

#### **Milling Tools**

Indexable milling inserts

#### MILLING Indexable Milling Tools



#### **Inserts for face milling** 0 0 0 0 0 0 0 SEET-CF SEET-CM SEET-CR SEET-DF SEET-DM SEET-DR SEET-EF SEET-EM Page B219 B219 B219 B219 B219 B219 B219 B219 9 0 1 0 SEET-LH SEET-W SEKR SNG(M)X-GL SEHT-AL SEK(E)N SEMR-M SEKR-M Page B219 B219 B224 B220 B220 B220 B220 B222 9 9 0 SNG(M)X-GM SNG(M)X-GH SNCU-W4 ODHT-GM ODHT-GH ODHT-GL ODMT-GM ODHT-LH Page B222 B222 B223 B211 B211 B211 B211 B211 OFKT-DF OFKT-DM OFKT-LH ONHU-PF ONHU-PM ONHU-W ONHU-GM ONHU-GH Page B211 B211 B211 B212 B212 B212 B212 B212 ONHU-GL ONHU-W ONMU-GM ONMU-GH SNEG-GM SNEG-HGR SNEG-W HNEX-DF Page B212 B212 B212 B212 B221 B221 B221 B208 HNEX-DM HNEX-DR PNEG-GL PNEG-GM PNEG-GH PNEG-CF/CM/CR PNEG-PF/PM/PR PNEG-KL/KM/KH/ B213 B213 Page B208 B208 B213 B213 B214 B214 С LNKT-ZR LNKT-ZR LNKT-ZR SPKW SPKT SP⊡N SPKR-GM SPEX Page B209 B209 B209 B226 B224 B225 B226 B227 SPMR SP⊡N TPKN TPGN TPUN TPMR

2

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B228

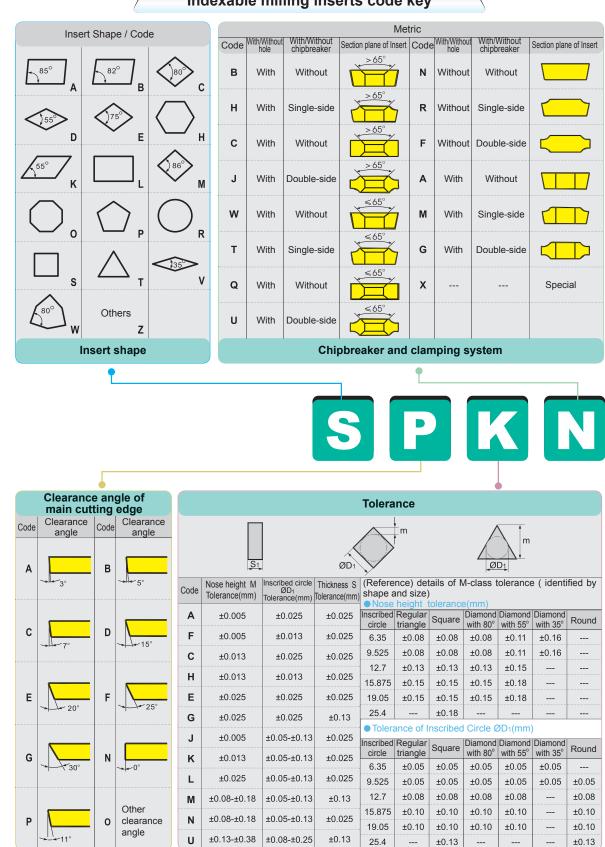
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B230

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			Inde	xable M	illing Too	ols	<b>AILLIN</b>		3
									J
		(	Inse	rts for fa	ace milli	ng			
		(Concerning of the second seco					-		
	-			0	9	9	9	9	
		PF SEET PER-APN		WNHU-GM	WNHU-LH	RCKT-DM	RCKT-DR	RCKT-ER	
age	B221	B221	B221	B231	B231	B216	B216	B216	
	0	0		0	0				
_	RCKT-NM	RCMW	RDKW⊡MO	RDKT⊡MO	RDKT MO-NM				
age	B216	B216	B217	B217	B217				
		In	serts for	square	shoulde	r milling			
	0	101	0	0				0	Indexable
	APHT-AL	APKT-APF	APKT-APM	APKT-ALH	ANGX PNR-GM	ANMX PNR-GI	M ANGX□PNR-LH	LNKT-GM	Index
age	B206	B207	B207	B207	B208	B208	B208	B210	
	0	0							Milling inserts
	LNKT-GL B210	LNMT-GM B210							M
Page	B210	B210							
		(	Insert	ts for pr	ofile mill	ing			
				•					
	_	0		9	C	0	2		
200	ZDET B232	ZPNT B233	SDMT/SPMT B218/B224	ROHX B217	XPHT-GM B232	ZOHX-GF B233	ZOHX-GM B233		
age	B232	B233	D210/D224	D217	BZJZ	D233	BZ33		
	Inserts fo	r side and fac	e milling		Inser	ts for h	igh feed		
	-	-				(1111)			
	0	0		2	2		22		
age	LNGX-GM B209	XSEQ MPH B232 B21		Page B21		SDMT-NM B218	WPGT         WPGT-F           B231         B231	PM SNGU-GM B223	
aye	0203			Tage D2	10 D210	D210	D231 D231	0223	
Inse	rts for T-slo	t milling Inso	erts for helic	al milling	Inserts for cham	fer milling			
$\left( \right)$			200						
	0		0		2	2			
	MPH			РМТ-РМ/КМ	SPI				
Pa	ige B210	) Page	B207	B224	Page B22	24			

MILLING Indexable Milling Tools



Indexable milling inserts code key

				sert shap							the height from the bottor
Diameter of	С	D	R	S	Т	V	W				of insert to the highest pa of cutting edge
IC			$\bigcirc$		$\triangle$				Code		Insert thickness(mm)
						11			00		0.79
3.97					06				TO		0.99
5.0			05		~~~				01		1.59
5.56			00		09				T1		1.98
6.0	00	07	06		44	44			02		2.38
6.35 8.0	06	07	08		11	11			T2		2.58
9.525	09	11	08	09	16	16	06		03		3.18
10.0	03		10	03	10	10	00		T3		3.97
12.0			12						04 T4		4.76
12.7	12	15	12	12	22	22	08		05		4.96
15.875	16		15	15	27				03 T5		5.95
16.0		19	16						06		6.35
19.05	19		19	19	33				T6		6.75
20.0			20						07		7.94
25.0	25	25	25						09		9.52
25.4			25	25					Т9		9.72
31.75			31						11		11.11
32			32						12		12.70
	L	ength	or cutt	ing edg	e				ins	sert	hickness
12		)2		Ε	D		Τ2	21		2	-DN
12		)2		Ε	D		Τ2	21	G	2	-DN
		)2		Ε	D			21		2	
12 wi		)2		E			ier (mm)	21		<b>२</b>	-DR Chipbreaker cod
				Ē	7			21		<b>2</b>	
Wij	oer αn <u>γ</u>				7			21		2	
Wij Kr A 45°	oer α <u>n</u> Α	3°			7 -	Chamf	<b>Ter (mm)</b>	21	C	2	Chipbreaker cod
Wij Kr A 45° D 60°	coer αη <u>γ</u> Α Β	3° 5°		<u> </u>	7 -	<b>Chamf</b> 0-5° 1-10°	ēer (mm)		<	2	Chipbreaker cod
Wij Kr A 45° O 60° E 75°	oer α <u>n</u> Α	3° 5° 7°			7 -	Chamf	<b>Ter (mm)</b>		• • • • • • • • • • • • • • • • • • •	2	Chipbreaker cod Cutting directio R Right hand
Wij Kr A 45° D 60°	coer αη <u>γ</u> Α Β	3° 5° 7° 15°		<u> </u>	7 -	<b>Chamf</b> 0-5° 1-10°	<b>Fer (mm)</b> 0-0.10 1-0.15 2-0.20		<	2	Chipbreaker cod Cutting directio R Right hand L Left hand
$ \begin{array}{c} \text{Will}\\ \text{Kr}\\ \text{A} & 45^{\circ}\\ \text{O} & 60^{\circ}\\ \text{E} & 75^{\circ} \end{array} $	oer αη <u>γ</u> Α Β C	3° 5° 7°		<u> </u>	7 –	<b>Chamf</b> 0-5° 1-10° 2-15° 3-20°	<b>Ter (mm)</b> 0-0.10 1-0.15 2-0.20 3-0.25		<	2	Chipbreaker cod Cutting directio R Right hand
Wij Kr A 45° D 60° E 75° E 85°	cer αη <u>γ</u> Α Β C D	3° 5° 7° 15°		<u> </u>	7 –	<b>Chamf</b> 0-5° 1-10° 2-15°	<b>Fer (mm)</b> 0-0.10 1-0.15 2-0.20		<		Chipbreaker cod Cutting directio R Right hand L Left hand
Wij Kr A 45° D 60° E 75° E 85° D 90°	cer αη <u>γ</u> Α Β C D E	3° 5° 7° 15° 20°		<u> </u>	7 –	<b>Chamf</b> 0-5° 1-10° 2-15° 3-20°	<b>Ter (mm)</b> 0-0.10 1-0.15 2-0.20 3-0.25		< ~		Chipbreaker cod Cutting directio R Right hand L Left hand
Wij Kr A 45° D 60° E 75° E 85° D 90°	cer αη Α Β C D E F G	3° 5° 7° 15° 20° 25°		<u> </u>	7 –	<b>Chamf</b> 0-5° 1-10° 2-15° 3-20° 4-25°	<b>Fer (mm)</b> 0-0.10 1-0.15 2-0.20 3-0.25 4-0.30 5-0.35		< ~		Chipbreaker cod Cutting directio R Right hand L Left hand
Wij Kr A 45° D 60° E 75° E 85° D 90°	oer αη <u>γ</u> Α Β C D E F G N	3° 5° 7° 15° 20° 25° 30° 0°		F E T	7 –	<b>Chamf</b> 0-5° 1-10° 2-15° 3-20° 4-25°	<b>Ter (mm)</b> 0-0.10 1-0.15 2-0.20 3-0.25 4-0.30		<	2	Chipbreaker cod Cutting directio R Right hand L Left hand
Wij Kr A 45° D 60° E 75° E 85° D 90°	cer αη Α Β C D E F G	3° 5° 7° 15° 20° 25° 30°		<u> </u>	7 –	<b>Chamf</b> 0-5° 1-10° 2-15° 3-20° 4-25°	<b>Fer (mm)</b> 0-0.10 1-0.15 2-0.20 3-0.25 4-0.30 5-0.35		< > V	2	Chipbreaker cod Cutting directio R Right hand L Left hand

B MILLING Indexable Milling Tools

				K Cast in		Normal working	g condition 😩 Ba	d working condition
Insert shape	Туре		Basic dime	nsions(mm	)	PCD	PCBN	Cemented carbide
initiation on ape	Type	ØI.C	S	ød	apmax	DN1021	BK1021	YD201
	APHT12T304PPFR-AL	12.7	3.97	4.4	12			*

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

ap	ød ap	ød	7	Cast i	iron		Ö	2
	ØIC	ØIC	S	Workpiece material	errous metal	۳		۳
nsert shape	Туре		Basic dime	ensions(mm	ו)	PCD	PCBN	Cemented carbide
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ØI.C	S	ød	apmax	DN1021	BK1021	YD201
	APHT12T304PPFR-PCD	12.7	3.97	4.4	3	*		
	APHT12T304PPFR-CBN	12.7	3.97	4.4	2		0	
	APHT12T304-W	12.7	3.97	4.4	1	*	*	

MILLING Indexable Milling Tools

				00	Good w	orking	con	ditio	on 住	No	orma	al wo	orkin	ig co	ondi	tion	<u> </u>	Bad	wo	rking		nditi	on					
	r	s	< P	Steel		0	(!!)		-					-	(!)	_	-			0			$\odot$	$\odot$	$(\mathbb{R})$			
			Vorkp	Stainle	ess ste	el	<u>.</u>	<u></u>		•	(2)				<u>.</u>	<u>.</u>	•	2		0				0				
I.W  <del> (</del>	ød -	<mark>.</mark>	<u> </u>	Cast ir			_					<u>(</u>	8	$\bigcirc$					"	$\odot$						$\odot$		$\odot$
	11° 🔁	<u> </u>	material	Non-fe		netal																						
88°	L *		erial S	Heat resi	stant allo	, Ti alloy								0	<u>(</u>	•	•				(1)	$\otimes$						
		_															_								C	omo	ente	
		Bas	sic din	nensic	ons(m	m)		С	VD	Сс	batir	ng				P	٧D	Co	atir	ng			Cer	met			bide	
Insert shape	Туре	L	I.W	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	APKT070204-APF	7.32	4.34	2.38	2	0.4	<b>_</b>	•	~	•	~	<u>_</u>	~	_	~	<i>_</i>	<u>~</u>	~	~	_	~	_		~	~	_	~	_
-	APKT11T304-APF	12.24	6.6	3.6	2.8	0.4		•		•							*											
	APKT11T308-APF	12.24	6.6	3.6	2.8	0.8		•		•							*				•	•						
	APKT160408-APF	17.877	9.33	5.76	4.4	0.8											*				•	•						
	APKT070204-APM	7.32	4.34	2.38	2	0.4				•		•					*											
	APKT11T304-APM	12.24	6.6	3.6	2.8	0.4				•							*											
	APKT11T308-APM	12.24	6.6	3.6	2.8	0.8				٠		•					*				٠							
	APKT11T312-APM	12.24	6.6	3.6	2.8	1.2						•					*											
501	APKT11T316-APM	12.24	6.6	3.6	2.8	1.6											*											
	APKT11T320-APM	12.24	6.6	3.6	2.8	2.0				٠							*											
	APKT160408-APM	17.877	9.33	5.76	4.4	0.8				٠		٠					*				٠	•						
	APKT160416-APM	17.877	9.33	5.76	4.4	1.6				٠		•					*				٠							
	APKT160420-APM	17.877	9.33	5.76	4.4	2.0						٠					*											
	APKT160424-APM	17.877	9.33	5.76	4.4	2.4											*											
	APKT160430-APM	17.877	9.33	5.76	4.4	3.0											*											
	APKT11T304-ALH	12.24	6.6	3.6	2.8	0.4																					$\star$	*
CON	APKT11T308-ALH	12.24	6.6	3.6	2.8	0.8																					*	0
	APKT160408-ALH	17.877	9.33	5.76	4.4	0.8																					*	*

# Milling inserts Indexable milling tools

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★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order

				00	Good w	orking	con	ditio	n 😐	Norr	nal w	vorkir	ig co	ondit	ion	<u>(</u>	Bad	wor	king	cone	ditio	 n				
88°~-	l	Ī	۶P	Steel			(***	<b>(</b>	<b>(</b> )	<b>()</b>	)			•	0	(1)	<b>(</b> )	(	0		¢	0	0	8		
			orkp	Stainle	ess ste	el		•	<u></u>	<u>.</u>	<u>)</u>			<u></u>	<u></u>	<u></u>	$\overline{\mathbb{C}}$	(	0		(	0	0			
	L ød			Cast ir	ron						(!)	) 🛞	$\bigcirc$				(	•	0					(	0	$\odot$
ana a			Vorkpiece material	Non-fe	errous i	netal																				
	W S	]	rial	Heat resi	istant alloy	/, Ti alloy							$^{\circ}$	۳		<b>(</b>			(	•	3					
		Ва	sic dir	nensio	ons(m	m)		С	VD	Coat	ing	_			P١	/D	Соа	atin	g		C	Cerm	net		ement arbid	
	_	<u> </u>																								
Insert shape	Туре	L	I.W	S	ød	r	YBC301	YBC302	YBM251	YBM253 VDM361	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303		YNG151C	YC30S	YD051 YD101	YD201
Insert shape	Type APKT150412-PM	L 16.33		S 4.76	ød 5.4	r 1.2	YBC301	YBC302	YBM251	★ YBM253	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	<ul> <li>YBG302</li> </ul>	YBG152	YBG252	YBS203	TBO3U3		-	YC30S	YD051 YD101	YD201

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

# B MILLING / Indexable Milling Tools

				<u>()</u>	Good w	orkina	con	ditio	n 😐	No	orma	l wo	orkin		ndit	ion	E F	Bad	wor	kind	1 COI	nditi	on				
		5	< P	Steel		ornang		<u>(</u>										- 1		$\odot$	,	lane		$\odot$	$\bigotimes$	ĺ	-
			M	Stainle	ss stee	el		<u>.</u>			$\overline{\otimes}$					<u>.</u>	- -	2		0				$^{\circ}$			
	S			Cast in	on							•	$\odot$	$\odot$					•	$^{\circ}$					(	9	8
	ød ød	шаюна		Non-fe	rrous r	netal																				C	98
97.5		aia	S	Heat resis	stant alloy	, Ti alloy								$^{\circ}$	•	<b>()</b>	•				•	$\overline{\mathbb{C}}$					
		Bas	ic din	nensi	ons(m	ım)		С	VD	Со	atin	ıg			i	P\	D'	Coa	atin	g			Cer	met		men arbio	
Insert shape	Туре	L	W	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD201
	ANGX110504PNR-GM	11.85	8.4	5.7	3.5	0.4				*		*					*		-		-						,
	ANGX110508PNR-GM	11.85	8.4	5.7	3.5	0.8				*		*				*	*					•					
	ANGX110520PNR-GM	11.85	8.4	5.7	3.5	2.0				*		*	*			*											
-	ANGX150608PNR-GM	15.43	11.0	7.3	4.4	0.8				*		*				*	*					•					
	ANGX150616PNR-GM	15.43	11.0	7.3	4.4	1.6				*		*				*	*										
	ANGX150620PNR-GM	15.43	11.0	7.3	4.4	2.0						*	$\star$			*											
_	ANMX110508PNR-GM	11.85	8.4	5.7	3.5	0.8				*		*					*					*					
-	ANMX150608PNR-GM	15.43	11.0	7.3	4.4	0.8				*		*				*	*										
-	ANGX110502PNR-LH	11.85	8.4	5.7	3.5	0.2																				*	r
	ANGX110504PNR-LH	11.85	8.4	5.7	3.5	0.4																				*	k
	ANGX150608PNR-LH	15.43	11.0	7.3	4.4	0.8																				*	r

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

H	NDD			🙄 Good	working	con	ditio	n 😐	No	orma	l wo	orkin		ondit	ion		Bad	wo	rkino		nditi	on				_
	90°			-				(!)					0			<u> </u>	(1)		$\odot$				$\odot$	$\odot$		
ØI.C	120°		M Sta	ainless s	teel	<u></u>	•		<u></u>	2				<u></u>	<u></u>	•	8		0			0	0	$\bigotimes$		
				st iron							•	$\odot$	$\bigcirc$				(		$^{\odot}$					(	0	8
		IIIdle	No No	n-ferrou	s metal																				(	28
	S	Ĩ	E Hea	it resistant a	lloy, Ti alloy								0	<b>(</b>						•	$\bigotimes$					
		Bas	ic dimer	nsions(	mm)		С	VD	Со	atin	ıg				P\	/D	Coa	atir	ng			Cer	met		eme arbi	nted ide
Insert shape	Туре	L	ØI.C	S	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
1	HNEX090512-DF	9.16	15.875	5.56	1.2						★															
$\sim$																										
1	HNEX090512-DM	9.16	15.875	5.56	1.2						★															
$\sim$																										
1	HNEX090512-DR	9.16	15.875	5.56	1.2						0	★														
			mmender											ora												o-orde

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

MILLING Indexable Milling Tools

																												_
				🙄 G	ood wo	rking	cond	ditio	n 😃	Nc	orma	l wo	orkir	ig co	ondit		<u> </u>		woi		, cor		-					
			s P	Steel			<b>(</b>	(!)	<b>(</b>	<b>(</b>	8				<b>(</b>	(1)	0	$\odot$		$\bigcirc$			$\odot$	0	$\odot$			
			Workpiece	Stainles	ss steel		<u></u>	<u></u>	<u></u>	<u></u>	8				•	•	<u></u>	$\odot$		$^{\circ}$			0	0	2			
L L	Ød			Cast irc	n							(1)	$\odot$	$\bigcirc$					•	0						$\bigcirc$		$\odot$
			material	Non-fer	rous m	etal								_						_						-		$\overline{\mathbb{C}}$
<u>-</u>	.W		erial	Heat resist	ant allov 1	Ti allov								$\odot$	<u>@</u>	(1)	<u>(11)</u>				(1)							
				- Iour Poolo	an anoj,	ir ano j	I			_				U	-	•	-				•				6		anti	
		Ва	sic dim	nensior	ns(mm	ו)		С	VD	Сс	atir	ng				Ρ	VD	Со	atir	ng			Cer	met			ente bide	
Insert shape	Туре	I.W	L	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	LNGX100504-GM	9.9	10	5.5	4.1	0.4	-	-	ŕ	•	-	ŕ	ŕ	-	-	ŕ	•	<i>,</i>	-	·	-	<u>´</u>	-	·	-	ŕ	ŕ	-
	LNGX100508-GM	9.9	10	5.5	4.1	0.8				٠							٠											
	LNGX100512-GM	9.9	10	5.5	4.1	1.2				٠							٠											
	LNGX100516-GM	9.9	10	5.5	4.1	1.6				٠							٠											
	LNGX100520-GM	9.9	10	5.5	4.1	2.0				٠				1			٠											
	LNGX100524-GM	9.9	10	5.5	4.1	2.4				٠							٠											
0	LNGX100530-GM	9.9	10	5.5	4.1	3.0				٠							٠											
	LNGX100540-GM	9.9	10	5.5	4.1	4.0				٠							٠											
-	LNGX140704-GM	13.4	14	7.5	4.4	0.4				٠							٠											
	LNGX140708-GM	13.4	14	7.5	4.4	0.8				٠							٠											
	LNGX140712-GM	13.4	14	7.5	4.4	1.2				٠							٠											
	LNGX140716-GM	13.4	14	7.5	4.4	1.6				٠							٠											
	LNGX140720-GM	13.4	14	7.5	4.4	2.0				٠							٠											
	LNGX140724-GM	13.4	14	7.5	4.4	2.4				٠							٠											
	LNGX140730-GM	13.4	14	7.5	4.4	3.0				٠							٠											
	LNGX140740-GM	13.4	14	7.5	4.4	4.0				٠							٠											
	LNGX140750-GM	13.4	14	7.5	4.4	5.0				٠							٠											

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★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order

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ı.w		Workpiece	M Stai	nless ste	eel	<u></u>	•		<u></u>	2				•	<u></u>	<u></u>	8		0			$^{\circ}$	0	8		
	ød <u>it it i</u>	ece	K Cas	t iron								$\odot$	$^{\odot}$					<b>(</b>	$^{\odot}$						$\odot$	8
<u>+</u>		material	N Non	-ferrous	metal																				(	98
		rial	S Heat	resistant allo	oy, Ti alloy								0	<b>(</b>		<b>(</b>				(***	$\odot$					
		Basic	dime	nsions(	(mm)		С	VD	Со	atir	ıg				P	VD	Со	atir	ng			Cer	met		emer arbi	
Insert shape	Туре	L	I.W	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD201
	LNKT1506EN-ZR	15.875	14	6.35	4.6					0	0						×									
	LNKT2007DN-ZR	20	17	7.94	4.6					0	0						*									
	EIIIII EIII																					+		+		
0	LNKT2510-ZR	25	18	9.525	5.5					0		0					★									

#### **MILLING** Indexable Milling Tools

Insert shape         Type         Basic dimensions(mm)         CVD Coating         PVD Coating         Cernet Carbide           Insert shape         Type         L         LW         S         od         r         bc					CO Go	od wo	orkina	con	ditic	on (	• No	orma	l wc	orkin		ondit	tion		Bad	woi	rkinc		nditio						)
Image: State       Image: State <th< td=""><td></td><td>-</td><td>&lt;</td><td>Ps</td><td><u> </u></td><td></td><td>Jining</td><td></td><td></td><td>_</td><td></td><td></td><td>II WC</td><td></td><td>ig ci</td><td>_</td><td>-</td><td><u> </u></td><td></td><td>woi</td><td></td><td>1 001</td><td></td><td></td><td><math>\odot</math></td><td></td><td></td><td></td><td>-</td></th<>		-	<	Ps	<u> </u>		Jining			_			II WC		ig ci	_	-	<u> </u>		woi		1 001			$\odot$				-
Insert shape         Type         Basic dimensional and ready         CVD Coating         PVD Coating         Cernet         Carbon Carbon           L         LW         S         ød         r         bg weige status         bg weige statu			Vorkp			s stee	I	<u>.</u>		<u> </u>									<u> </u>		_								
Insert shape         Type         Bais classes         CVD Coating         PVD Coating         Cement carbide           Insert shape         Type         L         LW         S         ød         r         CVD Coating         PVD Coating         Cement carbide           LNKT080404PNR-GM         8.75         8.5         4.45         3.4         0.4         ★         •         ★         •	I.W	ød	jiece	_									•	$\odot$	$^{\circ}$					•	$^{\circ}$						$\bigcirc$	(	$\odot$
Insert shape         Type         Bais classes         CVD Coating         PVD Coating         Cement carbide           Insert shape         Type         L         LW         S         ød         r         CVD Coating         PVD Coating         Cement carbide           LNKT080404PNR-GM         8.75         8.5         4.45         3.4         0.4         ★         •         ★         •			mate	ΝΝ	on-ferr	ous m	netal																					•	$\overline{\mathbf{C}}$
Insert shape         Type         Bas:         I.W         S         gd         r         CVD Coating         PVD Coating         PVD Coating         Cernal Carbide           Insert shape         Type         L         I.W         S         gd         r         b <td>- L</td> <td>S</td> <td>inal</td> <td>SH</td> <td>eat resista</td> <td>nt alloy,</td> <td>Ti alloy</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><math>^{\circ}</math></td> <td><b>(</b></td> <td><u>(''</u>)</td> <td><b>(</b></td> <td></td> <td></td> <td></td> <td><b>(</b></td> <td><math>\odot</math></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	- L	S	inal	SH	eat resista	nt alloy,	Ti alloy								$^{\circ}$	<b>(</b>	<u>(''</u> )	<b>(</b>				<b>(</b>	$\odot$						
Insert shape         Type         I         I/W         S         odd         r         S			Pac	io dim	oncio	nc/m	) (m)				6	otin					D\	/D	Cor	otin	na -			Cor	mot	С	eme	ente	d
INDICE         INCOME         INCOME<			Das			115(11				۷D		aun	y				F \		00	aui	iy			Cen		(	carb	bide	
LNKT080404PNR-GM       8.75       8.5       4.45       3.4       0.4       ★       ◆       ★       ●       ↓ <td< td=""><td>Insert shape</td><td>Туре</td><td></td><td>1 \\/</td><td>c</td><td>ad</td><td>r</td><td>301</td><td>302</td><td>251</td><td>253</td><td>351</td><td>152</td><td>252</td><td>102</td><td>202</td><td>205</td><td>20</td><td>302</td><td>152</td><td>252</td><td>203</td><td>303</td><td>151</td><td>151C</td><td>S</td><td>1</td><td>5</td><td>5</td></td<>	Insert shape	Туре		1 \\/	c	ad	r	301	302	251	253	351	152	252	102	202	205	20	302	152	252	203	303	151	151C	S	1	5	5
LNKT080404PNR-GM         8.75         8.5         4.45         3.4         0.4         ★         ◆         ★         ●         ★         ●         ↓           LNKT080408PNR-GM         8.75         8.5         4.45         3.4         0.8         ★         ●         ★         ●         ★         ●         ↓           LNKT080408PNR-GM         8.75         8.5         4.45         3.4         1.2         ★         ●         ★         ●         ↓ <td></td> <td></td> <td></td> <td>1. V V</td> <td>0</td> <td>øu</td> <td>1</td> <td>ΥBC:</td> <td>YBC:</td> <td>YBM:</td> <td>YBM:</td> <td>YBM</td> <td>(BD</td> <td>(BD)</td> <td>ΥBG.</td> <td>YBG:</td> <td>YBG:</td> <td>YB93</td> <td>YBG;</td> <td>, BG</td> <td>YBG:</td> <td>YBS2</td> <td>YBS3</td> <td>YNG</td> <td>YNG.</td> <td>7C3C</td> <td>YD05</td> <td>YD10</td> <td>YD20</td>				1. V V	0	øu	1	ΥBC:	YBC:	YBM:	YBM:	YBM	(BD	(BD)	ΥBG.	YBG:	YBG:	YB93	YBG;	, BG	YBG:	YBS2	YBS3	YNG	YNG.	7C3C	YD05	YD10	YD20
LNKT080412PNR-GM       8.75       8.5       4.45       3.4       1.2       ★ ● ●       ★       ●       ●         LNKT120608PNR-GM       12.7       13       6.75       4.4       0.8       ★ ● ●       ★       ●       ●         LNKT120612PNR-GM       12.7       13       6.75       4.4       1.2       ★ ● ●       ★       ●       ●         LNKT120616PNR-GM       12.7       13       6.75       4.4       1.2       ★ ● ●       ★       ●		LNKT080404PNR-GM	8.75	8.5	4.45	3.4	0.4	Í	-	-		ŕ			-	<i>`</i>			<i>,</i>	<u>´</u>	<i>,</i>	ŕ	-	ŕ	-	<u> </u>	<i>,</i>	ŕ	_
LNKT120608PNR-GM         12.7         13         6.75         4.4         0.8         ★         •         ★         •         ★         •         ★         •         *         •         *         •         *         •         *         •         *         •         *         •         *         •         *<		LNKT080408PNR-GM	8.75	8.5	4.45	3.4	0.8				*		•	•				*											
LNKT120612PNR-GM       12.7       13       6.75       4.4       1.2       ★       ●       ★         LNKT120616PNR-GM       12.7       13       6.75       4.4       1.6       ★       ●       ★         LNKT120616PNR-GM       12.7       13       6.75       4.4       1.6       ★       ●       ★       ●         LNKT120620PNR-GM       12.7       13       6.75       4.4       2.0       ★       ●       ★       ●         LNKT120624PNR-GM       12.7       13       6.75       4.4       2.0       ★       ●       ★       ●         LNKT120632PNR-GM       12.7       13       6.75       4.4       2.0       ★       ●       ★       ●         LNKT120632PNR-GM       12.7       13       6.75       4.4       3.2       ★       ●       ★       ●         LNKT160708PNR-GM       16.05       15       7.35       5.5       1.2       ★       ●       ★       ●         LNKT160716PNR-GM       16.05       15       7.35       5.5       1.6       ★       ●       ★       ●         LNKT1800404PNR-GL       8.75       8.5       4.4       0.8       ★<		LNKT080412PNR-GM	8.75	8.5	4.45	3.4	1.2				*		•	•				*											
LNKT120616PNR-GM       12.7       13       6.75       4.4       1.6       ★       ◆       ★       ↓		LNKT120608PNR-GM	12.7	13	6.75	4.4	0.8				*		•	•				*					•						
LNKT120620PNR-GM       12.7       13       6.75       4.4       2.0       ★       •       ★          LNKT120624PNR-GM       12.7       13       6.75       4.4       2.4       ★       •       ★          LNKT120632PNR-GM       12.7       13       6.75       4.4       2.4       ★       •       ★          LNKT120632PNR-GM       12.7       13       6.75       4.4       3.2       ★       •       ★          LNKT160708PNR-GM       16.05       15       7.35       5.5       0.8       ★       •       ★       •         LNKT160712PNR-GM       16.05       15       7.35       5.5       1.2       ★       •       ★       •         LNKT160716PNR-GM       16.05       15       7.35       5.5       1.6       ★       •       ★       •         LNKT1800404PNR-GL       8.75       8.5       4.4       0.4       ★       •       ★       •         LNKT120608PNR-GL       12.7       13       6.75       4.4       0.8       ★       •       ★       •         LNKT120608PNR-GL       12.7       13       6.75       5.5		LNKT120612PNR-GM	12.7	13	6.75	4.4	1.2				*		•	•				*											
LNKT120624PNR-GM       12.7       13       6.75       4.4       2.4       ★ ● ●       ★       ●      <	0	LNKT120616PNR-GM	12.7	13	6.75	4.4	1.6				*		•	•				*											
LNKT120632PNR-GM       12.7       13       6.75       4.4       3.2       ★ ●●       ★       ●       <	U	LNKT120620PNR-GM	12.7	13	6.75	4.4	2.0				*		•	•				*											
LNKT160708PNR-GM       16.05       15       7.35       5.5       0.8       ★ ●●       ★ ●●       ★       ●         LNKT160712PNR-GM       16.05       15       7.35       5.5       1.2       ★ ●●       ★       ●       ●         LNKT160712PNR-GM       16.05       15       7.35       5.5       1.2       ★ ●●       ★       ●       ●         LNKT160716PNR-GM       16.05       15       7.35       5.5       1.6       ★ ●●       ★       ●       ●         LNKT160716PNR-GM       16.05       15       7.35       5.5       1.6       ★       ●       ★       ● <td></td> <td>LNKT120624PNR-GM</td> <td>12.7</td> <td>13</td> <td>6.75</td> <td>4.4</td> <td>2.4</td> <td></td> <td></td> <td></td> <td>*</td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td>*</td> <td></td>		LNKT120624PNR-GM	12.7	13	6.75	4.4	2.4				*		•	•				*											
LNKT160712PNR-GM       16.05       15       7.35       5.5       1.2       ★ ● ●       ★ ● ●       ★       ●		LNKT120632PNR-GM	12.7	13	6.75	4.4	3.2				*		•	•				*											
LNKT160716PNR-GM       16.05       15       7.35       5.5       1.6       ★ ● ●       ★       ●       ●         LNKT080404PNR-GL       8.75       8.5       4.45       3.4       0.4       ★ ● ●       ★       ●       ●         LNKT120608PNR-GL       12.7       13       6.75       4.4       0.8       ★ ● ●       ★       ●         LNKT160708PNR-GL       16.05       15       7.35       5.5       0.8       ★ ● ●       ★       ●         LNMT080404PNR-GM       8.75       8.5       4.45       3.4       0.4       ★ ● ●       ★       ●		LNKT160708PNR-GM	16.05	15	7.35	5.5	0.8				*		•	•				*											
LNKT080404PNR-GL       8.75       8.5       4.45       3.4       0.4       ★       ●       ★       ●         LNKT120608PNR-GL       12.7       13       6.75       4.4       0.8       ★       ●       ★       ●         LNKT160708PNR-GL       16.05       15       7.35       5.5       0.8       ★       ●       ★       ●         LNMT080404PNR-GM       8.75       8.5       4.45       3.4       0.4       ★       ●       ★       ●		LNKT160712PNR-GM	16.05	15	7.35	5.5	1.2				*		•	•				*											
LNKT120608PNR-GL       12.7       13       6.75       4.4       0.8       ★ ●●       ★       ●         LNKT160708PNR-GL       16.05       15       7.35       5.5       0.8       ★ ●●       ★       ●         LNMT080404PNR-GM       8.75       8.5       4.45       3.4       0.4       ★ ●●       ★       ●		LNKT160716PNR-GM	16.05	15	7.35	5.5	1.6	<b> </b>			*		•	•				*											
LNKT160708PNR-GL       16.05       15       7.35       5.5       0.8       ★       ●       ★       ●         LNMT080404PNR-GM       8.75       8.5       4.45       3.4       0.4       ★       ●       ★       ●		LNKT080404PNR-GL	8.75	8.5	4.45	3.4	0.4				*		•	•				*					•						
LNMT080404PNR-GM         8.75         8.5         4.45         3.4         0.4         ★         ●         ★	0	LNKT120608PNR-GL	12.7	13	6.75	4.4	0.8				*		•	•				*					•						
	<u> </u>	LNKT160708PNR-GL	16.05	15	7.35	5.5	0.8				*		•	•				*					•						
	-	LNMT080404PNR-GM	8.75	8.5	4.45	3.4	0.4				*		•	•				*											
	0	LNMT120608PNR-GM	12.7	13	6.75	4.4	0.8				*		•	•				*											
LNMT160708PNR-GM 16.05 15 7.35 5.5 0.8 ★ • • ★		LNMT160708PNR-GM	16.05	15	7.35	5.5	0.8				*		•	•				*											

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

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		Ва	isic di	mensi	ons(m	m)		С	VD	Coa	atin	g				PVI	D C	oati	ng			Cer	met		emer arbio	
Insert shape	Туре	ØI.C	L	s	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBGZU5	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD201
	MPHT060304-DM	6.35	6.35	3.18	2.8	0.4											*									
0	MPHT080305-DM	8.3	8.3	3.18	3.4	0.5											*									
	MPHT120408-DM	12.7	12.7	4.76	5.56	0.8	1										*									

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

MILLING Indexable Milling Tools

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  | YBG152   
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|             | R ød<br>26°/<br>S<br>Type<br>OFKT05T3-DF<br>OFKT05T3-DM | ød         gd         gd< | ød         ød         Mot for an and a state of | Ød       Ød       P       Steel         Ød       26°       S       Steinle         Non-fe       Non-fe       Non-fe         Type       L       Øl.C       S         OFKT05T3-DF       5.26       12.7       3.97         OFKT05T3-DM       5.26       12.7       3.97 | A.C.       Ød       Image: State in the second state in t | A.C.       Ød       Steel         Ød       26°1       M       Stainless steel         26°1       Non-ferrous metal       Non-ferrous metal         Non-ferrous metal       Heat resistant alloy, Ti alloy         Type       L       Øl.C.       S       Ød       R         OFKT05T3-DF       5.26       12.7       3.97       4.4       0.5         OFKT05T3-DM       5.26       12.7       3.97       4.4       0.5 | A.C.       Ød       F       Steel       (*)         Ød       26°       S       Stainless steel       (*)         M       Stainless steel       (*)       (*)       (*)         M       Stainless steel       (*)       (*)       (*)         M       Non-ferrous metal       (*)       (*)       (*)         Non-ferrous metal       (*)       (*)       (*)       (*)         Type       L       Øl.C       S       Ød       R       (*)         OFKT05T3-DF       5.26       12.7       3.97       4.4       0.5       (*)         OFKT05T3-DM       5.26       12.7       3.97       4.4       0.5       (*) | A.C.       Ød       Image: Steel       Image: Steel | A.C.       Ød       Image: Constraint of the sector | A.C.       Ød       Image: Constraint of the second | ALC       Ød       Image: Contract of the second se | ALC <ul> <li></li></ul> | ALC <ul> <li></li></ul> | ALC <ul> <li>Alc</li> <li>Alc</li></ul> | ALC       Image: Steel       Image: S | ALC       add_doing       b       Steel       u | ALC       add_delta       b       b       b       b       b       b       b       b       b       b       b       b       c       b       c <td< th=""><th>ALC       add       b       <t< th=""><th>ALC          <ul> <li>Alc</li> <li>Alc</li></ul></th><th>ALC       Algorithm       Algorithm</th><th>BL       Image: Steel       Image: St</th><th>BLC       Image: Steel       Image: S</th><th>And Stainless steel       Image: Control of the control</th><th>BLC       Image: Steel       Image: S</th><th>Basic dimensional alloy, Tralloy       CVD Coating       PVD Coating       Cernet       O         Type       L       Øl.C       S       Ød       R       CSC SINAL       SSS SINAL</th><th>ALC       Stell       (*)       <th< th=""></th<></th></t<></th></td<> | ALC       add       b <t< th=""><th>ALC          <ul> <li>Alc</li> <li>Alc</li></ul></th><th>ALC       Algorithm       Algorithm</th><th>BL       Image: Steel       Image: St</th><th>BLC       Image: Steel       Image: S</th><th>And Stainless steel       Image: Control of the control</th><th>BLC       Image: Steel       Image: S</th><th>Basic dimensional alloy, Tralloy       CVD Coating       PVD Coating       Cernet       O         Type       L       Øl.C       S       Ød       R       CSC SINAL       SSS SINAL</th><th>ALC       Stell       (*)       <th< th=""></th<></th></t<> | ALC <ul> <li>Alc</li> <li>Alc</li></ul> | ALC       Algorithm       Algorithm | BL       Image: Steel       Image: St | BLC       Image: Steel       Image: S | And Stainless steel       Image: Control of the control | BLC       Image: Steel       Image: S | Basic dimensional alloy, Tralloy       CVD Coating       PVD Coating       Cernet       O         Type       L       Øl.C       S       Ød       R       CSC SINAL       SSS SINAL | ALC       Stell       (*) <th< th=""></th<> |

★Recommended grade (always stock available) ●Available grade (always stock available)

0					Goo	od wo	rkina	con	ditio	n 😐	No	rma	l wo	rkin		ondit	ion		Bad	wo	rkind	1 COI	nditi	on					
	15°		5	Ste			-	<b>(</b>	-		_	- 1			-	<b>(</b>	-	-	-		$\odot$	,			$\odot$	$\odot$			
	ød		Workpiece material	<b>V</b> Stai	inless	steel		<u></u>	<u></u>	<u></u>	<u></u>	$\odot$				<u></u>	•	•	8		0			0	0	8			
ØI.C	R 00		ece r	Cas	t iron								<b>(</b>	$\odot$	$\bigcirc$					<b>(</b>	$\bigcirc$						$\bigcirc$	(	$\odot$
	bs s		nater	Nor	n-ferro	us m	etal																						$\odot$
				S Heat	resistan	t alloy, 1	Ti alloy								0	<b>(</b>	•	•				•	$\odot$						
		E	Basic di	imens	ions(	ímm	)		С	VD	Со	atir	ng				P١	٧D	Со	atir	ng			Cer	met			ente bide	
Insert shape	Туре	L	ØI.C	S	ød	R	bs	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
2	ODHT060508-GL	6.5	15.875	5.56	5.4	0.8	1.6				•		•				•	•											
0	ODHT060508-GM	6.5	15.875	5.56	5.4	0.8	1.6				•		•				•	•					•						
ē	ODMT060512-GM	6.5	15.875	5.56	5.4	1.2					•		•				•	•					•						
0	ODHT060508-GH	6.5	15.875	5.56	5.4	0.8	1.6				•		•				•	•											
0	ODHT060508-LH	6.5	15.875	5.56	5.4	0.8	1.6																					•	•

★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order

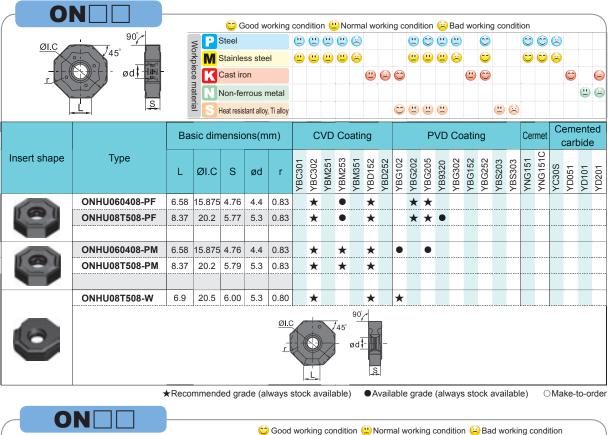
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Milling inserts Indexable milling tools

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OMake-to-order

#### MILLING Indexable Milling Tools



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	so/	_	ξP	Steel				<b>(</b>	"	(1)	<b>(</b>	8			1	<b>Ľ</b> )	<b>(</b>	$\odot$	•	<b>(</b>		$\bigcirc$			0	$\odot$	$\odot$		
ØI.C	245°		Workpiece	Stainl	ess s	teel		<u></u>	<u>••</u>	<u></u>	•	8					<u></u>	<u></u>	<u></u>	8		0			0	0	$\odot$		
	ød-			Cast i	ron									$\odot$	0	0				1	<b>(</b>	$\bigcirc$					(	0	$\odot$
r 🏸			material	Non-fe	errou	s me	tal																					(	28
	Lt-bs s	-	rial S	Heat res	istant a	alloy, Ti	alloy								$\odot$	(	•••	•	<b>(</b>				<b>(</b>	$\overline{\mathbb{C}}$					
		В	asic din	nensi	ons(	mm	)		C	VD	Со	atir	ng					PVI	D C	coat	ing				Cer	net		eme arb	nted ide
Insert shape	Туре	L	ØI.C	S	ød	r	bs	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG105	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
and the second	ONHU060404ANN-GL	6.15	15.875	5.54	6	0.4	1.2				•		•					•	•					•				-	
0	ONHU09T508ANN-GL	8.0	20.2	5.8	7	0.8	1.2				•		•					•	•					•					
-	ONHU060408ANN-GM	6.15	15.875	5.54	6	0.8	1				•		•			_		•	•					•				_	
0	ONMU060408-GM	6.15	15.875	5.54	6	0.8	-	1			٠		٠					٠											
-	ONHU09T508ANN-GM	8.0	20.2	5.8	7	0.8	1.2				٠		٠					٠	•					•					
	ONMU09T512-GM	8.0	20.2	5.8	7	1.2	-				٠		٠					۲	٠										
	ONMU060408-GH	6.15	15.875	5.54	6	0.8	-				٠								٠					•					
	ONHU060408ANN-GH	6.15	15.875	5.54	6	0.8	1				٠		•					٠	٠					•					
	ONHU09T508ANN-GH	8.0	20.2	5.8	7	0.8	1.2				٠		٠					٠	٠					•					
-	ONMU09T512-GH	8.0	20.2	5.8	7	1.2	-				٠		•						٠										
0	ONHU0604AN-W	6.15	15.875	4.97	6	0.8	-									•													
Inserts are	suitable for both	*	Recomr	nende	d gra	ade (	alwa	ays	stoc	k av	aila	ble)	) (	A	vaila	ble	gra	ide	(alw	ays	sto	ock a	avail	able	e)	0	Mal	(e-to	o-ordei

 Inserts are suitable for both left and right cuts.

P	N			<u> </u>	Good	l wor	kina	cond	ditio	n 😐	No	rma	l wc	orkin	acc	ondit	ion	<u>(</u>	Bad	wor	kino		nditi	on				_
			5	Stee			-	(1)		_					-		$\odot$	<u> </u>			0				$\odot$	$\bigotimes$		
	ØI.C		/orkp	Stain	less s	teel		<u></u>									<u></u>				$^{\circ}$				0			
	ød <u>t-tt</u>		Workpiece material	Cast	iron								•	$\odot$							$\odot$						$\odot$	(2)
			mate		ferrou	is me	etal						-	-	-					_	_						(	<u> </u>
DS			erial	Heat re	esistant a	alloy, Ti	alloy								0	<b>(</b>	<u></u>	•				•	$\odot$					
		В	asic di	mens	ions	(mm	)		С	VD	Со	atin	ıg				P١	/D	Coa	atin	g			Cer	met			ented
Insert shape	Turpo																-		-						с С		carb	ide
insen snape	Туре	L	ØI.C	S	ød	bs	а <sub>р</sub>	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
	PNEG110512R-CF	5.4	15.875	5.56	4.64	1.6	5				-		•	-	-			- -		-				-		-	-	
3	PNEG110512L-CF	5.4	15.875	5.56	4.64	1.6	5						•															
	PNEG110512R-CM	5.4	15.875	5.56	4.64	1.6	5						•				_										-	
63	PNEG110512L-CM	5.4	15.875	5.56	4.64	1.6	5						•															
	PNEG110512R-CR	5.4	15.875	5.56	4.64	1.6	5						•	•														_
53	PNEG110512L-CR	5.4	15.875	5.56	4.64	1.6	5						•	•														
		★Re	commer	nded g	grade	(alw	ays s	stoc	k av	aila	ble)		• A	vaila	able	gra	ide (	alw	ays	sto	ck a	avail	labl	e)	0	Ma	ke-to	o-orde

Milling inserts milling tools

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		7	5		eel	000 1	vorking			_	_		li wo	JIKIN	-	(L)		-	_	woi	C	j coi			$\odot$	$\cong$		
	ØI.C Ød	_	Workpiece material	M St	ainles	s ste	el		<u>.</u>		<u></u>					<u>.</u>					0				$\odot$			
			ece n	KCa	ast iro	n							•	$\odot$	0					٢	0						0	8
L L			nateri	NN	on-feri	rous	metal																				(	98
			<u>a</u>	S He	at resista	ant allo	oy, Ti alloy								0	•	<b>(</b>	•				<b>(</b>	$\odot$					
		I	Basic c	dimen	sion	s(m	m)		С	VD	Со	atir	ng				P	٧D	Со	atir	ng			Ce	rmet		eme carb	ented ide
Insert shape	Туре	L	ØI.C	S	ød	r	a <sub>p</sub> max	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
ê	PNEG110512-GL	7.5	15.875	5.56	4.64	1.2	5.5				•						•	*										
Ô	PNEG110530-GM	7.5	15.875	5.56	4.64	3.0	5.5				•						•	*										
Ô	PNEG110530-GH	7.5	15.875	5.56	4.64	3.0	5.5				•						•	*										
Inserts are suita	ble for both	★F	Recomm	nende	d grad	de (a	always	stoc	k av	/aila	able	)	•A	vail	able	gra	ade	(alw	/ays	sto	ock a	avai	labl	e)	С	Ma	ke-to	o-orde

 Inserts are suitable for both left and right cuts.

# **MILLING** Indexable Milling Tools

Ρ	N																											
				Ps		ood v	working	_		_	_		ıl wo	orkin	-			-		wor	king	g co	nditi		60			
<u> </u>	ØI.C	ĺ	Workpiece	M S		o ot	a al			<b>(</b> )											0 00				0 0			
	d d		<piec< td=""><td></td><td></td><td></td><td>eei</td><td><u></u></td><td>•</td><td>•</td><td><b>U</b></td><td></td><td></td><td></td><td></td><td>U</td><td><u>()</u></td><td>2</td><td></td><td><u></u></td><td></td><td></td><td></td><td><b>V</b></td><td><b>V</b></td><td></td><td><u></u></td><td>6</td></piec<>				eei	<u></u>	•	•	<b>U</b>					U	<u>()</u>	2		<u></u>				<b>V</b>	<b>V</b>		<u></u>	6
				Kc									e	$\odot$	V				(	<u>.</u>	0					1	0	8
b	s S		material	-			metal								_								~				(	28
		I	<u>m</u>	S He	at resist	ant allo	oy, Ti alloy								0	•	<b>()</b>	<b>::</b> )				(***	$\odot$					
			Basic (	dimer	nsion	s(m	m)		С	VD	Со	atin	ng				P١	′D	Coa	atin	ıg		•	Cer	met			nted ide
Insert shape	Туре	L	ØI.C	S	ød	bs	apmax	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
-	PNEG110512R-PF	7.5	15.875	5.56	4.64	1.4	7.5		★		•																	
	PNEG110512L-PF	7.5	15.875	5.56	4.64	1.4	7.5		*		•																	
642	PNEG110512R-PM	7.5	15.875	5.56	4.64	1.4	7.5		★		•																	
	PNEG110512L-PM	7.5	15.875	5.56	4.64	1.4	7.5		★		•																	
642	PNEG110512R-PR	7.5	15.875	5.56	4.64	1.4	7.5		*		•																	
	PNEG110512L-PR	7.5	15.875	5.56	4.64	1.4	7.5		★		•																	

Indexable Milling inserts milling tools

★Recommended grade (always stock available) ●Available grade (always stock available)

OMake-to-order

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		_	_	_	🙄 G	ood \	working	con	ditio	n Ҷ	No	orma	al wo	orkir	ig co	ondit	tion	8	Bad			g coi							
		í	×	Ps	steel			<b>(</b>	(***	<b>(</b>	<b>(</b>	$\odot$				<b>(</b>	$\bigcirc$	2	<b>('')</b>		$\odot$			$\odot$	$\bigcirc$	$\odot$			
	ØI.C ød‡-	_	Workpiece	<mark>M</mark> s	tainle	ss ste	eel	<u></u>	<u></u>	<u></u>	<mark></mark>	$\bigotimes$				<b>(</b>	<u></u>	•	$\bigotimes$		0			0	$\bigcirc$	8			
				Kc	ast irc	on							(***	$\odot$	$\bigcirc$					•	$\bigcirc$						$\bigcirc$	6	9
r yee		-	material	ΝΝ	lon-fer	rous	metal																				(	•	3
<u> </u>	I S		rial	SH	eat resis	tant allo	oy, Ti alloy								$\odot$		<u>.</u>	•					$\overline{\mathbb{C}}$						
							_																			Ce	eme	enteo	4
			Basic o	dime	nsion	s(m	m)		С	VD	Со	atir	ng				P١	/D	Coa	atir	ng			Cer	met		carb		
Insert shape	Туре	L	ØI.C	S	ød	r	a <sub>p</sub> max	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	
(2)	PNEG110512-KL	6.5	15.875	5.56	4.64	1.2						<u>,</u>	•	•	-	-	<u>,</u>	-	-		-					-	-		
	PNEG110512-KM	6.5	15.875	5.56	4.64	1.2	6.5						•	•															
0	PNEG110512-KH	6.5	15.875	5.56	4.64	1.2	6.5						•	•															
Inserts are suita	ble for both	★F	Recomm	nende	ed gra	de (a	always s	stoc	k av	vaila	ble)	, ,	ΦA	vaila	able	gra	de (	alw	ays	sto	ck a	avail	able	e)	0	Ma	ke-to	o-ord	er

left and right cuts.

C					<u> </u>		ling		lition		Nie				oond	ition	<u></u>	Ded		which a		n diti					
	ç			PSt	🙄 Goo eel	oa wor	кıng	conc					worki	ing			<u> </u>		wo	rking	ј со	nditi		$\bigcirc$			
	R or C	R or C	Nork		ainless	steel		<u> </u>								<u> </u>				0				<b>0</b>			
		Lamax	piece		ast iron				•	<u> </u>	<u> </u>		<u>.</u>	) (					<u>(</u>	0			-	-		0	6
			Workpiece material		on-ferro		etal																			(	
		4	rial	S He	at resistan	t alloy, T	i alloy							(	9 🙂	(***	"					$\odot$					
					• •		_			(5	~					-		0							Ce	me	nted
		В	asic di	mens	sions(i	nm)	1		C	VD	Coa	ating	g			Р	VD	Co	atır	ng			Cer		Ca	arbi	ide
Insert shape	Туре	S±0.025	Lamax	R/C	ØI.C	S1	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152 YBD252	1010	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	151	101
								YBC	YBC	YBN	ΥBΛ	YBN	YBC		YBC	YBC	ΥBG	YBC	ΥBC	ΥBO	ΥBS	ΥBS	γNC	ΥNC	Ϋ́	Х С	YD101
	QC16L110-R01	1.10	2.00	R0.1	9.525	3.18	4.4								0	0											
	QC16L125-R02	1.25	2.00	R0.2	9.525	3.18	4.4								0	0											
	QC16L145-R02	1.45	2.00	R0.2	9.525	3.18	4.4								0	0											
	QC16L150-R02	1.50	2.00	R0.2	9.525	3.18	4.4								0	*											
	QC16L175-R02	1.75	2.00	R0.2	9.525	3.18	4.4								0	0											
	QC16L185-R02	1.85	2.50	R0.2	9.525	3.18	4.4								0	0											
	QC16L200-R02	2.00	2.50	R0.2	9.525	3.18	4.4								0	*											
	QC16L250-R02	2.50	2.50	R0.2	9.525	3.18	4.4								0	*											
	QC16L300-R02	3.00	3.00	R0.2	9.525	3.18	4.4								0	*											
	QC22L125-R02	1.25	2.00	R0.2	12.70	4.76	5.5								0	0											
	QC22L145-R02	1.45	2.00	R0.2	12.70	4.76	5.5								0	0											
	QC22L150-R02	1.50	3.50	R0.2	12.70	4.76	5.5								0	*											
	QC22L175-R02	1.75	3.50	R0.2	12.70	4.76	5.5								0	0											
	QC22L185-R02	1.85	3.50	R0.2	12.70	4.76	5.5								0	0											
	QC22L200-R02	2.00	3.50	R0.2	12.70	4.76	5.5								0	*											
	QC22L230-R02	2.30	3.50	R0.2	12.70	4.76	5.5								0	0											
	QC22L250-R03	2.50	4.00	R0.3	12.70	4.76	5.5								0	*											
	QC22L265-R03	2.65	4.00	R0.3	12.70	4.76	5.5							-	0	0											
	QC22L280-R03	2.80	4.00	R0.3	12.70	4.76	5.5							-	0	0											
	QC22L300-R03	3.00	4.00	R0.3	12.70	4.76	5.5								0	*											
	QC22L320-R03	3.20	4.00	R0.3	12.70	4.76	5.5								0	0											
	QC22L330-R03	3.30	4.00	R0.3	12.70	4.76	5.5								0	0											
	QC22L350-R03	3.50	5.00	R0.3	12.70	4.76	5.5								0	*											
	QC22L400-R04	4.00	5.00	R0.4	12.70	4.76	5.5								0	*											
	QC22L430-R04	4.30	5.00	R0.4	12.70	4.76	5.5								0	0											
	QC22L450-R04	4.50			12.70											0											
	QC22L480-R04	4.80			12.70											0											
	Q02221400-1104		Recomn						_							_											

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

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# B MILLING / Indexable Milling Tools

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R																										)
	S	Workpi	C Goo Steel Stainless	od working steel	<b>(</b>	<b>(</b>	on ( <u>"</u> (") (")	•		l wo	rking	(	<b>(</b>	ion (	9			king C C	con		0	© ©				
Øic	ød 7°	Workpiece material	Cast iron Non-ferro Heat resistan												9			0		8				C		
		Basic c	limensior	ns(mm)		С	VD	Co	atin	g				P\	D'	Coa	atin	g			Cerr	met		eme carb		
Insert shape	Туре	ØI.C	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
0	RCKT10T3MO-DM	10.0	3.97	4.4	•									*												
	RCKT1204MO-DM RCKT1606MO-DM	12.0 16.0	4.76	4.0	•		•		•	0			•	*		•										_
			6.35	5.56									_			•										
0	RCKT1204MO-DR	12.0 16.0	4.76 6.35	4.0 5.56	•		0		•		0		•			•										
	RCKT2006MO-DR RCKT1204MO-ER	20.0 12.0	6.35 4.76	6.55 4.0	•			*	•		0		0	*		•										_
E	RCKT1606MO-ER RCKT2006MO-ER	16.0 20.0	6.35 6.35	5.56 6.55				* *																		
	RCKT1204MO-NM RCKT1606MO-NM	12.0 16.0	4.76 6.35	4.0 5.56				0							0				0							

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

	C ap 7° t ap 5		•	rkpiece mate	nard material	UNORMA	working co		Bad workir	eg conditio
			Basic dimer	isions(mm)		PC	BN	Cen	nented car	bide
Insert shape	Туре	ØI.C	S	ød	a <sub>p</sub> max	BK1041	BK2531	YD051	YD101	YD201
	RCMW1204MOBS01225	12.0	4.76	4.1	2.7	0	0			
9	RCMW1204MOAS01225	12.0	4.76	4.1	2.7	0	0			

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

Indexable Milling inserts milling tools

MILLING Indexable Milling Tools

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	S	No C	Steel	od working	•	"	(1)	(!)		il wo	orkin	-	<b>(</b>	0	9	9		ing o	con	(	0	0			
		orkpie	Stainless		•	<u></u>	•	<u></u>					<u></u>	•	•			9		(	0	0			
	ød <u>l</u>	Workpiece material	Cast iron							٢	$\odot$	0				(	) (	9					G	0	(2)
Øi.c		ateria	Non-ferro									0	<u></u>	<u>()</u>	<b>m</b>			6						C	98
- <u>01.0</u>			Heat resistant	t alloy, Ti alloy								$\lor$	<u> </u>	<b>()</b>	9			•		2					
		Basic o	limensior	ns(mm)		С	VD	Co	atin	ng				ΡV	D	Coa	ing	9		(	Cern	net		mer arbio	nted de
Insert shape	Туре	ØI.C	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	7B932U	YBG302		782987	002001	YBS303	YNG151	YNG151C	YC30S		YD201
	RDKW0702MO	7	2.38	2.8			0		•				•								_	-			
	RDKW0803MO	8	3.18	3.4	0				0				•	*		0									
	RDKW10T3MO	10	3.97	4.4	0				•				•	*											
	RDKW1204MO	12	4.76	4.4	•		•		•				•	*		•									
	RDKW1605MO	16	5.56	5.5	0				0				0	*		0									
	RDKW2006MO	20	6.35	6.5	0				0					0											
0	RDKT10T3MO-NM	10	3.97	4.4										0				(	) (	C					
		Pecommer																							order

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

R																									
		<	C Stee		working			_	Noi		wor	king	g con		- <u> </u>	Bac	l wo	rking	g con	-		$\odot$			
	ØI.C	Vo Vo	M Staiı		eel				<u>.</u>									0				0			
	ød <u>i</u>	iece n	Cast	t iron						(	2	2	0				۳	$\bigcirc$					(	0	(2)
	S	nateri	N Non	-ferrous	metal																			C	9 🙁
×	i-steri	<u></u>	S Heat r	esistant all	oy, Ti alloy							(	0						<u>(</u>	8					
		Basic	dimer	nsions	(mm)		C	VD	Coa	atin	g			F	vVD	Сс	atir	ng			Cerr	net		emen arbio	
Insert shape	Туре	ØI.C	L	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102 VBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051 VD101	YD201
	ROHX1203	12	8.5	3	4													0							
0	ROHX1604	16	11.3	4	5													0							
	ROHX2005	20	14.1	5	5													0							

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

# B MILLING / Indexable Milling Tools

S		)																									
ØI.C		-	Vorkpie	Ste	inless	steel			ditior		<b>(</b> )	2	worki		ondi (11)	$\odot$	٢	<b>(</b>		rking CO CO	g cor	nditi	ion ©	0		Ô	•
		-	ial	Heat	resistan	t alloy, <sup>-</sup>	Ti alloy							0	<b>(</b>	<b>(</b>	<b>(</b>			•	۳	2			C	me	entec
la sent strange	Tura	B	asic di	imens	sions	(mm	)		C,	٧D	Coa	ting	3			P	۷D	Co	atir	ng			Cer	rmet		arb	
Insert shape	Туре	r	L	ØI.C	S	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152 YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101
	SDMT090308	0.8	9.525	9.525	3.18	4.4	15°	-		0								0							-		
		★Re	comme	ended	grade	e (alw	/ays s	stocl	k av	aila	ble)		Avai	able	e gra	ade	(alv	ays	s sto	ock a	avail	labl	e)	С	Ma	ke-te	o-ord
ØI.C	ød		Vorkpie	Ste	inless	steel us m	etal		~	~	<b>(</b> )	2	worki		<b>(1)</b>	tion	<b>(</b> )	~		rkinç © ©	g coi		ion ©	0			(L) (L) (K)
		В	asic di	imens	sions	(mm	)		C,	٧D	Соа	iting	3			Ρ	٧D	Со	oatir	ng			Cei	rmet		eme carb	enteo ide
Insert shape	Туре	ØI.C	L	r	S	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152 YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101
	SDMT06T208-DM	6.35	6.35	0.8	2.58	2.5	15°		*	Í		*			-	ŕ	•	0		-	ŕ	•		Í		ŕ	
	SDMT09T312-DM	9.525	9.525	1.2	3.97	4.0	15°		*			*					•	0									
	SDMT120412-DM	12.7	12.7	2.0	4.76	4.4	15°		*			*		<b> </b>		*		0									
	SDMT150520-DM SDMT06T208-PM	6.35			5.56 2.58		15°		* *		0	*		-		•	•	0		_	•	•	_	_			
	SDMT00T200-FM		9.525		3.97		15°		^ ★		•					•					•	-					
0				2.0	4.76	4.4	15°		*		•					•											
9	SDMT120412-PM	12.7	12.7								•					•											
2			12.7 5 15.875		5.56	5.5	15°		*																		
9	SDMT120412-PM		5 15.875	2.0	5.56 2.58		15° 15°		*		•											•					
	SDMT120412-PM SDMT150520-PM	15.875 6.35	5 15.875	2.0 0.8	2.58				*		-										0						
	SDMT120412-PM SDMT150520-PM SDMT06T208-NM	15.875 6.35	6.35	2.0 0.8	2.58	2.5 4.0 4.4	15° 15° 15°		*		•						0				0	0					

Indexable Milling inserts

S	E																												
	S 29°, 90°			< C	C Steel	Good w	orking/		_	on (L			ıl wo	orkin		ndit	_		_	wo	rking	g co			$\odot$	8			
ØI.C 🧭	<u>1</u> 90	,20°		orkpie	Stain	ess ste	el		۳	<u></u>	<u></u>	8				•	•	<u>•</u>	8		0			0	$^{\circ}$	8			
	Ø ø	л <mark>т П</mark>		ice m	Casti								<b>(</b>	(2)	$\bigcirc$					۳	$\bigcirc$						0	6	
	L bs	4		Workpiece material		errous									0	<u> </u>	<u></u>	<u></u>				<u>(</u>							3
							y, 11 alloy								•			_				•	•			Ce	me	ntec	
			Basic	dime	nsions	s(mm)			С	VD	Co	atin	ıg				P١	٧D	Co	atir	ıg			Cer			arb		
Insert shape	Туре	L	ØI.C	S	ød	bs	R	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	וחקחן
	SEET12T3-DF	13.4	13.4	3.97	4.1	2.55			*							_	*		0		-		-						
9	SEET12T3-CF	13.4	13.4	3.97	4.1	2.55							0		★		*		0										
	SEET12T3-EF	13.4	13.4	3.97	4.1	2.55											*		0										
	SEET12T3-DM	13.4	13.4	3.97	4.1	2.55		•	*	•		0					×		*										
_	SEET18T6-DM	18.0	18.0	6.1	5.5	1.5			0		0																		
9	SEET12T3-CM	13.4	13.4	3.97	4.1	2.55							*				*		0										
	SEET12T3-EM	13.4	13.4	3.97	4.1	2.55				•		•					*		*										
	SEET18T6-EM	18.0	18.0	6.1	5.5	1.5					0							0											
_	SEET12T3-DR	13.4	13.4	3.97	4.1	2.55		•	*			•					★		*										
	SEET12T3-CR	13.4	13.4	3.97	4.1	2.55		•					*				*		*										
	SEET12T3-LH	13.4	13.4	3.97	4.1	2.55									-												1	0,	-
	SEET12T3-W	17.82	13.4	3.97	4.1	9.46	500		*	•			*				*							*					-
	SEET18T6-W	24.78	18.0	6.1	5.5	11.0	500										0												
		l	l	1	l	L	I	1																	l				
•						ØI.C		e e e e e e e e e e e e e e e e e e e	B 45	D D	s s	9° *	ø	20°4 d	o <u> </u>														

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

Milling inserts Indexable milling tools

# B MILLING / Indexable Milling Tools

S		)		🙄 Good	working	con	ditio	n 😐	No	orma	l wc	orkin	a co	ndit	ion	i (	Bad	woi	rkinc	1 CO	nditi	on					
ØI.C	25° 45° 20°		Workpiece materia	eel ainless st	teel s metal	۳		۳	(1)	<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>				<b>()</b>		<b>()</b>	( <u>)</u>		0 0 0	•		0			0		
		Bas	ic dime	nsions(r	mm)		C	VD	Co	atin	ıg				P١	/D	Coa	atir	ng			Cer			eme carb	nteo ide	d
Insert shape	Туре	L	ØI.C	S	bs	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SEEN1203AFTN	12.7	12.7	3.18	1.8									0								•					
	SEKN1203AFFN	12.7	12.7	3.18	1.8								★														
	SEKN1203AFN	12.7	12.7	3.18	1.8	•								0										•		(	0
	SEKN1203AFTN	12.7	12.7	3.18	1.8	•		•		•				★			0							•			•
	SEKR1203AFN	12.7	12.7	3.18	1.8	•								0			0										
	SEMR1203AN-M	12.7	12.7	3.3	-										•												
-	SEKR1203AN-M	12.7	12.7	3.3	-										•												
_	SEKN1504AFN	15.875	15.875	4.76	1.6	•		•							_											(	•
	SEKN1504AFTN	15.875	15.875	4.76	1.6	0		•		•							0							•		•	•
	SEKR1504AFN	15.875	15.875	4.76	1.6							*					*							•			
	SEMR1504AN-M	15.875	15.875	4.9	-										•												
	SEKR1504AN-M	15.875	15.875	4.9	-										•												

Indexable Milling inserts milling tools

	SE			00	Good w	orking	con	ditio	n ( <u>''</u>	No	orma	l wo	orkin	g co	nditi	ion (	e e	3ad v	vor	king		nditi					
	<u>r</u> s	Ī	εP	Steel		0	_		(***	_				-	<b>(</b> )		9		-	0			$\bigcirc$	$\odot$	$\odot$		
ØI.C			Workpiece material	Stainle	ess stee	əl	•	•	•	•	8				•	😐 (	•	2		0			$^{\circ}$	$^{\circ}$	8		
	ød	-		Cast ir	on							(1)	$\odot$	$\odot$				(	2	$\odot$					6	)	$\odot$
	20		nater	Non-fe	errous r	netal																				C	98
90°	L ·			Heat resi	stant alloy	, Ti alloy								0		•					<b>(</b>	8					
		Ba	sic dim	nensio	ons(m	m)		С	VD	Со	atir	ng				PV	D	Coa	itin	ıg			Ceri	met		men arbio	nted de
Insert shape	Туре	L	ØI.C	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S		YD201
	SEET09T308PER-APF	9.525	9.525	4.01	3.3	0.8					•	*			•		*										
	SEET120308PER-APF	13.308	13.308	4.04	4.1	0.8					•	★			•		*										
-		0.505	0 505												_										_		
	SEET09T308PER-APM	9.525	9.525	4.01	3.3	0.8					•	*			•		*										
	SEET120308PER-APM	13.308	13.308	4.04	4.1	0.8					•	*			•		*										
	SEET09T308PER-APR	9.525	9.525	4.01	3.3	0.8				_	•	*			•		*	_	_								
	SEET120308PER-APR	13.308	13.308	4.04	4.1	0.8					•	*			•		*										

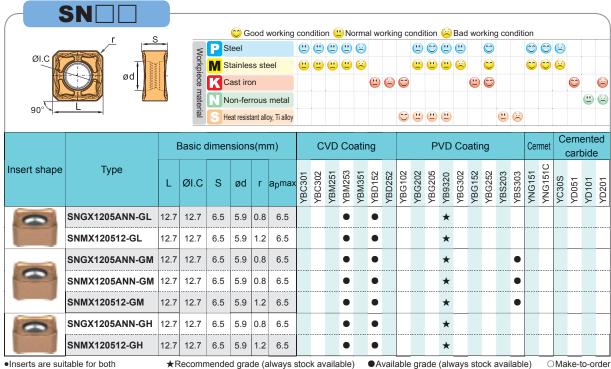
★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

S	N			()	Goo	d wor	kina	con	ditic	n 住	<u>.</u> N	orma	al wo	orkin		ondit	ion		Bad	wo	rkind	0.0	nditi	on					7
		i	<	Stee				(1)							-	(1)		$\overline{\odot}$	_		$\odot$	,		_	$\odot$			ĺ	
ØI.C			Vork	Stai	nless	steel				<u> </u>	-	Ť					<u> </u>	_			0				0				
			<u></u>	Cas							<u> </u>		•	$\odot$		_	<u> </u>	<u> </u>		<b>(</b>	$\odot$			-	-		$\odot$	(	$\geq$
	Ød-		mat		-ferrou	is me	etal						•	•	•					•	•						-		
	bs S		terial		resistant										$\odot$	<u></u>	<u> </u>	<u>(1)</u>				(1)						•	
				пеа	CSISIGIII	alioy, i	I allOy								$\lor$	•	•					Θ	$\circ$						_
		Ва	asic c	limer	sions	s(mr	n)		С	VD	С	oatir	ng				P	VD	Co	atir	ng			Cer	met		eme carb	ente ide	d
Insert shape	Туре	L	ØI.C	S	bs	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
Contraction of the local division of the loc	SNEG1205ANR-GM	7.6	12.0	4.76	1.05	4.6	0.8	ſ	*	<i>_</i>	*	ŕ	*	ſ			*		~			0	0	ſ	_	^	<u>_</u>		
	SNEG1506ANR-GM	9.4	15.0	5.54	1.30	5.5	0.9		*		*		*				*						0						
	SNEG1205ANR-HGR	7.6	12.0	4.76	1.05	4.6	0.8		*		*			0			*	*									_		
10	SNEG1506ANR-HGR	9.4	15.0	5.54	1.30	5.5	0.9		*		*			0			*	$\star$											
	SNEG1907ANR-HGR	12.1	19.0	7.0	1.67	7.2	1.0		$\star$		$\star$			0			★	$\star$											
	SNEG1205ANR-W	15.9	12.0	4.76	4.07	4.6	0.6										•												
	SNEG1506ANR-W	19.9	15.0	5.54	4.97	5.5	0.9										•												
9					L				I.C r s	ød	°,	S.																	

★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order

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#### MILLING Indexable Milling Tools



•Inserts are suitable for both left and right cuts.

SN 🙄 Good working condition 😐 Normal working condition 😩 Bad working condition □ □ □ □ 008 Steel  $\odot$ workpiece ØLC •••••• ••••• 0 000 M Stainless steel ød Cast iron 🙂 😂 😂 8 materia <u>.</u> Non-ferrous metal 90 (1) (2) Heat resistant alloy, Ti alloy  $\odot$   $\square$   $\square$   $\square$ Cemented Basic dimensions(mm) **CVD** Coating **PVD** Coating Cermet carbide YNG151 YNG151C Insert shape Туре /BC302 /BM251 rBM253 /BM351 YBD152 YBG102 YBG202 /BG205 YB9320 /BG302 /BG152 YBG252 YBS203 YBS303 YBD252 /BC301 YC30S L ØI.C YD051 YD101 S ød r apmax /D201 SNGX1205ENN-GL 12.7 12.7 6.5 5.9 0.8 8.0 \* SNMX120512-GL 127 127 65 59 12 80 \* SNGX1205ENN-GM 12.7 12.7 6.5 5.9 0.8 8.0 • \* 1.2 SNMX120512-GM 12.7 12.7 6.5 5.9 8.0  $\star$ SNGX1205ENN-GH 12.7 5.9 0.8 8.0 • 12.7 6.5 \* SNMX120512-GH 12.7 12.7 6.5 5.9 1.2 8.0  $\star$ 

●Inserts are suitable for both ★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order left and right cuts.

Milling inserts

	r	S	5	P St	eel		🙄 G	-	(L)	-					-		-	-	<u>(</u>	1		0			-				_
ØI.C		TH	Workpiece	M St	ainles	s ste			<u> </u>										<u>.</u>			0				$\odot$			
	ød		iece	K Ca	ast iro	n							<b>(</b>	$\odot$	$\odot$	$^{\circ}$					•	$^{\circ}$					Ç	0	6
90.~			material	N	on-fer	rous	metal																					Ľ	) (
90 -			ia	S He	at resista	ant allo	y, Ti alloy								0		2	<b>(</b>	(1)				•	$\bigotimes$					
		E	Basic (	dimen	ision	s(m	m)		C	VD	Со	atir	ng				I	PVI	D C	coat	ing				Ceri	met		men arbid	
Insert shape	Туре	L	ØI.C	S	ød	r	apmax	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG105	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD101	
0	SNGX1205PNN-GL	12.7	12.7	6.5	5.9	0.8					•		•						*										
	SNMX120512-GL	12.7	12.7	6.5	5.9	1.2	10.5				•		•						*										
0	SNGX1205PNN-GM	12.7	12.7	6.5	5.9	0.8	10.5				•		•						*					•					
	SNMX120512-GM	12.7	12.7	6.5	5.9	1.2	10.5				•		•						*					•					
	SNGX1205PNN-GH	12.7	12.7	6.5	5.9	0.8	10.5				•		•						*										
	SNMX120512-GH	12.7	12.7	6.5	5.9	1.2	10.5				•		•						*										
0	SNCU120420-W4	12.7	12.7	4.8	5.9	2	10.5									•													

left and right cuts.

S				<u> </u>	Good w	orkina	con	ditic	n (	No	orma	Iwo	orkin		ndi	tion		Bad	wo	rkinc								
ØI.C		Ī	s P	Steel		orrang								9.00	(***		<u> </u>			0	,			$\odot$	$\odot$			-
			Workpiece material	Stainle	ess stee	el	•		•	<u>.</u>	$\overline{\mathbb{C}}$				<u>.</u>					0								
	ød	-		Cast ir	on							•	$\odot$	$\bigcirc$					<b>(</b>	0						$\bigcirc$		$\odot$
<u>r</u>			mate	Non-fe	errous r	netal																					<b>(</b>	
I I			rial S	Heat resi	stant alloy	/, Ti alloy								$\odot$	•	•	(1)				•	$\odot$						
		Ва	sic dir	nensi	ons(m	nm)		С	VD	Со	atir	ıg				P	VD	Со	atir	ng			Cer	met		eme carb		
Insert shape	Туре	L	ØI.C	r	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SNGU120620-GM	12.7	12.7	2.0	5.6	4.4				•						•	•											
	31400120020-014		12.7		0.0																							

★Recommended grade (always stock available) •Available grade (always stock available) OMake-to-order

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Milling inserts milling tools

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MILLING / Indexable Milling Tools

S			(	🈏 Good work	ing condition	P Normal working	g condition 😑 Ba	d working condition
	ØIC		Workpiece	K Cast ir	on		©	8
	ap S		material	Non fe	rrous metal	<b></b>		٢
Incort chone	Tumo		Basic dime	nsions(mm	)	PCD	PCBN	Cemented carbide
Insert shape	Туре	ØI.C	S	ød	apmax	DN1021	BK1021	YD201
(complete and the second se	SEHT12T3AFFN-AL	12.7	3.97	4.4	6.6			*

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

				🙄 Good work	ing condition	Normal working	) condition 😣 Ba	d working condition
			workpiece	Cast ir	on		Ô	8
	Ød Ølc		ce material		errous metal	<u>.</u>		۳
lange of the second	Tura		Basic dime	ensions(mm	)	PCD	PCBN	Cemented carbide
Insert shape	Туре	ØI.C	S	ød	apmax	DN1021	BK1021	YD201
	SEHT12T308AFFN-PCD	12.7	3.97	4.4	2.5	*		
	SEHT12T308AFFN-CBN	12.7	3.97	4.4	2		0	

CBN insert edge can be treated as per \*Recommended grade (always stock available) •Available grade (always stock available) OMake-to-order machining requirements

ØI.C			Workpiece material	P St M St Ca N No		s stee n rous m	I	<b>(</b>	<b>(</b> )	on (	•	<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul>			0		ion (		8 8		rking © ©	g co		$\bigcirc$		8			
		В	Basic o						С	VD	Со	atir	ng	-			_	_	Coa	atir	ng			Cer	met			ente bide	
Insert shape	Туре	r	L	ØI.C	s	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SPMT060304	0.4	6.35	6.35	3.18	2.8	11°			0									0										
	SPMT120408	0.8	12.7	12.70	4.76	5.5	11°	•		•		•							★							0			
	SPMT120408-PM	0.8	12.7	12.70	4.76	5.5	11°				★								•										
	SPMT120408-KM	0.8	12.7	12.70	4.76	5.5	11°												•	0									
Constant of																													
0	SPKT1204EDR		12.7	12.7	4.76	5.56	11°									*													

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

Indexable Milling inserts milling tools

Indexable Milling Tools

S	P□N																									
					ood w	orking	_	_	- 1	_	_	al wo	orkin	-	-		_		-	1	ndit			$\sim$		
		s ,						<b>(</b>											0				$\bigcirc$			
ØI.C				Stainles		el .	۳	<u></u>	۳	۳					<b>e</b>	•	26		0			U	$\bigcirc$			
	75° 15°	• <del></del> -		Cast irc		estal						e	8	0				e	0					(	0	
	11°	_	eri:	leat resist										$\bigcirc$	<u> </u>	•	•			<u></u>	$\approx$					
<sub>≠</sub>	->  			1001 100101	an aioy,	TI allOy											<b>-</b>			-	0			-		
		Bas	sic dime	ensio	ns(mr	n)		С	VD	Co	atir	ng				ΡV	DC	oati	ng			Cer	met			nted ide
Insert shape	Туре	L	ØI.C	s	be	bs	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	VRG302	YBG152	YBG252	YBS203	YBS303	YNG151	151C	0S	51	01
							YBC	YBC	YBN	YBN	YBN	YBD	YBD	ΥBG	YBG	YBG		YBG	YBG	YBS	YBS	YNG	ΥNG	YC30S	YD051	YD101 YD201
	SPKN1203EDER	12.7	12.7	3.18	1	1.4									0											
	SPKN1203EDEL	12.7	12.7	3.18	1	1.4									0											
	SPKN1203EDFR	12.7	12.7	3.18	1	1.4								★	0											٠
	SPKN1203EDFL	12.7	12.7	3.18	1	1.4								0	0											0
	SPKN1203EDSKR	12.7	12.7	3.18	1	1.4											C	)						0		
	SPKN1203EDSKL	12.7	12.7	3.18	1	1.4											C	)						0		
	SPKN1203EDTKR	12.7	12.7	3.18	1	1.4	•				•				0		*	r						•		0
	SPKN1203EDTKL	12.7	12.7	3.18	1	1.4									0		C	)						0		0
	SPKN1203EDS31R	12.7	12.7	3.18	1	1.4											C	)						0		
	SPKN1203EDS31L	12.7	12.7	3.18	1	1.4											C	)						0		
	SPKN1203EDT31R	12.7	12.7	3.18	1	1.4	•				•				0		*	٢						•		0
	SPKN1203EDT31L	12.7	12.7	3.18	1	1.4									0		C	)						0		0
	SPKN1504EDER	15.875	15.875	4.76	1	1.4									0											
	SPKN1504EDEL	15.875	15.875	4.76	1	1.4									0											
	SPKN1504EDFR	15.875	15.875	4.76	1	1.4									0											0
	SPKN1504EDFL	15.875	15.875	4.76	1	1.4								0	0											0
	SPKN1504EDSKR	15.875	15.875	4.76	1	1.4											C	)						0		
	SPKN1504EDSKL	15.875	15.875	4.76	1	1.4											C	)						0		
· · · · ·	SPKN1504EDTKR	15.875	15.875	4.76	1	1.4	٠								*		C	)						•		٠
	SPKN1504EDTKL	15.875	15.875	4.76	1	1.4									0		C	)						0		•
	SPKN1504EDS32R	15.875	15.875	4.76	1	1.4											C	)						0		
	SPKN1504EDS32L	15.875	15.875	4.76	1	1.4											C	)						0		
	SPKN1504EDT32R	15.875	15.875	4.76	1	1.4	•								*		C	)						•		•
	SPKN1504EDT32L	15.875	15.875	4.76	1	1.4									0		C	)						0		•
																				_		<u> </u>	1		_	

★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order

Ordering guide: SPKN1203EDT3 1 R chamfering angle 20°, chamfering width 0.15mm. For other edge shapes, see inserts code key standard.

Milling inserts Indexable milling tools

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MILLING

# B MILLING Indexable Milling Tools

S	PUW			(	🙄 Go	od wa	orking	con	ditio	n 住	No	rma	ıl wo	orkir	ng co	ondit	tion	8	Bad	wo	rkin	g cor	nditi	on				
	S	-	×	PSte	eel			<b>(</b>	۳	<b>(</b>	<b>(</b>	$\odot$				•	<b>(</b>	$\odot$	$\odot$		$^{\odot}$			$\odot$	$^{\odot}$	$\odot$		
ØI.C			Workpiece material	M Sta	ainles	s steel	I	<b></b>	•	<u>•</u>	<b>!!</b>	8				<u>.</u>	<u></u>	<u>.</u>	$\bigotimes$		0			$^{\circ}$	0	$\bigotimes$		
	ød -	-	ece n	K Ca	st iror	۱							۳	٢	0					۳	0						$\bigcirc$	8
	75° 11°		nater	N No	n-ferr	ous m	etal																				(	28
90°			<u>a</u>	S Hea	it resista	nt alloy,	Ti alloy								0	<b>(</b>	<b>(</b>	<u></u>				<b>(</b>	$\odot$					
		В	asic c	dimen	sions	s(mm	I)		С	VD	Со	atin	ng				P	VD	Со	atir	ng			Cer	met		eme carb	nted ide
Insert shape	Туре	r	L	ØI.C	s	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
0	SPKW1204EDFR		12.7	12.7	4.76	5.56	11°									0												
<b>(</b>	SPKW1204EDSR		12.7	12.7	4.76	5.56	11°									0												
				1	[	[																		_				

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

///

		_		🧿 Goo	u woi	-						won	xii iy				-	wo		1 0011	-		_	_		
	s s	No	P Ste	el			<b>(</b>		(***	<b>(</b> )	$\odot$			(1)		$\odot$	8		$\bigcirc$		(	0	9(	8		
	TIDE Y	Workpiece	M Sta	inless	steel		<u>.</u>	<u>•</u>	<u>.</u>	•	$\odot$			<u>.</u>	<b>!!</b>	<b>!!</b>	8		$\bigcirc$		(	0	0	2		
			K Cas	st iron							(	90	) (	)				<b>(</b>	$\bigcirc$					C	٥	6
	7.75° 15°	material	N Nor	n-ferro	us me	etal					•														•	)
	- 11° <del>- −</del>	rial	S Heat	resistant	alloy, T	'i alloy							(	0	•	<b>(</b>					8					
		Basi	c dime	nsior	ıs(m	m)		C	VD	Co	ating	g			P	٧D	Со	atir	ng		(	Cerm	net	Cen ca	nent rbid	
Insert shape	Туре	L	ØI.C	S	be	bs	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	Y BU252	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD101	YD201
	SPKR1203EDR-GM	12.7	12.7	3.18	1	1.4			•					*			★							•		•
	SPKR1203EDL-GM	12.7	12.7	3.18	1	1.4			•					*			★							•		•
	SPKR1504EDR-GM	15.875	15.875	4.76	1	1.4			•					*			★							•		•
	SPKR1504EDL-GM	45.075	15.875	4.70	1	1.4								*			*									

 Available grade (always stock available) ade (always stock available)

	P□X	)		C	Goo	d wor	king	con	ditio	n 😐	Nor	rmal	l work	ing	condi	tion	(2)	Bac	l wo	rkinę	g con	ditic	on				
<u>- I.W</u>		5	×	Stee	el			<b>(</b>	<b>(</b>	<b>(</b>	<b>(</b> )	$\overline{\mathbf{C}}$			<b>(</b>	<b>(</b>	$\odot$	$\odot$		$\odot$			$\odot$	$\odot$	$\odot$		
	45°		Workpiece	🚺 Stai	nless	steel		<mark>(!!</mark>	<mark>(!)</mark>	<mark>(!!</mark>	<mark>()</mark> (	$\overline{\mathbb{C}}$			<u>_</u>	<u></u>	<u></u>	8		$^{\circ}$			0	$\bigcirc$	$\bigotimes$		
37	☞	A		Cas	t iron							(	•		9				۳	$\bigcirc$					(	0	$\odot$
bs	<u> </u>		material	Non	-ferro	us me	etal																			(	98
75°			ial	Heat	resistant	alloy, T	ï alloy							(	<mark>ت</mark> ت	<u></u>	<u></u>				<u></u>	2					
		В	asic d	imens	ions(	[mm]	)		C	VD	Coa	atin	g			Ρ	VD	Сс	atiı	ng			Cer	met		mei arbi	nted de
Insert shape	Туре	A	ØI.C	I.W	S	bs	R	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152 VBD752	202001	YBG102 YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD201
	SPEX1203EDL-1	15	12.7	12.7	3.18	10	500																				•
	SPEX1203EDR-1	15	12.7	12.7	3.18	10	500												_								•
	SPEX1504EDL-1	18.2	15.875	15.875	4.76	10	500																			0	•
	SPEX1504EDR-1	18.2	15.875	15.875	4.76	10	500																			0	•

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

SI				Good	working	con	ditio	n 住	No	orma	l wo	orkin	g co	ondit	ion		Bad	wor	rking		nditi	on					
	S	×	P Stee	ł		<b>(</b>	<b>(</b>	"	•	$\odot$			-	<u>.</u>	•	0	$\odot$		$\odot$			$\odot$	$\odot$	$\odot$			
	90° 11°	Workpiece	M Stair	nless ste	el	•	•	•	•	2				<u></u>	•	<u></u>	8		0			0	$^{\circ}$	8			
ØI.C			K Cast	iron							<b>(</b>	$\odot$	0					•	$\bigcirc$						$\bigcirc$		$\odot$
		material	Non-	-ferrous	metal																						$\odot$
r/		ia	S Heat r	esistant alle	oy, Ti alloy								0	<b>(</b>	<b>(</b>	•				•	$\bigotimes$						
		Basic	c dimen	sions(	mm)		С	VD	Со	atir	ng				P١	VD	Coa	atir	ng	·		Cer	met			ente bide	
Insert shape	Туре	L	ØI.C	S	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SPMR090304	9.525	9.525	3.18	0.4			0														0					
	SPMR09T304	9.525	9.525	3.97	0.4									0													
	SPMR090308	9.525	9.525	3.18	0.8			0																			
	SPMR120304	12.7	12.7	3.18	0.4			0														0					
	SPMR120308	12.7	12.7	3.18	0.8			0																			
	SPMR120312	12.7	12.7	3.18	1.2			0		0				0													

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

# B MILLING / Indexable Milling Tools

	0.0°	_		Good	working			_				JIKIII	-		_	_			-	Junuit					
ØI.C	90° (11°	Work	Stee		موا	() ()		( <u>)</u>							<u>.</u> 		57  }	0				00 00			
		piece	K Cas			-	•	U	-		•	$\odot$					•				V	<b>v</b>	•	)	6
	S	Workpiece material		-ferrous	metal																			C	
╵╯┝╸╴┕		<u>ia</u>	S Heat r	esistant all	oy, Ti alloy		•						0	<u>.</u>		)			<b>(</b>	) 🙁					
		Basio	c dimen	sions(	mm)		С	VD	Со	atir	ng				PV	DC	Coat	ting			Ce	rmet		mer arbio	
Insert shape	Туре	L	ØI.C	S	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205		YBG302		YBS203	YBS303	YNG151	YNG151C			
	SPUN090304	9.525	9.525	3.18	0.4																			C	
	SPUN090308	9.525	9.525	3.18	0.8																		0	C	С
	SPUN120304	12.7	12.7	3.18	0.4																0		0		
	SPUN120308	12.7	12.7	3.18	0.8			0		0													•	C	C
	SPUN120312	12.7	12.7	3.18	1.2																		0		
	SPUN150408	15.875	15.875	4.76	0.8																		0		
	SPUN150412	15.875	15.875	4.76	1.2																		0	C	C
	SPUN190408	19.05	19.05	4.76	0.8																		0	C	2
	SPUN190412	19.05	19.05	4.76	1.2																		0		
	SPUN190416	19.05	19.05	4.76	1.6																		0		
	SPGN090304	9.525	9.525	3.18	0.4																•				
	SPGN090308	9.525	9.525	3.18	0.8																		(		C
	SPGN120308	12.7	12.7	3.18	0.8									0									•		
	SPGN120404	12.7	12.7	4.76	0.4																		0		
	SPGN120408	12.7	12.7	4.76	0.8								0										0		
	SPGN120412	12.7	12.7	4.76	1.2																		0		
	SPGN150404	15.875	15.875	4.76	0.4																		(		Э
	SPGN150408	15.875	15.875	4.76	0.8																		•		
	SPGN190408	19.05	19.05	4.76	0.8																			C	C
	SPGN190416	19.05	19.05	4.76	1.6								0												

Indexable Milling inserts

MILLING Indexable Milling Tools

		)—																											$\sum$
ØLC			Vorkpie	P Ste M Sta Ca N No	el ainless st iror n-ferr		I	۳	ditio	<b>(</b>	۳	(2)			-	•••	•••	0	(2)	wo	rking CO CO		nditi	0				_	8
		В	asic d	limen	sions	s(mm	1)		С	VD	Сс	atin	ng	-			P	VD	Co	atir	ng			Cer	met			ente bide	
Insert shape	Туре	L	ØI.C	S	be	bs	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	TPKN2204PDFR	22	12.7	4.76	1.4	0.7	11°								0			<u>.</u>									-		0
	TPKN2204PDFL	22	12.7	4.76	1.4	0.7	11°								0														0
	TPKN2204PDR	22	12.7	4.76	1.4	0.7	11°	•				•			★	★			★							•	0	0	•
	TPKN2204PDL	22	12.7	4.76	1.4	0.7	11°																						
	TPKN2204PDTR	22	12.7	4.76	1.4	0.7	11°	•																		•			
	TPKN2204PDTL	22	12.7	4.76	1.4	0.7	11°	0																		0			

★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order

T			6	🕑 Good	working	con	diti		• N	orma	l wo	orkin		nditio		Bar	1.00	rkin								
60	)°	5			working	(1)		-	<u>.</u>		II WC								J COII			$\odot$	$\bigotimes$			
l 🕱	S.	Workpiece material	M Sta	inless st	eel	•			<u></u>				(	9				$^{\circ}$				$^{\circ}$				
øl.c		lece I	K Ca	st iron							<b>(</b>	$\odot$	$\odot$				۳	0						0		$\odot$
	ød <u>i</u>	nater	No	n-ferrous	s metal																					$\odot$
r/		la	E S Heat	t resistant al	loy, Ti alloy								0	90					<b>(</b> )	8						
		Bas	ic dimer	nsions(	mm)		(	CVD	Сс	oatir	ng				PVE	Co	oatii	ng			Cer	met			ente bide	
Insert shape	Туре	L	ØI.C	S	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202 VBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	TPGN090204	9.6	5.56	2.38	0.4																				0	
	TPGN090208	9.6	5.56	2.38	0.8																			0		
	TPGN110204	11	6.35	2.38	0.4																				0	
	TPGN110304	11	6.35	3.18	0.4																			0	•	0
	TPGN110308	11	6.35	3.18	0.8																			0		0
-	TPGN160304	16.5	9.525	3.18	0.4																		•	0	0	
	TPGN160308	16.5	9.525	3.18	0.8																			0		•
	TPGN160312	16.5	9.525	3.18	1.2																					0
	TPGN160316	16.5	9.525	3.18	1.6																					0
	TPGN220404	22	12.7	4.76	0.4																				0	
	TPGN220408	22	12.7	4.76	0.8																		0			0
	TPGN220412	22	12.7	4.76	1.2																					0
	TPGN270408	27.5	15.875	4.76	0.8																					0

★Recommended grade (always stock available) ●Available grade (always stock available) OMake-to-order Milling inserts Indexable milling tools

# B MILLING / Indexable Milling Tools

T																									$\overline{}$
		_		🌝 Good	working			-			al wo	orkin	-				d wo		g co	nditi		_	_		
60	)° ′ <u>_S</u> _	Wor	P Ste					<b>(</b>										0			$\bigcirc$				
øi.c		Kpiec	Ca	ainless st	teel	<b></b>	۳	<u></u>	۳		<b></b>			<u>.</u>		) 🙁	<u></u>	<u></u>			0	C	₩ (	2	
	ød 🕂	workpiece material		n-ferrous	s metal						e	2	U				٢	U						_	
		erial	S Hea	t resistant al									0	<u> </u>					"	$\otimes$					
		Basi	ic dimer	nsions(	mm)		С	VD	Со	atir	ng				PVC	) Cc	batir	ng			Cer	net		nent	
Insert shape	Tupe										-							-		-		0	Ca	arbide	e
insert shape	Туре	L	ØI.C	S	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202 VBG205	YB9320	YBG302	YBG152	YBG252	/BS203	YBS303	YNG151	YNG151C	YC30S	YD101	D201
	TPUN110208	11	6.35	2.38	0.8	0				/			-		-					ŕ			0		-
	TPUN110304	11	6.35	3.18	0.4																		0		
	TPUN110308	11	6.35	3.18	0.8	0																	•	0	0
	TPUN160304	16.5	9.525	3.18	0.4			0															0	0	0
	TPUN160308	16.5	9.525	3.18	0.8			0		0													•	•	0
	TPUN160312	16.5	9.525	3.18	1.2			0															•		
	TPUN160408	16.5	9.525	4.76	0.8																		0		0
	TPUN160412	16.5	9.525	4.76	1.2																		0		0
	TPUN220404	22	12.7	4.76	0.4																			0	
	TPUN220408	22	12.7	4.76	0.8	٠		0															•	0	
	TPUN220412	22	12.7	4.76	1.2					0													•		0
	TPUN220416	22	12.7	4.76	1.6																				0
	TPMR090204	9.6	5.56	2.38	0.4			0																	
	TPMR110304	11	6.35	3.18	0.4			•													0				
	TPMR110308	11	6.35	3.18	0.8			0													0				
	TPMR160304	16.5	9.525	3.18	0.4			•		0											0		0		
	TPMR160308	16.5	9.525	3.18	0.8			•		•													0		0
	TPMR160312	16.5	9.525	3.18	1.2					0															
	TPMR220412	22	12.7	4.76	1.2					0															
	TPMR330916	33	19.05	9.52	1.6											*									

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

		7	≤	Ste	el			(!)	<b>(</b>	(!)	$\bigcirc$	$\odot$				(1)	0	0	$\odot$		$\odot$			$\odot$	$\bigcirc$	$\bigotimes$		
	ød ød	A	orkpi	<b>Sta</b>	ainless	steel		<u></u>	<u></u>	<u></u>	<u></u>	$\odot$				<u></u>	<u>••</u>	<u>.</u>	$\otimes$		0			0	$_{\odot}$	8		
bs	r t		Workpiece material	Ca	st iron								<b>(</b>	$\bigotimes$	$\bigcirc$					<b>(</b>	$\bigcirc$					1	0	(
1/-	ØI.C S	4	nateri	No	n-ferro	ous me	etal																				(	<b>(</b> )
		-	<u>a</u>	Hea	t resistan	it alloy, T	i alloy								0	<b>(</b>	<b>(</b> )	<u>"</u>				<b>(</b>	8					
		E	Basic d	imer	nsions	s(mm	)		С	VD	Сс	atir	ng				P١	/D	Co	atir	ng			Cer	rmet		eme arb	ente ide
Insert shape	Туре	L	ØI.C	S	ød	bs	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101
	WNHU060404PNR-GM	5.7	9.525	4.0	3.5	1.35	0.4				*	,	*		-		*				,	-		-	-	,		-
	WNHU060408PNR-GM	5.7	9.525	4.0	3.5	1.35	0.8				*		*				*	*										
2	WNHU080608PNR-GM	7.7	12.7	5.4	4.4	1.6	0.8				*		*				*	★										
	WNHU080612PNR-GM	7.7	12.7	5.4	4.4	1.6	1.2				★		★				★	★										
	WNHU080616PNR-GM	7.7	12.7	5.4	4.4	1.6	1.6				*		*				*	*										
-	WNHU080608PNR-LH	7.7	12.7	5.4	4.4	1.6	0.8																					*

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

M																											
				<u></u>	ood w	orking	con	ditio	n 🕒	No	orma	ıl wo	orkin	g co	ondit	ion (	2	Bad	wor	king		nditio	'n				
		V	E	Steel			(!)	(1)	<b>(</b>	•	$\odot$				•	<u>(</u> )	0	8		$\odot$		1	0	$\odot$	$\odot$		
ØI.C	in the	ууоткріесе	M	Stainle	ss stee	əl	<u></u>	<u></u>	•	<u></u>	$\bigotimes$				<u></u>	<u>.</u>	<u>.</u>	2		$^{\circ}$			0	$^{\circ}$	$\odot$		
		ece		Cast ir	on							<b>(</b>	$\odot$	$\bigcirc$				(	<b></b>	$\bigcirc$					(	0	8
r		тацепа	N	Non-fe	rrous n	netal																				(	<u> </u>
	S	ana	S	Heat resis	stant alloy	, Ti alloy								0	•	<b>(</b> )	•					$\otimes$					
		Bas	vic din	nensio	one(m	m)		C	VD	<u></u>	atir	ha				D\	/D	Соа	atin				Cor	met	Ce	me	nted
		Das			5115(11			0	<u>v</u> D	00	aui	iy				IV		008	2011	iy			Jen	net	С	arb	ide
Insert shape	Туре	ØI.C	r	S	ød	α	YBC301	YBC302	YBM251	/BM253	/BM351	YBD152	YBD252	YBG102	/BG202	YBG205	/B9320	/BG302	/BG152	YBG252	YBS203	YBS303	/NG151	YNG151C	/C30S	/D051	YD101 YD201
	WPGT050315ZSR	7.94	1.5	3.5	4.0	11°	ĺ	*		•	•			/				<i>,</i>		-	/		_	_			
	WPGT060415ZSR	9.525	1.5	4.2	4.4	11°		★		•	•					•											
	WPGT080615ZSR	12.85	1.5	6.35	5.5	11°		*		•	•					•											
	WPGT090725ZSR	15.00	2.5	7.00	5.5	11°		★		•	•					•											
	WPGT050315ZSR-PM	7.94	1.5	3.5	4.0	11°		*			•					•											
	WPGT060415ZSR-PM	9.525	1.5	4.2	4.4	11°		★			•					•						0					
	WPGT080615ZSR-PM	12.85	1.5	6.35	5.5	11°		★			•					•						0					
	WPGT090725ZSR-PM	15.00	2.5	7.00	5.5	11°		*			•					•											

★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

# B MILLING Indexable Milling Tools

X				0	Good v	vorking	con	ditio	n 😐	No	rma	l wo	rkin	g cor	diti	on	8	Bad	wo	rking	l col	nditi	on				
	S	Ī	ξP	Steel			<b>(</b>	<b>(</b>	•	•	8			(	)		0	$\odot$		$\bigcirc$			$\odot$	$^{\odot}$	$\odot$		
			Morkpiece material	Stainle	ess ste	el	<u>.</u>	•	•	•	$\overline{\mathbb{C}}$			(				8		$\odot$							
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		5	ma 💾			motol							Ö	<u> </u>					•	•						•	_
R	ία	770	iteria	Non-fe										_							<u> </u>	-					•
			<u>∞</u> 5	Heat resi	istant allo	oy, Ti alloy								0		9	6				"	$\odot$					
		Ва	sic diı	nensi	ons(n	nm)		C	VD	Co	atin	g				P\	/D	Co	atir	ng				rmet			ente bide
Insert shape	Туре	R	ød	S	α	L	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	102020	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101
	XPHT16R0803-GM	8	3.1	3.18	9°	16	<u>_</u>	<i>_</i>	~	_	<u>_</u>	<u>_</u>	<u>_</u>	<u> </u>		~	~	•	~	~	~	_	Ĺ	~		_	_
	XPHT20R10T3-GM	10	4.0	3.97	9°	20												•									
	XPHT25R1204-GM	12.5	4.7	4.76	9°	25												•									
100	XPHT30R1506-GM	15	5.8	6.35	11°	30												•									
100	XPHT32R1606-GM	16	5.8	6.35	9°	32												•									
	XPHT32R1000-GM	20	6.7	7.94	9°	40												•									
	XPH140R2007-GM XPHT50R2507-GM	20	9.2	7.94	9°	40 50																					
		∠5 ★Reco			-				منام	hla)		• • •	, aile	ble 9		de (	ahu	-		alı a						ike-t	
X						vorking																					
	1	Ī	< P	Steel			(!)	_	(1)	(1)	_			-	) (	_	-	8	-	$\odot$				$\bigcirc$			
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	ød -						•	Θ	•		_						•	_					$\overline{}$	<b>v</b>	<u> </u>		
<u>v</u> y		[	ë 📙	Cast ii	ron								8	C					"	0						$\bigcirc$	_
			ater 🚺	Non-fe	errous	metal																					•
-	L S		<u>a</u> [S	Heat res	istant allo	oy, Ti alloy								0		<b>!</b> )	Ľ				<b>(</b>	$\odot$					
		Ва	sic di	nensi	ons(r	nm)		C	VD	Co	atin	g				P\	/D	Co	atir	ng			Cer	rmet		eme cart	
Insert shape	Туре	ØI.C	C L		s	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBGZUZ	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101
								$\succ$										$\star$									
	XSEQ1202	12.7	12	.7 2	2.3	5.0	~	~	·																[		
	XSEQ1202 XSEQ1203	12.7 12.7			2.3 3.0	5.0 5.0	>	<u>&gt;</u>										$\star$							L		
0			12	.7 3			>	~	-									★ ★									
0	XSEQ1203	12.7	12 12	.7 3 .7 3	3.0	5.0	>	<u>&gt;</u>																			
0	XSEQ1203 XSEQ12T3	12.7 12.7	12 12 12	.7 3 .7 3 .7 4	3.0 3.5	5.0 5.0	> 	> 										*									
0	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7	12 12 12 12	.7 3 .7 3 .7 4 .7 4	3.0 3.5 4.0 4.5	5.0 5.0 5.0 5.0				ble)		٥A	/aila	able	grad	de (	alw	* * *	sto	ock a	avai	lable	e)	C	)Ma	ake-t	o-or
<b></b> Z	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7	12 12 12 12	.7 3 .7 3 .7 4 .7 4 .7 4 ded gr	3.0 3.5 4.0 4.5 ade (a	5.0 5.0 5.0 5.0 always	stoc	k av	raila									★ ★ /ays						C	)Ma	ıke-t	o-or
<u> </u>	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Reco	12 12 12 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0	.7 3 .7 3 .7 4 .7 4 ded gr	3.0 3.5 4.0 4.5 ade (a	5.0 5.0 5.0 5.0	stoc	k av	raila	No	rma			g coi	diti	on	2	★ ★ /ays Bad		rking		nditi	on		3		o-or
	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Reco	12 12 12 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0	.7 3 .7 3 .7 4 .7 4 .7 4 .7 4 .7 4 .7 4 .7 4 .7 4	3.0 3.5 4.0 4.5 ade (a	5.0 5.0 5.0 3.0 always working	stoc	k av	raila n (L	No	rma (3)			g cor	iditii	on	<mark>()</mark>	★ ★ /ays Bad		rking		nditi	on	0			0-or
Z ØIC	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Reco	12 12 12 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0	.7 3 .7 3 .7 4 .7 4 ded gr	3.0 3.5 4.0 4.5 ade (a Good v	5.0 5.0 5.0 3.0 always working	stoc	k av	raila	No	rma (2) (2)	l wo	rkin	g coi	iditii	on	<mark>()</mark>	★ ★ /ays Bad	WO	rking ©		nditi	on	0	3		
2 01.C	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Reco	12 12 12 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0	.7 3 .7 3 .7 4 .7 4 .7 4 .7 4 .7 4 .7 4 .7 4 .7 4	3.0 3.5 4.0 4.5 ade (a Good v	5.0 5.0 5.0 3.0 always working	stoc	k av	raila n (L	No	rma (2) (2)		rkin	g coi	iditii	on	<mark>()</mark>	★ ★ /ays Bad	WO	rking		nditi	on	0			o-or
ØI.C	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Reco	12 12 12 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0	.7 3 .7 3 .7 4 .7 4 ded gr	3.0 3.5 4.0 4.5 ade (a Good v ess ste	5.0 5.0 5.0 always working	stoc	k av	raila n (L	No	rma (2) (2)	l wo	rkin	g coi	iditii	on	<mark>()</mark>	★ ★ /ays Bad	WO	rking ©		nditi	on	0			
ØI.C R	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Reco	12 12 12 12 12 0 0 0 0 0 0 0 0 0 0 0 0 0	7 3 7 3 7 4 7 4 ded gr Steel Stainle Cast in Non-fe	3.0 3.5 4.0 4.5 ade (a Good v ess ste	5.0 5.0 5.0 always working	stoc	k av	raila n (L	No	rma (2) (2)	l wo	rkin	g coi		on		★ ★ /ays Bad	WO	rking CO CO		nditi	on	0			
ØI.C	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Recc	Vorkpiece material	7 3 7 3 7 4 7 4 ded gr Steel Stainle Cast in Non-fe	3.0 3.5 4.0 4.5 ade (a Good v ess stee ron errous istant allo	5.0 5.0 5.0 always working sel metal	stoc	ditio	raila n (L)	No	rma	l wo	rkin	g cor				★ ★ /ays Bad	wol	rkinç O O	j coi	nditi	on ©	0	© ©	eme	(L) ente
Z ØLC E	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Recc	Vorkpiece material	7 3 7 3 7 4 ded gr Steel Stainle Cast in Non-fe	3.0 3.5 4.0 4.5 ade (a Good v ess stee ron errous istant allo	5.0 5.0 5.0 always working sel metal	con	dition	raila n (L) (L)	No Co	rma	l wo	rkin	g cor ( ( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		on U P V	© © U /D	★ ★ /ays Bad ⓒ ⓒ	wor	rking CO CO CO		nditio	on ©			© eme cart	(L) ente bide
R	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 ★Recc	Vorkpiece material	7 2 3 7 4 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	3.0 3.5 4.0 4.5 ade (a Good v ess stee ron errous istant allo	5.0 5.0 5.0 5.0 always working working metal metal	con	dition	raila n (L) (L)	No Co	rma	l wo	rkin	g cor ( ( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		on U P V	© © U /D	★ ★ /ays Bad ⓒ ⓒ	wor	rking CO CO CO		nditio	on ©			© eme cart	(L) ente
R	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4	12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7	Vorkpiece material	7 3 7 4 7 7 4 7 4 4 7 4 4 4 4 7 4 4 4 4 7 4 4 4 7 4 4 7 4 7	3.0 3.5 4.0 4.5 3.6 3.5 4.0 4.5 3.6 3.5 4.0 4.5 3.6 4.5 3.6 4.5 4.5 4.5 5.5 4.0 5.5 4.0 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	5.0 5.0 5.0 s.0 vorking working working metal working metal	stoc	dition	raila n (L) (L)	No Co	rma	l wo	rkin	g cor ( ( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		on U P V		★ ★ vayss Bad ⓒ	wor	rking CO CO CO		nditio	on ©			eme	(L) ente
R	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4 D D d d S d d Type ZDET08T2CYR10	12.7 12.7 12.7 12.7 12.7 12.7 ★Recc Øl.C 6.75	Vortpiece material	7     2       7     2       7     4       7     4       4     4       7     4       4     4       6     9       6     9       6     9       6     9       6     9       6     9       7     4       6     9       6     9       6     9       7     4       6     9       6     9       7     4       6     9       7     4       6     9       7     4       7     4       7     4       7     4       7     4       7     4       8     1       7     1       7     4	3.0         3.5           4.0         4.0           4.0         4.0           Good N         9           Sess stee         9           Constraint allo         9	5.0 5.0 5.0 5.0 solution 5.0 5.0 solution 5.0 5.0 5.0 solution 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	con	dition	→ ABM251 O	No Co	rma	l wo	rkin	g cor ( ( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		on U P V	© © U /D	★ i/ayss Badd Badd CO CO CO CO CO	wor	rking CO CO CO		nditio	on ©			© eme cart	(L) ente bide
R	XSEQ1203 XSEQ12T3 XSEQ1204 XSEQ12T4 D	12.7 12.7 12.7 12.7 12.7 12.7 12.7 8 8 8 8 8 8 8 5	Vortpiece material	7     2       7     2       7     4       7     4       4     4       7     4       4     4       4     4       6     3       5     1       1     1       2     7       1     1	3.0         3.5           4.0         4.0           4.0         4.0           Good N         9           Sess stee         9           Constraint allo         9	5.0 5.0 5.0 5.0 always working working metal metal d α 8 14°	con	dition	ABW321	No Co	rma	l wo	rkin	g cor ( ( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		on U P V	© © U /D	★ ★ Agg 202 ★ Agg 202 ★ CO	wor	rking CO CO CO		nditio	on ©			eme	(L) ente

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ØI.C			Workpiece	<b>/</b> Stai	inless	steel					<u></u>					•				1	$^{\circ}$			0				
	Ød]			Cas	st iron							(	•		$\odot$				(	•	$\odot$					(	$\odot$	8
			material	Nor	n-ferro	us me	etal																				(	98
<u></u>	L		ia	Heat	resistan	t alloy, T	î alloy								0	•	<b>(</b> )	-				<u></u>	$\overline{\mathbf{i}}$					
		Ва	asic c	limen	ision	s(mn	n)		C	VD	Coa	atin	g				P∖	D	Coa	itin	g			Cerr	net		emei arbi	nted ide
Insert shape	Туре	ØI.C	L	s	R	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	YBG252	YBS203	YBS303	YNG151	YNG151C	YC30S	YD051	YD101 YD201
	ZPNT2204CY(R20)	12.7	16.1	4.76	20	5.56	11°			0								_	0									
0	ZPNT2204CY(R25)	12.7	16.9	4.76	25	5.56	11°			0									0									
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★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

Milling inserts Indexable milling tools

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-	ØI.C	<u>a</u>	- S Heat	resistant al	loy, Ti alloy								0	•	•	<u>"</u>			Ľ	) (3	)				
Insert shape	Туре	Basic dimensions(mm)				CVD Coating									P∖	/D Coating				Cei	met	Cemented carbide			
		R	ØI.C	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YB9320	YBG302	YBG152	VEC203	YBS303	YNG151	YNG151C	YC30S	YD051	
	ZOHX1203-GF	6	12	3	4																				
	ZOHX1604-GF	8	16	4	5													•							
	ZOHX2005-GF	10	20	5	5																				
	ZOHX2506-GF	12.5	25	6	6													(	D						
	ZOHX3007-GF	15	30	7	8													(	D						
	ZOHX3207-GF	16	32	7	8													(	2						
•	ZOHX1203-GM	6	12	3	4																				
	ZOHX1604-GM	8	16	4	5													•							
	ZOHX2005-GM	10	20	5	5																				
	ZOHX2506-GM	12.5	25	6	6																				
	ZOHX3007-GM	15	30	7	8													•							
	ZOHX3207-GM	16	32	7	8													7	Ł						