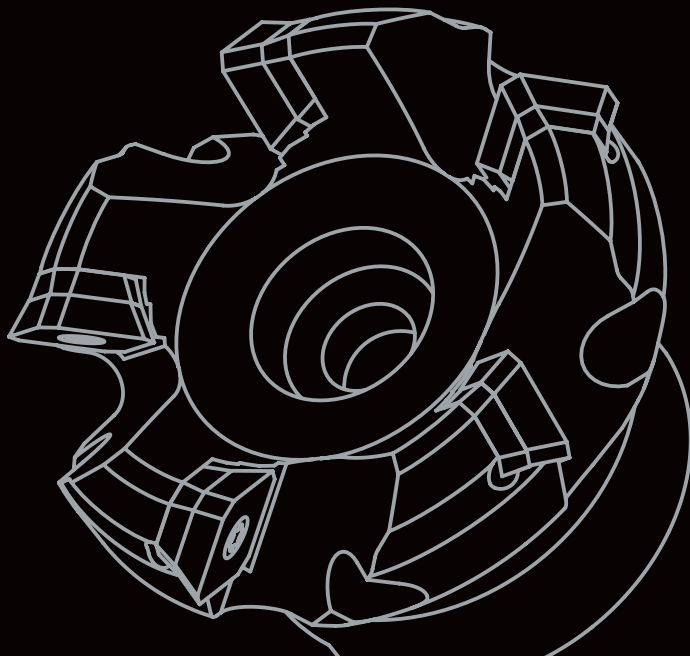


CATALOGUE 2014



PIKOTOLS





STOCK CLASSIFICATION

- , ● Standard stock items, usually available in warehouse.
- , ○ Non standard stock items, please ask for availability and minimum order quantity if applicable.
- Stock exhaustion.
- ★ Future introduction.

○, ● Not included in the previous catalogue.

STANDARD PACKAGING

- holders, PCBN, diamond 1 piece
- carbide, ceramic 10 pieces

Due to continuous evolution of cutting materials and introduction of new products, stock situation reported in the present catalogue may vary without notice.



CLASSIFICAZIONE STOCK

- , ● Materiale stock standard, normalmente disponibile a magazzino.
- , ○ Materiale NON stock standard, richiedere disponibilità ed eventuale quantitativo minimo.
- Esaurimento stock.
- ★ Articolo di futura introduzione.

○, ● Non incluso nel catalogo precedente.

CONFEZIONAMENTO STANDARD

- holders, PCBN, diamond 1 pezzo
- carbide, ceramic 10 pezzi

Grazie alla continua introduzione di nuovi prodotti ed all'evoluzione dei materiali da taglio, la situazione stock menzionata nel presente catalogo può variare senza preavviso.



KLASSIFIZIERUNG DER VERFÜGBARKEIT

- , ● Stock standard, normalerweise Verfügbar - Lagerware.
- , ○ NICHT Stock standard, KEINE Lagerware. Verfügbarkeit und Mindestmenge muss angefragt werden.
- Vorraterschöpfung.
- ★ Artikel, der in Zukunft eingeführt wird.

○, ● Nicht im vorherigen Katalog vorhanden.

STANDARD VERPACKUNGSEINHEIT

- holders, PCBN, diamond 1 Stk
- carbide, ceramic 10 Stk

Wegen der ständigen Entwicklung neuer Produkte und Schneidstoffe, kann die angegebene Verfügbarkeit der Produkte in jedem Moment ohne Voranmeldung geändert werden.



CLASSIFICATION STOCK

- , ● Matériel stock standard, normalement disponible en stock.
- , ○ Matériel stock non standard, demander disponibilité au magasin et éventuellement quantitatif minimum.
- Épuisement du stock.
- ★ Article prochainement introduit.

○, ● Pas présent dans l'ancien catalogue.

CONDITIONEMENT STANDARD

- holders, PCBN, diamond 1 pièce
- carbide, ceramic 10 pièce

Grace à l'introduction continue de nouveaux produits et à l'évolution des outils de coupe, la situation des stocks mentionnés dans ce catalogue peut être modifiée sans préavis.



CLASIFICACIÓN DE STOCK

- , ● Artículos stock standard, usualmente disponibles en almacén.
- , ○ Artículos NON stock standard, ponerse en contacto con nosotros para verificar disponibilidad y eventual cantidad mínima.
- Agotamiento de stock.
- ★ Artículo disponible en futuro.

○, ● Artículo non disponible anteriormente.

CAJA STANDARD

- holders, PCBN, diamond 1 unidad
- carbide, ceramic 10 unidad

En consecuencia de la continua introducción de nuevos productos y de la evolución de los materiales de corte, la clasificación de stock indicada en el presente catálogo puede cambiar sin previo aviso.



КЛАССИФИКАЦИЯ НАЛИЧИЯ НА СКЛАДЕ

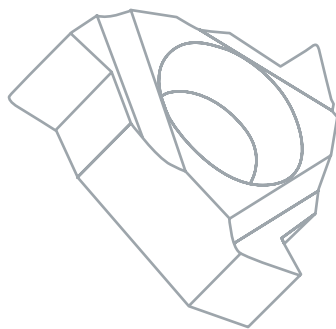
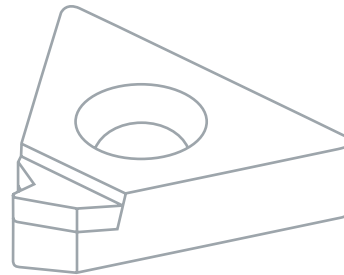
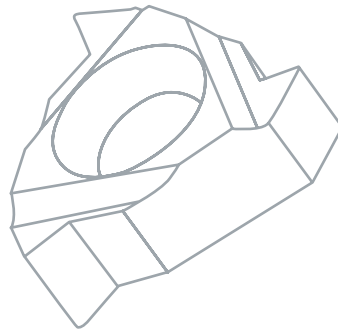
- , ● Стандартный склад, обычно в наличии на складе.
- , ○ Нестандартный склад, наличие на складе не гарантируется.
- складские остатки.
- ★ Продукция на фазе внедрения

○, ● Отсутствует в предыдущем каталоге.

СТАНДАРТНАЯ УПАКОВКА

- holders, PCBN, diamond 1 ШТУКА
- carbide, ceramic 10 ШТУК

Благодаря постоянному внедрению новой продукции и разработке новых материалов, продукция упомянутая в данном каталоге, а также наличие на её складе, может изменяться без предварительного уведомления.

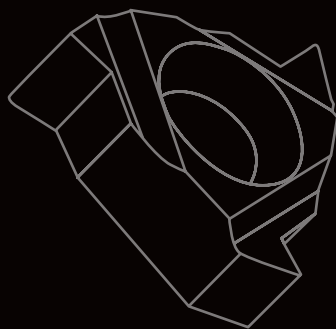
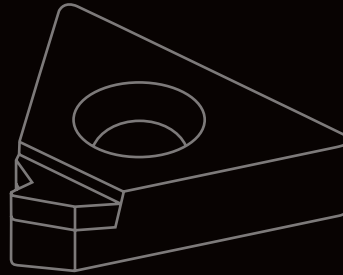


THREADING /

carbide /229
PCBN /235
diamond /241
holders /247



THREADING / carbide



GRADES

- TURNING
- MICROMEGA
- MICROBORING
- THREADING
- GROOVING
- MILLING
- DRILLING
- SPARE PARTS
- INDEX

	ISO DIN 513														
	K					P					M				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40
CARBIDE CVD															
CARBIDE PVD															
CARBIDE UNCOATED															
CERMET UNCOATED															

JP5015

JP5025

JP5015

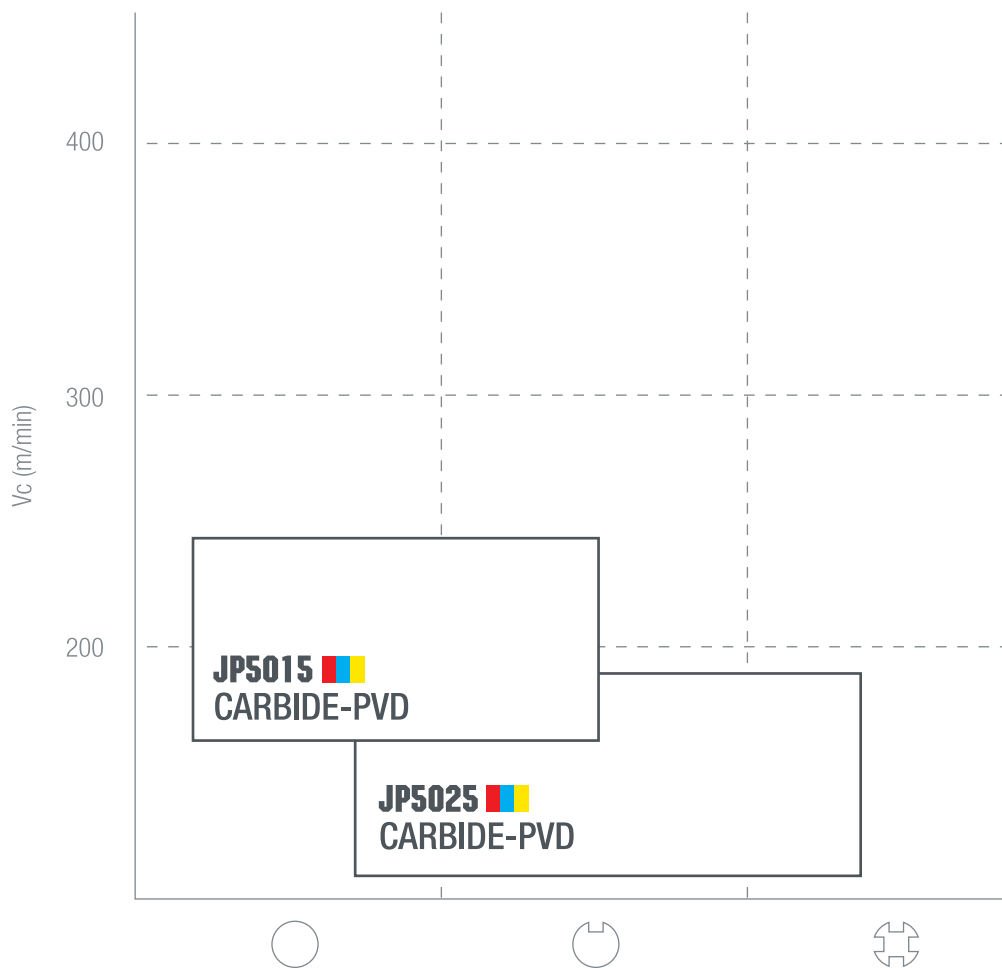
JP5025

JP5015

JP5025

RANGE ISO **K** **P** **M**

GRADES

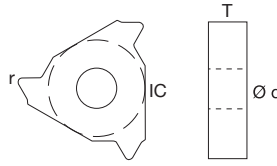
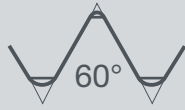


- TURNING
- MICRONEGA
- MICROBORING
- THREADING**
- GROOVING
- MILLING
- DRILLING
- SPARE PARTS
- INDEX

16ER

NEW


EXTERNAL METRIC




	DESCRIPTION	DIMENSIONS						CARBIDE-PVD							
			r	IC	T	Ød	JP5015	JP5025							
 TPM	16ER 100ISO-TPM 125ISO-TPM 150ISO-TPM 175ISO-TPM 200ISO-TPM 250ISO-TPM 300ISO-TPM	1.00	0.12	9.525	3.6	3.95	★	★							
		1.25	0.15	9.525	3.6	3.95	★	★							
		1.50	0.19	9.525	3.6	3.95	★	★							
		1.75	0.22	9.525	3.6	3.95	★	★							
		2.00	0.25	9.525	3.6	3.95	★	★							
		2.50	0.33	9.525	3.6	3.95	★	★							
		3.00	0.41	9.525	3.6	3.95	★	★							

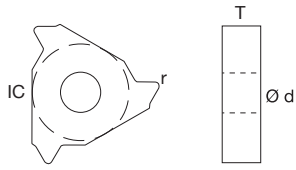
16IR


INTERNAL METRIC



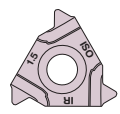


60°



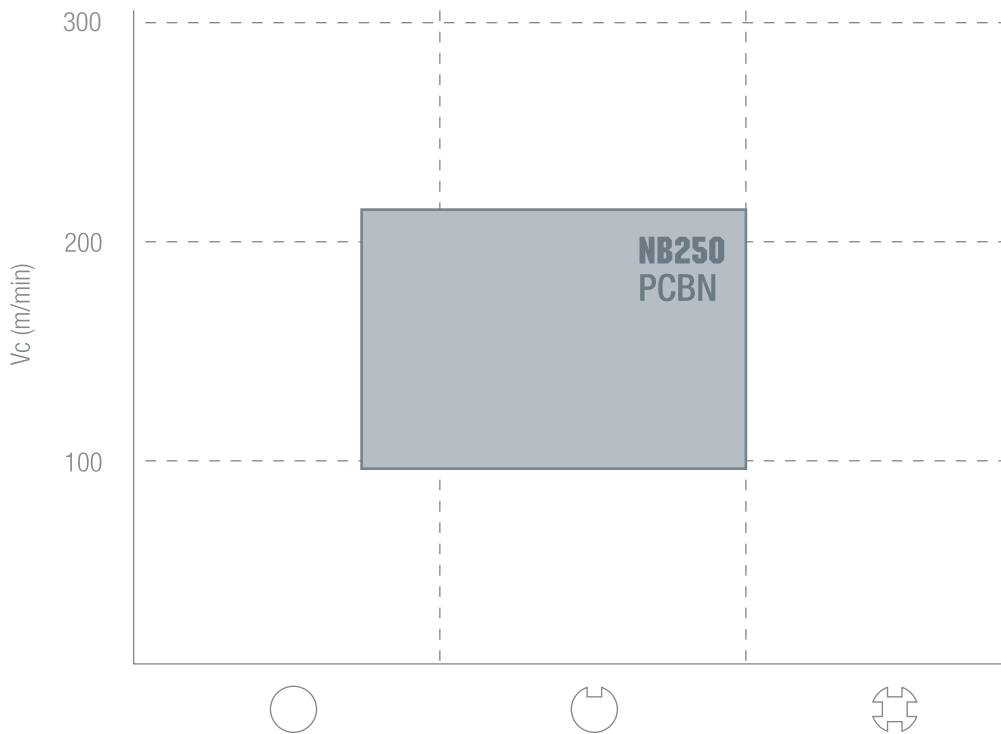




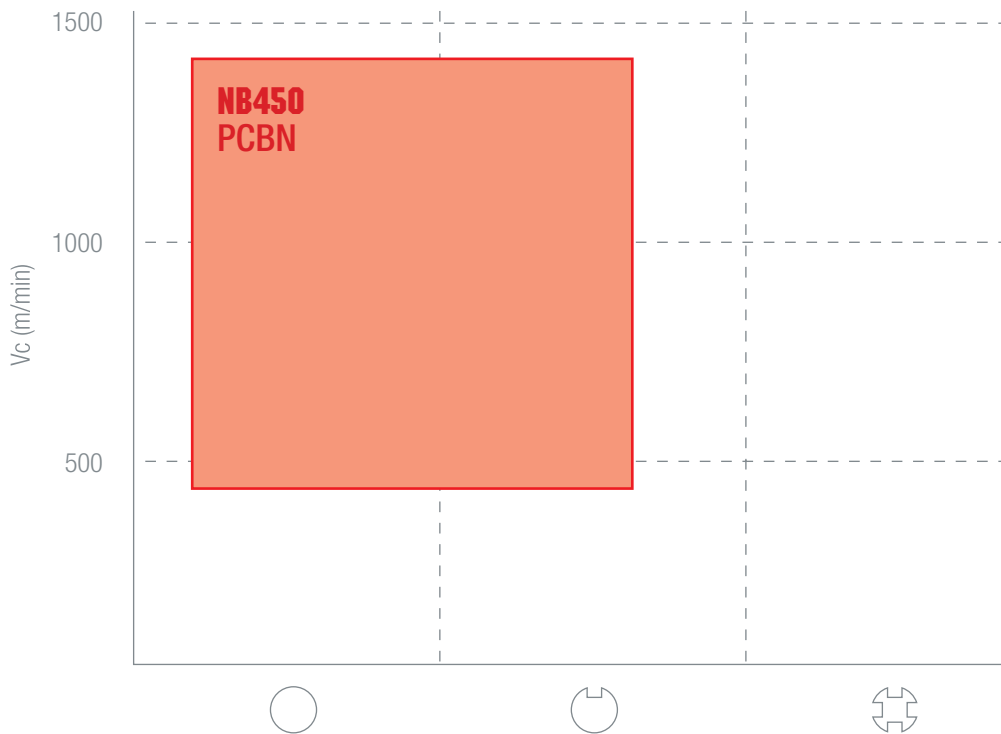
DESCRIPTION			DIMENSIONS					CARBIDE-PVD																		
				r	IC	T	Ød	JP5015	JP5025																	
 	16IR	100ISO-TPM	1.00	0.07	9.525	3.6	3.95	★	★																	
		125ISO-TPM	1.25	0.08	9.525	3.6	3.95	★	★																	
		150ISO-TPM	1.50	0.11	9.525	3.6	3.95	★	★																	
		175ISO-TPM	1.75	0.12	9.525	3.6	3.95	★	★																	
		200ISO-TPM	2.00	0.14	9.525	3.6	3.95	★	★																	
		250ISO-TPM	2.50	0.17	9.525	3.6	3.95	★	★																	
		300ISO-TPM	3.00	0.19	9.525	3.6	3.95	★	★																	

- TURNING
- MICROMEGA
- MICROBORING
- THREADING
- GROOVING
- MILLING
- DRILLING
- SPARE PARTS
- INDEX

RANGE ISO H PCBN-Carbide reinforced



RANGE ISO K PCBN-Carbide reinforced

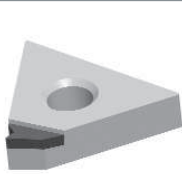
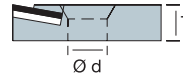
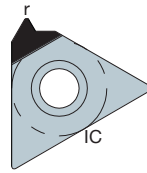
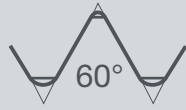


Vc · ap ▶ 240

- TURNING
- MICRONEGA
- MICROBORING
- THREADING**
- GROOVING
- MILLING
- DRILLING
- SPARE PARTS
- INDEX

16ER

EXTERNAL METRIC



16ER

100ISO

125ISO

150ISO

175ISO

200ISO

250ISO

300ISO

NB250U = uncoated
NB450U = uncoated

DIMENSIONS



r

IC

T

Ød

PCBN

NB250U NB450U

DESCRIPTION	DIMENSIONS						PCBN													
		r	IC	T	Ød	NB250U	NB450U													
	100ISO	1.00	0.12	9.525	3.6	3.95	●	●												
	125ISO	1.25	0.15	9.525	3.6	3.95	○	○												
	150ISO	1.50	0.19	9.525	3.6	3.95	●	●												
	175ISO	1.75	0.22	9.525	3.6	3.95	○	○												
	200ISO	2.00	0.25	9.525	3.6	3.95	●	●												
	250ISO	2.50	0.33	9.525	3.6	3.95	○	○												
	300ISO	3.00	0.41	9.525	3.6	3.95	○	○												

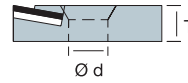
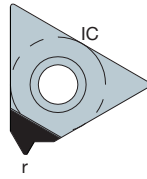
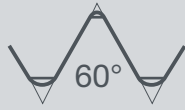
Vc · ap



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16IR

INTERNAL METRIC



DESCRIPTION		DIMENSIONS					PCBN								
			r	IC	T	Ød	NB250U	NB450U							
	16IR	100ISO	1.00	0.07	9.525	3.6	3.95	○	○						
		125ISO	1.25	0.08	9.525	3.6	3.95	○	○						
		150ISO	1.50	0.11	9.525	3.6	3.95	○	○						
		175ISO	1.75	0.12	9.525	3.6	3.95	○	○						
		200ISO	2.00	0.14	9.525	3.6	3.95	○	○						
		250ISO	2.50	0.17	9.525	3.6	3.95	○	○						
		300ISO	3.00	0.19	9.525	3.6	3.95	○	○						
		NB250U = uncoated NB450U = uncoated													

Vc · ap



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- TURNING
- MICROMEGA
- MICROBORING
- THREADING
- GROOVING
- MILLING
- DRILLING
- SPARE PARTS
- INDEX

CUTTING PARAMETERS

H	HH	HARDENED STEEL
		ACCIAIO TEMPRATO
		GEHÄRTETER STAHL
		ACIER TREMPÉ
		ACERO TEMPLADO
		ЗАКАЛЁННАЯ СТАЛЬ
H	HC	CASEHARDENED STEEL
		ACCIAIO CEMENTATO
		EINGESETZTER STAHL
		ACIER CEMENTÉ
		ACERO CEMENTADO
		ЦЕМЕНТИРОВАННАЯ СТАЛЬ

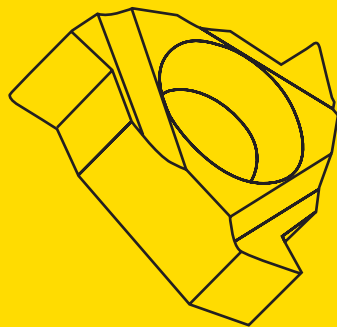
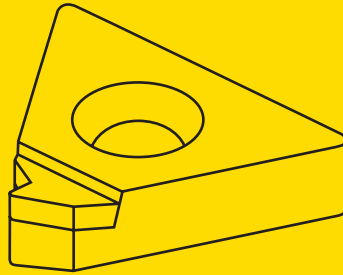
H	HB	BEARING STEEL
		ACCIAIO PER CUSCINETTI
		STAHL FÜR LAGER
		ACIER POUR ROULEMENTS
		ACERO PARA RODAMIENTOS
		СТАЛЬ ДЛЯ ПОДШИПНИКОВ
H	HM	HARD METAL (Co≥17%)
		METALLO DURO (Co≥17%)
		VHM (Co≥17%)
		CARBURE (Co≥17%)
		METAL DURO (Co≥17%)
		ТВЁРДЫЙ СПЛАВ (Co≥17%)

MATERIAL	ap (mm)	CUTTING CONDITIONS	PCBN	
			NB250U	NB450U
H	HH		★ 100~180	
			80~150	★ 80~140
	HC		★ 100~150	
			80~130	★ 80~120
	HB		★ 100~150	
			80~130	★ 80~120
HM			★ 10~40	

★ = 1st choice / 1^a scelta / 1.Wahl / 1^{er} choix / 1^{ra} elección / 1-й выбор



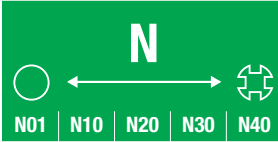
THREADING / diamond



GRADES

- TURNING
- MICROMEGA
- MICROBORING
- THREADING**
- GROOVING
- MILLING
- DRILLING
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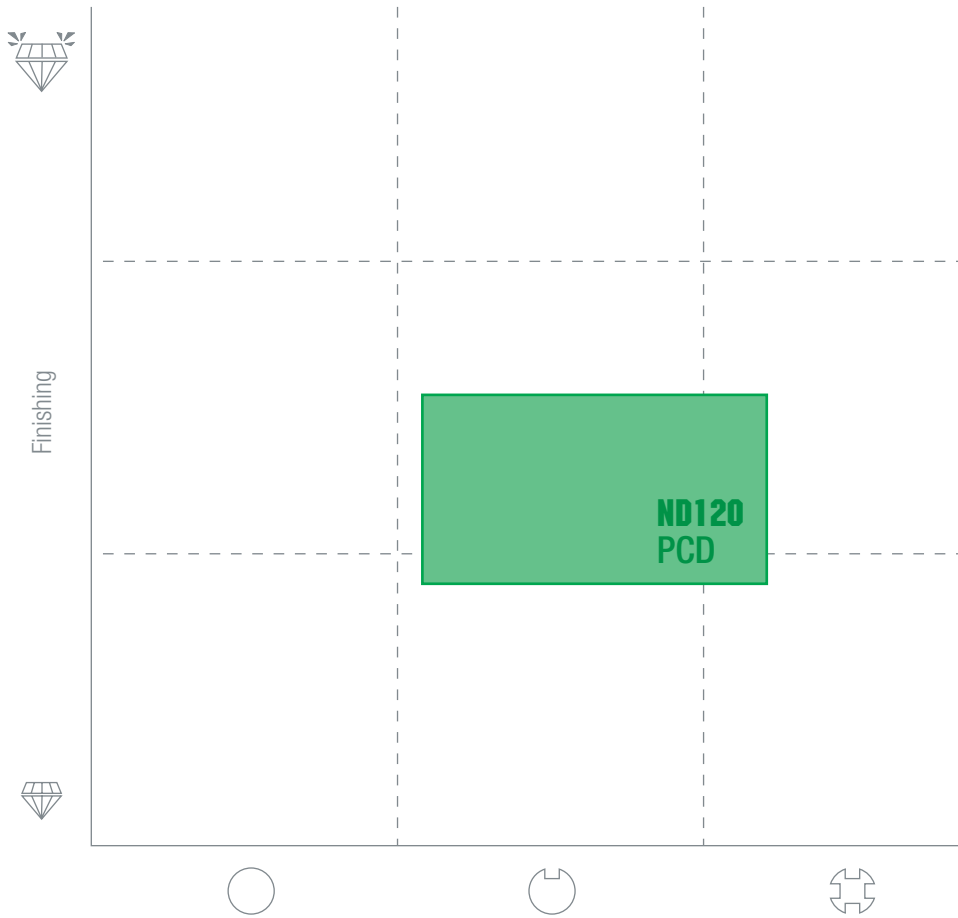
ISO
DIN 513



	N01	N10	N20	N30	N40																	
PCD																						
CVD																						
MONO																						

ND120

RANGE ISO **N** DIAMOND

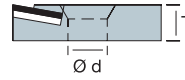
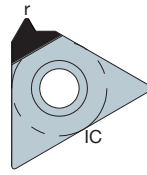


TURNING
MICROMEGA
MICROBORING
THREADING
GROOVING
MILLING
DRILLING
SPARE PARTS
INDEX

Vc · ap ▶ 246

16ER

EXTERNAL METRIC



DESCRIPTION	DIMENSIONS						PCD													
		r	IC	T	Ød	ND120														
	16ER																			
	100ISO	1.00	0.12	9.525	3.6	3.95	●													
	125ISO	1.25	0.15	9.525	3.6	3.95	●													
	150ISO	1.50	0.19	9.525	3.6	3.95	●													
	175ISO	1.75	0.22	9.525	3.6	3.95	○													
	200ISO	2.00	0.25	9.525	3.6	3.95	●													
	250ISO	2.50	0.33	9.525	3.6	3.95	○													
300ISO	3.00	0.41	9.525	3.6	3.95	○														

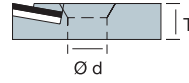
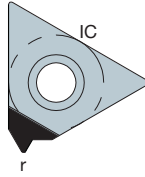
Vc · ap



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16IR

INTERNAL METRIC



DESCRIPTION		DIMENSIONS						PCD												
			r	IC	T	Ød	ND120													
	16IR	100ISO	1.00	0.07	9.525	3.6	3.95	○												
		125ISO	1.25	0.08	9.525	3.6	3.95	○												
		150ISO	1.50	0.11	9.525	3.6	3.95	○												
		175ISO	1.75	0.12	9.525	3.6	3.95	○												
		200ISO	2.00	0.14	9.525	3.6	3.95	○												
		250ISO	2.50	0.17	9.525	3.6	3.95	○												
		300ISO	3.00	0.19	9.525	3.6	3.95	○												

- TURNING
- MICROMEGA
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CUTTING PARAMETERS

TURNING

MICROMEGA

MICROBORING

THREADING

GROOVING

MILLING

DRILLING

SPARE PARTS

INDEX







N	NA	<ul style="list-style-type: none"> ALUMINUM ALLOYS LEGHE DI ALLUMINIO ALUMINIUMLEGIERUNGEN ALLIAGES D'ALUMINIUM ALEACIONES DE ALUMINIO СПЛАВЫ АЛЮМИНИЯ
	NS	<ul style="list-style-type: none"> ALUMINUM ALLOYS (Si >15%) LEGHE DI ALLUMINIO (Si >15%) ALUMINIUMLEGIERUNGEN (Si >15%) ALLIAGES D'ALUMINIUM (Si >15%) ALEACIONES DE ALUMINIO (Si >15%) СПЛАВЫ АЛЮМИНИЯ (Si >15%)
	NH	<ul style="list-style-type: none"> ALUMINUM ALLOYS AGED AND HARDENED LEGHE DI ALLUMINIO TRATTATE ED INVECCHiate GEALTERTE UND BEHANDELTE ALUMINIUMLEGIERUNGEN ALLIAGES D'ALUMINIUM TRAITÉES ET VIEILLIES ALEACIONES DE ALUMINIO TRATADAS Y ENVEJACIDAS СПЛАВЫ АЛЮМИНИЯ ОБРАБОТАННЫЕ И СОСТАРЕННЫЕ
	NB	<ul style="list-style-type: none"> BRASS OTTONE MESSING LAITON LATÓN ЛАТУНЬ

N	NC	<ul style="list-style-type: none"> BRONZE AND ELECTOLYTIC COPPER BRONZO E RAME ELETTROLITICO ELEKTROLYTISCHES KUPFER UND BRONZE BRONZE ET CUIVRE ÉLECTROLYTIQUE BRONZE Y COBRE ELECTROLÍTICO БРОНЗА И ЭЛЕКТРОЛИТИЧЕСКАЯ МЕДЬ
	NG	<ul style="list-style-type: none"> GRAPHITE GRAFITE GRAPHIT GRAPHITE GRAFITO ГРАФИТ
H	HM	<ul style="list-style-type: none"> HARD METAL (Co≤16%) METALLO DURO (Co≤16%) VHM (Co≤16%) CARBURE (Co≤16%) METAL DURO (Co≤16%) ТВЕРДЫЙ СПЛАВ (Co≤16%)
	ST	<ul style="list-style-type: none"> TITANIUM ALLOYS LEGHE DI TITANIO TITAN LEGIERUNGEN ALLIAGES DE TITANE ALEACIONES DE TITANIO СПЛАВЫ ТИТАНА







MATERIAL	ap (mm)	CUTTING CONDITIONS	PCD	
			ND120	
N	NA	○ ☒	○	600~2500
	NS	○ ☒	○	500~1800
	NH	○ ☒	○	400~1000
	NB	○ ☒	○	400~1200
	NC	○ ☒	○	300~800
	NG	○ ☒	○	300~800
H	HM	○	○	10~40
S	ST	○ ☒	○	100~200

CAPTION LEGENDA / LEGENDE / LÉGENDE / CLAVE / УСЛОВНЫЕ ОБОЗНАЧЕНИЯ







EXTERNAL

-  EXTERNAL HOLDERS
-  UTENSILI PER LAVORAZIONE ESTERNA
-  WERKZEUG FÜR AUSSENBEARBEITUNGEN
-  OUTILS POUR USINAGE EXTÉRIEUR
-  HERRAMIENTAS PARA MECANIZADO EXTERIOR
-  ИНСТРУМЕНТ ДЛЯ ВНЕШНЕЙ ОБРАБОТКИ









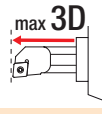
-  SCREW CLAMPING
-  BLOCCAGGIO A VITE
-  SCHRAUBSPANNUNG
-  FIXATION PAR VIS
-  AMARRE POR TORNILLO
-  КРЕПЛЕНИЕ ВИНТОМ

INTERNAL

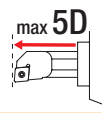
-  INTERNAL HOLDERS
-  UTENSILI PER LAVORAZIONE INTERNA
-  WERKZEUG FÜR INNENBEARBEITUNGEN
-  OUTILS POUR USINAGE INTÉRIEUR
-  HERRAMIENTAS PARA MECANIZADO INTERIOR
-  ИНСТРУМЕНТ ДЛЯ ВНУТРЕННЕЙ ОБРАБОТКИ



-  SCREW CLAMPING
-  BLOCCAGGIO A VITE
-  SCHRAUBSPANNUNG
-  FIXATION PAR VIS
-  AMARRE POR TORNILLO
-  КРЕПЛЕНИЕ ВИНТОМ









-  OVERHANG
-  SPORGENZA
-  UEBERSTAND
-  PORTE-À-FEUX
-  VOLADIZO
-  ВЫСТУП









-  OVERHANG
-  SPORGENZA
-  UEBERSTAND
-  PORTE-À-FEUX
-  VOLADIZO
-  ВЫСТУП



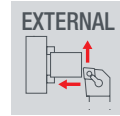
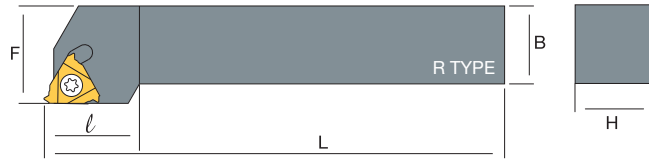
-  INSIDE COOLANT TOOL
-  UTENSILE CON REFRIGERAZIONE INTERNA
-  WERKZEUG MIT IK
-  OUTIL AVEC TROUS D'HUILE
-  HERRAMIENTA CON SUMINISTRO INTERNO DE REFRIGERANTE
-  ИНСТРУМЕНТ С ВНУТРЕННИМ ОХЛАЖДЕНИЕМ



-  SPECIAL HEAD DESIGN TO IMPROVE CHIP EJECTION
-  SPECIALE GEOMETRIA DELLA TESTA PER MIGLIORARE L'EVACUAZIONE TRUCIOLO
-  SPEZIALGEOMETRIE DES KOPFES UM DIE SPANABFUHR ZU VERBESSERN
-  GEOMÉTRIE PARTICULIÈRE DE LA TÊTE POUR AMÉLIORER L'ÉVACUATION DES COPEAUX
-  GEOMETRIA ESPECIAL DE LA CABEZA PARA FAVORECER LA EXPULSIÓN DE VIRUTA
-  СПЕЦИАЛЬНАЯ ФОРМА ГОЛОВКИ ДЛЯ БОЛЕЕ ЭФФЕКТИВНОГО УДАЛЕНИЯ СТРУЖКИ

SER / SEL

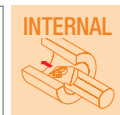
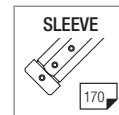
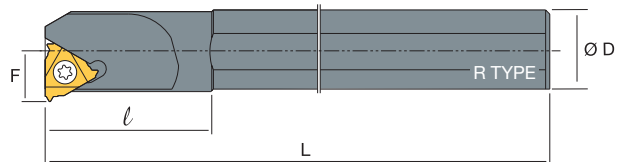
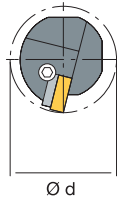
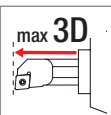
16E



	DESCRIPTION	STOCK		DIMENSIONS					R					
		R	L	H	B	L	F	l	←	←	←	←		
16ER	NT-SER	1212H 16	■		12	12	100	16	20	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		1212H 16N	●		12	12	100	12	20	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		1616H 16	●		16	16	100	20	22	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		2020K 16	●		20	20	125	25	32	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		2525M 16	●		25	25	150	32	25	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
16EL	NT-SEL	1212H 16N		○	12	12	100	12	20	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		1616H 16		○	16	16	100	20	22	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		2020K 16		●	20	20	125	25	32	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		2525M 16		●	25	25	150	32	25	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15

SIR / SIL

11I 16I



	DESCRIPTION	STOCK		DIMENSIONS					R					
		R	L	ØD	Ød	L	F	l	←	←	←	←		
11IR	NT-SIR	1012 11	●		12	10	150	5.2	27	-	-	-	NT-ST090	NT-FT08
		1216 11	●		16	13	150	6.3	25	-	-	-	NT-ST090	NT-FT08
		1516 11	●		16	15	150	7.5	30	-	-	-	NT-ST090	NT-FT08
16IR	NT-SIR	2016 16	●		16	20	150	10	35	-	-	-	NT-ST030	NT-FT15
		2420S 16	●		20	24	180	12	35	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		3025S 16	●		25	30	200	15	35	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		3732S 16	●		32	37	250	18.5	35	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
16IL	NT-SIL	2016 16		●	16	20	150	10	35	-	-	-	NT-ST030	NT-FT15
		2420S 16		●	20	24	180	12	35	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		3025S 16		●	25	30	200	15	35	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15
		3732S 16		●	32	37	250	18.5	35	NT-SH060	NT-ST080	NT-WR025	NT-ST040	NT-FT15

carbide 232

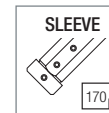
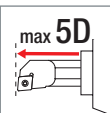
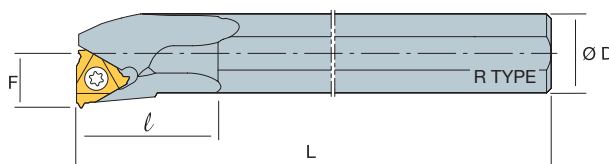
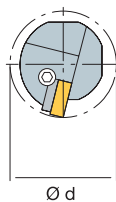
PCBN 238

diamond 244

TURNING
MICROBORA
MICROBORING
THREADING
GROOVING
MILLING
DRILLING
SPARE PARTS
INDEX

V SIR

11| 16|



	DESCRIPTION	STOCK		DIMENSIONS				Icon 1	Icon 2	Icon 3	Icon 4	Icon 5	
		R	L	ØD	Ød	L	F						l
11R	NT-V10M-SIR11-12	●		10	12	150	5.2	28	-	-	-	NT-ST090	NT-FT08
	NT-V16M-SIR11-13	●		16	13	150	6.3	25	-	-	-	NT-ST090	NT-FT08
	NT-V16M-SIR11-15	●		16	15	150	7.5	30	-	-	-	NT-ST090	NT-FT08
16R	NT-V16M-SIR16-20	●		16	20	150	10	35	-	-	-	NT-ST030	NT-FT15
	NT-V20Q-SIR16-24	●		20	24	180	12	35	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
	NT-V25R-SIR16-30	●		25	30	200	15	35	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15
	NT-V32S-SIR16-37	●		32	37	250	18.5	35	NT-SH065	NT-ST080	NT-WR025	NT-ST040	NT-FT15

carbide

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PCBN

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diamond

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