

TURNING inserts – Competitive Grades and Chipbreakers



Cermet

Coated Carbide

Chipbreakers

	Uncoated	Coated	P05	P15	P25	P35	Finish	Medium	Medium To Heavy	Heavy
Tungaloy	NS9530 NS520	AT9530 GT9530	<u>T9205</u>	<u>T9215</u>	<u>T9225</u>	<u>T9235</u>	<u>TSE, TS</u> <u>PS</u>	<u>TM</u> <u>PM</u>	<u>TH, THS</u>	<u>TUS</u>
SUMITOMO	T1000A T1500A	T1500Z T2500Z	AC8015P	AC8015P AC8020P	AC8020P AC8025P	AC8035P	SU, SE, FE, SX	GU, GE UX	MU, ME MX	HG HP
MITSUBISHI	NX2525 NX3035	MP3025	MC6115	MC6115	MC6125	MC6035	LP, SH,SA	MP, MA, MH	RP, GH	HX, HR
KYOCERA	TN610 TN620	PV710, PV720 PV730, CCX	CA510	CA515	CA025P CA525	CA530	HQ PP	GS, PQ PG	PG GT	PX
SANDVIK	GC5015	GC1525	GC4305	GC4415	GC4425	GC4335	PF, QF	PM, QM	PR, MR	PR, QR
KENNAMETAL	KT6215	KT315	KCP05 KCP05B	KCP10 KCP10B	KCP25 KCP25B	KCP30 KCP30B	FN, FF	MN	RN, RP	RH, RM
SECO	TP1020	TP1030	TP0501	TP1501	TP2501	TP3501	MF2	MF5, M3	M5, MR7	R, RR
WALTER	-	WEP10C	WPP05S	WPP10S WPP10G	WPP20S WPP20G	WPP30S WPP30G	FP5	MP3, MP5	RP5, RP7	NRF, NRR
CeraTizit	TCM10	TCC410	CTCP115-P	CTCP115-P	CTCP125-P	CTCP135-P	TF, TFQ	TMQ, TMF TMM, TM	TRM, TMR	TR, TRR
ISCAR	IC20N IN30N	IC520N IC530N	IC8150	IC8150	IC8250	IC8350	F3P, NF	M3P, TF GN	R3P, NR	T3P, HT
Taegu Tec	CT3000	PV3010	TT8105B	TT8115B	TT8125B	TT8135B	FG, FC	MC, FM PC, MP	MT, MG RT	RX, RH HT, HY
KORLOY	CN1500 CN2500	CC1500 CC2500	NC3215	NC3215	NC3225	NC3030	VB, VF, VC, LP	MP, VM	GR	GH, VH, VT
ZCCCT	YNG151	YNG151C	YBC103, YBC152	YBC203, YBC152	YBC203, YBC252	YBC351 YBC352	DF	PM, DM	DR, ER	
YG1	-	-	YG1001	YG3010 YG3015	YG3020	YG3030	UF, UL	UM, UG	UC	UR

*This data is not approved by competitors.

	Cermet		Coated Carbide				Chipbreakers	
	Uncoated	Coated	P05	P15	P25	P35	Finish	Finish to medium
Tungaloy	NS9530 NS520	AT9530 GT9530	<u>T9205</u>	<u>T9215</u>	<u>T9225</u>	<u>T9235</u>	<u>PSF</u> <u>TSF</u>	<u>PS, PM</u> <u>TM</u>
SUMITOMO	T1000A T1500A	T1500Z T2500Z	AC8015P	AC8015P AC8020P	AC8020P AC8025P	AC8035P	FB, LU LB	GU, SU, MU
MITSUBISHI	NX2525 NX3035	MP3025	UE6105	MC6015	MC6025	MC6035	FP, LP	MP, MV
KYOCERA	TN610 TN620	PV710, PV720 PV730, CCX	CA510	CA515	CA025P CA525	CA530	PP, GP	HQ, GK
SANDVIK	GC5015	GC1525	GC4305	GC4415	GC4425	GC4335	PF, UF	PM, UM
KENNAMETAL	KT6215	KT315	KCP05 KCP05B	KCP10 KCP10B	KCP25 KCP25B	KCP30 KCP30B	UF, LF FP	MF, MP
SECO	TP1020	TP1030	TP0501	TP1501	TP2501	TP3501	MF2	MF3, M5
WALTER	-	WEP10C	WPP05S	WPP10S	WPP20S	WPP30S	FP4, PS5	PM5, MP4
CeraTizit	-	-	CTCP115-P	CTCP115-P	CTCP125-P	CTCP135-P	SF, SMF	SM, SMQ
ISCAR	IC20N IC30N	IC520N IC530N	IC8150	IC8150	IC8250	IC8350	PF	SM, 14
Taegu Tec	CT3000	PV3010	TT8105B	TT8115B	TT8125B	TT8135B	FG,	PC, MT
KORLOY	CN1500 CN2500	CC1500 CC2500	NC3215	NC3215	NC3225	NC3030	VL, VF	MP, HMP
ZCCCT	YNG151	YNG151C	YBC103, YBC152	YBC203, YBC152	YBC203, YBC252	YBC351	HF	HM
YG1	-	-	YG1001	YG3010 YG3015	YG3020	YG3030	UF	UG



	Coated Carbide			Chipbreakers		
	M10-20	M20-30	M30-40	Finish	Medium	Medium to Heavy
Tungaloy	<u>T6215</u> <u>AH8005</u>	<u>AH6225</u> <u>AH8015</u>	<u>AH6235</u>	<u>SF</u> <u>HRF</u>	<u>SM, SDM</u> <u>HRM</u>	<u>SH</u>
SUMITOMO	AC6020M	AC6030M	AC6040M	EF, SU	EG, EX, GU	EM
mitsubishi	MC7015	MC7025	MP7035	LM	MM, GM, MA	RM
KYOCERA	CA6515	CA6525, PR1225	PR1225	MQ	MS, MU	MS, MU
SANDVIK	GC2015, GC2220	GC2220, GC2025	GC2035	MF	MM, QM	MR, PR
KENNAMETAL	KCM15 KCM15B	KCM25 KCM25B	KCM35 KCM35B	FP, FF	MP, UP	RP
SECO	TM1501	TM1501, TM2501	TM3501, CP500	FF1	MF4, M3	M5, MR3
WALTER	WSM10S	WSM20S	WSM30S	NF4, FM5	NM4, MM5	NR4, RM5
ISCAR	IC6015, IC807	IC6025, IC807, IC808	IC6025, IC808, IC3028	F3M, SF	M3M, TF	R3M, MR
Taegu Tec	TT9215, TT5080	TT9225, TT5080, TT9080	TT9235, TT8080	SF, EA	MM, ET	MT
KORLOY	NC9115, PC8105	NC9125, PC8115	NC9135	VP2	MP, MM	RM
ZCCCT	YBM151, YBM153, YBG202	YBM251, YBG205	YBM253	EF	EM	ER
YG1	YG211	YG3030	YG213, YG214	MF	MM	MR

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	Coated Carbide			Chipbreakers	
	M10-20	M20-30	M30-40	Finish	Medium
Tungaloy	<u>T6215</u> <u>AH8005</u>	<u>AH6225</u> <u>AH8015</u>	<u>AH6235</u>	<u>PSF, PSS</u>	<u>PS, PM</u>
SUMITOMO	AC6020M	AC6030M	AC6040M	LU, LB	SU, MU
MITSUBISHI	MC7015	MC7025	MP7035	FM, LM	MM
KYOCERA	CA6515	CA6525, PR1225	PR1225	GK, HQ, MQ	
SANDVIK	GC2015, GC2220	GC2220, GC2025	GC2035	MF, UF	MM, UM
KENNAMETAL	KCM15 KCM15B	KCM25 KCM25B	KCM35 KCM35B	UF, LF	MP
SECO	TM1501	TM1501, TM2501	TM3501, CP500	F1, FF1	MF2, UX
WALTER	WSM10S	WSM20S	WSM30S	FM4, PF4,	PS4, MM4
ISCAR	IC6015, IC807	IC6025, IC807, IC808	IC6025, IC808, IC3028	PF	SM, 14
Taegu Tec	TT9215, TT5080	TT9225, TT5080, TT9080	TT9235, TT9080, TT8080	FG	MT
KORLOY	NC9115, PC8105	NC9125, PC8115	NC9135	VL	MP, HMP
ZCCCT	YBM151, YBM153, YBG202	YBM251, YBG205	YBM253	EF	EM
YG1	YG211	YG3030	YG213, YG214	UF	

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	cBN	Coated Carbide			Chipbreakers		
	High-speed machining	K05	K15	K20-K25	Finish	Medium	Medium to Heavy
Tungaloy	BX930 BX480 BX910 BXC90	<u>T505</u> T5105	<u>T515</u> T5115	T5125	CF	CM AR	CH Flat
SUMITOMO	BN7000,BN500,BNC500 BNC8115,BNS8125,BNS800	AC4010K	AC4015K	AC420K	UZ, GU	GZ	Flat, ME
MITSUBISHI	MB4120, MB710, MB730, BC5110, MBS140, (MB5015)	MC5005	MH515 MC5015	-	LK	MA, MK, GK	RK, Flat
KYOCERA	KBN475, KBN60M KBN9000	CA310 CA4505	CA315 CA4515	CA320 CA4515	KQ	KH KG, AR, Flat	
SANDVIK	CB50, CB7525, CB7925	GC3210	GC3210	GC3225	KF, XF	KM, XM	KR, XMR
KENNAMETAL	KB1345, KB5630, KBK45, KB1340,	KCK05 KCK05B	KCK15 KCK15B	KCK20 KCK20B	FN, MT	UN, RP	Flat, MA
SECO	CBN200, CBN300, CBN400C CBN500, CBN600	TK0501	TK1501	-	-	M4, M5	Flat, MR7
WALTER	WBK20, WBK30	WKK10S	WKK20S	WAK30, WKP30S	-	MK5, RK5	RK7, RP7
ISCAR	IB10K, IB10S IB90A,IB20KD, IB25KD	IC5005	IC5010	IC5010, IC8150	-	GN, M3P	NR, Flat
Taegu Tec	TB730,KB90A, TB7015,TB7020	TT7005	TT7015	TT7025	FG	MC, MG	MT, RT
KORLOY	DBN700A	NC6310,NC6315	NC6315	NC5330	MP	MK	RK, -MA
ZCCCT	YZB221, YZB231	YBD052	YBD102, YBD152	YBD252	PM	PM	Flat
YG1	-	YG1001	YG1001, YG3010	YG3010	UC	UR	-MA

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Tungaloy	cBN	Coated Carbide			Chipbreakers	
	High-speed machining	K05	K15	K20-K25	Finish	Finish to medium
Tungaloy	BX930 BX480 BX910	<u>T505</u> T5105	<u>T515</u> T5115	T5125	<u>CM, Flat-top</u>	
SUMITOMO	BN7000, BNC500	AC4010K	AC4015K	AC420K	MU, Flat-top	
MITSUBISHI	MB4120, MB710, MB730, BC5110, (MB5015)	MC5005	MH515, MC5015	-	MK, MV, Flat-top	
KYOCERA	KBN475, KBN60M	CA310 CA4505	CA315 CA4515	CA320 CA4515	GK, HQ, Flat-top	
SANDVIK	CB50, CB7525	GC3210	GC3210	GC3225	KF, XF	KM, KR
KENNAMETAL	KB1345, KB5630	KCK05 KCK05B	KCK15 KCK15B	KCK20 KCK20B	UF, LF	MF, MP
SECO	CBN200, CBN300 CBN500	TK0501	TK1501	-	M5	
WALTER	WBK20	WKK10S	WKK20S	WAK30, WKP30S	FK6 , MK4	RK4 , RK6
ISCAR	IB10K, IB10S	IC5005	IC5010	IC5010, IC8150	14	
Taegu Tec	TB730,KB90A, TB7015,TB7020	TT7005	TT7015	TT7025	PC, MT	
KORLOY	DBN700A	NC6310,NC6315	NC6315	NC5330	MP	C25
ZCCCT	-	YBD052	YBD102, YBD152	YBD252	HM, HR, Flat	
YG1	-	YG1001	YG1001, YG3010	YG3010	UG	

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	Coated Carbide				Chipbreakers	
	cBN	S05	S15	S25	Finish	Medium
Tungaloy	<u>BX815</u> BX470, BX480	<u>AH8005</u> T6215	<u>AH8015</u> AH6225	AH7025 AH6225	<u>HRF</u> SF	<u>HRM</u> SM, SDM
SUMITOMO	BN7000, NCB100	AC5005S	AC5015S, AC5025S	AC5025S	EF, EX, SU	EG, EM, GU
MITSUBISHI	MB730 MB8025	MV9005, MP9005	MP9015	MP9025	LS	MS, RS, MA
KYOCERA	-	PR005S PR1305	PR015S PR1310	PR1535 PR1325	SQ, MQ	SG, MU
SANDVIK	-	GC1105 S205, S05F	GC1115	GC1125	MF, SF	SM, UM
KENNAMETAL	KB5630	KCU10, KCS10B	KCU10, KCS10B	KCU25	FS	MS, UP
SECO	CBN170	TS2000	TS2000, TS2500	TS2500	MF1	MF4, M1
WALTER	WBS10	WSM10S	WSM20S	WSM30S	NFT, NF4, NMS	NMT, NMS, NRS
ISCAR	TS07, IB05S	IC806	IC806, IC807 IC907	IC807, IC808 IC908	PP, PF, TF	
Taegu Tec	TB730	TT3005, TT3010	TT3020	TT3020	EA, SF	EM, ET
KORLOY	DB7000	PC8105	PC8110, PC8115 NC9125	NC9135	VP1, VP2	VP3, VP4
ZCCCT	-	YBG102 YBS103	YBG202 YBS103, YBG105	YBG202 YBG105	NF, NGF	NM
YG1	-	YG211	YG213	YG214	MF	MM

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	cBN	Coated Carbide			Chipbreakers	
	S01	S05	S15	S25	Finish	Finish to medium
Tungaloy	BX815 BX470,BX480	<u>AH8005</u> T6215	<u>AH8015</u> AH6225	AH7025 AH6225	<u>PSF, PSS</u>	<u>PS</u>
SUMITOMO	BN7000, NCB100	AC5005S	AC5015S, AC5025S	AC5025S	SI, SU, GU, FX, FY	
MITSUBISHI	MB730 (MB8025)	MV9005, MP9005	MP9015	MP9025	LS, FS	MS
KYOCERA	-	PR005S PR1305	PR015S PR1310	PR1535 PR1325	SQ, MQ	SG, MU
SANDVIK	-	GC1105 S205, S05F	GC1115	GC1125	MF, SF	SM, UM
KENNAMETAL	KB5630	KCU10, KCS10B	KCU10, KCS10B	KCU25	LF, HP	LF, MT
SECO	CBN170	TS2000	TS2000, TS2500	TS2500	F1,	MF2
WALTER	WBS10	WSM10S	WSM20S	WSM30S	FM4	MM4, RM4
ISCAR	TS07, IB05S	IC806	IC806, IC807 IC907	IC807, IC808 IC908	SM, PF	
Taegu Tec	TB730	TT3005, TT3010	TT3020	TT3020	FG	MT
KORLOY	DB7000	PC8105	PC8110, PC8115 NC9125	NC9135	VP1, VL	MP
ZCCCT	-	YBG102 YBS103	YBG202 YBS103, YBG105	YBG202 YBG105	NGF	
YG1	-	YG211	YG213	YG214	UF	

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	H10		H15-H20		H30		Sintered alloy
	Uncoated	Coated	Uncoated	Coated	Uncoated	Coated	
Tungaloy	BX310 BX330	BXM10 BXA10	BX330 BX360	BXM20 BXA20	BX380 BX940	BXC50	BX470, BX480
SUMITOMO	BN1000 BNX10	BNC2115, BNC2010 BNC100, BNC160	BN2000 BNX20	BNC2125, BNC2020, BNC200	BN350	BNC300	BN7115, BN7500 BN7000
MITSUBISHI	MB8110, (MB810)	BC8105, BC8110 (MBC010)	MB8120, (MB825)	BC8120 MBC020	MB8130, (MB835)	BC8130	MB4020, MB4120
KYOCERA	KBN510	KBN05M KBN10M	KBN525	KBN25M	-	KBN35M	KBN70M KBN570
SANDVIK	CB20	CB7015	CB20, CB7025	-	CB7050		-
KENNAMETAL	-	KBH10	-	KBH20	-	KB5630	-
SECO	CBN010	CH0550	CBN150, CBN200	CH2540, CBN060K	-	CH3515	-
WALTER	WBH10	WBH10C	WBH20	-	WBH30		-
ISCAR	IB05H, IB10H	IB10HC	IH10H, IH20H	IB20HC, IB22HC IB25HA	IB25H	IB25HC	IB05S, IB10S
Taegu Tec	TB610	-	TB650, TB670, TB2015	-	-		KB90
KORLOY	DB1000, KB410	DNC100	DB2000, DBNX20, DBN250	DNC250, DNC400	DBN350	DNC350	WCB80
ZCCCT	YCB111		YCB121, YZB121	-	YCB131		KB370
-YG1	-	-	-	-	-		-

*This data is not approved by competitors. **Low cutting speed machining of sintered material : AH8005, AH8015, AH110, AH120
 Continuous machining of sintered material : LX11, NS9530

	N01-N10		N10-N20		N20-N30
	PCD	Uncoated	PCD	Uncoated	PCD
Tungaloy	DX180 DX160	KS05F TH10	DX140 DX120, DX110	KS15F TH10	DX110
SUMITOMO	DA90, DA150, DA1000	H1	DA150, DA1000	H1	DA1000
MITSUBISHI	(MD205), MD220	HTi10	MD220	HTi10	(MD230), (MD2030)
KYOCERA	KPD230	KW10	KPD010, KPD230	GW15	KPD001
SANDVIK	CD05	H10	CD10	H10F, H13A	CD1810
KENNAMETAL	KD1400, KD1425	K313	KD1425	K715	-
SECO	PCD05, PCD10	890	PCD05, PCD20	890	PCD30
WALTER	-	WK1	WCD10	WK10	-
ISCAR	-	IC20	ID5	IC20	-
Taegu Tec	TD810	K10	KP300,TD810	K10	TB830
KORLOY	DP90, DP150, DP200	H01	DP90, DP150, DP200	H05	DP200
ZCCCT	-	-	YCD011	YD101, YD201	YCD011
-YG1	-	-	--	YG10	-

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Chipbreakers (Negative insert)

Chipbreakers (Positive insert)

	Finish	Finish to Medium		Finish	Finish to Medium
Tungaloy	<u>FW</u> AFW	<u>SW</u> ASW		<u>SW</u>	
SUMITOMO	LUW SEW	GUW		LUW	SDW
MITSUBISHI	SW	MW		SW	MW
KYOCERA	WE, WP	WF, WQ		WP	WP
SANDVIK	WL WF	WMX WM		WF	WM
KENNAMETAL	FW	MW RW		FW	MW
SECO	W-FF2 W-MF1	W-M6 W-M3		W-F1	W-MF2 W-M3
WALTER	NF	NM		PF	PM
ISCAR	WF	WG		WF	WG
Taegu Tec	WS	WT		WT	

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*When you use the wiper, correction of the program may be necessary.



	Cermet		Coated Carbide		Chipbreakers	
	Uncoated	Coated	P/M/S,05-15	P/M/S, 15-25	Finish	Finish to medium
Tungaloy	<u>NS9530</u> <u>NS520</u>	<u>J9530</u>	<u>SH725</u> <u>SH730</u>	<u>SH725</u>	<u>01</u>	<u>JS</u>
SUMITOMO	T1000A T1500A	T1500Z	AC520U, AC1030U	AC1030U	FC	SI
MITSUBISHI	NX2525	MP3025	MS6015 VP15TF MP9005, MP9015	MS6015	FS-P	LS-P SMG
KYOCERA	TN610 TN620	PV710 PV720 PV730	PR1705, PR1725 PR1225 PR930	PR1535	CF SKS	GF GQ SK
NTK			VM1, TM4 DT4 QM3	ST4	AMX	YL AM3
SANDVIK	GC5015	GC1525	GC1105, GC1115	GC1125		UM
KENNAMETAL		K315	KC5010, KCU10	KC5010		HP
SECO		TP1020	TS2050	CP500		F1
ARNO	AP6010	ACE6	AL10, AM5010 AL20 AM5020	AL20 AM5025	AEC ASF	PS ACB ALU
ISCAR			IC908 IC803	IC908 IC803		WF PF
Taegu Tec	CT300	PV3010	TT4410	TT4430	SL-F	SM-F SH-F
KORLOY	CN1500	CC1500	PC8110, PC5300	PC5300	FS	MS
ZCCCT	HT	HC2	YBG102, YBG202	YBG202	LH	USF
APPLITEC			TiALN TiN HTA	TiALN TiN HTA	FN-X8/17/25	FNP-X8/17/25

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