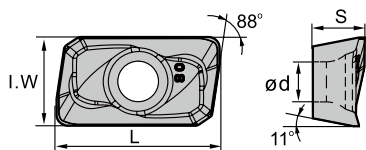


[illegible][illegible]

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

AP ☐ ☐

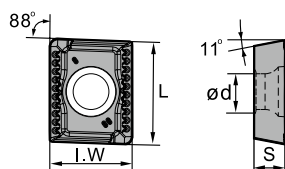
😊 Good working condition 😐 Normal working condition ☹ Bad working condition

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

Insert shape	Type	Basic dimensions(mm)					CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	I.W	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	APMT1135PDR	11.25	6.2	3.5	2.8	0.8			○					○	●	★	○								
	APMT160408PDER	17.25	9.25	4.76	4.4	0.8									●	★	○								

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

AP ☐ ☐



😊 Good working condition 😐 Normal working condition ☹ Bad working condition

[illegible]

Insert shape	Type	Basic dimensions(mm)					CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	I.W	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	APKT150412-PM	16.33	12.7	4.76	5.4	1.2			★								●								
	APKT150412-KM	16.33	12.7	4.76	5.4	1.2											●	○							

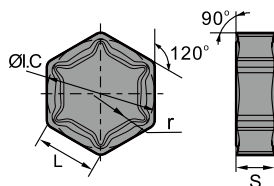
★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

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

[illegible]

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

HN ☐ ☐

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

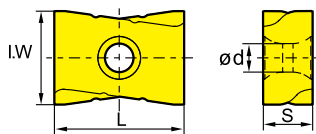
	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

[illegible]

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

Indexable milling tools

Milling inserts

LN 

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

		Good working condition					Normal working condition					Bad working condition				
Workpiece material	P Steel		😞	😞	😞	😞			😞	😞	😞		😞	😞	😞	
	M Stainless steel		😞	😞	😞	😞		😞	😞	😞		😞	😞	😞		
	K Cast iron												😞	😞		
	N Non-ferrous metal															
	S Heat resistant alloy, Ti alloy							😄	😞	😞						

Insert shape	Type	Basic dimensions(mm)				CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	I.W	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	LNKT1506EN-ZR	15.875	14	6.35	4.6						○	○				★								
	LNKT2007DN-ZR	20	17	7.94	4.6						○	○				★								
	LNKT2510-ZR	25	18	9.525	5.5						○	○				★								

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

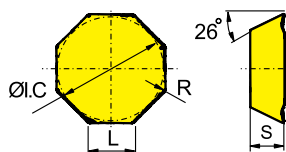
	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

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

[illegible]

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

OF



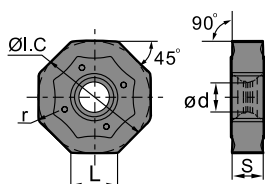
☺ Good working condition 😐 Normal working condition ☹ Bad working condition

Workpiece material	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant alloy, Ti alloy
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺

Insert shape	Type	Basic dimensions(mm)				CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	ØI.C	S	R	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	OFKR0704-DF	7.45	17.94	4.76	0.8			●	○					○										
	OFKR0704-DM	7.45	17.94	4.76	0.8	●		●	○	●		○	○	★		★								

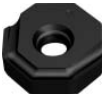
★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

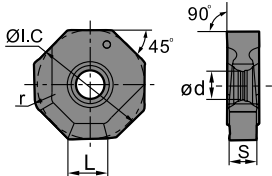
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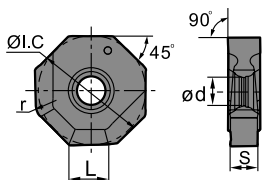


☺ Good working condition 😐 Normal working condition ☹ Bad working condition

Workpiece material	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant alloy, Ti alloy
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺
	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺	☺☺☺☺☺☺

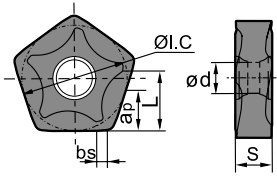
Insert shape	Type	Basic dimensions(mm)					CVD Coating					PVD Coating					Cermet	Cemented carbide							
		L	ØI.C	S	ød	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	ONHU060408-PF	6.58	15.875	4.76	4.4	0.83	★					★		★											
	ONHU08T508-PF	8.37	20.2	5.77	5.3	0.83	★					★		★											
	ONHU060408-PM	6.58	15.875	4.76	4.4	0.83	★		★		★														
	ONHU08T508-PM	8.37	20.2	5.79	5.3	0.83	★		★		★														
	ONHU08T508-W	6.9	20.5	6.00	5.3	0.80	★					★		★											





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

PN ☐ ☐



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

[illegible][illegible]

★Recommended grade (always stock available)

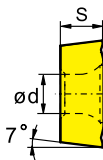
● Available grade (always stock available)

☐ Make-to-order

Indexable milling tools

Milling inserts



[illegible][illegible]

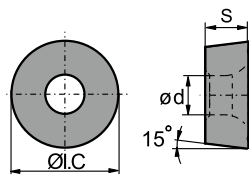
★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

Workpiece material	1	2	3	4	5	6	7
H Super hard material		😐	😊				
K Cast iron	😄			😄	😄		😡
N Non-ferrous metal						😐	😐

[illegible]

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

RD□□



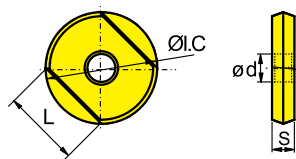
☺ Good working condition ☹ Normal working condition ☹ Bad working condition

Workpiece material	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant alloy, Ti alloy
	☺☺☺☺☺	☹☹☹☹☹	☹☹☹☹☹	☹☹☹☹☹	☹☹☹☹☹

Insert shape	Type	Basic dimensions(mm)			CVD Coating				PVD Coating				Cermet		Cemented carbide								
		ØI.C	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	RDKW0702MO	7	2.38	2.8			○		●			●											
	RDKW0803MO	8	3.18	3.4	○				○			●	★	○									
	RDKW10T3MO	10	3.97	4.4	○				●			●	★										
	RDKW1204MO	12	4.76	4.4	●		●		●			●	★	●									
	RDKW1605MO	16	5.56	5.5	○				○			○	★	○									
	RDKW2006MO	20	6.35	6.5	○				○					○									

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

RO□□



☺ Good working condition ☹ Normal working condition ☹ Bad working condition

Workpiece material	P Steel	M Stainless steel	K Cast iron	N Non-ferrous metal	S Heat resistant alloy, Ti alloy
	☺☺☺☺☺	☹☹☹☹☹	☹☹☹☹☹	☹☹☹☹☹	☹☹☹☹☹

Insert shape	Type	Basic dimensions(mm)				CVD Coating				PVD Coating				Cermet	Cemented carbide									
		ØI.C	L	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	ROHX1203	12	8.5	3	4													○						
	ROHX1604	16	11.3	4	5													○						
	ROHX2005	20	14.1	5	5													○						

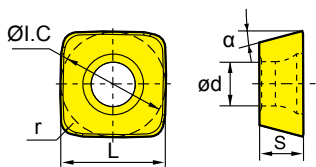
★Recommended grade (always stock available) ●Available grade (always stock available) ○Make-to-order

[illegible]

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

[illegible]

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

SD ☐ ☐

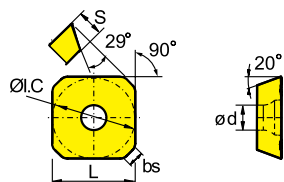
😊 Good working condition 😐 Normal working condition 😞 Bad working condition

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

Insert shape	Type	Basic dimensions(mm)						CVD Coating				PVD Coating				Cermet	Cemented carbide									
		ØI.C	L	r	S	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SDMT06T208-PM	6.35	6.35	0.8	2.58	2.5	15°	★	○							●										
	SDMT09T312-PM	9.525	9.525	1.2	3.97	4.0	15°	★	●							●										
	SDMT120412-PM	12.7	12.7	2.0	4.76	4.4	15°	★	●							●										
	SDMT150520-PM	15.875	15.875	2.0	5.56	5.5	15°	★	●							●										

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

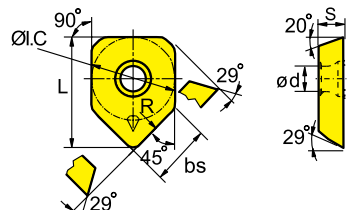
SE□□



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

[illegible]

Insert shape	Type	Basic dimensions(mm)						CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	ØI.C	S	ød	bs	R	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SEET12T3-DF	13.40	13.40	3.97	4.1	2.55		●	★	●					★		○									
	SEET12T3-CF	13.40	13.40	3.97	4.1	2.55							○		★	○	○									
	SEET12T3-EF	13.40	13.40	3.97	4.1	2.55										○	○									
	SEET12T3-DM	13.40	13.40	3.97	4.1	2.55		●	★	●		○			★		★									
	SEET12T3-CM	13.40	13.40	3.97	4.1	2.55							★		★		○									
	SEET12T3-EM	13.40	13.40	3.97	4.1	2.55				●		●				○		★								
	SEET12T3-DR	13.40	13.40	3.97	4.1	2.55		●	★			●			★		★		★							
	SEET12T3-CR	13.40	13.40	3.97	4.1	2.55		●					★					★								
	SEET12T3-LH	13.40	13.40	3.97	4.1	2.55																			○	★
	SEET12T3-W	17.82	13.40	3.97	4.1	9.46	500		★	●			★		★						★					



Technical drawing of the SEET12T3-W insert showing dimensions: L, ØI.C, S, ød, bs, R, and angles 90°, 29°, 45°.

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

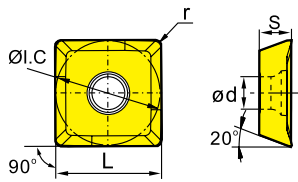
	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material	😞 😞 😞 😞 😞	😞 😞 😞 😞 😞	😞 😞 😞		😊 😐 😐

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

Workpiece material	Good working condition					Normal working condition					Poor working condition						
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5		
P Steel	😊	😊	😊	😊	😞						😊	😊	😊	😊	😊		
M Stainless steel	😞	😞	😞	😞	😞						😊	😊	😊	😊	😊		
K Cast iron						😞	😞	😊					😞	😊			😞
N Non-ferrous metal																😞	😞
S Heat resistant alloy, Ti alloy											😊	😊	😊				

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

SE□□



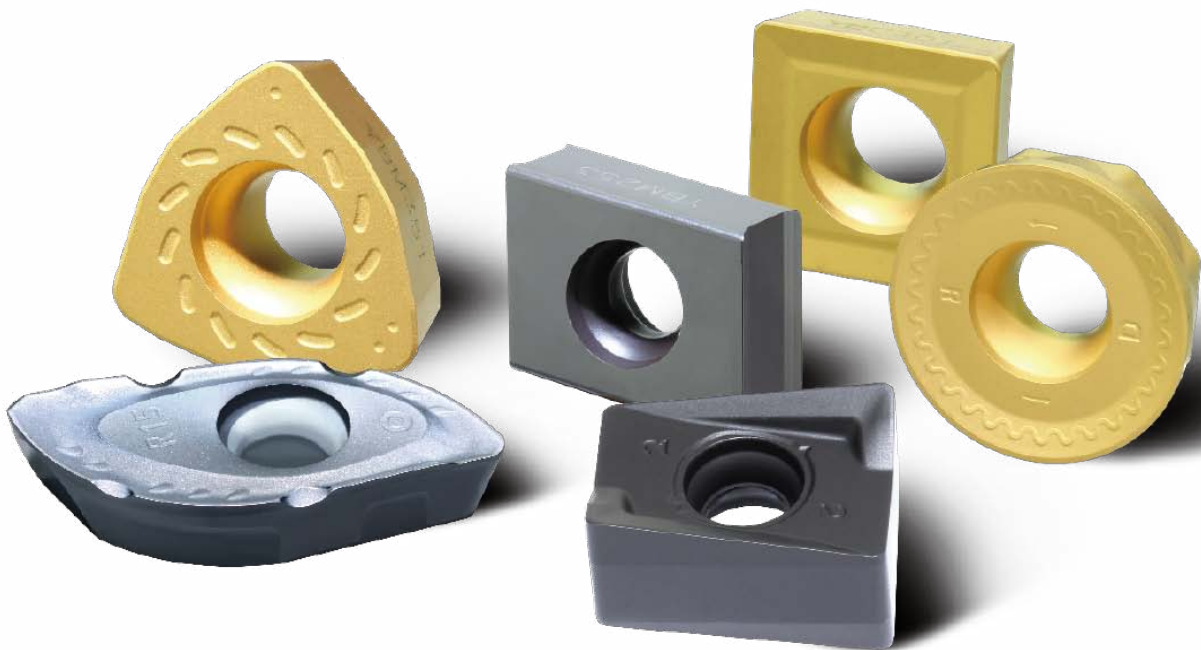
😊 Good working condition 😐 Normal working condition 😞 Bad working condition

[illegible][illegible]

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

Indexable milling tools

Milling inserts



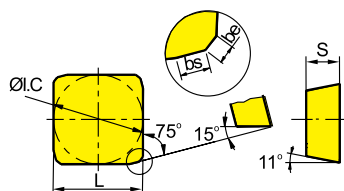
[illegible][illegible]

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

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

[illegible]

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

SP ☐ N

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

[illegible]

Insert shape	Type	Basic dimensions(mm)					CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	ØI.C	S	be	bs	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	SPKN1203EDER	12.7	12.7	3.18	1	1.4								○											
	SPKN1203EDEL	12.7	12.7	3.18	1	1.4								○											
	SPKN1203EDFR	12.7	12.7	3.18	1	1.4								★ ○											●
	SPKN1203EDFL	12.7	12.7	3.18	1	1.4								○ ○											○
	SPKN1203EDSKR	12.7	12.7	3.18	1	1.4										○							○		
	SPKN1203EDSKL	12.7	12.7	3.18	1	1.4											○						○		
	SPKN1203EDTKR	12.7	12.7	3.18	1	1.4	●				●				○		★						●		○
	SPKN1203EDTKL	12.7	12.7	3.18	1	1.4									○		○						○		○
	SPKN1203EDS31R	12.7	12.7	3.18	1	1.4												○					○		
	SPKN1203EDS31L	12.7	12.7	3.18	1	1.4													○				○		
	SPKN1203EDT31R	12.7	12.7	3.18	1	1.4	●				●				○		★						●		○
	SPKN1203EDT31L	12.7	12.7	3.18	1	1.4										○		○					○		○
	SPKN1504EDER	15.875	15.875	4.76	1	1.4									○										
	SPKN1504EDEL	15.875	15.875	4.76	1	1.4									○										
	SPKN1504EDFR	15.875	15.875	4.76	1	1.4								○ ○											○
	SPKN1504EDFL	15.875	15.875	4.76	1	1.4								○ ○											○
	SPKN1504EDSKR	15.875	15.875	4.76	1	1.4											○						○		
	SPKN1504EDSKL	15.875	15.875	4.76	1	1.4												○					○		
	SPKN1504EDTKR	15.875	15.875	4.76	1	1.4	●								★		○						●		●
	SPKN1504EDTKL	15.875	15.875	4.76	1	1.4									○		○						○		●
	SPKN1504EDS32R	15.875	15.875	4.76	1	1.4												○					○		
	SPKN1504EDS32L	15.875	15.875	4.76	1	1.4													○				○		
	SPKN1504EDT32R	15.875	15.875	4.76	1	1.4	●									★		○					●		●
	SPKN1504EDT32L	15.875	15.875	4.76	1	1.4										○		○					○		

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

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

Indexable milling tools

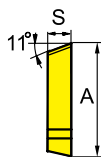
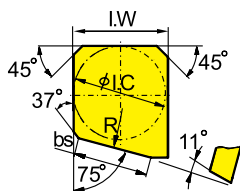
Milling inserts

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

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

Workpiece material	Good working condition					Normal working condition					Poor working condition				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
P Steel															
M Stainless steel															
K Cast iron															
N Non-ferrous metal															
S Heat resistant alloy, Ti alloy															

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

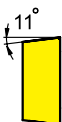
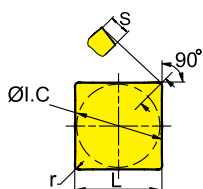
SP ☐ X

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

[illegible]

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

SP ☐ ☐

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

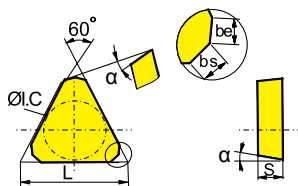
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★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

[illegible]

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

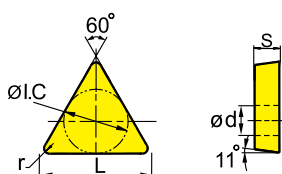
TP ☐ ☐

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

[illegible]

Insert shape	Type	Basic dimensions(mm)						CVD Coating						PVD Coating				Cermet		Cemented carbide						
		L	ØI.C	S	be	bs	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	TPKN2204PDFR	22	12.7	4.76	1.4	0.7	11°								○											○
	TPKN2204PDFL	22	12.7	4.76	1.4	0.7	11°								○											○
	TPKN2204PDR	22	12.7	4.76	1.4	0.7	11°	●				●		★	★		★						●	○	○	●
	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°	○																○		

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

TP ☐ ☐

😊 Good working condition 😐 Normal working condition ☹ Bad working condition

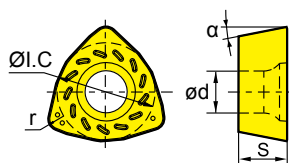
[illegible][illegible]

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

[illegible]

Insert shape	Type	Basic dimensions(mm)				CVD Coating				PVD Coating				Cermet	Cemented carbide									
		L	ØI.C	s	r	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102		YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101
	TPUN110208	11	6.35	2.38	0.8	○															○			
	TPUN110304	11	6.35	3.18	0.4																○			
	TPUN110308	11	6.35	3.18	0.8	○															●		○	○
	TPUN160304	16.5	9.525	3.18	0.4			○													○		○	○
	TPUN160308	16.5	9.525	3.18	0.8			○		○											●		●	○
	TPUN160312	16.5	9.525	3.18	1.2			○													●			
	TPUN160408	16.5	9.525	4.76	0.8																○			○
	TPUN160412	16.5	9.525	4.76	1.2																○			○
	TPUN220404	22	12.7	4.76	0.4																			○
	TPUN220408	22	12.7	4.76	0.8	●		○													●		○	
	TPUN220412	22	12.7	4.76	1.2						○										●			○
	TPUN220416	22	12.7	4.76	1.6																			○
	TPMR090204	9.6	5.56	2.38	0.4			○																
	TPMR110304	11	6.35	3.18	0.4			●											○					
	TPMR110308	11	6.35	3.18	0.8			○											○					
	TPMR160304	16.5	9.525	3.18	0.4			●		○									○	○				
	TPMR160308	16.5	9.525	3.18	0.8			●		●											○			○
	TPMR160312	16.5	9.525	3.18	1.2					○														
	TPMR220412	22	12.7	4.76	1.2					○														
	TPMR330916	33	19.05	9.52	1.6											★								

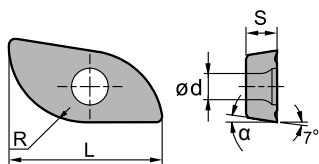
★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

WP ☐ ☐

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

[illegible][illegible]

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

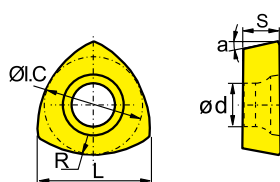
XP ☐ ☐

😊 Good working condition 😐 Normal working condition 😞 Bad working condition

	Good working condition	Normal working condition	Bad working condition
P Steel			
M Stainless steel			
K Cast iron			
N Non-ferrous metal			
S Heat resistant alloy, Ti alloy			

Insert shape	Type	Basic dimensions(mm)					CVD Coating						PVD Coating					Cermet		Cemented carbide					
		R	ød	S	α	L	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	XPHT16R0803-GM	8	3.1	3.18	9°	16											●								
	XPHT20R10T3-GM	10	4.0	3.97	9°	20											●								
	XPHT25R1204-GM	12.5	4.7	4.76	9°	25											●								
	XPHT30R1506-GM	15	5.8	6.35	11°	30											●								
	XPHT32R1606-GM	16	5.8	6.35	9°	32											●								
	XPHT40R2007-GM	20	6.7	7.94	9°	40											●								
	XPHT50R2507-GM	25	9.2	7.94	9°	50											●								

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

ZP ☐ ☐

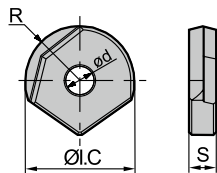
😊 Good working condition 😐 Normal working condition ☹ Bad working condition

	Steel	Stainless steel	Cast iron	Non-ferrous metal	Heat resistant alloy, Ti alloy
Workpiece material					

Insert shape	Type	Basic dimensions(mm)						CVD Coating						PVD Coating					Cermet		Cemented carbide					
		ØI.C	L	S	R	ød	α	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD301
	ZPNT2204CY(R20)	12.7	16.1	4.76	20	5.56	11°			○							○									
	ZPNT2204CY(R25)	12.7	16.9	4.76	25	5.56	11°			○							○									
	ZPNT2204CY(R31)	12.7	17.6	4.76	31.5	5.56	11°			○								○								

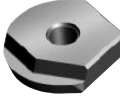
★ Recommended grade (always stock available) ● Available grade (always stock available) ○ Make-to-order

zo□□



😊 Good working condition 😐 Normal working condition 😞 Bad working condition

Workpiece material	Good working condition					Normal working condition					Bad working condition				
	P	M	K	N	S	P	M	K	N	S	P	M	K	N	S
Steel	😊	😊	😊	😊	😊	😊	😊	😊	😊	😊	😊	😊	😊	😊	😊
Stainless steel	😞	😞	😞	😞	😞	😞	😞	😞	😞	😞	😊	😊	😊	😊	😞
Cast iron						😞	😞	😊			😞	😊			😊
Non-ferrous metal														😊	😊
Heat resistant alloy, Ti alloy						😊	😊	😊							

Insert shape	Type	Basic dimensions(mm)				CVD Coating				PVD Coating				Cermet		Cemented carbide								
		R	ØI.C	S	ød	YBC301	YBC302	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202	YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD051	YD101	YD201
	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													○						
	ZOHX3007-GF	15	30	7	8													○						
	ZOHX3207-GF	16	32	7	8													○						
	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													★						

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