

4 Flutes UTCOAT



Size $\phi 1 \sim \phi 12$

CXS

Super
MG

UT
COAT

37°~40°

Flatland

Shank Dia
0/-0.005

Variable
Pitch

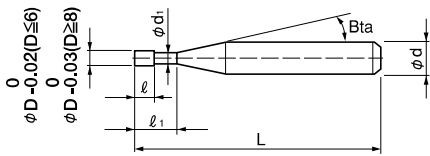
Variable
Helix

Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

Work Material																	
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels					Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
●	●	●	●	○				○			●			○	○		

Features

Variable Pitch & Helix design minimizes vibration and chattering.
 Selected high toughness and chip resistant carbide material.
 Optimized flute design offers outstanding high efficiency milling and fine finishing.
 Low friction coating resulting in excellent chip evacuation and resistance to wear.



The shank taper angle shown is not an exact value and to avoid contact with the work piece, we recommend the user controls the precise value of this angle. Shank taper angle should not make contact with the work piece.

Total 33 models

Unit (mm)

Model Number	Outside Diameter ϕD	Effective Length l_1	Length of Cut l	Neck Diameter ϕd_1	Shank Taper Angle Bta	Overall Length L	Shank Diameter ϕd	Suggested Retail Price ¥	Effective Length by Inclined Angles				
									30'	1°	1°30'	2°	3°
CXS 4010-030	1	3	1.5	0.96	16°	50	4	6,520	3.25	3.35	3.47	3.59	3.86
CXS 4010-050		5							5.31	5.48	5.67	5.87	6.31
CXS 4010-060		6							6.34	6.55	6.77	7.00	7.53
CXS 4015-045	1.5	4.5	2.25	1.46	16°	50	4	6,520	4.66	4.81	4.97	5.15	5.53
CXS 4015-070		7							7.23	7.47	7.72	7.99	8.59
CXS 4015-085		8.5							8.78	9.07	9.37	9.70	10.43
CXS 4020-060	2	6	3	1.94	16°	50	4	6,100	6.24	6.44	6.66	6.89	7.41
CXS 4020-090		9							9.33	9.64	9.96	10.31	11.08
CXS 4020-110		11							11.40	11.77	12.16	12.59	13.53
CXS 4025-075	2.5	7.5	3.75	2.44	16°	50	4	6,100	7.79	8.04	8.31	8.60	9.25
CXS 4025-110		11							11.40	11.77	12.16	12.59	13.53
CXS 4025-135		13.5							13.97	14.43	14.91	15.43	No Interference

- φ3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
- Long Neck Square
- Radius
- Long Neck Radius
- Taper Neck Radius
- Ball / Long Shank Ball
- Long Neck Ball
- Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data

Unit (mm)

Model Number	Outside Diameter ϕD	Effective Length ℓ_1	Length of Cut ℓ	Neck Diameter ϕd_1	Shank Taper Angle β	Overall Length L	Shank Diameter ϕd	Suggested Retail Price ¥	Effective Length by Inclined Angles				
									30°	1°	1°30'	2°	3°
CXS 4030-090	3	9	4.5	2.95	16°	50	6	7,000	9.34	9.64	9.97	10.31	11.09
CXS 4030-130		13				70	6	7,430	13.46	13.90	14.37	14.87	15.98
CXS 4030-160		16				70	6	7,630	16.56	17.10	17.67	18.28	19.65
CXS 4040-120	4	12	6	3.86	16°	50	6	7,350	12.61	13.02	13.46	13.92	14.97
CXS 4040-170		17				70	6	7,800	17.76	18.34	18.96	19.62	No Interference
CXS 4040-210		21				70	6	8,010	21.89	22.60	23.36	24.17	No Interference
CXS 4050-150	5	15	7.5	4.86	16°	50	6	7,900	15.70	16.21	16.76	No Interference	No Interference
CXS 4050-210		21				70	6	8,380	21.89	22.60	No Interference	No Interference	No Interference
CXS 4050-260		26				70	6	8,610	27.05	27.93	No Interference	No Interference	No Interference
CXS 4060-180	6	18	9	5.86	—	50	6	8,500	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4060-260		26				70	6	9,020	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4060-320		32				70	6	9,270	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4080-240	8	24	12	7.82	—	60	8	10,500	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4080-340		34				90	8	11,140	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4080-420		42				90	8	11,450	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4100-300	10	30	15	9.82	—	70	10	12,500	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4100-420		42				100	10	13,270	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4100-520		52				100	10	13,630	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4120-360	12	36	18	11.82	—	90	12	17,800	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4120-520		52				110	12	18,880	No Interference	No Interference	No Interference	No Interference	No Interference
CXS 4120-620		62				110	12	19,400	No Interference	No Interference	No Interference	No Interference	No Interference

4 Flutes

$\phi 3$ mm Shank V Series

UDC-PCD Series

CBN Series

Square
Long Neck Square

Radius

Radius
Long Neck Radius
Taper Neck Radius

Ball / Long Shank Ball

Ball
Long Neck Ball
Taper Neck Ball

Taper

Barrel

Spiral V Cutter

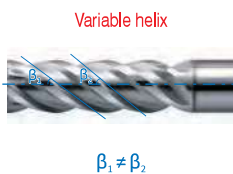
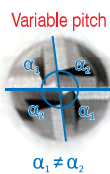
Drill

Technical Data

4 Flutes Square Variable Pitch and Helix 3 series

Features	Model Number	Appearance	Coating	Size	Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels					Aluminum Alloys	Titanium Alloys	Page
								~50 HRC	~55 HRC	~60 HRC	~65 HRC	~70 HRC			
High Efficiency	CXES All flute		UT COAT	$\phi 1 \sim \phi 16$	●	●	●	●	○					○	216
High Efficiency	CXS Long Neck		UT COAT	$\phi 1 \sim \phi 12$	●	●	●	●	○					○	294
High Efficiency for SUS	CESUS All flute		UTS COAT	$\phi 6 \sim \phi 12$	●	★	○							○	228

(★ Highly Recommended ● Recommended ○ Suggested)



Minimizes chattering

Stable milling under highly efficient conditions

Milling Conditions for CXS

Side Milling

- φ3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
- Long Neck Square
- Radius
- Long Neck Radius
- Taper Neck Radius
- Ball / Long Shank Ball
- Long Neck Ball
- Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data

WORK MATERIAL			CARBON STEELS S45C / S50C Annealed Materials (~225HB)				ALLOY STEELS SK / SCM Annealed Materials (225~325HB)				STAINLESS STEELS SUS304 Use water soluble or oil coolant.			
Model Number	Outside Diameter (mm)	Effective Length (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a _p Axial Depth (mm)	a _e Radial Depth (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a _p Axial Depth (mm)	a _e Radial Depth (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a _p Axial Depth (mm)	a _e Radial Depth (mm)
4010-030	1	3	18,000	780	1	0.3	18,000	600	1	0.3	14,500	400	1	0.3
4010-050		5	18,000	780	1	0.23	15,330	520	1	0.23	12,570	350	1	0.23
4010-060		6	18,000	780	1	0.2	14,000	480	1	0.2	11,600	320	1	0.2
4015-045	1.5	4.5	13,500	970	1.5	0.45	13,500	750	1.5	0.45	13,300	420	1.5	0.45
4015-070		7	13,500	970	1.5	0.36	11,810	660	1.5	0.36	11,610	360	1.5	0.36
4015-085		8.5	13,500	970	1.5	0.3	10,800	600	1.5	0.3	10,600	330	1.5	0.3
4020-060	2	6	11,000	1,170	2	0.6	11,000	900	2	0.6	12,200	450	2	0.6
4020-090		9	11,000	1,170	2	0.48	9,680	790	2	0.48	10,730	400	2	0.48
4020-110		11	11,000	1,170	2	0.4	8,800	720	2	0.4	9,750	360	2	0.4
4025-075	2.5	7.5	9,500	1,180	2.5	0.75	9,500	900	2.5	0.75	11,000	550	2.5	0.75
4025-110		11	9,500	1,180	2.5	0.6	8,390	800	2.5	0.6	9,720	490	2.5	0.6
4025-135		13.5	9,500	1,180	2.5	0.5	7,600	720	2.5	0.5	8,800	440	2.5	0.5
4030-090	3	9	8,500	1,200	3	0.9	8,500	900	3	0.9	10,000	640	3	0.9
4030-130		13	8,500	1,200	3	0.73	7,530	800	3	0.73	8,860	570	3	0.73
4030-160		16	8,500	1,200	3	0.6	6,800	720	3	0.6	8,000	510	3	0.6
4040-120	4	12	7,200	1,350	4	1.2	6,700	1,000	4	1.2	7,500	730	4	1.2
4040-170		17	7,200	1,350	4	0.98	5,920	890	4	0.98	6,670	650	4	0.98
4040-210		21	7,200	1,350	4	0.8	5,300	800	4	0.8	6,000	580	4	0.8
4050-150	5	15	6,000	1,500	5	1.5	5,400	1,100	5	1.5	5,400	810	5	1.5
4050-210		21	6,000	1,500	5	1.23	4,800	980	5	1.23	4,800	720	5	1.23
4050-260		26	6,000	1,500	5	1	4,300	880	5	1	4,300	640	5	1
4060-180	6	18	5,000	1,600	6	1.8	4,500	1,200	6	1.8	4,500	810	6	1.8
4060-260		26	5,000	1,600	6	1.46	3,990	1,060	6	1.46	3,990	710	6	1.46
4060-320		32	5,000	1,600	6	1.2	3,600	960	6	1.2	3,600	640	6	1.2
4080-240	8	24	3,000	1,300	8	2.4	2,900	1,050	8	2.4	2,900	720	8	2.4
4080-340		34	3,000	1,300	8	1.96	2,570	930	8	1.96	2,570	640	8	1.96
4080-420		42	3,000	1,300	8	1.6	2,300	840	8	1.6	2,300	570	8	1.6
4100-300	10	30	1,600	1,000	10	3	1,500	900	10	3	1,500	580	10	3
4100-420		42	1,600	1,000	10	2.45	1,340	800	10	2.45	1,340	510	10	2.45
4100-520		52	1,600	1,000	10	2	1,200	720	10	2	1,200	460	10	2
4120-360	12	36	1,200	800	12	3.6	1,200	750	12	3.6	1,200	540	12	3.6
4120-520		52	1,200	800	12	2.86	1,050	660	12	2.86	1,050	470	12	2.86
4120-620		62	1,200	800	12	2.4	950	600	12	2.4	950	430	12	2.4

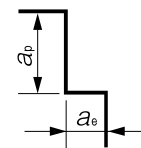
Milling Conditions for CXS

4 Flutes

WORK MATERIAL			PREHARDENED STEELS HPM / NAK (30~45HRC)				HARDENED STEELS SKD / SKT / STAVAX (45~55HRC)			
Model Number	Outside Diameter (mm)	Effective Length (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a_p Axial Depth (mm)	a_e Radial Depth (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a_p Axial Depth (mm)	a_e Radial Depth (mm)
4010-030	1	3	12,900	400	1	0.3	12,900	180	1	0.15
4010-050		5	11,170	350	1	0.23	12,900	180	1	0.12
4010-060		6	10,300	320	1	0.2	12,900	180	1	0.1
4015-045	1.5	4.5	10,500	500	1.5	0.45	9,500	280	1.5	0.225
4015-070		7	9,190	440	1.5	0.36	9,500	280	1.5	0.18
4015-085		8.5	8,400	400	1.5	0.3	9,500	280	1.5	0.15
4020-060	2	6	9,350	560	2	0.6	8,200	390	2	0.3
4020-090		9	8,210	490	2	0.48	8,200	390	2	0.24
4020-110		11	7,450	440	2	0.4	8,200	390	2	0.2
4025-075	2.5	7.5	8,300	610	2.5	0.75	7,800	510	2.5	0.375
4025-110		11	7,340	530	2.5	0.6	7,800	510	2.5	0.3
4025-135		13.5	6,650	480	2.5	0.5	7,800	510	2.5	0.25
4030-090	3	9	7,400	630	3	0.9	7,400	630	3	0.45
4030-130		13	6,540	560	3	0.73	7,400	630	3	0.36
4030-160		16	5,900	500	3	0.6	7,400	630	3	0.3
4040-120	4	12	5,900	650	4	1.2	5,900	650	4	0.6
4040-170		17	5,230	580	4	0.98	5,900	650	4	0.49
4040-210		21	4,700	520	4	0.8	5,900	650	4	0.4
4050-150	5	15	4,800	680	5	1.5	4,800	670	5	0.75
4050-210		21	4,250	600	5	1.23	4,800	670	5	0.61
4050-260		26	3,800	540	5	1	4,800	670	5	0.5
4060-180	6	18	4,000	680	6	1.8	4,000	680	6	0.9
4060-260		26	3,540	600	6	1.46	4,000	680	6	0.73
4060-320		32	3,200	540	6	1.2	4,000	680	6	0.6
4080-240	8	24	2,500	600	8	2.4	2,500	630	8	1.2
4080-340		34	2,220	530	8	1.96	2,500	630	8	0.98
4080-420		42	2,000	480	8	1.6	2,500	630	8	0.8
4100-300	10	30	1,500	430	10	3	1,500	570	10	1.5
4100-420		42	1,340	380	10	2.45	1,500	570	10	1.23
4100-520		52	1,200	340	10	2	1,500	570	10	1
4120-360	12	36	1,000	320	12	3.6	1,200	530	12	1.8
4120-520		52	880	280	12	2.86	1,200	500	12	1.43
4120-620		62	800	250	12	2.4	1,200	480	12	1.2

- Ø3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
 - Long Neck Square
- Radius
 - Long Neck Radius
 - Taper Neck Radius
- Ball
 - Ball / Long Shank Ball
 - Long Neck Ball
 - Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data

Side Milling



Milling Conditions for CXS

Slotting

WORK MATERIAL			CARBON STEELS S45C / S50C Annealed Materials (~225HB)			ALLOY STEELS SK / SCM Annealed Materials (225~325HB)			STAINLESS STEELS SUS304 Use water soluble or oil coolant.		
Model Number	Outside Diameter (mm)	Effective Length (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a _p Axial Depth (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a _p Axial Depth (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a _p Axial Depth (mm)
4010-030	1	3	18,000	300	1	18,000	300	1	14,500	280	0.5
4010-050		5	18,000	300	0.67	15,330	260	0.67	12,570	240	0.37
4010-060		6	18,000	300	0.5	14,000	240	0.5	11,600	220	0.3
4015-045	1.5	4.5	13,500	450	1.5	13,500	400	1.5	13,300	300	0.75
4015-070		7	13,500	450	1.03	11,810	350	1.03	11,610	260	0.56
4015-085		8.5	13,500	450	0.75	10,800	320	0.75	10,600	240	0.45
4020-060	2	6	11,000	600	2	11,000	400	2	12,200	320	1
4020-090		9	11,000	600	1.4	9,680	350	1.4	10,730	280	0.76
4020-110		11	11,000	600	1	8,800	320	1	9,750	250	0.6
4025-075	2.5	7.5	9,500	600	2.5	9,500	400	2.5	11,000	340	1.25
4025-110		11	9,500	600	1.77	8,390	350	1.77	9,720	300	0.96
4025-135		13.5	9,500	600	1.25	7,600	320	1.25	8,800	270	0.75
4030-090	3	9	8,500	600	3	8,500	400	3	10,000	360	1.5
4030-130		13	8,500	600	2.57	7,530	350	2.14	8,860	310	1.16
4030-160		16	8,500	600	2.25	6,800	320	1.5	8,000	280	0.9
4040-120	4	12	7,200	650	4	6,700	450	4	7,500	400	2
4040-170		17	7,200	650	3.44	5,920	400	2.89	6,670	360	1.56
4040-210		21	7,200	650	3	5,300	360	2	6,000	320	1.2
4050-150	5	15	6,000	700	5	5,400	500	5	5,400	460	2.5
4050-210		21	6,000	700	4.32	4,800	450	3.64	4,800	410	1.95
4050-260		26	6,000	700	3.75	4,300	400	2.5	4,300	360	1.5
4060-180	6	18	5,000	700	6	4,500	500	6	4,500	460	3
4060-260		26	5,000	700	5.14	3,990	440	4.29	3,990	400	2.31
4060-320		32	5,000	700	4.5	3,600	400	3	3,600	360	1.8
4080-240	8	24	3,000	500	8	2,900	360	8	2,900	360	4
4080-340		34	3,000	500	6.89	2,570	320	5.78	2,570	320	3.11
4080-420		42	3,000	500	6	2,300	280	4	2,300	280	2.4
4100-300	10	30	1,600	380	10	1,500	270	10	1,500	220	5
4100-420		42	1,600	380	8.64	1,340	240	7.27	1,340	190	3.91
4100-520		52	1,600	380	7.5	1,200	210	5	1,200	170	3
4120-360	12	36	1,200	300	12	1,200	210	12	1,200	180	6
4120-520		52	1,200	300	10.15	1,050	180	8.31	1,050	160	4.52
4120-620		62	1,200	300	9	950	160	6	950	140	3.6

- φ3mm Shank V Series
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Milling Conditions for CXS

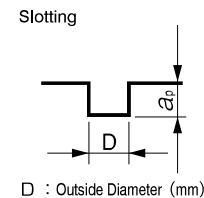
4 Flutes

WORK MATERIAL			PREHARDENED STEELS HPM / NAK (30~45HRC)			HARDENED STEELS SKD / SKT / STAVAX (45~55HRC)		
Model Number	Outside Diameter (mm)	Effective Length (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a_p Axial Depth (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	a_p Axial Depth (mm)
4010-030	1	3	12,900	170	1	12,900	60	0.25
4010-050		5	11,170	140	0.67	setting disable	setting disable	setting disable
4010-060		6	10,300	130	0.5	setting disable	setting disable	setting disable
4015-045	1.5	4.5	10,500	230	1.5	9,500	120	0.375
4015-070		7	9,190	200	1.03	setting disable	setting disable	setting disable
4015-085		8.5	8,400	180	0.75	setting disable	setting disable	setting disable
4020-060	2	6	9,350	280	2	8,200	180	0.5
4020-090		9	8,210	240	1.4	setting disable	setting disable	setting disable
4020-110		11	7,450	220	1	setting disable	setting disable	setting disable
4025-075	2.5	7.5	8,300	300	2.5	7,800	270	0.625
4025-110		11	7,340	270	1.77	setting disable	setting disable	setting disable
4025-135		13.5	6,650	240	1.25	setting disable	setting disable	setting disable
4030-090	3	9	7,400	320	3	7,400	360	1.5
4030-130		13	6,540	280	2.14	setting disable	setting disable	setting disable
4030-160		16	5,900	250	1.5	setting disable	setting disable	setting disable
4040-120	4	12	5,900	390	4	5,900	380	2
4040-170		17	5,230	350	2.89	setting disable	setting disable	setting disable
4040-210		21	4,700	310	2	setting disable	setting disable	setting disable
4050-150	5	15	4,800	440	5	4,800	410	2.5
4050-210		21	4,250	390	3.64	setting disable	setting disable	setting disable
4050-260		26	3,800	350	2.5	setting disable	setting disable	setting disable
4060-180	6	18	4,000	440	6	4,000	440	3
4060-260		26	3,540	390	4.29	setting disable	setting disable	setting disable
4060-320		32	3,200	350	3	setting disable	setting disable	setting disable
4080-240	8	24	2,500	390	8	2,500	340	4
4080-340		34	2,220	350	5.78	setting disable	setting disable	setting disable
4080-420		42	2,000	310	4	setting disable	setting disable	setting disable
4100-300	10	30	1,500	220	10	1,500	240	5
4100-420		42	1,340	190	7.27	setting disable	setting disable	setting disable
4100-520		52	1,200	170	5	setting disable	setting disable	setting disable
4120-360	12	36	1,000	180	12	1,200	220	6
4120-520		52	880	160	8.31	setting disable	setting disable	setting disable
4120-620		62	800	140	6	setting disable	setting disable	setting disable

Contact our sales when milling hardened steels with L/D=5 or longer effective length tools.

Note:

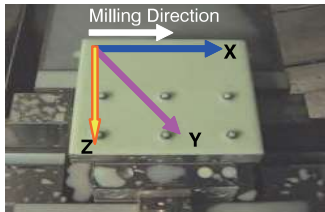
- Decrease both spindle speed and feed rate proportionally in case of chattering.
- These milling parameters are calculated based on the shortest overhang length. Longer overhangs may require an adjustment to the milling parameters.
- Reduce the milling amount and feed rate in accordance with required milling precision.
- Every coolant offers stable milling.
- Recommend water soluble or oil coolant for Stainless Steels and Copper.



- φ3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
 - Long Neck Square
- Radius
 - Long Neck Radius
 - Taper Neck Radius
- Ball / Long Shank Ball
 - Long Neck Ball
 - Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data

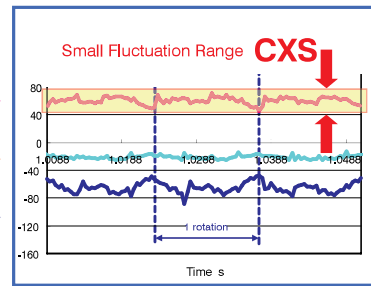
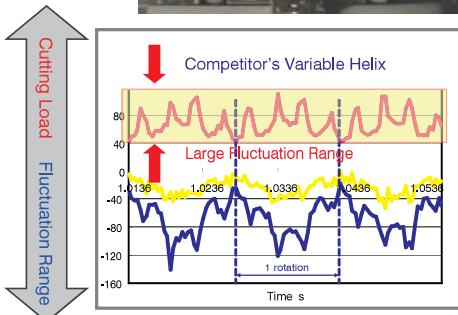
Cutting Load Comparison CXS ϕ 8

SKD61 (50HRC)



◆Milling Conditions

Spindle Speed	4,200 min ⁻¹
Feed Rate	770 mm/min
a_p	8 mm
a_e	0.3 mm
Coolant	Water Soluble



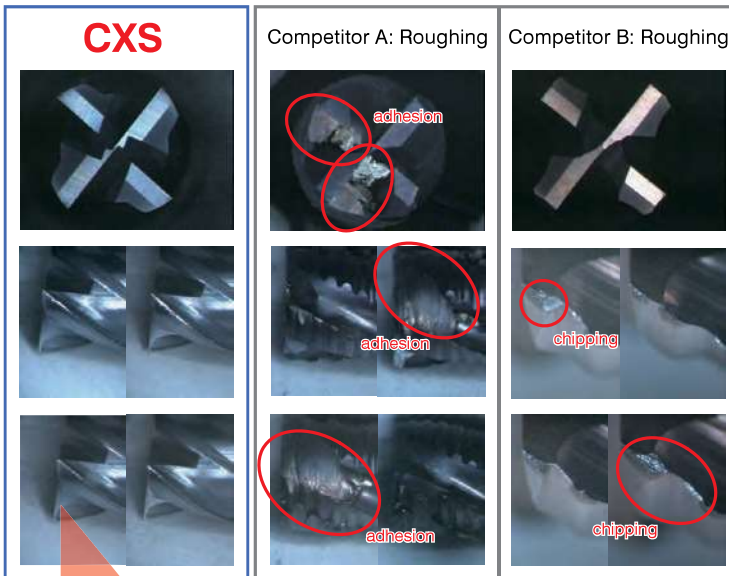
Tool damage and surface quality will be influenced by the cutting load fluctuation range.

CXS has a small fluctuation range and the tool is hard to chatter.

- φ3mm Shark V Series
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High Efficiency Milling Example CXS ϕ 8

SUS304



◆Milling Conditions

Spindle Speed	5,000 min ⁻¹
Feed Rate	600 mm/min
a_p	8 mm
a_e	3 mm
Coolant	Water Soluble
Milling Distance	5.4 m







※Using company B's milling condition



No tool damage on peripheral flute.

Milling Example by Different Work Materials ① CXS ϕ 8

SKD61 (50HRC)

CXS	Competitor A: Variable Helix	Competitor B: Variable Helix
		
		
Milling Distance 77 m	Milling Distance 44 m	Milling Distance 22 m

Designed for a heavy roughing cut, even up to 50HRC

◆Milling Conditions

Spindle Speed	4,200 min ⁻¹
Feed Rate	770 mm/min
a_p	8 mm
a_e	1 mm
Coolant	Water Soluble

※Using company B's milling condition



4 Flutes

Milling Example by Different Work Materials ② CXS ϕ 8

SUS304



Size : 100 × 100 × 50 mm

◆Milling Conditions

Milling Method	Side Milling, Slotting (One Direction)
Spindle Speed	2,900 min ⁻¹
Feed Rate	360 mm/min (Slotting) 720 mm/min (Side Milling)
a_p	8 mm (1D)
a_e	2.4 mm
Coolant	Water Soluble
Cycle Time	5 min

High efficiency milling of difficult-to-cut material (SUS304).

◆Tool after Milling



Excellent tool life for high efficiency milling and finishing process.

CXS Series
SUS304
Milling Video



ϕ 3mm Shank
V Series

UDC-PCD
Series

CBN
Series

Square
Long Neck
Square

Radius

Long Neck
Radius

Taper Neck
Radius

Ball / Long
Shank Ball

Long Neck
Ball

Taper Neck
Ball

Taper

Barrel

Spiral
V Cutter

Drill

Technical Data

301