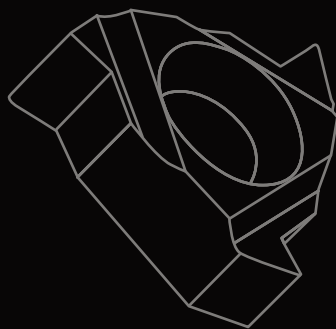
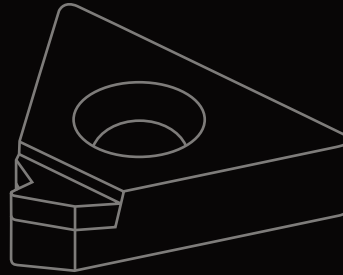




THREADING / carbide



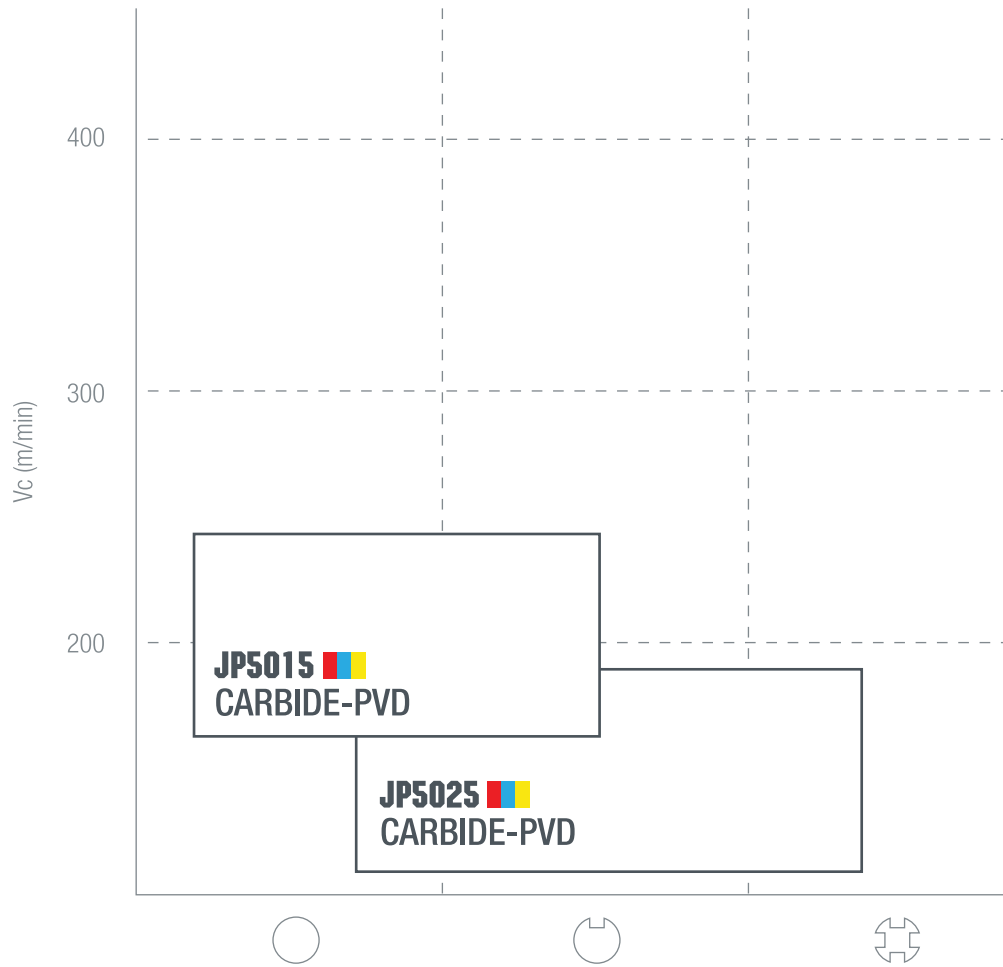
GRADES

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

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

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

GRADES

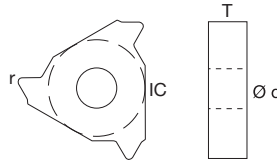


- TURNING
- MICROMEGA
- MICROBORING
- THREADING**
- GROOVING
- MILLING
- DRILLING
- SPARE PARTS
- INDEX

16ER

NEW

EXTERNAL METRIC



TURNING

MICROMEGA

MICROBORING

THREADING

GROOVING

MILLING

DRILLING

SPARE PARTS

INDEX

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

16IR

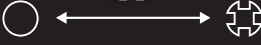

INTERNAL METRIC

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
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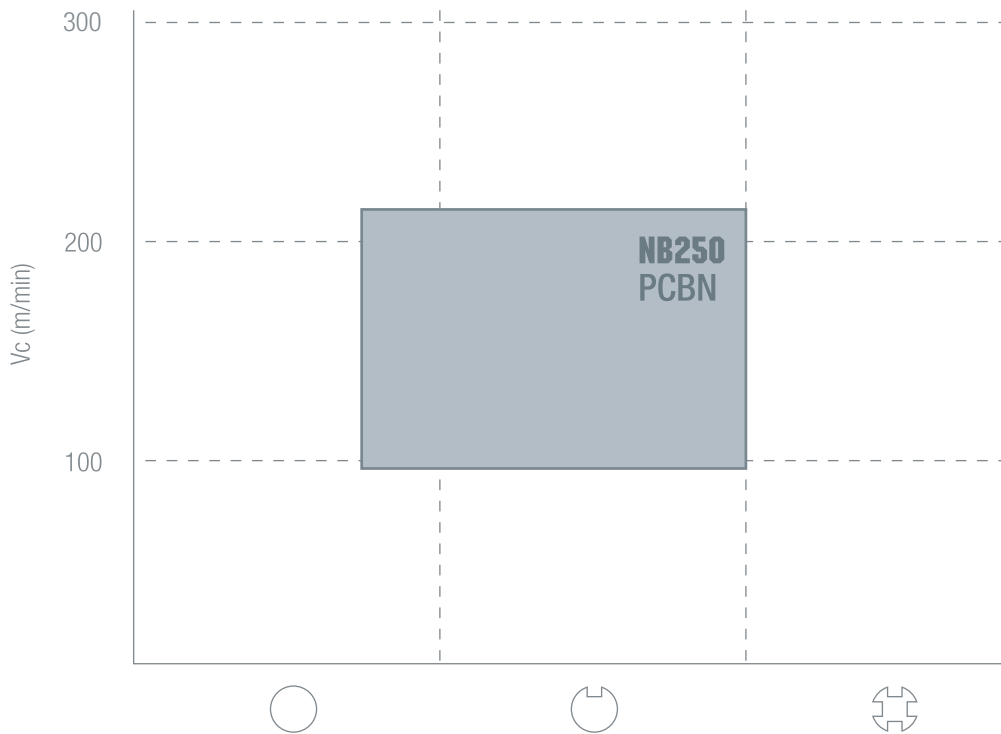
GRADES

- TURNING
- MICROMEGA
- MICROBORING
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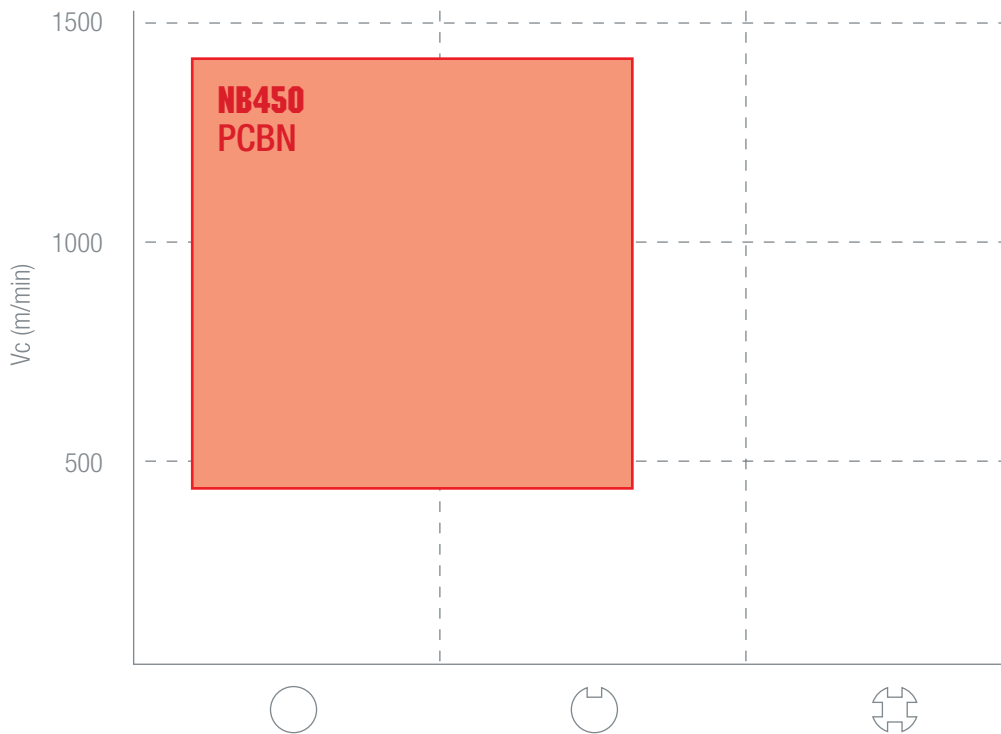
	H					K					
	H01	H10	H20	H30	H40	K01	K10	K20	K30	K40	
ISO DIN 513											
PCBN-Carbide reinforced		NB250					NB450				
PCBN-Vertical & Solid (NBS Series)											

COATED

RANGE ISO H PCBN-Carbide reinforced



RANGE ISO K PCBN-Carbide reinforced

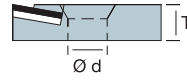
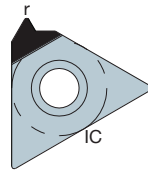


Vc · ap ▶ 240

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

16ER

EXTERNAL METRIC



DESCRIPTION	DIMENSIONS						PCBN							
		r	IC	T	Ød	NB250U	NB450U							
	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	○	○							
NB250U = uncoated NB450U = uncoated														

Vc · ap

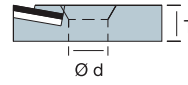
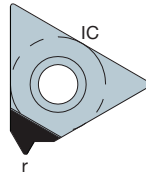


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- TURNING
- MICROMEGA
- MICROBORING
- THREADING
- GROOVING
- MILLING
- DRILLING
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- INDEX

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	0.07 max			★ 100~180	
					80~150	★ 80~140
	HC	0.07 max			★ 100~150	
					80~130	★ 80~120
	HB	0.07 max			★ 100~150	
					80~130	★ 80~120
HM	0.07 max				★ 10~40	

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