

Series

Appearance	Model Number	Page	Coating	Number of Flutes	Size	Use	Material Applications (☆ Highly Recommended ◎ Recommended ○ Suggested)													Characteristics			
							Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels			Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium		Heat Resistant Steels	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
										55C	SK 55C	30~45 HRC NAK HPM											

UTCOAT																				
	CSS	58	UT COAT	2	φ1 ~ φ12		◎	◎	◎	◎			○	○	◎			○	○	Recommended for part and mold milling. Up-graded series of C-CES offering better chip evacuation.
	C-CES2000	62	UT COAT	2	φ0.1 ~ φ20		◎	◎	◎	○			○		◎			○	○	Value for the price and excellent surface finish.
	C-CES2000S	70	UT COAT	2	φ0.2 ~ φ12		◎	◎	◎	○			○		◎			○	○	Value for the price and excellent surface finish with a sharp corner design.
	CZS	82	UT COAT	4	φ1 ~ φ20		◎	◎	◎	○			○	○	◎			○	○	Special tip geometry with variable pitch offers vertical milling function. 4 flute square type for high efficient milling.
	C-CES4000	88	UT COAT	4	φ1 ~ φ20		◎	◎	◎	○			○		◎			○	○	Value for the price and excellent surface finish.
	C-CES4000S	92	UT COAT	4	φ1 ~ φ12		◎	◎	◎	○			○		◎			○	○	Value for the price and excellent surface finish with a sharp corner design.
	CXS ●	146	UT COAT	4	φ1 ~ φ12		◎	◎	◎	○			○		◎			○	○	Variable pitch and lead design control vibration and chattering. Recommend for high efficient part milling.
	C-CER	114	UT COAT	2	φ0.2 ~ φ6		◎	◎	◎	○			○		◎			○	○	Positive cutting flute design offers excellent surface finish.
	C-CRS	150	UT COAT	2	φ1 ~ φ20		◎	◎	◎	○			○		◎			○	○	Standard 2 flute radius end mill.
	CNRS	154	UT COAT	4	φ6 ~ φ12		◎	◎	◎	○			○	○	◎			☆	☆	Provides high feed and efficient milling on hard -to-cut materials.
	CRRS	202	UT COAT	4	φ2 ~ φ12		◎	◎	◎	○			○	○	◎			◎	◎	Variable pitch and back taper design control chattering and perform well on hard -to-cut materials.
	CSEB ●	222	UT COAT	2	R0.1 ~ R6		◎	◎	◎	○			○	○	◎			○	○	New UTCOAT. Broad application range from raw materials to 55HRC.
	CFB	230	UT COAT	3	R0.3 ~ R6		◎	◎	◎	○			○	◎	◎			◎	◎	3 flute design with variable pitch promotes high efficient milling.
	CSELB ●	276	UT COAT	2	R0.1 ~ R3		◎	◎	◎	○			○	○	◎			○	○	New UTCOAT. Broad application range from raw materials to 55HRC.
	CFLB	298	UT COAT	3	R0.3 ~ R3		◎	◎	◎	○			○	◎	◎			◎	◎	3 flute long neck design with variable pitch promotes high efficient milling.
	C-CTE2000	312	UT COAT	2	φ0.2 ~ φ2.5		◎	◎	◎	○			○		○					Wide range with 30°~15° half included angle.
	C-CTE4000	316	UT COAT	4	φ3 ~ φ10		◎	◎	◎	○			○		○					Wide range with 30°~7° half included angle.

● New Product ● Additional Model ● New Price ※1 Not recommended for Tungsten Copper. ※2 ~65HRC ※3 ~68HRC

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						Roughing	Semi-Finishing	Finishing	Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels			Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics		Glass Filled Plastics	Titanium	Heat Resistant Steels	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
												545C	555C	SCM SUS											
UT HARD																									
	C-CHRS	206	TiAlN COAT	6	φ6 ~ φ12				◎	○	◎	◎	○										Long rigid neck with a tip designed for hard milling.		
For Cemented Carbide Milling																									
	UDCB	208	UDC COAT	2	R0.1 ~ R3												○			☆	◎	Special Diamond coated tool for milling Cemented Carbide and Hard Brittle materials.			
	UDCLB	244	UDC COAT	2	R0.1 ~ R3												○			☆	◎	Special Diamond coated tool for milling Cemented Carbide and Hard Brittle materials.			
	UDCLRS	158	UDC COAT	2	φ0.3 ~ φ2												○			☆	◎	Special Diamond coated tool for milling Cemented Carbide and Hard Brittle materials.			
	UDCMX	322	UDC COAT	2	φ0.4 ~ φ3.5												◎			☆	◎	Special Diamond coated tool for drilling Cemented Carbide and Hard Brittle materials.			
	UDCT	324	UDC COAT	2	M2 ~ M4												○			☆	◎	Thread Mills.			
cBN																									
	CBN-LB	292	Non-Coat	2	R0.1 ~ R0.5					○	◎	◎	◎ _{※3}									cBN offers long life on hard milling.			
	CBN-LR	182	Non-Coat	2	φ0.5 ~ φ1					○	◎	◎	◎ _{※3}									cBN offers long life on hard milling.			
For Copper Milling																									
	CRN-ES2000	74	CrN COAT	2	φ0.2 ~ φ12											○		☆ _{※1}	○			CrN coating provides longer tool life and excellent surface finish.			
	CRN-ES4000	94	CrN COAT	4	φ3 ~ φ12											○		☆ _{※1}	○			CrN coating provides longer tool life and excellent surface finish.			
For Aluminum Milling																									
	CAS	80	Non-Coat	2	φ0.5 ~ φ12														☆	○		Sharp corner square type for Aluminum provides excellent surface finish.			
	AZS	136	Non-Coat	3	φ1 ~ φ12														☆	○	○	3 flute end mill with vertical milling capability.			
	DLC-AZS	139	DLC COAT	3	φ1 ~ φ12														☆	○	○	3 flute square type end mills with a drilling function for Aluminum milling.			
For Plastic Milling																									
	CPS	78	Non-Coat	2	φ0.3 ~ φ12											○	◎	☆				Provides excellent finishing accuracy on Plastics milling.			
	CPR	128	Non-Coat	2	φ0.5 ~ φ6											○	◎	☆				Long neck square for deep slotting on Plastics.			
	CPRL	132	Non-Coat	2	φ0.5 ~ φ4											○	◎	☆				Long neck square with long shank for deep slotting on Plastics.			
	CPRB	294	Non-Coat	2	R0.2 ~ R3											○	◎	☆				Long neck ball for deep slotting on Plastics.			

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