

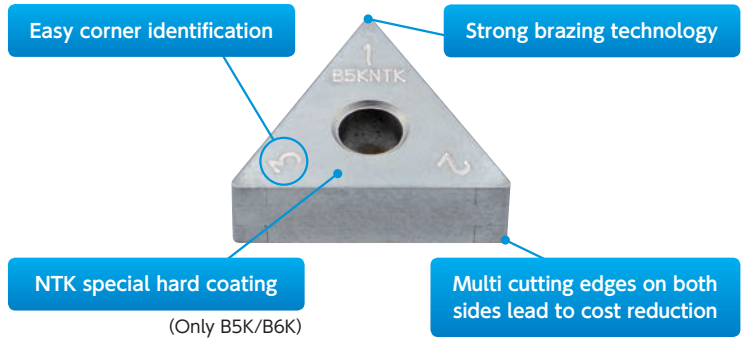
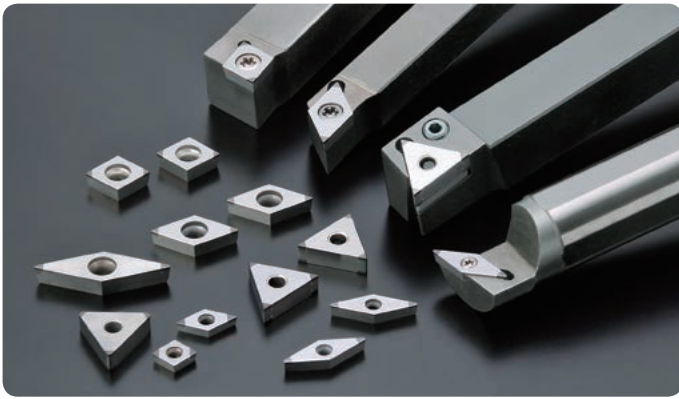
NTK **Multi-Corner** CBN Series

EZCUBE



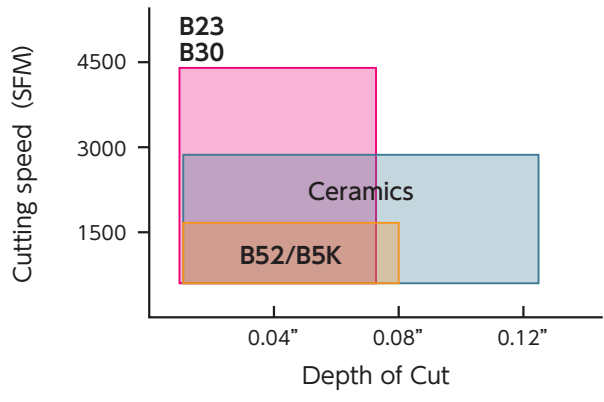
- **Excellent Performance !**
- **Competitively Priced !**
- **Coated Inserts Now Available !**

CBN Grade Matrix



Grade	Coating	Main Binder	CBN Volume	Applications			
				Cast Iron	Ductile Cast Iron	Hardened Material	Sintered Alloy
B23	—	Ti	90%	●			●
B30	—	Ti	95%	●			●
B36	—	TiCN	65%			●	
B6K	TiCN	TiCN	65%			●	
B40	—	TiN	65%			●	
B52	—	TiC	50%		●	●	
B5K	TiCN	TiC	50%		●	●	

Gray / Ductile Cast Iron Applications



B23

Features

- Excellent wear resistance thanks to high CBN content
- Ideal for roughing cast iron and machining sintered materials

[Recommended cutting conditions]

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B23	Turning	Rough Semi finish	1300-4500	.004-.020	.008-.080	●	●

B52 / B5K

Features

- Excellent wear resistance due to optimum CBN content with special TiC binders
- Ideal for finishing ductile cast iron and continuous cuts for finishing hardened materials

[Recommended cutting conditions]

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B52 B5K	Turning	Finish	300-1600	.004-.016	.012-.080	●	●

B30

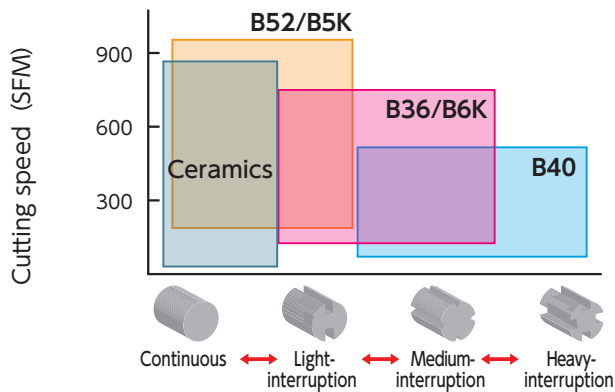
Features

- Excellent wear resistance thanks to high CBN content
- Designed for finishing cast iron

[Recommended cutting conditions]

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B30	Turning	Semi finish Finish	1300-4500	.004 -.020	.008-.080	●	●

Hardened Material Applications



B40

Features

- Exceptional toughness thanks to special TiN binders
- Designed for severely interrupted cutting of hardened materials

【Recommended cutting conditions】

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B40	Turning (Heavy interruption)	Rough-Finish	100-500	.002-.008	.004-.040	●	○

B52 / B5K

Features

- Excellent wear resistance due to optimum CBN content with special TiC binders
- Ideal for finishing ductile cast iron and continuous cuts for finishing hardened materials

【Recommended cutting conditions】

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B52 B5K	Turning (Continuous / Light interruption)	Rough-Finish	300-1000	.004-.020	.004-.040	●	●

B36 / B6K

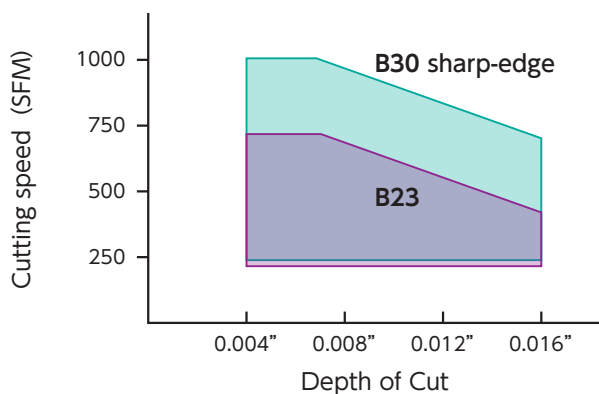
Features

- Excellent combination of wear resistance and toughness due to special TiCN binders
- Best for semi-interrupted cutting of hardened materials

【Recommended cutting conditions】

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B36 B6K	Turning (Light interruption / Medium interruption)	Rough-Finish	130-800	.002-.008	.004-.040	●	●

Sintered Alloy Applications



B23

【Recommended cutting conditions】

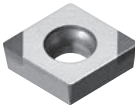
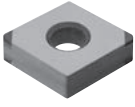
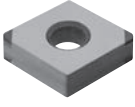
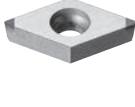
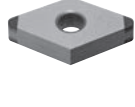
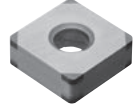
Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B23	Turning	Rough-Finish	150-750	.001-.008	.002-.020	●	●

B30

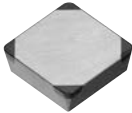
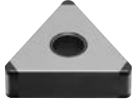

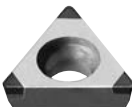

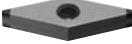
【Recommended cutting conditions】

Grade	Application	Purpose	Cutting speed (SFM)	Feed (IPR)	Depth of cut (inch)	DRY	WET
B30	Turning	Rough-Finish	150-1000	.001-.008	.002-.020	●	●

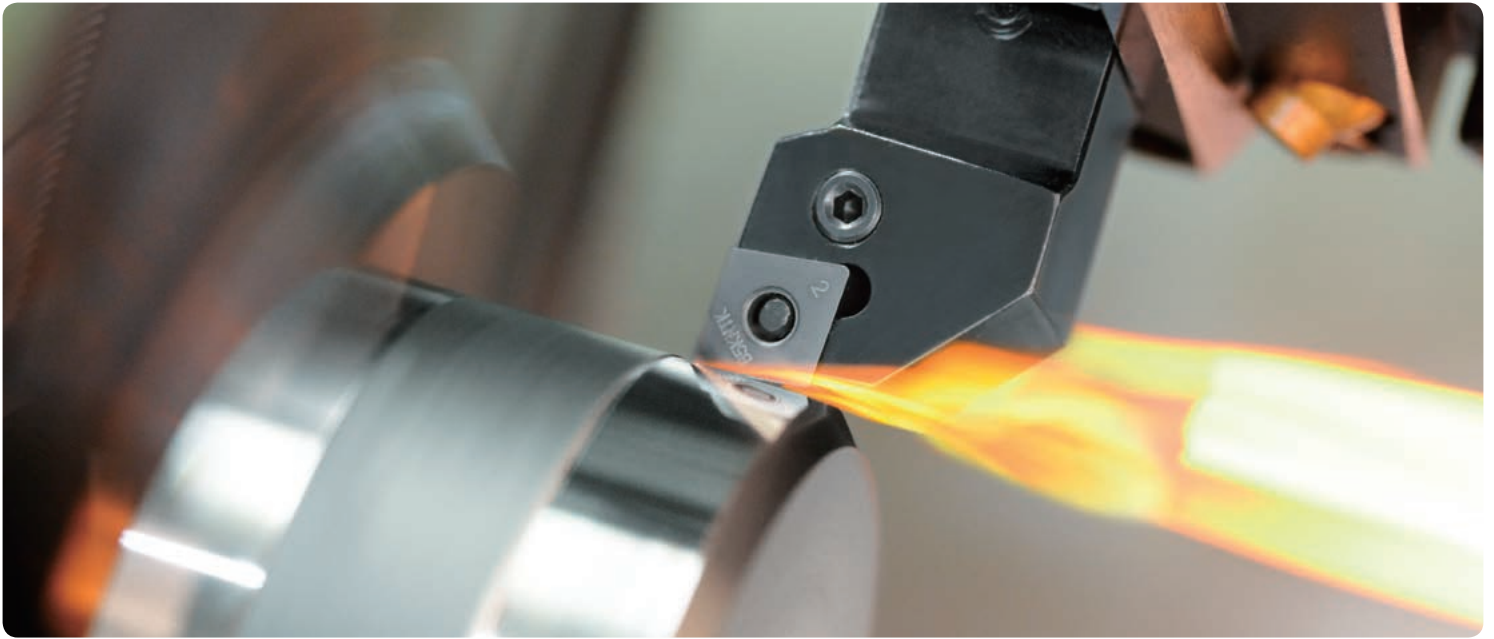
Stock list

Shape	Item Number	ISO Item Number	Edge Prep.	IC	R	No. of edge	CBN						
							Coated		B52	B40	B36	B23	B30
							B5K	B6K					
	CCGW 21.51 PD	CCGW 060204 PD	S0415	1/4	.016	2			●				
	CCGW 32.508 PD	CCGW 09T302 PD	S0415	3/8	.008	2			●				
	CCGW 32.508 PD	CCGW 09T302 PD	S0635	3/8	.008	2				●			
	CCGW 32.51 PD	CCGW 09T304 PD	S0415	3/8	.016	2			●				
	CCGW 32.51 PD	CCGW 09T304 PD	S0635	3/8	.016	2				●			
	CCGW 32.52 PD	CCGW 09T308 PD	S0415	3/8	.031	2			●				
	CCGW 32.52 PD	CCGW 09T308 PD	S0635	3/8	.031	2				●			
	CNGA 4308 PQ	CNGA 120402 PQ	S0415	1/2	.008	4			●				
	CNGA 4308 PQ	CNGA 120402 PQ	S0635	1/2	.008	4				●			
	CNGA 431 PQ	CNGA 120404 PQ	S0415	1/2	.016	4	●		●				
	CNGA 431 PQ	CNGA 120404 PQ	S0420	1/2	.016	4						○	
	CNGA 431 PQ	CNGA 120404 PQ	T0420	1/2	.016	4							○
	CNGA 431 PQ	CNGA 120404 PQ	S0525	1/2	.016	4		●				○	
	CNGA 431 PQ	CNGA 120404 PQ	S0635	1/2	.016	4				●			
	CNGA 432 PQ	CNGA 120408 PQ	S0415	1/2	.031	4	●		●				
	CNGA 432 PQ	CNGA 120408 PQ	S0420	1/2	.031	4						○	
	CNGA 432 PQ	CNGA 120408 PQ	T0420	1/2	.031	4							○
	CNGA 432 PQ	CNGA 120408 PQ	S0525	1/2	.031	4		●				○	
	CNGA 432 PQ	CNGA 120408 PQ	S0635	1/2	.031	4				●			
	CNGA 433 PQ	CNGA 120412 PQ	S0415	1/2	.047	4	●		●				
	CNGA 433 PQ	CNGA 120412 PQ	S0420	1/2	.047	4						○	
	CNGA 433 PQ	CNGA 120412 PQ	T0420	1/2	.047	4							○
	CNMA 433 PQ	CNMA 120412 PQ	S0525	1/2	.047	4						○	
CNGA 433 PQ	CNGA 120412 PQ	S0635	1/2	.047	4				●				
 with wiper	CNGA 431 PQW	CNGA 120404 PQW	S0415	1/2	.016	4			●				
	CNGA 431 PQW	CNGA 120404 PQW	S0635	1/2	.016	4				●			
	CNGA 432 PQW	CNGA 120408 PQW	S0415	1/2	.031	4			●				
	CNGA 432 PQW	CNGA 120408 PQW	S0635	1/2	.031	4				●			
	CNGA 433 PQW	CNGA 120412 PQW	S0415	1/2	.047	4			●				
	CNGA 433 PQW	CNGA 120412 PQW	S0635	1/2	.047	4				●			
	DCGW 21.508 PD	DCGW 070202 PD	S0415	1/4	.008	2			●				
	DCGW 21.51 PD	DCGW 070204 PD	S0415	1/4	.016	2			●				
	DCGW 21.51 PD	DCGW 070204 PD	S0635	1/4	.016	2				●			
	DCGW 21.52 PD	DCGW 070208 PD	S0415	1/4	.031	2			●				
	DCGW 32.508 PD	DCGW 11T302 PD	S0415	3/8	.008	2	●		●				
	DCGW 32.508 PD	DCGW 11T302 PD	S0635	3/8	.008	2				●			
	DCGW 32.51 PD	DCGW 11T304 PD	S0415	3/8	.016	2	●		●				
	DCGW 32.51 PD	DCGW 11T304 PD	S0635	3/8	.016	2				●			
DCGW 32.52 PD	DCGW 11T308 PD	S0415	3/8	.031	2			●					
	DCGW 32.52 PD	DCGW 11T308 PD	S0635	3/8	.031	2				●			
	DNGA 4308 PQ	DNGA 150402 PQ	S0415	1/2	.008	4			●				
	DNGA 4308 PQ	DNGA 150402 PQ	S0635	1/2	.008	4				●			
	DNGA 431 PQ	DNGA 150404 PQ	S0415	1/2	.016	4	●		●				
	DNGA 431 PQ	DNGA 150404 PQ	S0525	1/2	.016	4		●			●		
	DNGA 431 PQ	DNGA 150404 PQ	S0635	1/2	.016	4				●			
	DNGA 432 PQ	DNGA 150408 PQ	S0415	1/2	.031	4	●		●				
	DNGA 432 PQ	DNGA 150408 PQ	S0420	1/2	.031	4						○	
	DNGA 432 PQ	DNGA 150408 PQ	T0420	1/2	.031	4							○
	DNGA 432 PQ	DNGA 150408 PQ	S0525	1/2	.031	4		●				○	
	DNGA 432 PQ	DNGA 150408 PQ	S0635	1/2	.031	4				●			
	DNGA 433 PQ	DNGA 150412 PQ	S0415	1/2	.047	4			●				
	DNGA 433 PQ	DNGA 150412 PQ	S0420	1/2	.047	4						○	
DNGA 433 PQ	DNGA 150412 PQ	T0420	1/2	.047	4							○	
DNMA 433 PQ	DNMA 150412 PQ	S0525	1/2	.047	4					●			
DNGA 433 PQ	DNGA 150412 PQ	S0635	1/2	.047	4				●				
	SNGA 431 PE	SNGA 120404 PE	T0420	1/2	.016	8							○
	SNGA 431 PE	SNGA 120404 PE	S0635	1/2	.016	8						○	
	SNGA 432 PE	SNGA 120408 PE	S0415	1/2	.031	8			○				
	SNGA 432 PE	SNGA 120408 PE	S0525	1/2	.031	8					○		
	SNGA 432 PE	SNGA 120408 PE	S0635	1/2	.031	8				○			
	SNGA 433 PE	SNGA 120412 PE	S0415	1/2	.047	8			○				
	SNGA 433 PE	SNGA 120412 PE	S0420	1/2	.047	8						○	
	SNGA 433 PE	SNGA 120412 PE	T0420	1/2	.047	8							○
	SNMA 433 PE	SNMA 120412 PE	S0525	1/2	.047	8					●		
SNGA 433 PE	SNGA 120412 PE	S0635	1/2	.047	8				○				

● : Stock ○ : 1-2 week delivery

Shape	Item Number	ISO Item Number	Edge Prep.	IC	R	No. of edge	CBN							
							Coated							
							B5K	B6K	B52	B40	B36	B23	B30	
	SPG 321 PQ	SPGN 090304 PQ	S0420	3/8	.016	4							○	
	SPG 322 PQ	SPGN 090308 PQ	S0420	3/8	.031	4							○	
	SPG 322 PQ	SPGN 090308 PQ	T0420	3/8	.031	4								○
	TNGA 331C PH	TNGA 160401 PH	S0415	3/8	.004	6			●					
	TNGA 3308 PH	TNGA 160402 PH	S0415	3/8	.008	6	●		●					
	TNGA 3308 PH	TNGA 160402 PH	S0635	3/8	.008	6				●				
	TNGA 331 PH	TNGA 160404 PH	S0415	3/8	.016	6	●		●					
	TNGA 331 PH	TNGA 160404 PH	T0420	3/8	.016	6								○
	TNGA 331 PH	TNGA 160404 PH	S0525	3/8	.016	6		●			○			
	TNGA 331 PH	TNGA 160404 PH	S0635	3/8	.016	6				●				
	TNGA 332 PH	TNGA 160408 PH	S0415	3/8	.031	6	●		●					
	TNGA 332 PH	TNGA 160408 PH	S0420	3/8	.031	6							○	
	TNGA 332 PH	TNGA 160408 PH	T0420	3/8	.031	6								○
	TNGA 332 PH	TNGA 160408 PH	S0525	3/8	.031	6		●			○			
	TNGA 332 PH	TNGA 160408 PH	S0635	3/8	.031	6				●				
	TNGA 333 PH	TNGA 160412 PH	S0415	3/8	.047	6			●					
	TNGA 333 PH	TNGA 160412 PH	S0420	3/8	.047	6							○	
	TNGA 333 PH	TNGA 160412 PH	T0420	3/8	.047	6								○
TNMA 333 PH	TNMA 160412 PH	S0525	3/8	.047	6					○				
TNGA 333 PH	TNGA 160412 PH	S0635	3/8	.047	6				●					
	TPG 221 PT	TPGN 110304 PT	S0420	1/4	.016	3					○			
	TPG 222 PT	TPGN 110308 PT	S0420	1/4	.031	3					○			
	TPG 321 PT	TPGN 160304 PT	S0420	.094	.016	3					○			
	TPG 322 PT	TPGN 160308 PT	S0420	.094	.031	3					○			
	TPGW 2208 PT	TPGW 110302 PT	S0415	1/4	.008	3				○				
	TPGW 221 PT	TPGW 110304 PT	S0415	1/4	.016	3				○				
	TPGW 221 PT	TPGW 110304 PT	T0615	1/4	.016	3							○	
	TPGW 221 PT	TPGW 110304 PT	S0635	1/4	.016	3					○			
	TPGW 222 PT	TPGW 110308 PT	S0415	1/4	.031	3					○			
	TPGW 222 PT	TPGW 110308 PT	S0635	1/4	.031	3					○			
	VBGW 2208 PD	VBGW 110302 PD	S0415	1/4	.008	2				○				
	VBGW 221 PD	VBGW 110304 PD	S0415	1/4	.016	2				○				
	VBGW 332 PD	VBGW 160408 PD	S0415	3/8	.031	2				○				
	VCGW 221 PD	VCGW 110304 PD	S0415	1/4	.016	2				○				
	VCGW 221 PD	VCGW 110304 PD	S0635	1/4	.016	2					○			
	VCGW 222 PD	VCGW 110308 PD	S0415	1/4	.031	2				○				
	VCGW 222 PD	VCGW 110308 PD	S0635	1/4	.031	2					○			
	VCGW 331 PD	VCGW 160404 PD	S0415	3/8	.016	2				○				
	VCGW 331 PD	VCGW 160404 PD	S0635	3/8	.016	2					○			
	VNGA 3308 PQ	VNGA 160402 PQ	S0635	3/8	.008	4	●		●		●			
	VNGA 331 PQ	VNGA 160404 PQ	S0415	3/8	.016	4	●		●					
	VNGA 331 PQ	VNGA 160404 PQ	S0525	3/8	.016	4		●			○			
	VNGA 331 PQ	VNGA 160404 PQ	S0635	3/8	.016	4					●			
	VNGA 331 PQ	VNGA 160404 PQ	T0420	3/8	.016	4								○
	VNGA 332 PQ	VNGA 160408 PQ	S0415	3/8	.031	4	●		●					
	VNGA 332 PQ	VNGA 160408 PQ	S0525	3/8	.031	4		●			○			
	VNGA 332 PQ	VNGA 160408 PQ	S0635	3/8	.031	4					●			
VNGA 333 PQ	VNGA 160412 PQ	S0635	3/8	.047	4					●				

● : Stock ○ : 1-2 week delivery



NGK SPARK PLUG CO.,LTD. Technical Ceramics Group Cutting Tool Overseas Sales & Marketing
 2808, Iwasaki, Komaki, Aichi 485-8510, Japan Tel. ; +81-568-76-1538 Fax ; +81-568-76-1288



NGK SPARK PLUGS (U.S.A), INC. Cutting Tool Sales Office
 46929 Magellan Dr., Wixom, MI 48393 U.S.A. Tel. ; +1-248-668-0100 Fax ; +1-248-668-0200



Bujías NGK de México, S.A. DE C.V.
 Carretera Lago de Guadalupe, Km. 27.5, S/N, Bodega 3-A, Col. San Pedro Barrientos, Tlalnepantla, Estado de México, C.P. 54010
 Tel. ; +52-55-5317-5872 Fax ; +52-55-5317-5876



NGK DO BRASIL LTDA. CERAMICA E VELAS DE IGNICAO
 Rodovia Professor Alfredo Rolim de Moura(SP-88), km.61, s/n, Bairro Cocuera, Caixa Postal 2540, CEP 08780-970, Mogi das Cruzes-SP, Brasil
 Tel. ; +55-11-4793-9092 Fax ; +55-11-4793-8270



NGK SPARK PLUG EUROPE GmbH
 Harkortstr.41 40880 Ratingen, Germany Tel. ; +49-2102-974-350 Fax ; +49-2102-974-399



NGK SPARK PLUGS (U.K), LTD
 Maylands Avenue, Hemel Hempstead, Herts, HP24SD, U.K. Tel. ; +44-1442-281-071 Fax ; +44-1442-281-080



NGK SPARK PLUGS (THAILAND) CO.,LTD.
 700/864 Moo1, Panthong sub-district, Panthong District, Chonburi 20160 Thailand
 Tel. ; +66-38-185-306 Fax ; +66-38-185-316



NTK TECHNICAL CERAMICS KOREA CO.,LTD.
 680-14 Kojan-Dong, Namdong-ku Incheon, Korea Tel. ; +82-32-815-6763 Fax ; +82-32-815-6762



NGK Spark Plug (Shanghai) Co., Ltd.
 No.736 Songsheng Road Songjiang Industrial Zone, Shanghai 201613, The People's Republic of China
 Tel. ; +86-21-63857652 Fax ; +86-21-63853690



NTK Cutting Tools

Division of NGK Spark Plugs USA
 46929 Magellan Drive, Wixom, MI 48393, U.S.A.
 Phone: 248-668-0100 Fax: 248-668-0200
 Toll Free: 866-900-9800

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