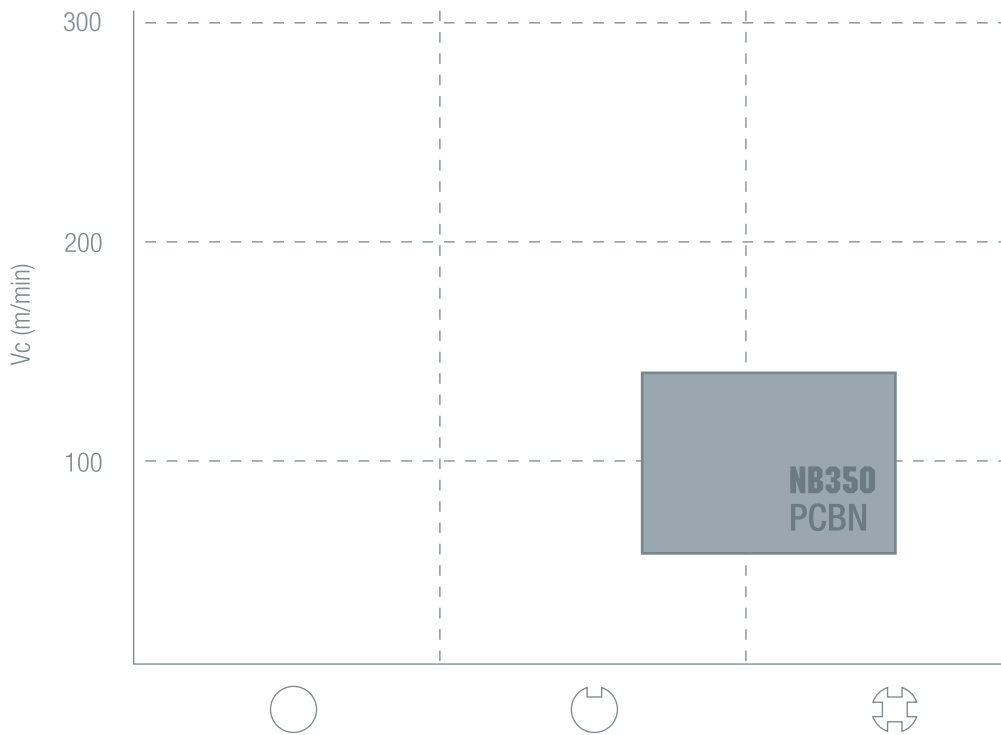


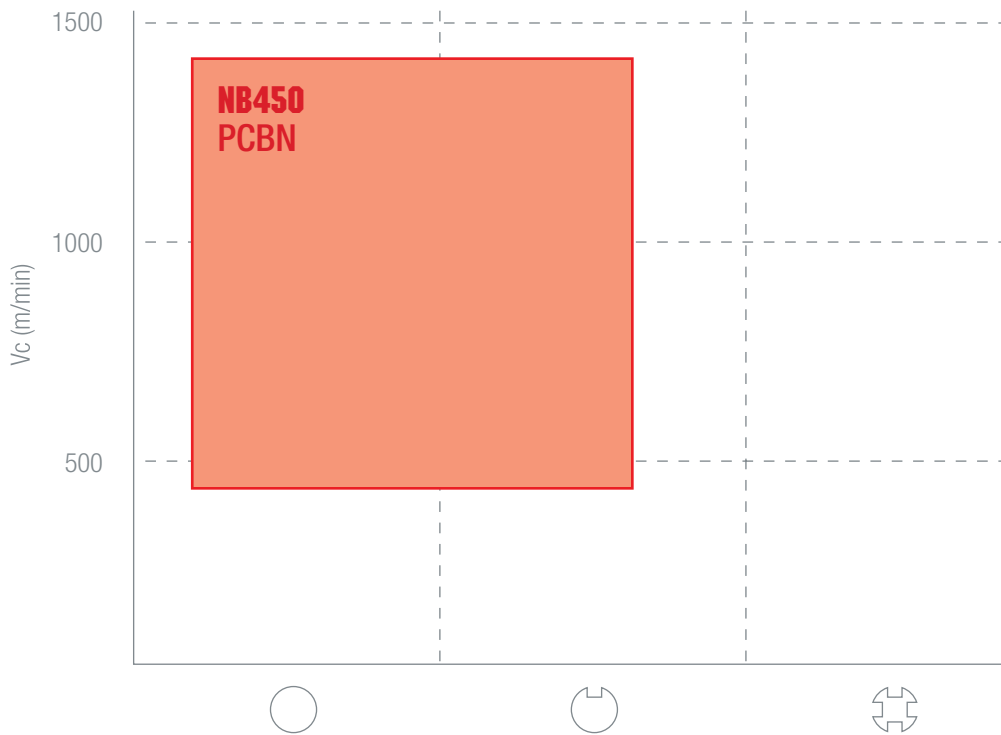




**RANGE ISO H PCBN-Carbide reinforced**



**RANGE ISO K PCBN-Carbide reinforced**

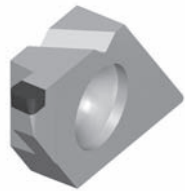
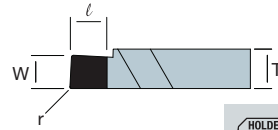
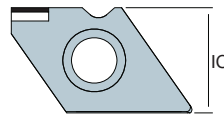


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# BGF

FLAT



DESCRIPTION

DIMENSIONS

PCBN-Carbide reinforced

NB350 NB450U

W ±0.05 l r IC T R L R L

BGF R/L	W ±0.05	l	r	IC	T	NB350		NB450U	
						R	L	R	L
100-010	1.00	1.8	0.10	12.70	4.76	●	●	○	○
120-010	1.20	1.8	0.10	12.70	4.76	●	○	○	○
140-010	1.40	1.8	0.10	12.70	4.76	●	○	○	○
150-010	1.50	2.6	0.10	12.70	4.76	●	●	○	○
170-010	1.70	2.6	0.10	12.70	4.76	○	○	○	○
185-010	1.85	2.6	0.10	12.70	4.76	○	○	○	○
195-010	1.95	2.6	0.10	12.70	4.76	●	○	○	○
200-010	2.00	3.0	0.10	12.70	4.76	●	○	○	○
200-020	2.00	3.0	0.20	12.70	4.76	●	●	○	○
225-020	2.25	3.0	0.20	12.70	4.76	○	○	○	○
230-020	2.30	3.0	0.20	12.70	4.76	○	○	○	○
250-020	2.50	3.5	0.20	12.70	4.76	●	●	○	○
275-020	2.75	3.5	0.20	12.70	4.76	○	○	○	○
280-020	2.80	3.5	0.20	12.70	4.76	○	○	○	○
300-020	3.00	4.5	0.20	12.70	4.76	●	●	●	●
330-020	3.30	4.5	0.20	12.70	4.76	○	○	○	○
350-020	3.50	4.5	0.20	12.70	4.76	●	●	○	○
400-020	4.00	4.5	0.20	12.70	4.76	●	●	○	○

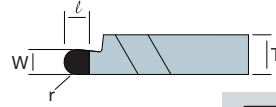
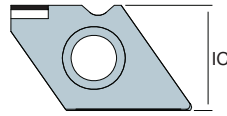
NB450U = uncoated

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# BGF

FULL RADIUS



DESCRIPTION		DIMENSIONS					PCBN-Carbide reinforced								
		W ±0.05	l	r	IC	T	NB350		NB450U						
							R	L	R	L					
	<b>BGF R/L</b>	<b>100-050FR</b>	1.00	1.8	0.50	12.70	4.76	○	○	○	○				
		<b>150-075FR</b>	1.50	2.6	0.75	12.70	4.76	○	●	○	○				
		<b>200-100FR</b>	2.00	3.0	1.00	12.70	4.76	●	○	○	○				
		<b>250-125FR</b>	2.50	3.5	1.25	12.70	4.76	○	○	○	○				
		<b>300-150FR</b>	3.00	4.5	1.50	12.70	4.76	●	○	○	○				
		<b>350-175FR</b>	3.50	4.5	1.75	12.70	4.76	○	○	○	○				
		<b>400-200FR</b>	4.00	4.5	2.00	12.70	4.76	●	○	○	○				
NB450U = uncoated															

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MICROMEGA

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## CUTTING PARAMETERS

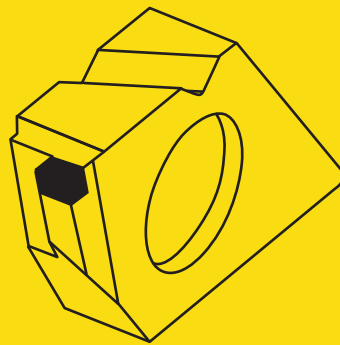
<b>H</b> <b>HH</b>	HARDENED STEEL
	ACCIAIO TEMPRATO
	GEHÄRTETER STAHL
	ACIER TREMPÉ
	ACERO TEMPLADO
<b>H</b> <b>HC</b>	ЗАКАЛЁННАЯ СТАЛЬ
	CASEHARDENED STEEL
	ACCIAIO CEMENTATO
	EINGESETZTER STAHL
	ACIER CEMENTÉ
	ACERO CEMENTADO
	ЦЕМЕНТИРОВАННАЯ СТАЛЬ

<b>H</b> <b>HB</b>	BEARING STEEL
	ACCIAIO PER CUSCINETTI
	STAHL FÜR LAGER
	ACIER POUR ROULEMENTS
	ACERO PARA RODAMIENTOS
	СТАЛЬ ДЛЯ ПОДШИПНИКОВ

MATERIAL	W (mm)	fn (mm/rev)	CUTTING CONDITIONS		PCBN		
					NB350	NB450U	
<b>H</b>	<b>HH</b>	1.00~2.00	0.05~0.12	○	☹ ☹	★	
		2.00~3.00	0.05~0.15			80~150	
		3.00~4.00	0.08~0.15			★	
		1.00~2.00	0.05~0.12	⊕	☹	60~120	★
		2.00~3.00	0.05~0.15			60~120	80~150
		3.00~4.00	0.08~0.15			60~120	80~150
	<b>HC</b>	1.00~2.00	0.05~0.12	○	☹ ☹	★	
		2.00~3.00	0.05~0.15			80~140	
		3.00~4.00	0.08~0.15			★	
		1.00~2.00	0.05~0.12	⊕	☹	60~100	★
		2.00~3.00	0.05~0.15			60~100	80~140
		3.00~4.00	0.08~0.15			60~100	80~140
<b>HB</b>	1.00~2.00	0.05~0.12	○	☹ ☹	★		
	2.00~3.00	0.05~0.15			80~120		
	3.00~4.00	0.08~0.15			★		
	1.00~2.00	0.05~0.12	⊕	☹	60~100	★	
	2.00~3.00	0.05~0.15			60~100	80~120	
	3.00~4.00	0.08~0.15			60~100	80~120	

★ = 1<sup>st</sup> choice / 1<sup>a</sup> scelta / 1. Wahl / 1<sup>er</sup> choix / 1<sup>ra</sup> elección / 1-й выбор

GROOVING / diamond



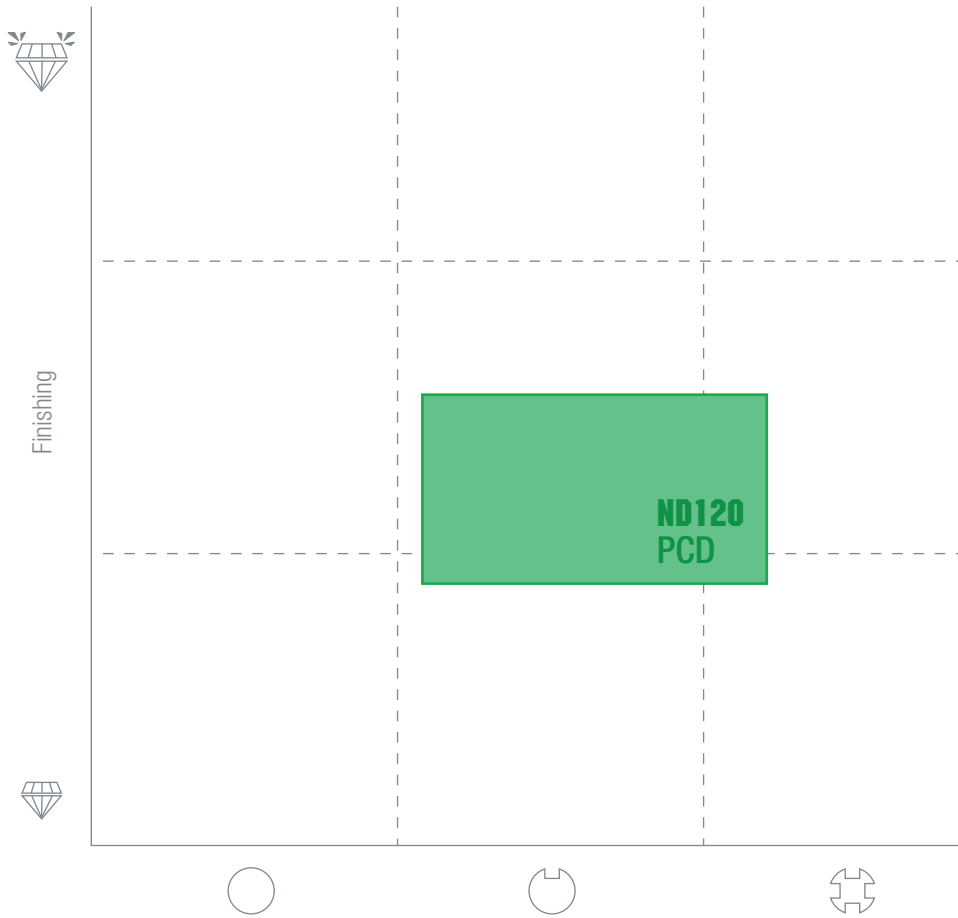
# GRADES

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- MICROBORING
- THREADING
- GROOVING**
- MILLING
- DRILLING
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ISO DIN 513	N																			
	N01	N10	N20	N30	N40															
PCD	ND120																			
CVD																				
MONO																				



# RANGE ISO **N** DIAMOND

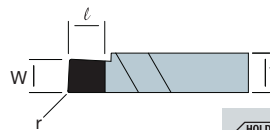
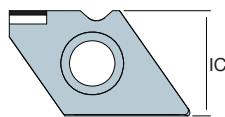


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# BGF

FLAT



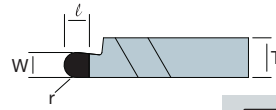
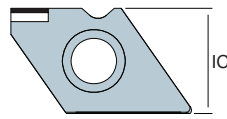
DESCRIPTION		DIMENSIONS						PCD												
		W ±0.05	l	r	IC	T	R	L	ND120											
	<b>BGF R/L</b>	<b>100-010</b>	1.00	1.8	0.10	12.70	4.76	○												
	<b>120-010</b>	1.20	1.8	0.10	12.70	4.76	○													
	<b>140-010</b>	1.40	1.8	0.10	12.70	4.76	○													
	<b>150-010</b>	1.50	2.6	0.10	12.70	4.76	○													
	<b>170-010</b>	1.70	2.6	0.10	12.70	4.76	○													
	<b>185-010</b>	1.85	2.6	0.10	12.70	4.76	○													
	<b>195-010</b>	1.95	2.6	0.10	12.70	4.76	○													
	<b>200-010</b>	2.00	3.0	0.10	12.70	4.76	○													
	<b>200-020</b>	2.00	3.0	0.20	12.70	4.76	●													
	<b>225-020</b>	2.25	3.0	0.20	12.70	4.76	○													
	<b>230-020</b>	2.30	3.0	0.20	12.70	4.76	○													
	<b>250-020</b>	2.50	3.5	0.20	12.70	4.76	○													
	<b>275-020</b>	2.75	3.5	0.20	12.70	4.76	○													
	<b>280-020</b>	2.80	3.5	0.20	12.70	4.76	○													
	<b>300-020</b>	3.00	4.5	0.20	12.70	4.76	●													
	<b>330-020</b>	3.30	4.5	0.20	12.70	4.76	○													
<b>350-020</b>	3.50	4.5	0.20	12.70	4.76	○														
<b>400-020</b>	4.00	4.5	0.20	12.70	4.76	○														

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# BGF

FULL RADIUS



DESCRIPTION		DIMENSIONS					PCD										
		W ±0.05	l	r	IC	T	R	L									
	<b>BGF R/L</b>	<b>100-050FR</b>	1.00	1.8	0.50	12.70	4.76	○									
		<b>150-075FR</b>	1.50	2.6	0.75	12.70	4.76	○									
		<b>200-100FR</b>	2.00	3.0	1.00	12.70	4.76	○									
		<b>250-125FR</b>	2.50	3.5	1.25	12.70	4.76	○									
		<b>300-150FR</b>	3.00	4.5	1.50	12.70	4.76	●									
		<b>350-175FR</b>	3.50	4.5	1.75	12.70	4.76	○									
		<b>400-200FR</b>	4.00	4.5	2.00	12.70	4.76	○									

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### CUTTING PARAMETERS

<b>N</b>	<b>NA</b>	ALUMINUM ALLOYS
		LEGHE DI ALLUMINIO
		ALUMINIUMLEGIERUNGEN
		ALLIAGES D'ALUMINIUM
		ALEACIONES DE ALUMINIO
		СПЛАВЫ АЛЮМИНИЯ
<b>N</b>	<b>NS</b>	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%)

<b>N</b>	<b>NB</b>	BRASS
		OTTONE
		MESSING
		LAITON
		LATÓN
		ЛАТУНЬ
<b>N</b>	<b>NG</b>	GRAPHITE
		GRAFITE
		GRAPHIT
		GRAPHITE
		GRAFITO
		ГРАФИТ

MATERIAL	W (mm)	fn (mm/rev)	CUTTING CONDITIONS			PCD
						ND120
<b>N</b>	<b>NA</b>	1.00~2.00	0.05~0.12			600~2500
		2.00~3.00	0.05~0.15			600~2500
		3.00~4.00	0.08~0.15			600~2500
	<b>NS</b>	1.00~2.00	0.05~0.12			500~1500
		2.00~3.00	0.05~0.15			500~1500
		3.00~4.00	0.08~0.15			500~1500
	<b>NB</b>	1.00~2.00	0.05~0.12			400~1200
		2.00~3.00	0.05~0.15			400~1200
		3.00~4.00	0.08~0.15			400~1200
	<b>NG</b>	1.00~2.00	0.05~0.12			300~800
		2.00~3.00	0.05~0.15			300~800
		3.00~4.00	0.08~0.15			300~800

★ = 1<sup>st</sup> choice / 1<sup>a</sup> scelta / 1. Wahl / 1<sup>er</sup> choix / 1<sup>ra</sup> elección / 1-й выбор

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# BGF-HLD

double clamp **BGF<sup>R</sup>/L**

BGF <sup>R</sup> /L	DESCRIPTION	STOCK		DIMENSIONS											
		R	L	H	B	L	F	l							
BGF <sup>R</sup> /L	<b>BGF-HLD</b>	<b>1616<sup>R</sup>/L</b>	●	○	16	16	150	30	44.5	NT-ST300	NT-FT15	NT-CS300 <sup>R</sup> /L	NT-SC300	NT-WR040	
		<b>2020<sup>R</sup>/L</b>	●	●	20	20	150	30	44.5	NT-ST300	NT-FT15	NT-CS300 <sup>R</sup> /L	NT-SC300	NT-WR040	
		<b>2525<sup>R</sup>/L</b>	●	●	25	25	150	30	44.5	NT-ST300	NT-FT15	NT-CS300 <sup>R</sup> /L	NT-SC300	NT-WR040	
		<b>3232<sup>R</sup>/L</b>	○	○	32	32	170	40	44.5	NT-ST300	NT-FT15	NT-CS300 <sup>R</sup> /L	NT-SC300	NT-WR040	

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