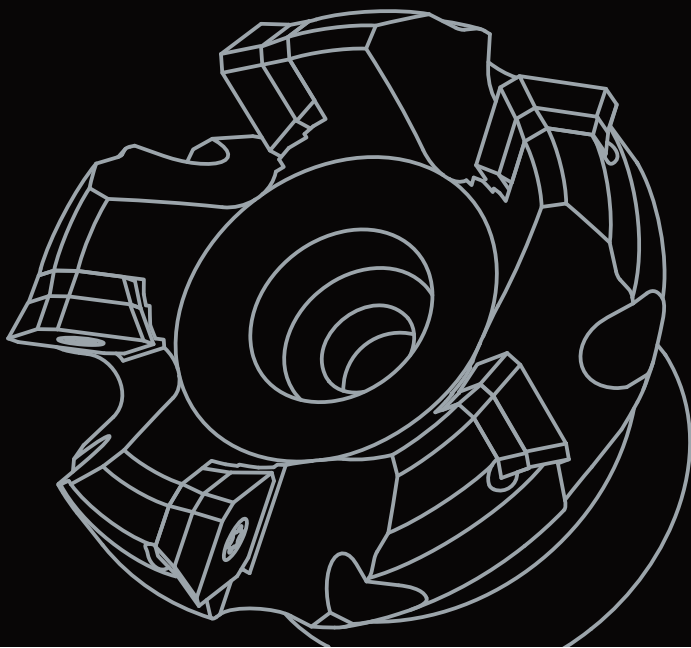


CATALOGUE 2014



SKO TOOLS





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

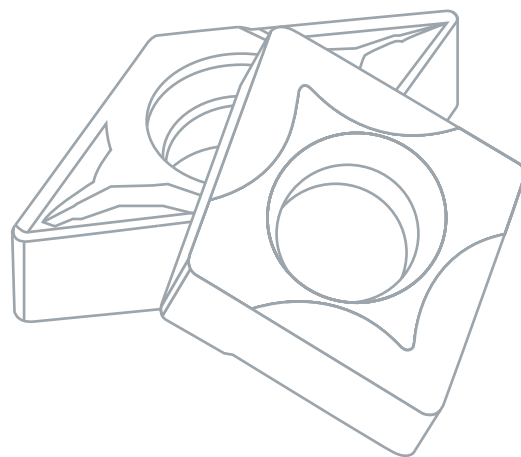
- , ● Стандартный склад, обычно в наличии на складе.
- , ○ Нестандартный склад, наличие на складе не гарантируется.
- складские остатки.
- ★ Продукция на фазе внедрения

○, ● 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.



MICRONEGA /

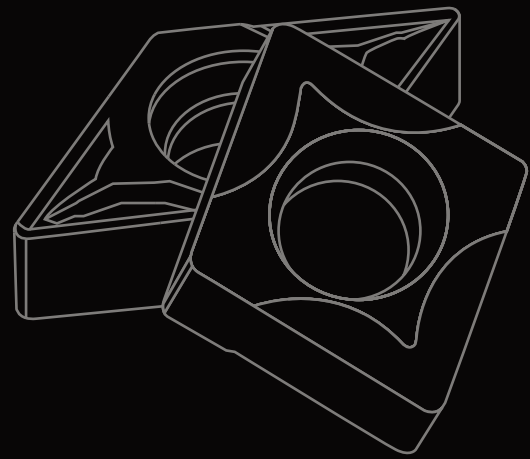
carbide /173

PCBN /179

diamond /187

holders /195

MICRONEGA / carbide



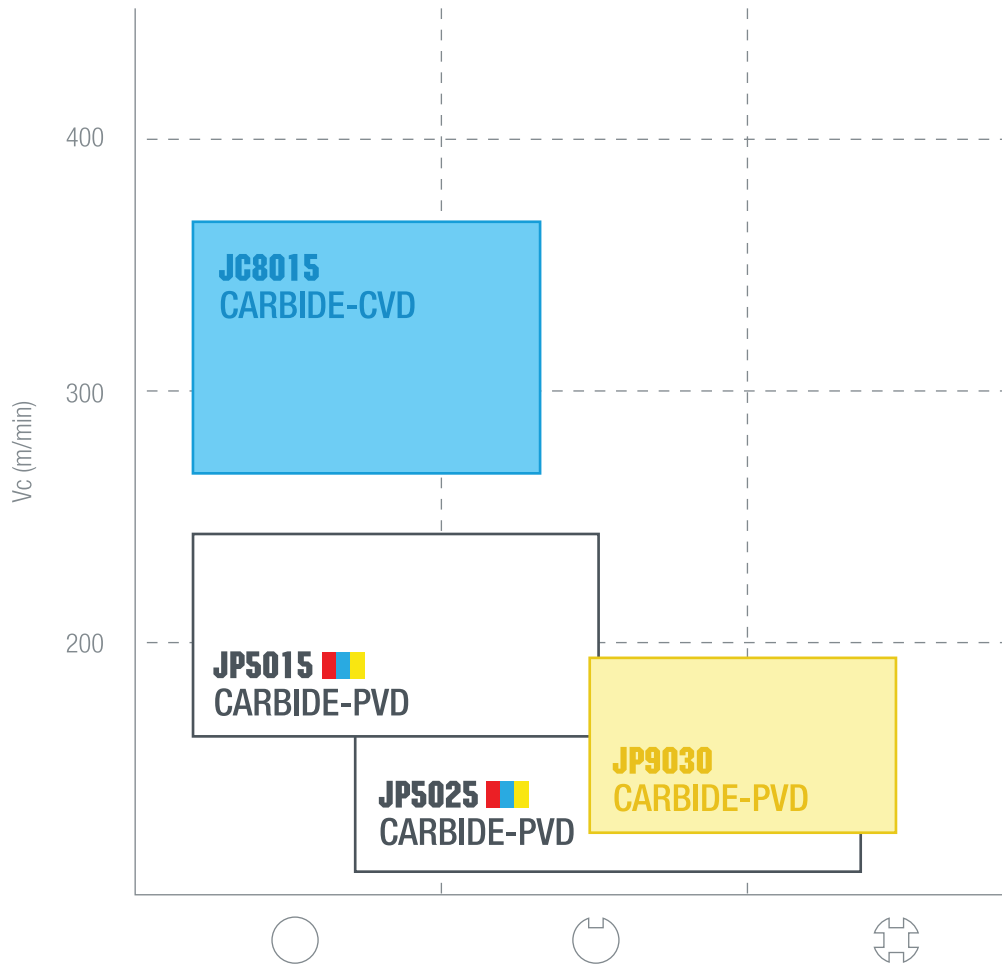
GRADES

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

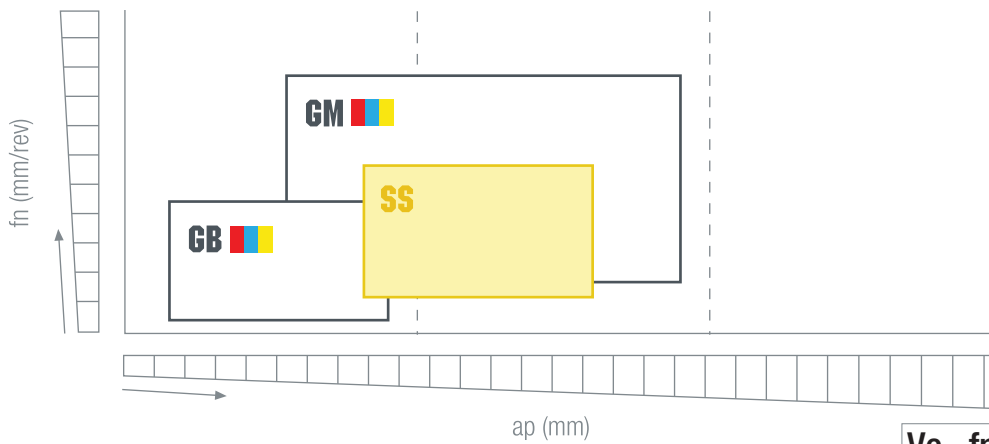
ISO DIN 513	K					P					M				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40
CARBIDE CVD						JC8015									
CARBIDE PVD		JP5015				JP5015					JP5015				
		JP5025				JP5025					JP5025				
											JP9030				
CARBIDE UNCOATED															
CERMET UNCOATED															

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

GRADES



CHIPBREAKERS

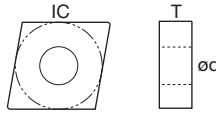


$V_c \cdot f_n \cdot a_p$ 178

- TURNING
- MICRONEGA
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**NEGATIVE
with hole**

CN □ □



MICRO CN □ □

IC 7,50
T 3,18
ød 3,60



TURNING

MICRONEGA

MICROBORING

THREADING

GROOVING

MILLING

DRILLING

SPARE PARTS

INDEX

DESCRIPTION		IC	CARBIDE-CVD				CARBIDE-PVD		CARBIDE	CERMET								
			JC7010	JC8015	JC8025	JC9025	JP9030	JP5015	JP5025	JUG020	JU4015							
GB	R TYPE 	MICRO 4 EDGES	CN.R02-GB ^{R/L}	0.2						*								
			CN.R04-GB ^{R/L}	0.4						●								
GM		MICRO 4 EDGES	CN.R02-GM	0.2						○								
			CN.R04-GM	0.4	●			*	*	●								
			CN.R08-GM	0.8							●							
SS		MICRO POLISHED 4 EDGES	CN.R02-SS	0.2				●										
			CN.R04-SS	0.4				●										

⚠
 OLD name | NEW name
 NC5110 | JP5015
 NC5130 | JP5025
 NC2130 | JP9030
 NC5220 | JC8015

Vc · fn · ap



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NEGATIVE with hole

DN

MICRO	DN
IC	7,00
T	3,18
ød	3,60
HOLDERS	199

DESCRIPTION		r	CARBIDE-CVD				CARBIDE-PVD		CARBIDE	CERMET									
			JC7010	JC8015	JC8025	JC9025	JP9030	JP5015	JP5025	JUG020	JU4015								
GB	R TYPE 	4 EDGES	MICRO	DN.R02-GB ^{R/L}	0.2						★								
				DN.R04-GB ^{R/L}	0.4						●								
GM		4 EDGES	MICRO	DN.R02-GM	0.2						○								
				DN.R04-GM	0.4		●		★	★	●								
				DN.R08-GM	0.8							●							
SS		POLISHED 4 EDGES	MICRO	DN.R02-SS	0.2				●										
				DN.R04-SS	0.4				●										

⚠

OLD name	NEW name
NC5110	JP5015
NC5130	JP5025
NC2130	JP9030
NC5220	JC8015

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CUTTING PARAMETERS

TURNING

MICRONEGA

MICROBORING

THREADING

GROOVING

MILLING

DRILLING

SPARE PARTS

INDEX

K	KG	GREY CAST IRON	M	MM	MARTENSITIC AND FERRITIC STAINLESS STEEL
		GHISA GRIGIA			ACCIAI INOSSIDABILI MARTENSITICI E FERRITICI
		GRAUGUSS			MARTENSITISCHE UND FERRITISCHE ROSTFREIE STÄHLE
		FONTE GRISE			ACIERS INOXYDABLES MARTENSITIQUES ET FERRITIQUES
		FUNDICIÓN GRIS			ACEROS INOXIDABLES AUSTENITICOS Y FERRITICOS
		ЧУГУН			МАРТЕНСИТНЫЕ И ФЕРРИТНЫЕ НЕРЖАВЕЮЩИЕ СТАЛИ
K	KN	NODULAR CAST IRON	M	MA	AUSTENITIC STAINLESS STEEL
		GHISA SFEROIDALE			ACCIAI INOSSIDABILI AUSTENITICI
		SPHÄROGUSS			AUSTENITISCHE ROSTFREIE STÄHLE
		FONTE NODULAIRE			ACIERS INOXYDABLES AUSTENITIQUES
		FUNDICIÓN NODULAR			ACEROS INOXIDABLES AUSTENITICOS
		ЧУГУН С ШАРОВИДНЫМ ГРАФИТОМ			АУСТЕНИТНЫЕ НЕРЖАВЕЮЩИЕ СТАЛИ
P	PL	LOW CARBON AND FREE CUTTING STEEL	N	NA	ALUMINUM ALLOYS
		ACCIAI A BASSO TENORE DI CARBONIO ED AUTOMATICI			LEGHE DI ALLUMINIO
		KOHLENSTOFFARME STÄHLE			ALUMINIUMLEGIERUNGEN
		ACIERS BAS CARBONE ET POUR DÉCOLLETAGE			ALLIAGES D'ALUMINIUM
		ACEROS DE BAJO CARBONO			ALEACIONES DE ALUMINIO
		НИЗКОУГЛЕРОДИСТАЯ И АВТОМАТНАЯ СТАЛЬ			СПЛАВЫ АЛЮМИНИЯ
P	PM	MEDIUM CARBON STEEL	N	NH	ALUMINUM ALLOYS AGED AND HARDENED
		ACCIAI A MEDIO TENORE DI CARBONIO			LEGHE DI ALLUMINIO TRATTATE ED INVECCHiate
		MITTELGEKOHLTE FLUSSSTÄHLE			GEALTERTE UND BEHANDELTE ALUMINIUMLEGIERUNGEN
		ACIERS MOYEN CARBONE			ALLIAGES D'ALUMINIUM TRAITÉS ET VIEILLIES
		ACEROS DE MEDIO CARBONO			ALEACIONES DE ALUMINIO TRATADAS Y ENVEJACIDAS
		СРЕДНЕУГЛЕРОДИСТАЯ СТАЛЬ			СПЛАВЫ АЛЮМИНИЯ ОБРАБОТАННЫЕ И СОСТАРЕННЫЕ
P	PH	HIGH CARBON STEEL	N	NB	BRASS
		ACCIAI AD ELEVATO TENORE DI CARBONIO			OTTONE
		KOHLENSTOFFFREICHE STÄHLE			MESSING
		ACIERS HAUT CARBONE			LAITON
		ACEROS DE ALTO CARBONO			LATÓN
		ВЫСОКОУГЛЕРОДИСТАЯ СТАЛЬ			ЛАТУНЬ
P	PA	ALLOY STEEL	N	NC	BRONZE AND ELECTROLYTIC COPPER
		ACCIAI LEGATI			BRONZO E RAME ELETTROLITICO
		LEGIERTE STÄHLE			ELEKTROLYTISCHES KUPFER UND BRONZE
		ACIERS ALLIÉS			BRONZE ET CUIVRE ÉLECTROLYTIQUE
		ACEROS ALEADOS			BRONCE Y COBRE ELECTROLÍTICO
		СРЕДНЕЛЕГИРОВАННАЯ СТАЛЬ			БРОНЗА И ЭЛЕКТРОЛИТИЧЕСКАЯ МЕДЬ

MATERIAL	CARBIDE-PVD			CVD	GB		GM		SS		
	JP5015	JP5025	JP9030	JC8015							
	Vc (m/min)				ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	
K	KG	120~200	100~170		150~260	0.30~1.00	0.05~0.18	0.70~2.50	0.10~0.20		
	KN	100~170	80~150		100~220	0.30~1.00	0.05~0.18	0.70~2.50	0.10~0.20		
P	PL	120~200	100~180		250~350	0.30~1.00	0.04~0.15	0.70~2.50	0.08~0.20		
	PM	100~180	80~160		220~300	0.30~1.00	0.04~0.15	0.70~2.50	0.08~0.20		
	PH	100~160	80~140		200~280	0.30~1.00	0.04~0.15	0.70~2.50	0.08~0.20		
	PA	80~140	60~120		180~250	0.30~1.00	0.04~0.15	0.70~2.50	0.08~0.20		
M	MM	100~140	80~120	100~150		0.30~1.00	0.04~0.10	0.70~2.50	0.05~0.20	0.50~2.00	0.05~0.18
	MA	80~120	60~100	80~120		0.30~1.00	0.04~0.10	0.70~2.50	0.05~0.20	0.50~2.00	0.05~0.18
N	NA										
	NH										
	NB										
	NC										

GRADES

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ISO DIN 513	H					K														
	H01	H10	H20	H30	H40	K01	K10	K20	K30	K40										
PCBN-Carbide reinforced																				
PCBN-Vertical & Solid (NBS Series)																				

NBS150

NBS250

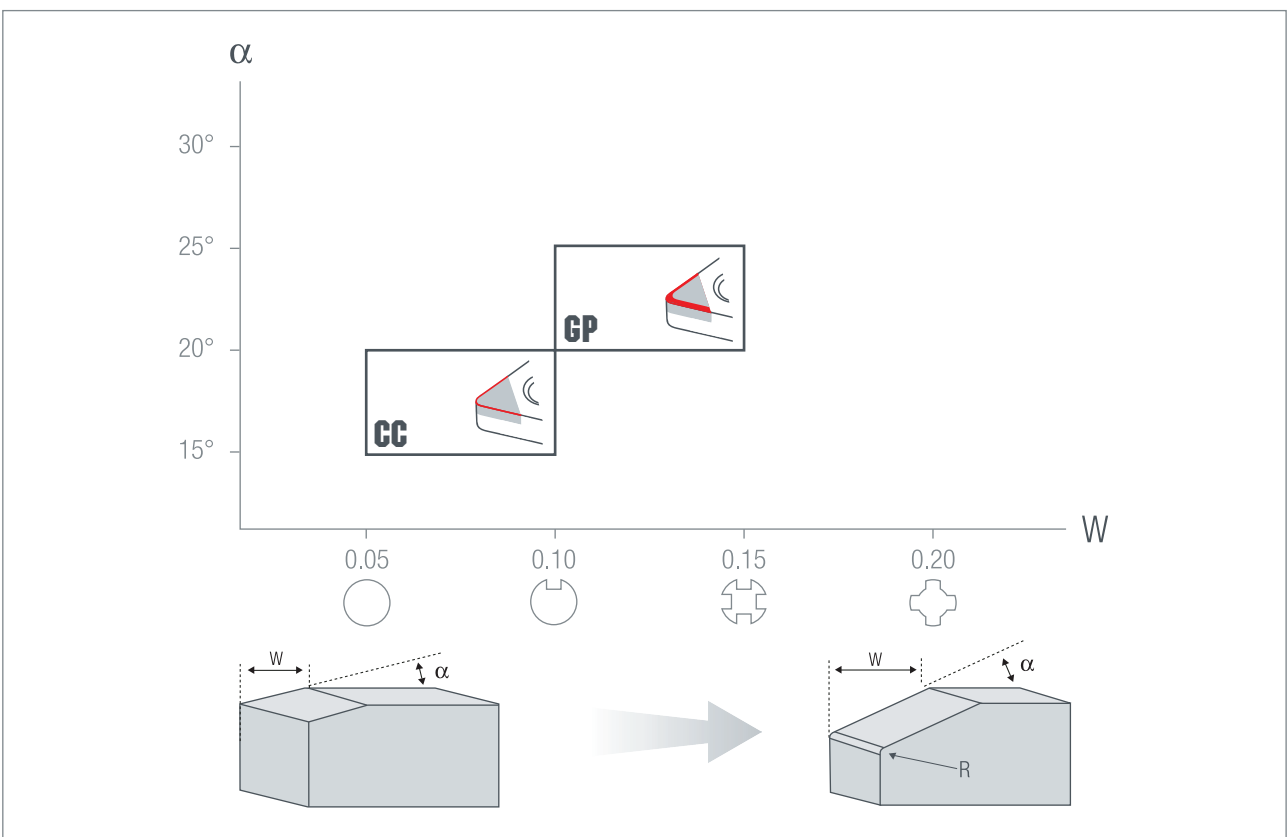
NBS450

COATED

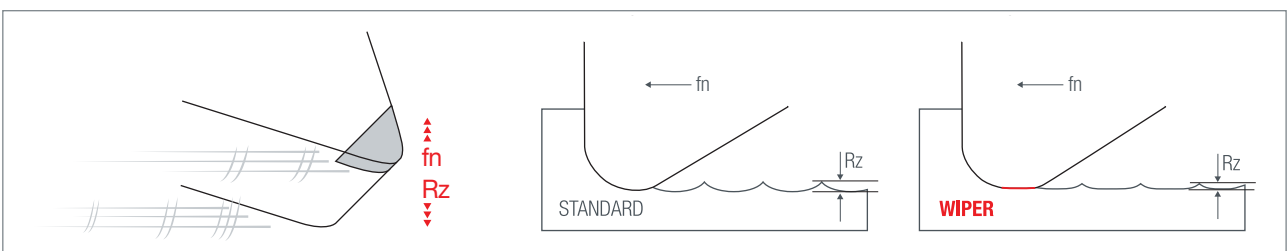
INSERT STYLE



EDGE PREPARATION



WIPER



TURNING

MICRONEGA

MICROBORING

THREADING

GROOVING

MILLING

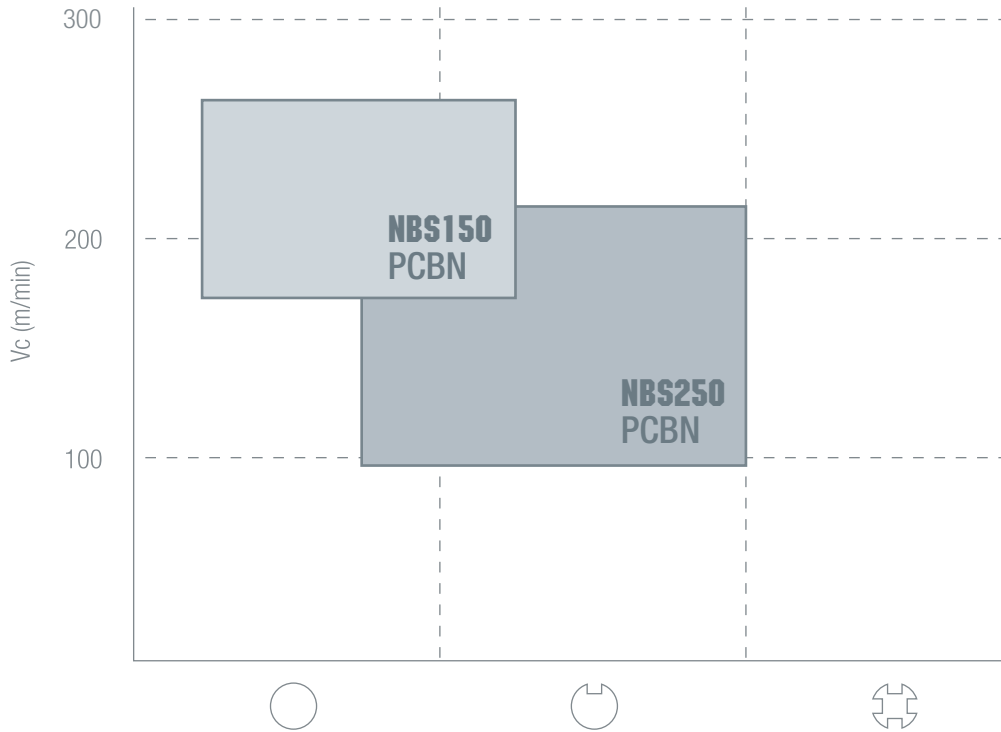
DRILLING

SPARE PARTS

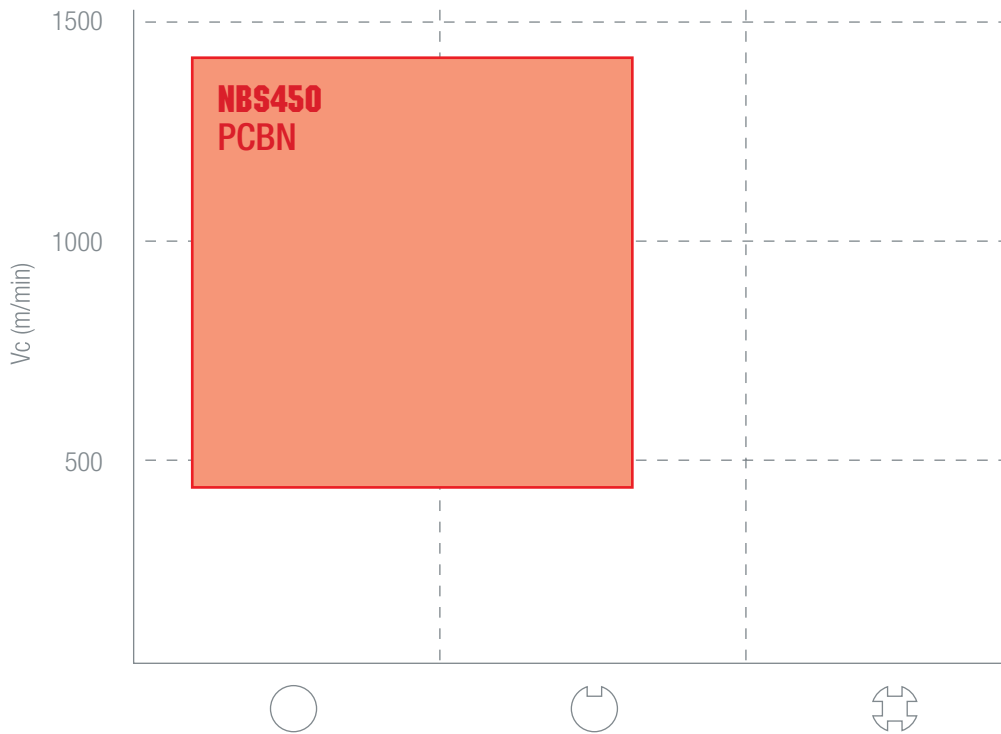
INDEX

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- MICRONEGA**
- MICROBORING
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RANGE ISO **H** PCBN-Vertical (NBS Series)



RANGE ISO **K** PCBN-Vertical & Solid (NBS Series)



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NEGATIVE - VERTICAL
with hole

CN □ □

NEW

MICRO	CN □ □
IC	7,50
T	3,18
Ød	3,60
HOLDERS	

DESCRIPTION		e	PCBN-Vertical													
			NBS150	NBS250	NBS450											
CC		MICRO	CN.R02-4EV-CC	2.2	●											
			CN.R04-4EV-CC	2.1	●											
			CN.R08-4EV-CC	2.1	●											
GP		MICRO	CN.R02-4EV-GP	2.2		●	●									
			CN.R04-4EV-GP	2.1		●	●									
			CN.R08-4EV-GP	2.1		●	●									
WH WIPER		MICRO	CN.R04-4EV-WH	2.1	★											
			CN.R08-4EV-WH	2.1	★											

●, ○ = NEW ITEM

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TURNING

MICRONEGA

MICROBORING

THREADING

GROOVING

MILLING

DRILLING

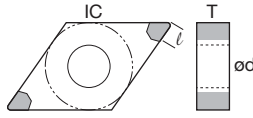
SPARE PARTS

INDEX

NEGATIVE - VERTICAL
with hole

NEW

DN □ □



MICRO	DN □ □
IC	7,00
T	3,18
ød	3,60
HOLDERS	199

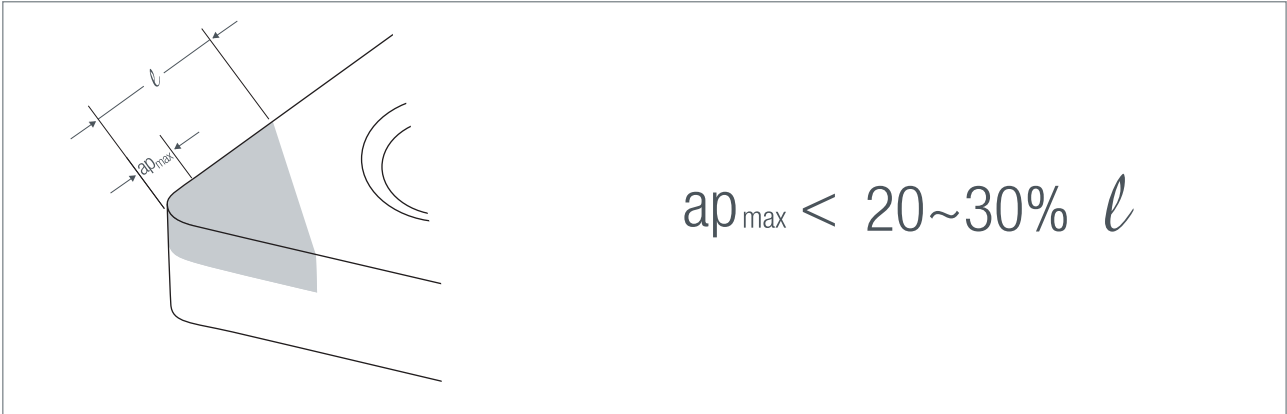
- TURNING
- MICRONEGA
- MICROBORING
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- GROOVING
- MILLING
- DRILLING
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- INDEX

DESCRIPTION	e	PCBN-Vertical												
		NBS150	NBS250	NBS450										
 MICRO DN.R02-4EV-CC DN.R04-4EV-CC DN.R08-4EV-CC	2.4	●												
	2.2	●												
	1.9	●												
 MICRO DN.R02-4EV-GP DN.R04-4EV-GP DN.R08-4EV-GP	2.4		●	●										
	2.2		●	●										
	1.9		●	●										
 MICRO DN.R04-4EV-WH DN.R08-4EV-WH	2.2	★												
	1.9	★												

●, ○ = NEW ITEM

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CUTTING PARAMETERS



H HH	HARDENED STEEL
	ACCIAIO TEMPRATO
	GEHÄRTETER STAHL
	ACIER TREMPÉ
	ACERO TEMPLADO
H HC	ЗАКАЛЁННАЯ СТАЛЬ
	CASEHARDENED STEEL
	ACCIAIO CEMENTATO
	EINGESETZTER STAHL
	ACIER CEMENTÉ
H HB	ACERO CEMENTADO
	ЦЕМЕНТИРОВАННАЯ СТАЛЬ
	BEARING STEEL
	ACCIAIO PER CUSCINETTI
	STAHL FÜR LAGER
H HM	ACIER POUR ROULEMENTS
	ACERO PARA RODAMIENTOS
	СТАЛЬ ДЛЯ ПОДШИПНИКОВ
	HARD METAL (Co≥17%)
	METALLO DURO (Co≥17%)
H HM	VHM (Co≥17%)
	CARBURE (Co≥17%)
	METAL DURO (Co≥17%)
	ТВЁРДЫЙ СПЛАВ (Co≥17%)
	ТВЁРДЫЙ СПЛАВ (Co≥17%)

K KG	GREY CAST IRON
	GHISA GRIGIA
	GRAUGUSS
	FONTE GRISE
	FUNDICIÓN GRIS
K KN	ЧУГУН
	NODULAR CAST IRON
	GHISA SFEROIDALE
	SPHÄROGUSS
	FONTE NODULAIRE
K KW	FUNDICIÓN NODULAR
	ЧУГУН С ШАРОВИДНЫМ ГРАФИТОМ
	WHITE CAST IRON
	GHISA BIANCA
	WEISSGUSS
K KS	FONTE BLANCHE
	FUNDICIÓN BLANCA
	БЕЛЫЙ ЧУГУН
	SINTERED MATERIAL (FERROUS)
	MATERIALI SINTERIZZATI (FERROSI)
K KS	SINTERMATERIALIEN (EISERNE)
	MATÉRIAUX FRITTÉS (FERREUX)
	MATERIALES SINTERIZADOS (BASE HIERRO)
	СПЕЧЁННЫЕ МАТЕРИАЛЫ (МЕТАЛЛ)
	СПЕЧЁННЫЕ МАТЕРИАЛЫ (МЕТАЛЛ)

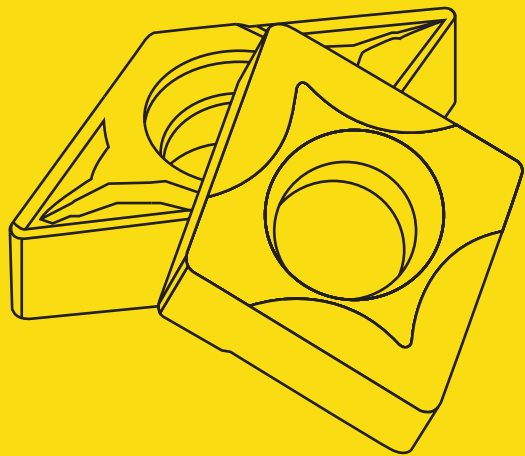
- TURNING
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CUTTING PARAMETERS PCBN-Vertical (NBS Series)

MATERIAL	ap (mm)	fn (mm/rev)	CUTTING CONDITIONS		PCBN-Vertical				
					NBS150	NBS250	NBS450		
H	HH	0.05~0.25	0.05~0.20	○	☉	☉	★ 120~250	100~200	
				⊕	☉		★ 80~180	80~180	
	HC	0.05~0.25	0.08~0.25	○	☉	☉	★ 120~200	100~180	
				⊕	☉		★ 80~160	80~160	
	HB	0.05~0.25	0.05~0.20	○	☉	☉	★ 120~220	100~180	
				⊕	☉		★ 80~150	80~150	
K	KG	0.10~0.50	0.10~0.30	○	☉	☉		★ 400~1000	
				⊕	☉		★ 400~800		
	KN	0.10~0.30	0.05~0.20	○	☉			★ 250~400	
				⊕	☉		★ 150~300		
	KW	0.10~0.30	0.10~0.30	○	☉			★ 60~100	
				⊕	☉		★ 50~80		
KS	0.05~0.20	0.05~0.25	○	☉		100~220	★ 160~250		
			⊕	☉		60~180	★ 120~200		

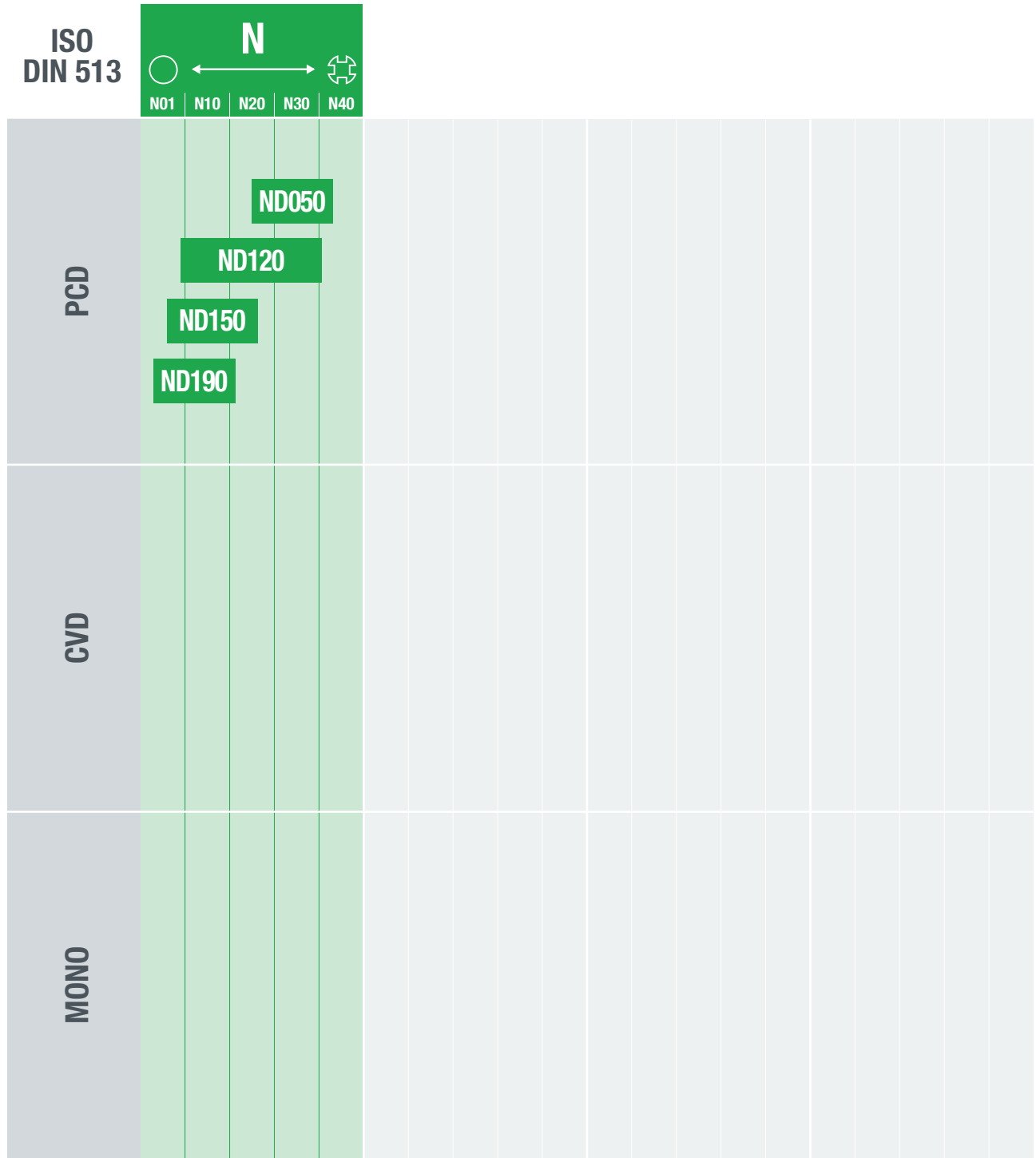
★ = 1st choice / 1^a scelta / 1. Wahl / 1^{er} choix / 1^{ra} elección / 1-й выбор

MICRONEGA / diamond

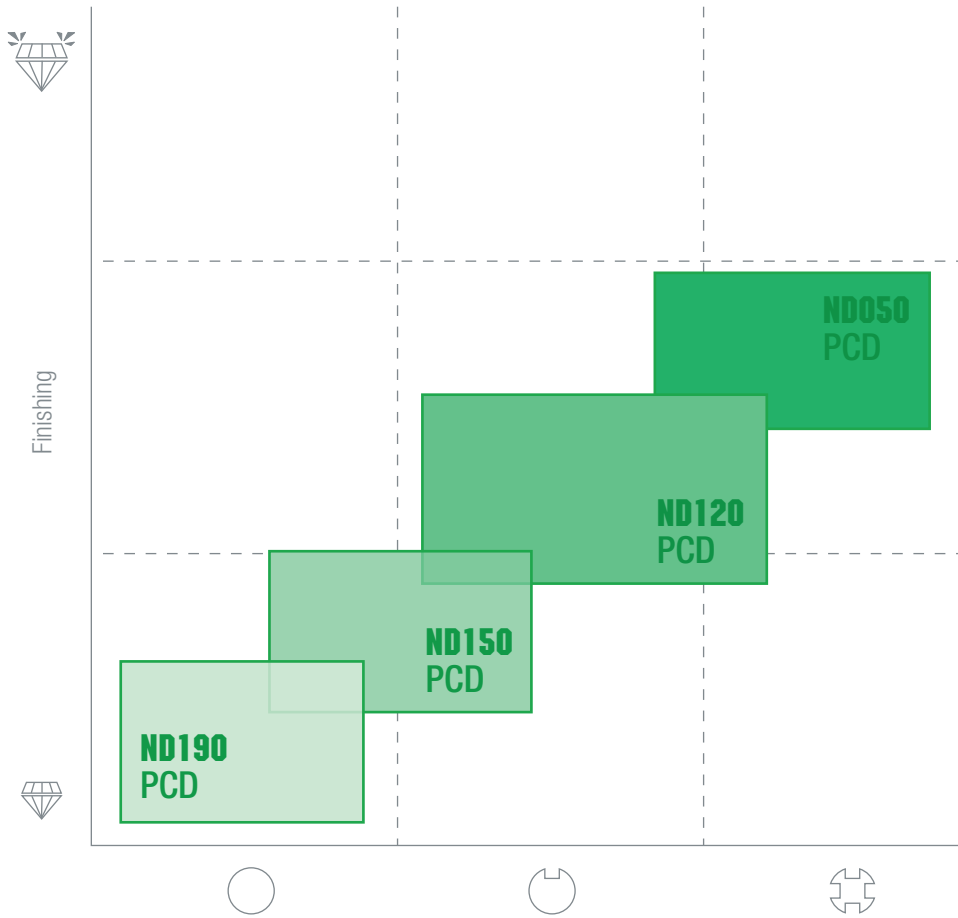


GRADES

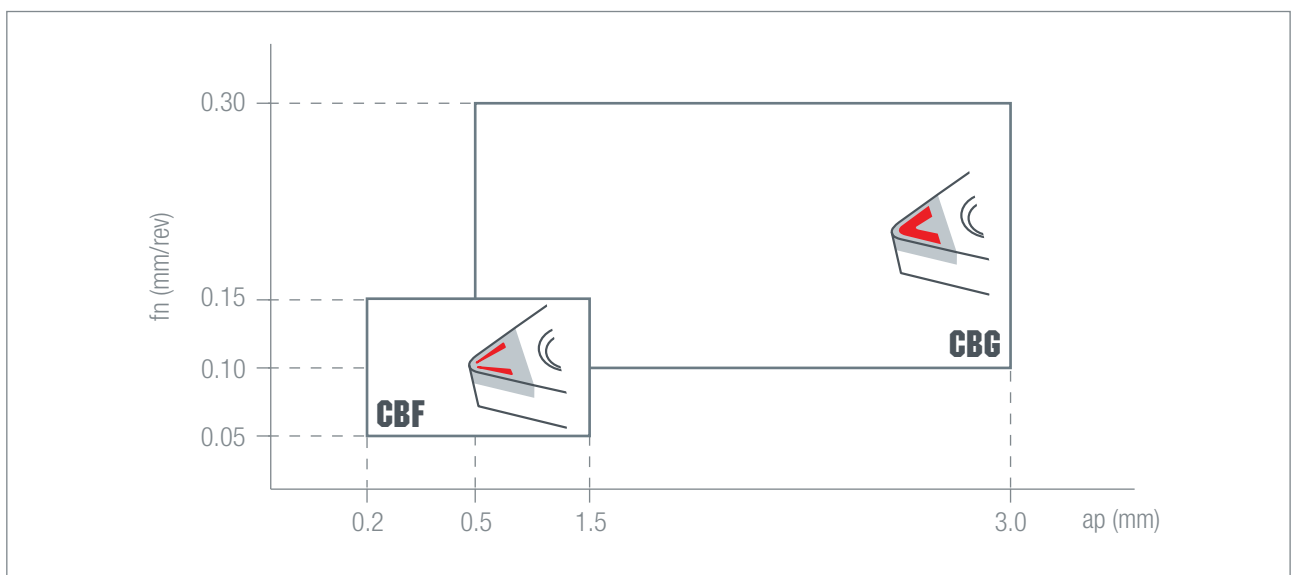
- TURNING
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RANGE ISO **N** DIAMOND



CHIPBREAKER APPLICATION



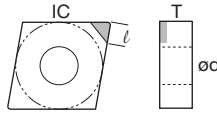
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NEGATIVE with hole

NEW

CN □ □



MICRO CN □ □

IC 7,50
T 3,18
ød 3,60

HOLDERS ▶ 197

	DESCRIPTION	IC	l	PCD										
				ND050	ND120	ND150	ND190							
LARGE	MICRO CN.R02-LRG CN.R04-LRG CN.R08-LRG		3.3	★	●	★	★							
				3.3	★	●	★	★						
				3.2	★	●	★	★						
CHIPBREAKER	MICRO CN.R02-CBF CN.R04-CBF		3.3		●									
			3.3		●									
	MICRO CN.R04-CBG CN.R08-CBG		3.3		●									
			3.2		●									
	fn · ap ▶ 189													

●, ○ = NEW ITEM

Vc · fn · ap ▶ 193

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NEGATIVE with hole

DN □ □

NEW

80°

MICRO	DN □ □
IC	7,00
T	3,18
Ød	3,60
HOLDERS	199

	DESCRIPTION	IC	e	PCD									
				ND050	ND120	ND150	ND190						
LARGE	MICRO DN.R02-LRG DN.R04-LRG DN.R08-LRG			3.1	★	●	★	★					
				2.9	★	●	★	★					
				2.5	★	●	★	★					
CHIPBREAKER	MICRO DN.R02-CBF DN.R04-CBF			3.1		●							
				2.9		●							
	MICRO DN.R04-CBG DN.R08-CBG			2.9		●							
				2.5		●							

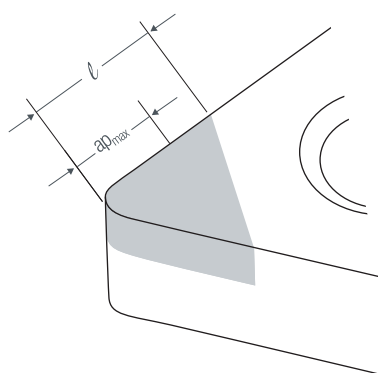
fn · ap 189

●, ○ = NEW ITEM

Vc · fn · ap 193

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CUTTING PARAMETERS



$$ap_{max} < 60 \sim 70\% l$$

N	NA	ALUMINUM ALLOYS
		LEGHE DI ALLUMINIO
		ALUMINIUMLEGIERUNGEN
		ALLIAGES D'ALUMINIUM
		ALEACIONES DE ALUMINIO
СПЛАВЫ АЛЮМИНИЯ		
N	NS	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%)		
N	NH	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		
N	NB	BRASS
		OTTONE
		MESSING
		LAITON
		LATÓN
ЛАТУНЬ		

N	NC	BRONZE AND ELECTROLYTIC COPPER
		BRONZO E RAME ELETTROLITICO
		ELEKTROLYTISCHES KUPFER UND BRONZE
		BRONZE ET CUIVRE ÉLECTROLYTIQUE
		BRONCE Y COBRE ELECTROLÍTICO
БРОНЗА И ЭЛЕКТРОЛИТИЧЕСКАЯ МЕДЬ		
N	NG	GRAPHITE
		GRAFITE
		GRAPHIT
		GRAPHITE
		GRAFITO
ГРАФИТ		
H	HM	HARD METAL (Co ≤16%)
		METALLO DURO (Co ≤16%)
		VHM (Co ≤16%)
		CARBURE (Co ≤16%)
		METAL DURO (Co ≤16%)
ТВЕРДЫЙ СПЛАВ (Co ≤16%)		
S	ST	TITANIUM ALLOYS
		LEGHE DI TITANIO
		TITAN LEGIERUNGEN
		ALLIAGES DE TITANE
		ALEACIONES DE TITANIO
СПЛАВЫ ТИТАНА		

CUTTING PARAMETERS

MATERIAL	ap (mm)	fn (mm/rev)	CUTTING CONDITIONS	PCD				
				ND050	ND120	ND150	ND190	
N	NA	0.10~1.00	0.08~0.25	○ ⊕	⊖	★ 600~2500		
		1.00~2.50	0.15~0.50	○ ⊕	⊖	★ 600~1600		
	NS	0.10~1.00	0.05~0.20	○ ⊕	⊖		500~1800	★ 500~1800
		1.00~2.50	0.08~0.35	○ ⊕	⊖		500~1200	★ 500~1200
	NH	0.10~1.00	0.05~0.20	○ ⊕	⊖		400~1000	★ 400~1000
		1.00~2.50	0.08~0.35	○ ⊕	⊖		400~800	★ 400~800
	NB	0.10~1.00	0.10~0.30	○ ⊕	⊖	★ 400~1200	400~1200	
		1.00~2.50	0.15~0.25	○ ⊕	⊖	★ 400~1000	400~1000	
	NC	0.10~1.00	0.10~0.30	○ ⊕	⊖	★ 300~800	300~800	
		1.00~2.50	0.15~0.25	○ ⊕	⊖	★ 300~500	300~500	
	NG	0.10~1.00	0.08~0.25	○ ⊕	⊖		★ 300~800	300~800
		1.00~2.50	0.15~0.50	○ ⊕	⊖		★ 300~600	300~600
H	HM	0.10~0.50	0.08~0.25	○	⊖		10~40	★ 10~40
S	ST	0.10~1.00	0.05~0.20	○ ⊕	⊖	★ 100~200	100~200	
		1.00~2.50	0.08~0.20	○ ⊕	⊖	★ 100~150	100~150	

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

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MICRO CN

NEGATIVE with hole **CN**□□

CN□□	DESCRIPTION	STOCK		DIMENSIONS					S	T	C	M	D	R	
		R	L	H	B	L	F	α							
MICRO CN	NT-EX10H MICRO-CN RH/LH	●	●	10	10	100	10	15	NT-ST400	NT-FT10					
	NT-EX12H MICRO-CN RH/LH	●	●	12	12	100	12	15	NT-ST400	NT-FT10					
	NT-EX16K MICRO-CN RH/LH	●	●	16	16	120	16	15	NT-ST400	NT-FT10					
	NT-EX20K MICRO-CN RH/LH	●	●	20	20	120	20	15	NT-ST400	NT-FT10					
	NT-EX25M MICRO-CN RH/LH	●	●	25	25	150	25	15	NT-ST400	NT-FT10					

A MICRO CN

NEGATIVE with hole **CN**□□

CN□□	DESCRIPTION	STOCK		DIMENSIONS					S	T	C	M	D	R	
		R	L	$\emptyset D$	$\emptyset d$	L	F	α							
MICRO CN	NT-A08K MICRO-CN RH/LH	●	●	8	10	125	5.5	21°	NT-ST400	NT-FT10					
	NT-A10K MICRO-CN RH/LH	●	●	10	12	125	6	21°	NT-ST400	NT-FT10					
	NT-A12M MICRO-CN RH/LH	●	●	12	14	150	7	19°	NT-ST400	NT-FT10					
	NT-A16R MICRO-CN RH/LH	●	●	16	20	200	10	16°	NT-ST400	NT-FT10					
	NT-A20R MICRO-CN RH/LH	●	●	20	24	200	12.5	16°	NT-ST400	NT-FT10					

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TURNING

MICRONEGA

MICROBORING

THREADING

GROOVING

MILLING

DRILLING

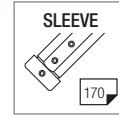
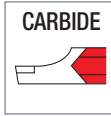
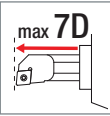
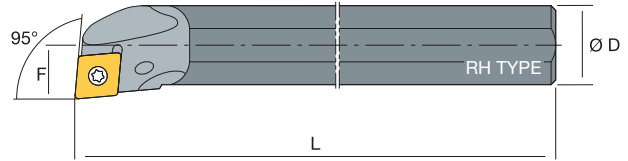
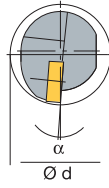
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E MICRO CN

NEGATIVE
with hole

CN □ □



CN □ □	DESCRIPTION	STOCK		DIMENSIONS												
		R	L	ØD	Ød	L	F	α								
MICRO CN	NT-E08K	MICRO-CN RH/LH	●	●	8	10	125	5.5	21°	NT-ST400	NT-FT10					
	NT-E10K	MICRO-CN RH/LH	●	●	10	12	125	6	21°	NT-ST400	NT-FT10					
	NT-E12M	MICRO-CN RH/LH	●	●	12	14	150	7	19°	NT-ST400	NT-FT10					
	NT-E16R	MICRO-CN RH/LH	●	●	16	20	200	10	16°	NT-ST400	NT-FT10					
	NT-E20R	MICRO-CN RH/LH	●	●	20	24	200	12.5	16°	NT-ST400	NT-FT10					

carbide

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PCBN

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diamond

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MICRO DN

NEGATIVE with hole DN □ □

DN □ □	DESCRIPTION	STOCK		DIMENSIONS					Screw	Tool					
		R	L	H	B	L	F	l							
MICRO DN	NT-EX10H MICRO-DN RH/LH	●	●	10	10	100	10	18	NT-ST400	NT-FT10					
	NT-EX12H MICRO-DN RH/LH	●	●	12	12	100	12	18	NT-ST400	NT-FT10					
	NT-EX16K MICRO-DN RH/LH	●	●	16	16	120	16	18	NT-ST400	NT-FT10					
	NT-EX20K MICRO-DN RH/LH	●	●	20	20	120	20	18	NT-ST400	NT-FT10					
	NT-EX25M MICRO-DN RH/LH	●	●	25	25	150	25	18	NT-ST400	NT-FT10					

A MICRO DN

NEGATIVE with hole DN □ □

DN □ □	DESCRIPTION	STOCK		DIMENSIONS					Screw	Tool					
		R	L	ØD	Ød	L	F	α							
MICRO DN	NT-A10K MICRO-DN RH/LH	●	●	10	15	125	9.3	19°	NT-ST400	NT-FT10					
	NT-A12M MICRO-DN RH/LH	●	●	12	16	150	9	17°	NT-ST400	NT-FT10					
	NT-A16R MICRO-DN RH/LH	●	●	16	20	200	11	17°	NT-ST400	NT-FT10					
	NT-A20R MICRO-DN RH/LH	●	●	20	24	200	13	17°	NT-ST400	NT-FT10					

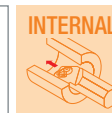
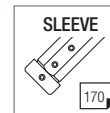
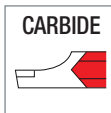
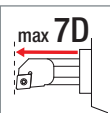
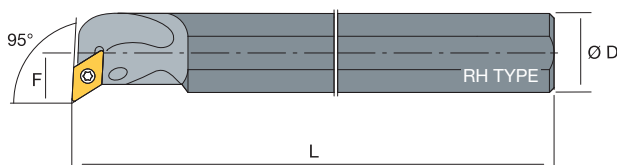
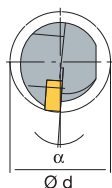
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E MICRO DN

NEGATIVE
with hole

DN



DN <input type="checkbox"/> <input type="checkbox"/>	DESCRIPTION		STOCK		DIMENSIONS											
			R	L	ØD	Ød	L	F	α							
MICRO DN	NT-E10K	MICRO-DN RH/LH	●	●	10	15	125	9.3	19°	NT-ST400	NT-FT10					
	NT-E12M	MICRO-DN RH/LH	●	●	12	16	150	9	17°	NT-ST400	NT-FT10					
	NT-E16R	MICRO-DN RH/LH	●	●	16	20	200	11	17°	NT-ST400	NT-FT10					
	NT-E20R	MICRO-DN RH/LH	●	●	20	24	200	13	17°	NT-ST400	NT-FT10					

carbide

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PCBN

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diamond

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