S.R.L
Via Verbano 12, 20098
San Giuliano Milanese (MI), Italy
+39 02/9829711
info@sharpmetal.it
www.sharpmetaltools.com



PRODUCTS CATALOGUE V1.0

