



Saw Man-X

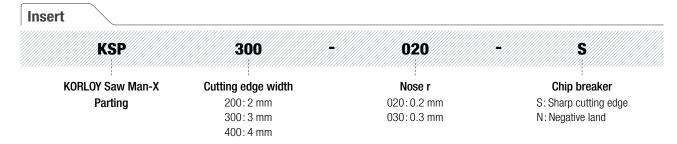
S Chip Breaker

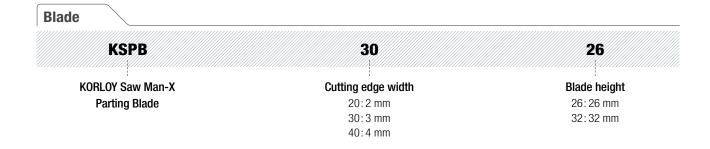
Inserts for stainless steel and HRSA grooving and parting off

Excellent tool life by minimizing cutting load machining M and S materials with V shaped sharp cutting edge application
 Enhanced chip control and productivity by the high feed cutting optimized chip breaker application





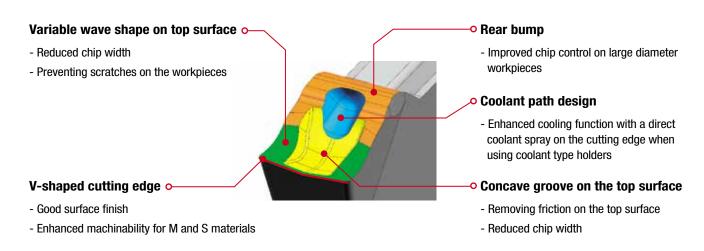


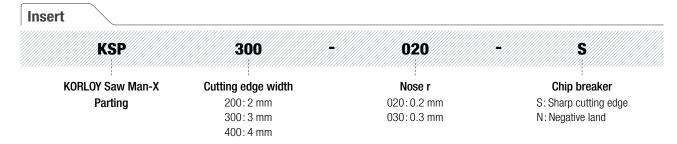


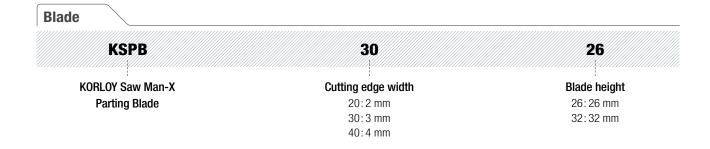
Shank			
KSPH	3	25	D
KOFI		23	
KORLOY Saw Man-X	Cutting edge width	Shank size	Hand
Parting Holder	2:2 mm	16:1616	R: Right handed
	3:3 mm	20:2020	L: Left handed
	4:4 mm	25: 2525	

✓ Features

- Longer tool life when machining M and S materials by applying V-shape design and sharp edge
- · Maximized chip evacuation function with the implementation of a concave structure and variable wave shape on the top surface of the insert
- · Stable machinability due to 3-directional V-Rail clamping system



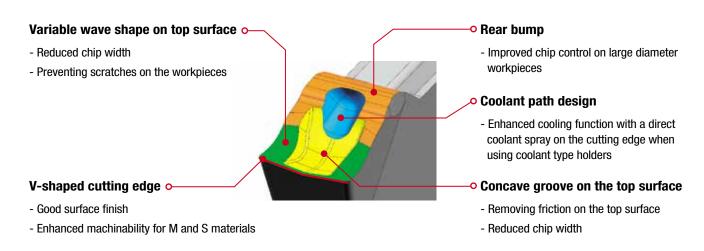




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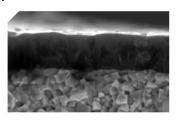
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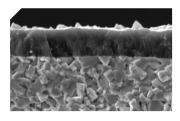
✓ Recommended cutting conditions

						Wear resistance	• Toughness	Grooving/
		Workpiece		Specific cutting	Brinell	High speed and continuous cutting	Low speed, interrupted and continuous cutting	parting
				force Kc1	hardness (HB)	G	rade	C/B
ISO	Workpiece materials	ISO (DIN)	AISI	(N/mm²)	(HB)	PC8110	PC5300	S
		(DIN)				VC	m/min)	fn (mm/rev)
						80	60	0.20
		X5CrNi18-9 (X2CrNi19-11)	304	2000	180	150	130	0.15
		(XZON113-11)				180	160	0.06
M	Austenitic			2000	180	80	60	0.20
		X5CrNiMo17-12-2	316			150	130	0.15
						180	160	0.06
			Inconel909	2400	200	65	55	0.15
	Steel	-				80	70	0.10
						95	85	0.05
			Inconel625	2650	250	45	35	0.15
		15156-3				60	50	0.10
	Nikal					75	65	0.05
	MIKEI	Nikel	30	25	0.15			
S		9723	Inconel718	2900	350	40	35	0.10
						50	45	0.05
			500-			45	35	0.15
		-	B265 (ASTM)	1300	400	60	50	0.10
	Titonium allov		(10111)			75	65	0.05
	Titanium alloy					35	25	0.15
		5832-11	Ti-6Al-4V	1400	950	50	40	0.10
						65	55	0.05



PC5300

- High toughness ultra-fine substrate and the coating layer with good wear resistance and high temperature hardness
- New TiAlN layer with excellent wear resistance and high temperature hardness $\,$
- Exclusive grooving substrate with excellent fracture resistance and stable machinability



PC8110

- Application of the substrate and PVD coating layer good for high temperature cutting
- PVD coating layer with high temperature hardness and high temperature oxidation resistance
- Substrate good for high wear resistance and plastic deformation resistance under high temperature

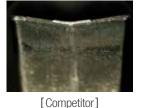
Wear resistance

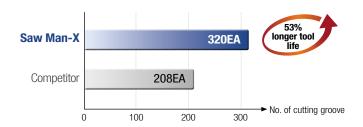
Workpiece X5CrNi18-9(Ø100)

Cutting conditions vc(m/min) = 120, fn(mm/rev) = 0.15, ap(mm) = 7, wet

Tools Insert KSP300-02-S(PC5300) Holder KSPB3026

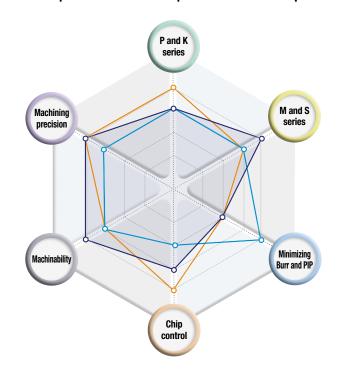






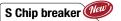
✓ Saw Man-X chip breakers selection guide

─ N Chip breaker --- S Chip breaker --- N Chip breaker (lead angle)

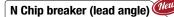


N Chip breaker

- · Negative land applied cutting edge
- 1st recommended chip breaker for steel and cast iron
- Suitable for interrupted and high feed cutting



- · Sharp cutting edge
- 1st recommended chip breaker for stainless steel and HRSA cutting
- Suitable for continuous and high speed cutting



- Lead angle and negative land applied cutting edge
- · For parting off pipe and round bar
- · Minimizing Burr and PIP size



Туре	P and K series	P and K series M and S series		Chip control	Machinability	Machining precision	
N Chip breaker	***	***	**	***	***	****	
S Chip breaker		***	**	***	***	***	
N Chip breaker (lead angle)	***	***	***	**	***	***	

✓ Insert

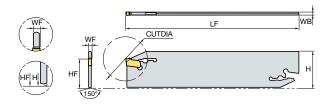
(mm)

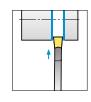
			Coated				Dimensi			
Picture	0	Designation	PC3035	PC5300	PC8110	cw	RE	INSL	BW	Geometries
	KSP	200-020-S		•	•	2.0	0.20	11.1	1.6	cw Bw
		300-020-S		•	•	3.0	0.20	12.1	2.5	RE INSL
100		400-025-S		•	•	4.0	0.25	12.6	3.3	
1		500-025-S		•	•	5.0	0.25	13.5	4.3	
		600-035-S		•		6.0	0.35	14.5	5.3	15°

●: Stock item

KSPB (Blade)







KSP

(mm)

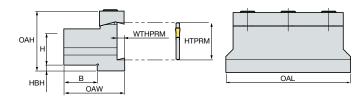
De	esignation	Stock	Cutting edge width	CUTDIA	Н	WB	LF	HF	WF	Wrench
KSPB	2026	•	2	50	26	1.6	110	21	1.8	
	2032	•	2	52	32	1.6	150	25	1.8	
	3026	•	3	72	26	2.4	110	21	2.7	CW08
	3032	•	3	120	32	2.4	150	25	2.7	CVVUO
	4026	•	4	72	26	3.2	110	21	3.6	
	4032	•	4	120	32	3.2	150	25	3.6	
	5026		5	80	26	4.0	110	21	4.5	
	5032	•	5	120	32	4.0	150	25	4.5	CW10
	6026		6	120	26	5.2	110	21	5.6	CWIU
	6032	•	6	120	32	5.2	150	25	5.6	

 $\bullet \colon \mathsf{Stock} \mathsf{\ item}$

SMBB (Block)







Des	signation	Stock	Н	В	HTPRM	OAL	ОАН	НВН	OAW	WTHPRM	Screw	Wrench
SMBB	1626	•	16	12	26	86	43	13	30	5.3	3-M6	
	2026	•	20	19	26	86	43	9	38	5.3	3-M6	
	2032	•	20	19	32	100	50	13	38	5.3	4-M6	LIMEOL
	2526	•	25	23	26	86	43	4	42	5.3	4-M6	HW50L
	2532	•	25	23	32	110	50	8	42	5.3	4-M6	
	3232	•	32	30	32	110	54	5	48	5.3	4-M6	

●: Stock item

For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.





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