



# Milling Insert


## ● ACMT\*\*PR-MJ

Shape	Designation	Coated									Applicable mill
		AH120	AH140	GH330	T3130						
 Rake angle Land width -MJ	ACMT060308PR-MJ	●	●	●	●						ELP07/09/12...
	ACMT07T308PR-MJ	●	●	●	●						
	ACMT100408PR-MJ	●	●	●	●						


## ● ADMT\*\*PR-MJ

Shape	Designation	Coated								Applicable mill
		AH120	AH140	T3130						
 Rake angle Land width -MJ	ADMT130308PR-MJ	●	●	●						ELP13/17/21... (old item)
	ADMT17T308PR-MJ	●	●	●						
	ADMT210408PR-MJ	●	●	●						

## ● AECW\*\*PEFR, AECW\*\*PESR, AEMW\*\*PEFR, AEMW\*\*PETR

Shape	Designation	Coated		Cermet		Uncoated					Applicable mill
		AH120	GH330	NS740		UX30	TH10				
	AECW1403PEFR										EPE4000/5000/ 6000... (old item)
	AECW1403PESR	●	●	●		●	●				
	AECW16T3PEFR										
	AECW16T3PESR	●	●	●		●	●				
	AECW1804PEFR										
	AECW1804PESR	●	●	●		●	●				
	AEMW1403PEFR										
	AEMW1403PETR		●	●		●	●				
	AEMW16T3PEFR										
	AEMW16T3PETR		●	●		●	●				
	AEMW1804PEFR										
	AEMW1804PETR		●	●	●		●	●			

## ● ANEA542TN, ANEA642TN

Shape	Designation	Uncoated								Applicable mill
		UX30								
	ANEA542TN	●								VSN... (old item)
	ANEA642TN	●								

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool

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## ● ANMT\*\*PPPR-MJ, ANMT\*\*PPPR-ML

Shape	Designation	Coated								Applicable mill
		AH120	GH330	T3130						
<p>Rake angle Land width</p> <p>-MJ</p> <p>Rake angle Land width</p> <p>-ML</p>	ANMT09T3PPPR-MJ	●	●	●						EPN09 (old item) EPN14... TPN14... (old item)
	ANMT09T3PPPR-ML	●								
	ANMT1404PPPR-MJ	●	●	●						
	ANMT1404PPPR-ML	●								

## ● AOMT\*\*PDPR-MJ, AOGT\*\*PDFR-AJ, AOMT070208PDPR-HJ

Shape	Designation	Coated		Uncoated						Applicable mill
		AH140	AH725	KS15F						
<p>Rake angle Land width</p> <p>-MJ</p> <p>Rake angle Land width</p> <p>-HJ</p> <p>Rake angle</p> <p>-AJ</p>	AOMT070202PDPR-MJ	●	●							<b>TUNGREC</b> TPO07... Page H143 EPO07... Page H143 HPO07... Page H144
	AOMT070204PDPR-MJ	●	●							
	AOMT070208PDPR-MJ	●	●							
	AOMT070216PDPR-MJ	●	●							
	AOMT070208PDPR-HJ	●	●							
	AOGT070204PDFR-AJ				●					

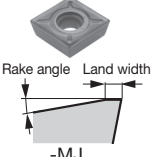
## ● AOMT\*\*PDPR-MJ, AOGT\*\*PDFR-AJ

Shape	Designation	Coated		Uncoated						Applicable mill
		AH140	AH725	KS15F						
<p>Rake angle Land width</p> <p>-MJ</p> <p>Rake angle Land width</p> <p>-MJ</p> <p>Rake angle</p> <p>-AJ</p>	AOMT180508PDPR-MJ	●	●							<b>TUNGREC</b> TPO18... Page H152 EPO18... Page H153
	AOMT180516PDPR-MJ	●	●							
	AOMT180524PDPR-MJ	●	●							
	AOMT180532PDPR-MJ	●	●							
	AOGT180504PDFR-AJ				●					
	AOGT180508PDFR-AJ				●					

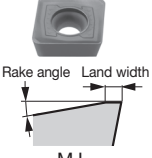
●: Line up

## Milling Insert

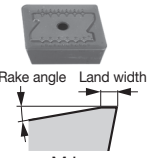
## ● APMT\*\*PN-MJ

Shape	Designation	Coated									Applicable mill
		AH120	AH140	GH330	T3130						
 -MJ	APMT070308PN-MJ	●	●	●	●						ELP07/09/12... (old item)
	APMT09T308PN-MJ	●	●	●	●						
	APMT120408PN-MJ	●	●	●	●						

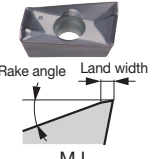
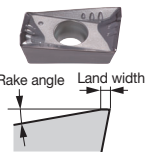
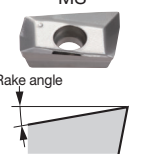
## ● APMT120416PR-MJ

Shape	Designation	Coated								Applicable mill
		AH120	T3130							
 -MJ	APMT120416PR-MJ	●	●							TZP12... Page H229  HZP12... (old item)

## ● APMR190616PR-MJ

Shape	Designation	Coated								Applicable mill
		AH120	T3130							
 -MJ	APMR190616PR-MJ	●	●							TZP19... Page H232

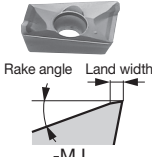
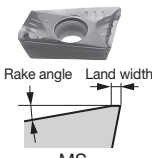
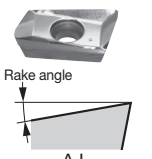
## ● ASMT\*\*PDPR-MJ, ASGT11\*\*PDFR-AJ, ASMT304PDPR-MS

Shape	Designation	Coated							Cermet	Uncoated	Applicable mill
		AH120	AH130	AH140	AH725	T1115	T1215	T3130	DS1100	NS740	
 -MJ	ASMT11T304PDPR-MJ	●	●		●	●		●			<b>TUNGREC</b> TPO11... Page H146 TLS11... Page H146 EPO11... Page H147
	ASMT11T308PDPR-MJ	●	●		●	●	●	●			
	ASMT11T312PDPR-MJ	●			●			●			
 -MS	ASMT11T316PDPR-MJ	●			●			●			HPO11... Page H148 ELS11... Page H148
	ASMT11T320PDPR-MJ	●									
	ASMT11T330PDPR-MJ	●	●								
 -AJ	ASMT11T304PDPR-MS		●	●							
	ASGT11T304PDFR-AJ							●		●	
	ASGT11T308PDFR-AJ							●		●	

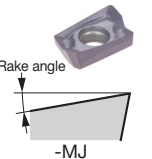
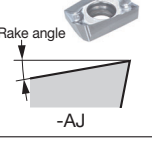
●: Line up

# Milling Insert

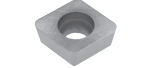
## ● ASMT17\*\*PDPR-MJ, ASGT17\*\*PDFR-AJ, ASMT170508PDPR-MS

Shape	Designation	Coated					Cermet		Uncoated		Applicable mill
		AH120	AH130	AH140	T1115	T3130	DS1100	NS740	KS05F		
  	ASMT170504PDPR-MJ	●			●	●		●			TPS17... (old item) EPS17... (old item)
	ASMT170508PDPR-MJ	●			●	●		●			
	ASMT170512PDPR-MJ	●				●		●			
	ASMT170516PDPR-MJ	●				●		●			
	ASMT170520PDPR-MJ	●				●		●			
	ASMT170530PDPR-MJ	●				●		●			
	ASMT170532PDPR-MJ	●				●		●			
	ASMT170508PDPR-MS		●	●							
	ASGT170504PDFR-AJ						●		●		
	ASGT170508PDFR-AJ						●		●		

## ● AVGT\*\*PBER-MJ, AVGT\*\*PBFR-AJ

Shape	Designation	Coated			Uncoated		Applicable mill
		AH120	AH130	AH3135	KS05F		
 	AVGT060300PBER-MJ			●			<b>TUNG F<sup>REC</sup></b> EPAV... Page H138 HPAV06... Page H139, H140 TPAV06... Page H139
	AVGT060302PBER-MJ	●	●	●			
	AVGT060304PBER-MJ	●	●	●			
	AVGT060308PBER-MJ	●	●	●			
	AVGT060300PBFR-AJ				●		
	AVGT060302PBFR-AJ				●		
	AVGT060304PBFR-AJ				●		
	AVGT060308PBFR-AJ				●		

## ● CPMW\*\*-EN, CPMT\*\*-EN

Shape	Designation	Coated		Uncoated		Applicable mill
		GH330		UX30		
	CPMW050208EN	●		●		EVP1000 (old item)
	CPMW06T208EN	●		●		
	CPMT080308EN	●		●		

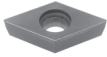
●: Line up

Grade  
Insert  
Ext. Toolholder  
Int. Toolholder  
Threading  
Grooving  
Miniature tool  
Milling cutter  
Endmill  
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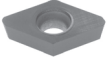
A  
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
## ● DCMW\*\*TN

Shape	Designation	Coated					Applicable mill
		AH120	AH330				
	DCMW070204TN	●	●				EBP... Page H225
	DCMW11T304TN	●	●				HBP... (old item)


## ● DPCW11T3ZFR

Shape	Designation	Coated	Cermet				Applicable mill
		AH740	NS740				
	DPCW11T3ZFR	●	●				TZF11... Page H234 HZF11... (old item)

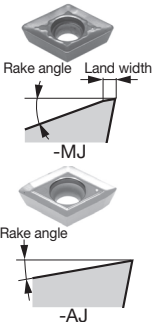
## ● EDKW53ZTR

Shape	Designation	Coated	Uncoated				Applicable mill
		GH330	UX30				
	EDKW53ZTR	●	●				ESD5000 (old item)

## ● ENEQ\*\*TN-T

Shape	Designation	Coated					Applicable mill
		AH120					
	ENEQ090508TN-T	●					VSNE09... (old item)
	ENEQ100508TN-T	●					VSNE10... (old item)
	ENEQ130608TN-T	●					VSNE13... (old item)
	ENEQ160608TN-T	●					VSNE16... (old item)

## ● GDMT\*\*PDPR-MJ, GDGT\*\*PDFR-AJ

Shape	Designation	Coated					Uncoated		Applicable mill
		AH120	AH140	AH330	T3130	DS1100	UX30	TH10	
 <p>Rake angle Land width</p> <p>-MJ</p> <p>Rake angle</p> <p>-AJ</p>	GDMT10H3PDPR-MJ	●	●	●	●	●		TSD10/17... (old item)	
	GDMT17X6PDPR-MJ	●	●	●	●	●		ESD10/17... (old item)	
	GDGT10H3PDFR-AJ					●	●		HSD10/17... (old item)
	GDGT17X6PDFR-AJ					●	●		

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool


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
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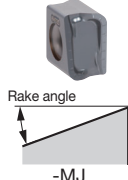
## ● HEHN532FN

Shape	Designation	Uncoated						Applicable mill
		TH10						
	HEHN532FN	●						QYE5300 (old item)

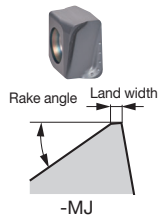
## ● HPKN532FN

Shape	Designation	Uncoated						Applicable mill
		TH10						
	HPKN532FN	●						QYP5300 (old item)

## ● LMEU\*\*ZNEN-MJ

Shape	Designation	Coated				Applicable mill
		AH120	AH140	AH725	AH3135	
	LMEU100808ZNEN-MJ	●	●	●	●	<b>TEC TSLÖT</b> ASN 10/12/15... Page H199 TSN 10/12/15... Page H200
	LMEU100810ZNEN-MJ	●			●	
	LMEU100816ZNEN-MJ	●	●	●	●	
	LMEU100820ZNEN-MJ	●			●	
	LMEU100824ZNEN-MJ	●	●	●	●	
	LMEU100830ZNEN-MJ	●			●	
	LMEU100832ZNEN-MJ	●	●	●	●	
	LMEU120808ZNEN-MJ	●	●	●	●	
	LMEU120816ZNEN-MJ	●	●	●	●	
	LMEU120820ZNEN-MJ	●			●	
	LMEU120824ZNEN-MJ	●	●	●	●	
	LMEU120830ZNEN-MJ	●			●	
	LMEU120832ZNEN-MJ	●	●	●	●	
	LMEU150908ZNEN-MJ	●	●	●	●	
	LMEU150916ZNEN-MJ	●	●	●	●	
	LMEU150920ZNEN-MJ	●			●	
LMEU150924ZNEN-MJ	●	●	●	●		
LMEU150930ZNEN-MJ	●			●		
LMEU150932ZNEN-MJ	●	●	●	●		
LMEU150940ZNEN-MJ	●			●		
LMEU150950ZNEN-MJ	●			●		


## ● LMMU\*\*PNER-MJ

Shape	Designation	Coated						Applicable mill
		AH3135	AH120	AH140	AH725	T1215	T3225	
	LMMU110708PNER-MJ	●	●	●	●	●	●	<b>TECMILL</b> TPM11/16... Page H171 TLM11... Page H171 EPM11... Page H172
	LMMU110716PNER-MJ	●	●	●	●	●	●	
	LMMU110724PNER-MJ		●	●	●			
	LMMU110732PNER-MJ		●	●	●			
	LMMU160908PNER-MJ	●	●	●	●	●	●	
	LMMU160916PNER-MJ	●	●	●	●			
	LMMU160924PNER-MJ		●	●	●			
	LMMU160932PNER-MJ		●	●	●			



●: Line up

# Milling Insert


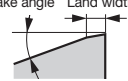

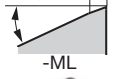

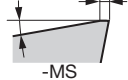

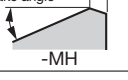
## ● LNCA64ZTR

Shape	Designation	Coated		Uncoated		Applicable mill
		T3130		UX30		
	<b>LNCA64ZTR</b>	●		●		VSN6000I (old item)

## ● LNCQ0906N-\*\*L, LNCQ0906R-50S

Shape	Designation	Coated		Cermet		Applicable mill
		AH120	GH110	NS740		
 Rake angle 	<b>LNCQ0906N-100L</b>	●	●	●		NMS09... Page H114
	<b>LNCQ0906N-50L</b>	●	●	●		
	<b>LNCQ0906R-50S</b>	●	●	●		EMS09... Page H114

## ● LNMU0303ZER-MJ, LNMU0303ZER-ML, LNMU0303ZER-MS, LNGU0303ZER-MH

Shape	Designation	Coated					Applicable mill
		AH130	AH725	AH3035	AH8015	AH8005	
 Rake angle Land width  -MJ  Rake angle Land width  -ML  Rake angle Land width  -MS  Rake angle Land width  -MH	<b>LNMU0303ZER-MJ</b>	●	●	●	●	●	<b>DOFEED</b> TXN03... Page H026 EXN03... Page H026, H027 HXN03... Page H028
	<b>LNMU0303ZER-ML</b>	●	●	●	●		
	<b>LNMU0303ZER-MS</b>	●					
	<b>LNGU0303ZER-MH</b>				●	●	

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool

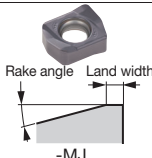
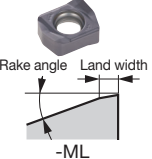
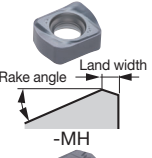

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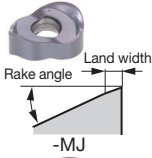
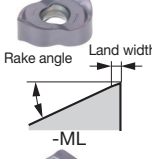
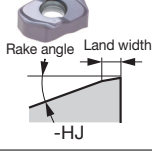
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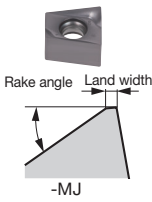
## ● LNMU06X5ZER-MJ, LNMU06X5ZER-ML, LNGU06X5ZER-MH, LNGU06X5ZER-W

Shape	Designation	Coated						Applicable mill
		AH120	AH130	AH725	AH3035	AH8015	AH8005	
 -MJ	LNMU06X5ZER-MJ	●	●	●	●	●		<b>DOFEED</b> TXN06... Page H032 EXN06... Page H033
	LNMU06X5ZER-ML	●	●	●	●	●		
	LNGU06X5ZER-MH					●	●	
	LNGU06X5ZER-W			●				
 -ML								
 -MH								
 -W								

## ● LNMX040\*R\*-MJ, LNMX0405R4-ML, LNMX0405R4-HJ, LNMX0607ZER-HJ

Shape	Designation	Coated		Applicable mill
		AH120	AH3135	
 -MJ	LNMX0405R4-MJ	●	●	<b>DOTWIST</b> TXLN... Page H036 EXLN... Page H037 HXLN... Page H038
	LNMX0405R4-ML	●	●	
	LNMX0405ZER-HJ	●	●	
	LNMX0506R5-MJ	●	●	
	LNMX0607R6-MJ	●	●	
	LNMX0607ZER-HJ	●	●	
 -ML				
 -HJ				

## ● LQMU\*\*PNER-MJ, LQMU110708PXER-MJ



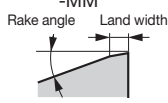
Shape	Designation	Coated				Applicable mill
		AH120	AH140	AH725	AH3135	
 -MJ	LQMU110704PNER-MJ	●	●	●		<b>DOREC</b> TPQ11/18... Page H167 EPQ11/18... Page H168
	LQMU110708PNER-MJ	●	●	●		
	LQMU110708PXER-MJ	●			●	
	LQMU110716PNER-MJ	●	●	●		
	LQMU110720PNER-MJ	●				
	LQMU180804PNER-MJ	●	●	●		
	LQMU180808PNER-MJ	●	●	●		
	LQMU180816PNER-MJ	●	●	●		
	LQMU180824PNER-MJ	●	●	●		

●: Line up







## Milling Insert



## ● LSMT0202ZER-HM, LSMT0202R2-MM

Shape	Designation	Coated							Applicable mill
		AH3225	AH8015						
 -HM  -MM 	LSMT0202ZER-HM	●	●						<b>TUNGF<sup>FACE</sup>FEED</b> EXLS... Page H022 HXLS... Page H022
	LSMT0202R2-MM	●	●						



## ● ONMU0705ANPN-MJ, ONHU0705ANPN-MJ, ONMU0705ANPN-ML, ONHU0705ANTN-ML, ONHU0705ANPR-W

Shape	Designation	Coated											Applicable mill
		AH120	AH140	AH725	AH3135	T1115	T1215	T3225					
 Rake angle Land width  Rake angle Land width -MJ  Rake angle Land width -ML  -W	ONMU0705ANPN-MJ		●	●	●	●	●	●					<b>DOOCTO</b> TAN07... Page H063, H064
	ONHU0705ANPN-MJ		●	●	●	●	●	●					
	ONMU0705ANPN-ML	●				●							
	ONHU0705ANTN-ML	●	●	●									
	ONHU0705ANPR-W	●											

## ● ONGU0507ANEN-MJ, ONGU0507ANEN-W, ONMU0507ANEN-MJ



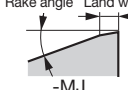
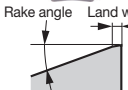
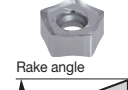

Shape	Designation	Coated								Applicable mill
		AH120	AH3135	T3225	T1215					
 Rake angle Land width -MJ  -W	ONGU0507ANEN-MJ	●	●	●	●					<b>DOT<sup>MILL</sup></b> TASN13... Page H060
	ONGU0507ANEN-W	●	●	●	●					
	ONMU0507ANEN-MJ	●	●	●	●					

## ● OWMT0807ZNER-HJ, OWMT0807AAER-ML

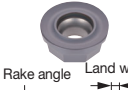
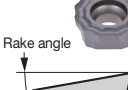
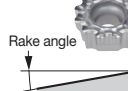
Shape	Designation	Coated							Applicable mill
		AH130	AH3135						
 Rake angle Land width -HJ  Rake angle Land width -ML	OWMT0807ZNER-HJ		●						<b>DOOCTO</b> TAN07... Page H063, H064
	OWMT0807AAER-ML	●	●						

# Milling Insert

- PNMU0905GNEN-MJ, PNCU0905GNEN-MJ, PNCU0905GNER-MJ, PNCU0905GNEN-ML, PNCU0905GNFR-AJ, PNCU0905GNER-W

Shape	Designation	Coated							Cermet	Uncoated	Applicable mill
		AH120	AH140	AH725	AH3135	T1115	T1215	T3130	T3225	NS740	
 Neutral  Right hand  Rake angle Land width -MJ  Rake angle Land width -ML  Rake angle -AJ  Rake angle -W	PNMU0905GNEN-MJ	●			●						<b>DOPENT</b> TEN09R/L... Page H070 EEN09... Page H071
	PNCU0905GNEN-MJ	●			●						
	PNCU0905GNER-MJ	●	●	●		●			●		
	PNCU0905GNEN-ML				●						
	PNCU0905GNFR-AJ									●	
	PNCU0905GNER-W			●							

- RCMT\*\*EN-MJ, RCMT\*\*EN-NMJ, RCMT\*\*FN-NAJ

Shape	Designation	Coated				Uncoated				Applicable mill
		AH120	AH140	AH725	KS15F					
 Rake angle Land width -MJ  Rake angle -NMJ  Rake angle -NAJ	RCMT1204EN-MJ	●	●	●						<b>ROUND SPLIT</b> TRC12/16... Page H217 ERC12/16... Page H218
	RCMT1204EN-NMJ	●	●	●						
	RCMT1204FN-NAJ				●					
	RCMT1606EN-MJ	●	●	●						
	RCMT1606EN-NMJ	●	●	●						
	RCMT1606FN-NAJ				●					


●: Line up

Grade  
 Insert  
 Ext. Toolholder  
 Int. Toolholder  
 Threading  
 Grooving  
 Miniature tool  
 Milling cutter  
 Endmill  
 Drilling tool  
 Tooling System  
 User's Guide  
 Index




# Milling Insert

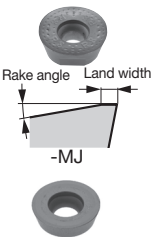
## ● RDCA2004TN, RDCN2004TN, RDKN2004...

Shape	Designation	Coated		Uncoated		Applicable mill
		AH120		UX30	TH10	
	RDCA2004TN			●		TRD6000 (old item)
	RDCN2004TN			●		
	RDKN2004FN				●	ERD6000 (old item)
	RDKN2004TN	●		●		


## ● RDCM1203TN, RDMA1203TN

Shape	Designation	Uncoated		Applicable mill
		UX30		
	RDCM1203TN	●		ERD4000 (old item)
	RDMA1203TN	●		


## ● RDMT\*\*ZDPN-MJ, RDMW\*\*ZDSN

Shape	Designation	Coated					Uncoated	Applicable mill
		AH120	AH130	AH140	AH330	T3130	UX30	
 <p>Rake angle Land width -MJ</p>	RDMT1204ZDPN-MJ	●		●	●	●	●	TRD12/16... (old item)
	RDMW1204ZDSN	●		●	●	●	●	
	RDMT1606ZDPN-MJ	●	●	●	●	●	●	ERD12/16... (old item)
	RDMW1606ZDSN	●		●	●	●	●	

## ● RDMW\*\*M0

Shape	Designation	Coated		Applicable mill
		AH120		
	RDMW0501M0	●		EWD05/07/10... Page H221
	RDMW0702M0	●		
	RDMW1003M0	●		HWD07... Page H221

## ● RFEN2004ZFTN, RFEN2004M0TN

Shape	Designation	Coated		Uncoated		Applicable mill
		AH120	GH330	UX30	KS20	
	RFEN2004ZFTN	●	●	●	●	TRF6000 (old item)
	RFEN2004M0TN		●	●	●	ERF6000 (old item)

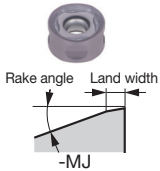
●: Line up

# Milling Insert

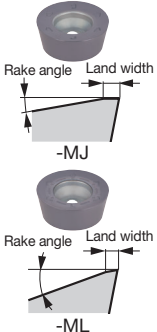
Grade  
Insert  
Ext. Toolholder  
Int. Toolholder  
Threading  
Grooving  
Miniature tool  
Milling cutter  
Endmill  
Drilling tool  
Tooling System  
User's Guide  
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K  
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M

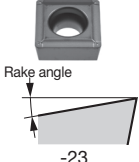
## ● RRGU1307ZNER-MJ, RNMU1307ZNER-MJ

Shape	Designation	Coated				Applicable mill
		AH120	AH3135	T1215	T3225	
 -MJ	RNMU1307ZNER-MJ	●	●	●	●	<b>DOTMILL</b> TASN13... Page H060


## ● RPMT\*\*EN-MJ, RPMT\*\*EN-ML

Shape	Designation	Coated			Applicable mill
		AH130	AH725	AH4035	
 -MJ -ML	RPMT10T3EN-MJ	●	●	●	<b>FIXRMILL</b> TRP10/12/16... Page H212 ERP10/12/16... Page H212 HRP10/12... Page H213
	RPMT10T3EN-ML	●	●	●	
	RPMT1204EN-MJ	●	●	●	
	RPMT1204EN-ML	●	●	●	
	RPMT1606EN-MJ	●	●	●	
	RPMT1606EN-ML	●	●	●	

## ● SCMT\*\*-23

Shape	Designation	Coated				Applicable mill
		AH120				
 -23	SCMT09T308-23	●				EBD... Page H227
	SCMT120408-23	●				HBD... (old item)


## ● SDCN1504ZDSR, SDEN1504ZDSR, SDNN1504ZDSR

Shape	Designation	Coated				Applicable mill
		AH120	AH140	T1115	T3130	
	SDCN1504ZDSR	●	●		●	<b>MILLFEED</b> TXD15... (old item)
	SDEN1504ZDSR	●	●	●	●	
	SDNN1504ZDSR	●	●	●	●	


●: Line up

# Milling Insert



## ● SDCN42HTR, SDKN42HTR

Shape	Designation	Coated							Applicable mill
		GH330							
	SDCN42HTR	●							EUD4600 (old item)
	SDKN42HTR	●							

## ● SDKN42EF..., SDEN42EFTR24


Shape	Designation	Coated	Cermet	Uncoated		Applicable mill
		T3130	NS740	TH10	UX30	
	SDKN42EFTR	●	●			TMD4100I (old item)
	SDKN42EFFR			●		
	SDEN42EFTR24		●		●	

## ● SDCN42Z..., SDEN42Z..., SDKN42Z..., SDCN42ZFN-DIA, SDKR42ZSR-MJ, SDMR1203AETN-MJ, SDKR1203AETN-MJ, SDKR42ZPN-MS

Shape	Designation	Coated								Cermet		Uncoated		PCD	Applicable mill		
		AH3135	AH120	AH130	AH140	AH330	GH330	T1115	T1215	T3130	T3225	NS740	N308	UX30		TH10	DX140
	SDCN42ZFN														●	TMD4400R/LI Page H095	
	SDCN42ZTN										●	●	●				EMD4400RI Page H096
	SDCN42ZTN20										●						
	SDEN42ZFN														●	TGD4400-A Page H101	
	SDEN42ZTN	●	●		●		●	●	●		●	●	●				
	SDEN42ZTNCR	●	●		●	●					●						
	SDEN42ZTN20								●	●							
	SDKN42ZFN														●		
	SDKN42ZTN	●	●	●	●	●	●	●	●		●	●	●				
	SDKN42ZTNCR										●						
	SDKN42ZTN16								●	●							
	SDCN42ZFN-DIA														●		
	SDKR42ZSR-MJ	●	●			●	●		●	●							
SDMR1203AETN-MJ										●							
SDKR1203AETN-MJ										●							
SDKR42ZPN-MS	●		●	●													

DX140: Packing quantity = 1pc.

## ● SDCN53HTR, SDKN53HTR

Shape	Designation	Coated							Applicable mill
		GH330							
	SDCN53HTR	●							TUD5600 (old item)
	SDKN53HTR	●							

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool




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

## ● SDCN53ZTN, SDEN53Z..., SDKN53Z..., SDKR53ZSR-MJ

Shape	Designation	Coated					Cermet		Uncoated		Applicable mill	
		AH120	AH130	AH140	GH330	T3130	NS740	N308	UX30	TH10		
   <p>Rake angle Land width -MJ</p>	SDCN53ZTN						●	●			TMD5400RI Page H099	
	SDEN53ZFN								●			
	SDEN53ZTN				●		●		●			
	SDEN53ZTNCR						●					
	SDEN53ZTN20					●						
	SDKN53ZFN									●		
	SDKN53ZTN	●	●	●	●		●	●	●			
	SDKN53ZTNCR						●					
	SDKN53ZTN16					●						
	SDKR53ZSR-MJ				●	●						

## ● SDMT050204PN-MJ, SDHT050204FN-AJ

Shape	Designation	Coated		Uncoated							Applicable mill
		AH140	AH725	TH10							
 <p>Rake angle -MJ</p>	SDMT050204PN-MJ	●	●								<b>TUNGQUAD</b> TPD05... Page H157  EPD05... Page H157  ELD05... Page H158  EASD05... Page H158
	SDHT050204FN-AJ			●							
 <p>Rake angle -AJ</p>											







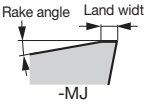
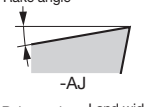
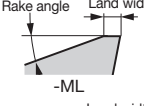
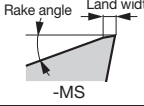
## ● SDMT1204AFPJ-MJ, SDMT1204AFTN-MJ, SDMT1204AFPJ-ML, SDMT1204AFPJ-MS, SDGT1204AFTN-MJ, SDGT1204AFPJ-AJ

Shape	Designation	Coated					Cermet	Uncoated				Applicable mill
		AH120	AH140	AH330	GH330	T3130	NS740	TH10				
    <p>Rake angle Land width -MJ</p> <p>Rake angle -AJ</p> <p>Rake angle Land width -ML</p> <p>Rake angle Land width -MS</p>	SDMT1204AFPJ-MJ	●	●	●	●	●					TAD12... EAD12... (old item)	
	SDMT1204AFTN-MJ						●					
	SDMT1204AFPJ-ML	●		●								
	SDMT1204AFPJ-MS		●									
	SDGT1204AFTN-MJ	●		●			●					
	SDGT1204AFPJ-AJ								●			



●: Line up

# Milling Insert













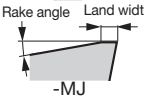
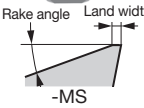
## ● SDMT1204PDSR-MJ, SDMT1204PDTR-MJ, SDMT1204PDPR-ML, SDMT1204PDPR-MS SDGT1204PDTR-MJ, SDGT1204PDFR-AJ

Shape	Designation	Coated					Cermet		Uncoated		Applicable mill	
		AH120	AH140	AH330	GH330	T3130	NS740		TH10			
         	SDMT1204PDSR-MJ	●	●	●	●	●					TPD12... EPD12... (old item)	
	SDMT1204PDTR-MJ						●					
	SDMT1204PDPR-ML				●							
	SDMT1204PDPR-MS			●								
	SDGT1204PDTR-MJ		●		●			●				
	SDGT1204PDFR-AJ								●			

## ● SDMW090308TN, SDMW120408TN

Shape	Designation	Uncoated								Applicable mill	
		UX30									
 	SDMW090308TN	●									ELD3000 ELD4000 (old item)
	SDMW120408TN	●									

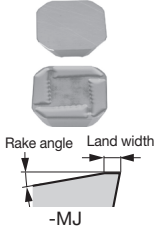
## ● SECN1203AGFN, SEEN1203AG..., SEKN1203AG..., SEKR1203AGSR-MJ, SEKR1203AGPN-MS

Shape	Designation	Coated							Cermet		Uncoated		Applicable mill	
		AH120	AH130	AH140	AH330	GH330	T1115	T3130	NS740		UX30	TH10		
             	SECN1203AGFN										●		TME4400R/LI Page H088 TME4400RB Page H089 EME4400 Page H090	
	SEEN1203AGFN										●			
	SEEN1203AGTN	●	●	●		●	●		●	●	●			
	SEEN1203AGTN-T								●	●	●			
	SEEN1203AGTNCR	●	●	●	●				●					
	SEEN1203AGTNCR-14								●					
	SEKN1203AGFN-T											●		
	SEKN1203AGTN	●	●	●	●	●		●	●	●	●			
	SEKN1203AGTN-T					●	●	●	●	●	●			
	SEKN1203AGTNCR								●					
	SEKR1203AGSR-MJ	●			●	●		●						
	SEKR1203AGPN-MS		●	●										


●: Line up

# Milling Insert

## ● SE\*N1504AG..., SEKR1504AGSR-MJ

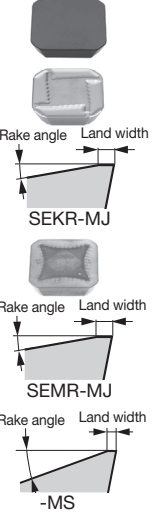
Shape	Designation	Coated				Cermet		Uncoated		Applicable mill
		AH120	AH140	GH330	T3130	NS740		TH10	UX30	
 -MJ	SEEN1504AGTN					●			●	TME5400RI Page H093
	SEKN1504AGFN							●		
	SEKN1504AGTN	●	●	●	●	●			●	
	SEKN1504AGTN-T				●	●				
	SEKR1504AGSR-MJ			●	●					

## ● SECN422TN, SECN422FN, SEEN422TN, SEEN422FN, SECN422FN-DIA

Shape	Designation	ISO Designation (Metric)	Cermet		Uncoated		PCD		Applicable mill
			NS740	N308	UX30	TH10	DX140		
 -DIA	SECN422TN	SECN120308TN	●	●	●				EGE4000 (old item) QHE4000
	SECN422FN	SECN120308FN				●			
	SEEN422TN	SEEN120308TN	●	●	●				
	SEEN422FN	SEEN120308FN				●			
	SECN422FN-DIA	SECN120308FN-D					●		

DX140: Packing quantity = 1pc.

## ● SEEN1203AFTNCR-14, SEKN42AFTN, SEKN42AFFN, SEKN42AFTN16, SEKR42AFSR-MJ, SEKR1203AFPN-MS, SEKR1203AFTN-MJ, SEMR1203AFTN-MJ


Shape	Designation	ISO Designation (Metric)	Coated					Cermet	Uncoated		Applicable mill
			AH120	AH130	AH140	GH330	T3130	NS740	TH10	UX30	
 SEKR-MJ SEMR-MJ -MS	SEEN1203AFTNCR-14						●			TGE4400I EGE4400 (old item)	
	SEKN42AFTN	SEKN1203AFTN	●	●	●	●			●		
	SEKN42AFFN	SEKN1203AFFN							●		
	SEKN42AFTN16	SEKN1203AFTN-16					●				
	SEKR42AFSR-MJ	SEKR1203AFSR-MJ				●	●				
	SEKR1203AFPN-MS				●						
	SEKR1203AFTN-MJ						●				
	SEMR1203AFTN-MJ						●				

●: Line up




# Milling Insert

● **SECN42EFTRCR, SEEN42EFTRCR, SEKN42EFTR, SEKN42EFFR**

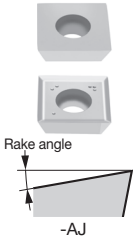



Shape	Designation	ISO Designation (Metric)	Coated		Cermet	Uncoated		Applicable mill
			GH330	T3130	NS740	UX30	TH10	
	<b>SECN42EFTRCR</b>	<b>SECN1203EFTR</b>			●			EGE4100 (old item)
	<b>SEEN42EFTRCR</b>	<b>SEEN1203EFTR</b>			●			
	<b>SEKN42EFTR</b>	<b>SEKN1203EFTR</b>	●	●	●			
	<b>SEKN42EFFR</b>	<b>SEKN1203EFFR</b>					●	

● **SE\*N42ZFR, SECN42ZFR-DIA**

Shape	Designation	Uncoated		PCD	Applicable mill
		TH10		DX140	
 -DIA	<b>SECN42ZFR-DIA</b>			●	THE4000RIA Page H177
	<b>SECN42ZFR</b>	●			
	<b>SEEN42ZFR</b>	●			

DX140: Packing quantity = 1pc.

● **SEGW12X4ZE\*R, SEGT12X4ZEFR-AJ, SEGW12X4ZEFR-\*, 2QP-SECW12X412ZETR, 1QP-SECW12X4ZETR-\***

Shape	Designation	Coated			Cermet	Uncoated	PCD	CBN	Applicable mill
		AH120	AH140	DS1100	NS740	KS05F	DX140	BX480	
 Rake angle -AJ  -D Regular edge  -WD Wiper edge  -BD Wiper for burr removal	<b>SEGW12X4ZEFR</b>					●			TFE12R...-...A Page H083 TFE12R... Page H082 EFE12R... Page H082
	<b>SEGW12X4ZEPR</b>	●	●		●				
	<b>SEGT12X4ZEFR-AJ</b>			●		●			
	<b>SEGW12X4ZEFR-D</b>						●		
	<b>SEGW12X4ZEFR-WD</b>						●		
	<b>SEGW12X4ZEFR-BD</b>						●		
	<b>2QP-SECW12X412ZETR</b>							●	
	<b>1QP-SECW12X4ZETR-W</b>							●	
	<b>1QP-SECW12X4ZETR-B</b>							●	

DX140: Packing quantity = 1pc.

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool

Tooling System

User's Guide

Index



## ●SEKR1504AFSR-MJ

Shape	Designation	Coated							Applicable mill
		T3130							
 -MJ	<b>SEKR1504AFSR-MJ</b>	●							(old item)

## ●SF\*N42ZFN, SFCN42ZFN-DIA

Shape	Designation	Uncoated		PCD		Applicable mill
		TH10		DX140		
 -DIA	<b>SFCN42ZFN</b>	●				THF4400RIA (old item)
	<b>SFEN42ZFN</b>	●				
	<b>SFCN42ZFN-DIA</b>			●		

DX140: Packing quantity = 1pc.

## ●SF\*N53ZFN, SFCN53ZFN-DIA

Shape	Designation	Uncoated		PCD		Applicable mill
		TH10		DX140		
 -DIA	<b>SFCN53ZFN</b>	●				THF5400RIA (old item)
	<b>SFEN53ZFN</b>	●				
	<b>SFCN53ZFN-DIA</b>			●		

DX140: Packing quantity = 1pc.

## ●SN\*\*56FTR

Shape	Designation	Cermet							Applicable mill
		X407							
	<b>SNAA56FTR</b>	●							MS... Page H116
	<b>SNAG56FTR</b>								
	<b>SNCC56FTR</b>								
	<b>SNCJ56FTR</b>								

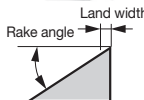
## ●SNCN43Z..., SNKF43Z..., SNKN43ZTN

Shape	Designation	Coated		Cermet		Ceramic	Uncoated		Applicable mill
		T1115	T3130	NS740	N308	FX105	UX30	TH10	
	<b>SNCN43ZFN</b>							●	TGN4200R-A (old item)
	<b>SNCN43ZTN</b>			●	●		●		
	<b>SNKF43ZFN</b>						●	●	
	<b>SNKN43ZTN</b>	●					●		
	<b>SNCN43ZFN</b>						●		
	<b>SNKN43ZTN</b>	●	●			●			

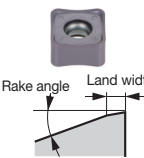
●: Line up

# Milling Insert

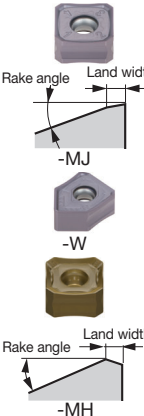
## ● SNEN12\*\*Z...

Shape	Designation	Uncoated				Applicable mill
		UX30	TH10			
	SNEN12T2ZFN		●			SVN4000 (old item)
	SNEN12T2ZTN	●				
	SNEN1233ZFN		●			
	SNEN1233ZTN	●				

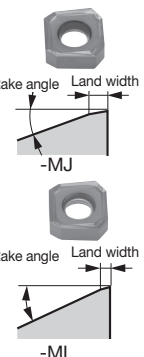
## ● SNMU120608HNEN-MM, SNMU1206\*\*EN-MM

Shape	Designation	Coated				Applicable mill
		AH120	AH3135	T1215	T3225	
	SNMU120608HNEN-MM	●	●	●	●	<b>DOQ MILL</b> THSN12... Page H067
	SNMU120612EN-MM		●	●		
	SNMU120620EN-MM		●	●		

## ● SNGU1307ANEN-MJ, SNGU1307ANEN-W, SNGU1307ANEN-MH, SNMU1307ANEN-MJ


Shape	Designation	Coated				Applicable mill
		AH120	AH3135	T3225	T1215	
	SNGU1307ANEN-MJ	●	●	●	●	<b>DOT MILL</b> TASN13... Page H060
	SNGU1307ANEN-W	●	●			
	SNGU1307ANEN-MH			●		
	SNMU1307ANEN-MJ	●	●	●	●	

## ● SNMU1706ANPR-MJ, SNHU1706ANPR-MJ, SNMU1706ANTR-ML, SNHU1706ANTR-ML, SNHU1706ANFN-W


Shape	Designation	Coated						Applicable mill
		AH120	AH140	AH725	AH3135	T1215	T3225	
	SNMU1706ANPR-MJ		●	●	●	●	●	<b>DOOCTO</b> TAN07... Page H063, H064
	SNMU1706ANTR-ML	●			●			
	SNHU1706ANPR-MJ		●	●				
	SNHU1706ANTR-ML	●						
	SNHU1706ANFN-W	●						

# Milling Insert


## ● SNMN1204\*\*TN

Shape	Designation	Coated			Cermic	Uncoated			Applicable mill
		AH120	T1115	T3130	FX105	UX30			
	SNMN120408TN				●				TGN4200R-A (Old item)
	SNMN120412TN	●	●	●	●	●			
	SNMN120416TN				●				
	SNMN120420TN				●				
	SNMN120424TN				●				

## ● SPCN42..., SPEN42..., SPKN42..., SPKR42SSR-MJ, SPGN120312TN

Shape	Designation	Coated					Cermet		Ceramic	Uncoated		Applicable mill
		AH120	AH140	GH330	T1115	T3130	NS740	N308	FX105	UX30	TH10	
 Rake angle    Land width -MJ	SPCN42STR						●	●		●		TGP4100RIA/ RBA/RBAE Page H104
	SPCN42SFR										●	
	SPEN42STR						●	●			●	
	SPKN42STR	●	●	●	●	●	●	●	●	●		
	SPKN42STL						●	●		●		
	SPKN42SFR										●	
	SPKN42SFL										●	
	SPKR42SSR-MJ			●	●	●						
	SPGN120312TN								●			
	SPEN423TN					●	●			●		
	SPEN423FN										●	

## ● SP\*N42...

Shape	Designation	Coated		Cermet			Uncoated		Applicable mill
		T1115	T3130	NS740	X407	N308	UX30	TH10	
	SPAN42ZFR							●	TGP4200R-A Page H106
	SPCN42ZFL							●	
	SPCN42ZFR							●	
	SPCN42ZTR			●	●	●			
	SPEN423TN		●	●			●		
	SPEN423FN							●	
	SPEN42ZTR			●					
	SPKN42ZFL							●	
	SPKN42ZFR							●	
	SPKN42ZTR	●	●	●	●	●	●		

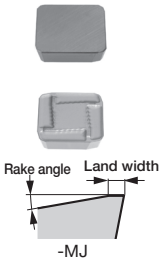
●: Line up

Grade  
Insert  
Ext. Toolholder  
Int. Toolholder  
Threading  
Grooving  
Miniature tool  
Milling cutter  
Endmill  
Drilling tool  
Tooling System  
User's Guide  
Index




# Milling Insert


## ● SP\*N53S..., SPKR53SSR-MJ

Shape	Designation	Coated			Cermet		Uncoated		Applicable mill
		GH330	T1115	T3130	NS740	N308	UX30	TH10	
	SPCN53SFR						●		TGP5100RIA Page H108
	SPCN53STR					●	●		
	SPKN53SFR							●	
	SPKN53STL						●		
	SPKN53STR		●	●		●	●		
	SPKN53STR20								
	SPKR53SSR-MJ		●		●				


## ● SPGN120412TN

Shape	Designation	Coated		Ceramic		Applicable mill
		T1115		FX105		
	SPGN120412TN	●		●		QFP4000 (Old item)

## ● SPHA\*\*FNW

Shape	Designation	Cermet		Uncoated		Applicable mill
		N308		TH10		
	SPHA431FNW	●		●		TSP4000IA Page H184
	SPHA435FNW	●		●		TFP4000IA Page H185 TFD4400-A (Old item) SFP4000R Page H118 EFP4000R Page H118

## ● SPMA422...

Shape	Designation	Cermet		Uncoated		Applicable mill
		NS740	N308	UX30	TH10	
	SPMA422TN	●	●	●		ECP4400R Page I096
	SPMA422FN				●	

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool

Tooling System

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## ● SPMP..., SPMM\*\*ERD

Shape	Designation	Coated							Applicable mill
		T313W	AH6030						
	SPMP771-CG		●						TCB... <a href="#">Page I097</a>
	SPMP831-CG		●						
	SPMP042ER-CG		●						
	SPMP322ER-CG		●						
	SPMP432ER-CG		●						
	SPMP831DS	●							
	SPMP042ERD	●							
	SPMM322ERD	●							
	SPMM432ERD	●							

## ● SPMR1605PPTR-MJ, SPMR1605PPPR-ML, SPMR1605PPTR-MH

Shape	Designation	Coated			Uncoated					Applicable mill
		GH330	T1115	T3130	UX30					
<p>-MJ</p>	SPMR1605PPTR-MJ	●	●	●	●				TPP16... (Old item)	
	SPMR1605PPPR-ML	●								
	SPMR1605PPTR-MH	●		●	●					
<p>-ML</p>										
<p>-MH</p>										

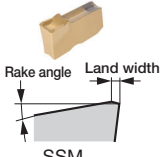
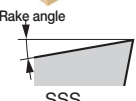
## ● SQMU1206ZSR-MJ

Shape	Designation	Coated							Applicable mill
		AH120	AH130	AH725	T3130				
<p>-MJ</p>	SQMU1206ZSR-MJ	●	●	●	●				DOFEEDQUAD TXQ... <a href="#">Page H043</a>

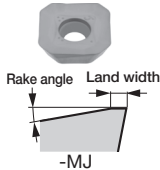
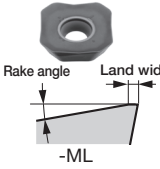
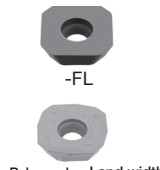
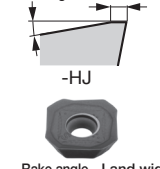
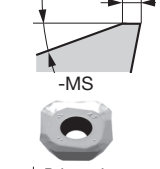
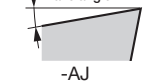
●: Line up

## Milling Insert

## ● SSM..., SSS...

Shape	Designation	Coated							Applicable mill
		GH130							
 SSM	SSM22N	●							<b>TUNG</b> MILL S/ASG... Page H190
	SSM31N	●							
	SSM41N	●							
	SSS16N	●							
	SSS22N	●							
	SSS31N	●							
	SSS41N	●							
 SSS									

## ● SWMT13T3AFPR-MJ, SWMT13T3AFER-ML, SWMW13T3AFTR, SWMT13T3AFPR-HJ, SWMT13T3AFPR-MS, SWGT13T3AFPR-MJ, SWGT13T3AFFR-AJ

Shape	Designation	Coated							Cermet	Uncoated	Applicable mill		
		AH120	AH130	AH140	AH3135	T1115	T1215	T3130	T3225	DS1100		NS740	KS05F
 -MJ	SWMT13T3AFPR-MJ	●	●	●	●	●	●	●	●	●	●	<b>TUNG</b> MILL TAW13... Page H073 EAW13... Page H074	
	SWMT13T3AFER-ML	●			●								
	SWMW13T3AFTR	●			●	●	●	●					
	SWMT13T3AFPR-HJ	●	●	●	●	●	●	●					
	SWMT13T3AFPR-MS		●	●	●								
	SWGT13T3AFPR-MJ	●			●					●			
	SWGT13T3AFFR-AJ								●		●		
 -ML													
 -FL													
 -HJ													
 -MS													
 -AJ													

●: Line up

# Milling Insert



● SWMT1304PDPR-MJ, SWMT1304PDER-ML, SWMT1304PDPR-MS, SWGT1304PDPR-MJ, SWGT1304PDFR-AJ

Shape	Designation	Coated								Cermet		Uncoated		Applicable mill	
		AH120	AH130	AH140	AH3135	T1115	T1215	T3130	T3225	DS1100	NS740	KS05F			
 -MJ  -ML  -MS  -AJ	SWMT1304PDPR-MJ	●	●	●	●	●	●	●	●	●			<b>TUNG MILL</b> TPW13... Page H162  EPW13... Page H163		
	SWMT1304PDER-ML	●			●										
	SWMT1304PDPR-MS		●	●											
	SWGT1304PDPR-MJ	●									●				
	SWGT1304PDFR-AJ									●		●			

● SWMT1506ZER-MJ

Shape	Designation	Coated										Applicable mill			
		AH120	AH3135												
 -MJ  -MM	SWMT0904ZER-MM		●										<b>MILL Q FEED</b> TXSW09... Page H046  EXSW09... Page H046  TXSW15... Page H047		
	SWMT0904UER-MM		●												
	SWMT1506ZER-MM	●	●												
	SWMT1506UER-MM		●												
	SWMT1506ZER-MJ	●	●												

● T\*-R...

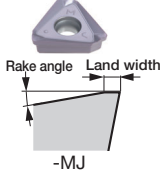
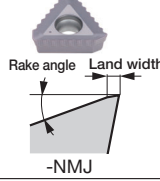
Shape	Designation	Coated								Applicable mill
		GH330								
	T1-R14	●								Thread milling cutter Page I126
	T1-R28	●								
	T2-R14	●								
	T2-R28	●								

●: Line up




## Milling Insert



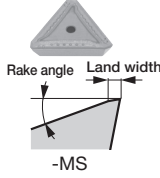
## ● TCGT160608PDER-MJ, TCMT160620PDER-NMJ

Shape	Designation	Coated								Applicable mill
		AH120	AH3135	T1215	T3225					
 -MJ	TCGT160608PDER-MJ	●	●						<b>TUNG-TRISHRED</b> LPTC16... Page H135 TPTC16... Page H135 EPTC16... Page H136	
	TCMT160620PDER-NMJ	●	●	●	●					
 -NMJ										

## ● TDMN\*\*N

Shape	Designation	Cermet	Uncoated					Applicable mill
		NS740	TH10 UX30					
	TDMN110304TN	●		●				ESD2000 (Old item)
	TDMN110304FN		●					
	TDMN110308TN	●		●				

## ● TECN32..., TEEN32..., TECN32ZFR-DIA, TEKR1603PEPR-MS




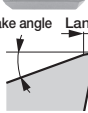
Shape	Designation	Coated								Cermet	Uncoated	PCD	Applicable mill			
		AH120	AH130	AH140	AH330	AH3135	GH330	T1115	T3130	T1215	T3225	NS740		N308	UX30	TH10
	TECN32ZFR													●		TSE3000R Page H178
	TECN32ZTR										●	●	●			
	TEEN32ZFR													●		ESE3000R Page H178
	TEEN32ZTR	●	●	●	●	●	●	●	●	●	●	●	●			
-DIA	TECN32ZFR-DIA														●	
 -MS	TEKR1603PEPR-MS			●												

DX140: Packing quantity = 1pc.

●: Line up








# Milling Insert

## ● TECN43..., TEEN43..., TECN43ZFR-DIA, TEKR2204PEPR-MS

Shape	Designation	Coated										Cermet		Uncoated		PCD	Applicable mill	
		AH120	AH130	AH140	AH330	AH3135	GH330	T1115	T3130	T1215	T3225	NS740	N308	UX30	TH10	DX140		
  -DIA  Rake angle Land width  -MS	TECN43ZFR																	TSE4000RIA Page H181 ESE4000R Page H182
	TECN43ZTR											●	●	●				
	TEEN43ZFR														●			
	TEEN43ZTR	●	●	●	●	●	●	●	●	●	●	●	●	●				
	TECN43ZFR-DIA															●		
	TEKR2204PEPR-MS			●														

DX140: Packing quantity = 1pc.

## ● TNGU120708PER-MJ, TNMU1207R16PER-MJ, TNMU120708PER-MJ, TNMU120708PER-NMJ

Shape	Designation	Coated														Applicable mill	
		AH120	AH3135	T1215	T3225												
 Rake angle Land width  TNGU-MJ	TNGU120708PER-MJ	●	●	●													 TPTN12... Page H122 EPTN12... Page H122
	TNMU1207R16PER-MJ	●	●														
	TNMU120708PER-MJ	●	●	●	●												
	TNMU120708PER-NMJ	●	●														
 Rake angle Land width  -NMJ																	
	 Rake angle Land width  TNMU-MJ																

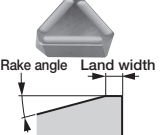
●: Line up

Grade  
 Insert  
 Ext. Toolholder  
 Int. Toolholder  
 Threading  
 Grooving  
 Miniature tool  
 Milling cutter  
 Endmill  
 Drilling tool  
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## Milling Insert

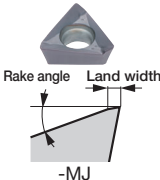
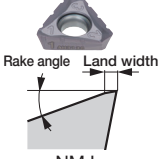
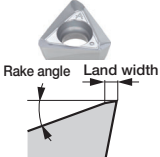
## ● TNKF64ZTR

Shape	Designation	Uncoated								Applicable mill
		UX30								
	TNKF64ZTR	●								TPN64001 (Old item)


## ● TNMN43ZENS

Shape	Designation	Uncoated								Applicable mill
		UX30								
	TNMN43ZENS	●								TSN4000 ESN4000 (Old item)

## ● TOMT\*\*PDER-MJ, TOMT150608PDER-NMJ, TOGT\*\*PDFR-AJ

Shape	Designation	Coated				Uncoated				Applicable mill
		AH120	AH3135	T1215	T3225	KS05F				
	TOMT060302PDER-MJ	●	●							<b>TUNG-TRI</b> TPA06... Page H125 EPA06... Page H125 HPA06... Page H126 TPA10... Page H126 TLA10... Page H127 EPA10... Page H127 HPA10... Page H128 TPA15... Page H128 TLA15... Page H129 Page H130 EPA15... Page H130
	TOMT060304PDER-MJ	●	●		●					
	TOMT060308PDER-MJ	●	●	●	●					
	TOMT100404PDER-MJ	●	●		●					
	TOMT100408PDER-MJ	●	●	●	●					
	TOMT100416PDER-MJ	●	●							
	TOMT150604PDER-MJ	●	●		●					
	TOMT150608PDER-MJ	●	●	●	●					
	TOMT150616PDER-MJ	●	●							
	TOMT150620PDER-MJ	●	●							
	TOMT150608PDER-NMJ	●	●		●					
	TOGT100404PDFR-AJ					●				
	TOGT100408PDFR-AJ					●				

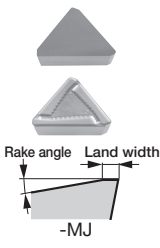
## ● TPCA43ZTRW1, TPMA432TNW1

Shape	Designation	Cermet		Uncoated		Applicable mill
		NS740		UX30	TH10	
	TPCA43ZTRW1			●	●	PES1500... (Old item)
	TPMA432TNW1	●		●	●	


●: Line up

# Milling Insert

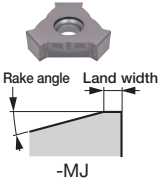
## ● TP\*N43Z..., TPKR43ZSR-MJ, TPMR2204PDSR-MJ

Shape	Designation	Coated						Cermet		Uncoated		Applicable mill
		AH120	AH130	AH140	GH330	T1115	T3130	NS740	N308	UX30	TH10	
	TPCN43ZFR										●	TSP4000IA Page H184  TFP4000IA Page H185
	TPCN43ZTR							●	●	●		
	TPEN43ZTR							●				
	TPEN43ZTRCR											
	TPKN43ZFR										●	
	TPKN43ZTR	●	●	●	●	●	●	●	●	●		
	TPKR43ZSR-MJ				●	●						
	TPMR2204PDSR-MJ				●	●						
	TPKN43ZFL										●	

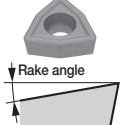
## ● TPMN\*\*TN

Shape	Designation	Cermet								Applicable mill
		NS740								
	TPMN110304TN	●								(Old item)
	TPMN110308TN	●								
	TPMN160308TN	●								
	TPMN160312TN	●								
	TPMN220408TN	●								
	TPMN220412TN	●								

## ● TVKX\*\*TN-MJ

Shape	Designation	Coated											Applicable mill
		AH120	AH130	AH725									
	TVKX020202TN-MJ	●		●									<b>TUNGSLIT</b> ASV 02/03/04/05... Page H194
	TVKX020204TN-MJ	●		●									
	TVKX03X302TN-MJ	●		●									
	TVKX03X304TN-MJ	●		●									
	TVKX04H304TN-MJ	●	●	●									
	TVKX04H308TN-MJ	●	●	●									
	TVKX050404TN-MJ	●	●	●									
	TVKX050408TN-MJ	●	●	●									

## ● WCMT\*\*-D4


Shape	Designation	Coated											Applicable mill
		AH120	AH140										
	WCMT050308-D4	●	●									EVX... (Old item)  HVX... (Old item)	
	WCMT06T308-D4	●	●										

●: Line up




## Milling Insert

## ● WDCN42ZFR-DIA

Shape	Designation	PCD							Applicable mill
		DX140							
 Wiper edge -DIA	<b>WDCN42ZFR-DIA</b>	●							<b>TMD4400R/LI</b> Page H095 <b>EMD4400RI</b> Page H096 <b>TGD4400-A</b> Page H101 <b>EGD4400</b> Page H102


DX140: Packing quantity = 1pc.

## ● WECN42ZFR-DIA

Shape	Designation	PCD							Applicable mill
		DX140							
 Wiper edge -DIA	<b>WECN42ZFR-DIA</b>	●							<b>THE4000RIA</b> Page H177

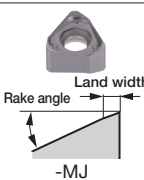
DX140: Packing quantity = 1pc.

## ● WFCN\*\*ZFR-DIA

Shape	Designation	PCD							Applicable mill
		DX140							
 Wiper edge -DIA	<b>WFCN42ZFR-DIA</b>	●							<b>THF4400RIA</b> (Old item)
	<b>WFCN53ZFR-DIA</b>	●							<b>THF5400RIA</b> (Old item)

DX140: Packing quantity = 1pc.

## ● WNGU\*\*TN-MJ

Shape	Designation	Coated				Applicable mill
		AH120	AH130	AH725	AH3135	
 -MJ	<b>WNGU060304TN-MJ</b>	●			●	<b>TUNGUSLOT</b> ASW 06/07/09... Page H196 TSW 06/07/09... Page H197
	<b>WNGU060308TN-MJ</b>	●	●	●	●	
	<b>WNGU060310TN-MJ</b>	●			●	
	<b>WNGU060316TN-MJ</b>	●		●		
	<b>WNGU060320TN-MJ</b>	●		●		
	<b>WNGU07T304TN-MJ</b>	●			●	
	<b>WNGU07T308TN-MJ</b>	●	●	●		
	<b>WNGU07T310TN-MJ</b>	●			●	
	<b>WNGU07T316TN-MJ</b>	●	●	●		
	<b>WNGU07T320TN-MJ</b>	●			●	
	<b>WNGU090404TN-MJ</b>	●			●	
	<b>WNGU090408TN-MJ</b>	●	●	●		
	<b>WNGU090410TN-MJ</b>	●			●	
	<b>WNGU090416TN-MJ</b>	●	●	●		
	<b>WNGU090420TN-MJ</b>	●			●	

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool


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## ● WPAN42SFR

Shape	Designation	Cermet		Uncoated		Applicable mill
		N308		TH10		
 Wiper edge (2-corner type)	WPAN42SFR	●		●		TGP4100RIA/ RBA/RBAE Page H104








## ● WPAN42SFRS

Shape	Designation	Uncoated		Applicable mill
		TH10		
 Wiper edge (1-corner type)	WPAN42SFRS	●		TGP4100RIA/ RBA/RBAE Page H104

## ● WPAN42ZFR

Shape	Designation	Uncoated		Applicable mill
		TH10		
 Wiper edge (2-corner type)	WPAN42ZFR	●		TGP4200R-A Page H106


## ● WPMT\*\*ZPR..., WPMT\*\*ZPR-ML, WPMT\*\*-MH, WPMT\*\*-DML, WPMW\*\*ZSR

Shape	Designation	Coated						Applicable mill
		AH120	AH130	AH140	AH730	T3130	AH3135	
	WPMW05H315ZPR	●		●		●	●	<b>MILLFEED</b> TXP05/06/08/09... Page H051
	WPMT05H315ZPR-ML	●		●		●	●	
	WPMT05H315ZPR-MH	●		●			●	EXP05/06/08/09... Page H052
	WPMT05H315ZPR-DML				●			
	WPMW06X415ZPR	●		●		●	●	HXP... (Old item)
	WPMT06X415ZPR-ML	●	●	●		●	●	
	WPMT06X415ZPR-MH	●		●			●	
	WPMT06X415ZPR-DML				●			
	WPMT080615ZSR	●	●	●		●	●	
	WPMT080615ZPR-ML	●	●	●		●	●	
	WPMT080615ZSR-MH	●		●			●	
	WPMT080615ZPR-DML				●			
	WPMT090725ZSR	●		●		●	●	
	WPMT090725ZPR-ML	●	●	●		●	●	
	WPMT090725ZSR-MH	●	●	●			●	
	WPMT090725ZPR-DML				●			

●: Line up

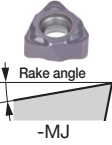
# Milling Insert

## ● WWCW13T3AFER-WS, WWCW13T3AFFR-WS, WWCW13T3AFFR-WD

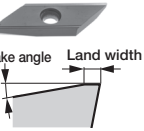
Shape	Designation	Coated		Cermet	Uncoated		PCD	Applicable mill
		GH110	DS1100	NS740	KS05F	DX140		
 -WD	WWCW13T3AFER-WS	●		●				<b>TUNG-MILL</b> TAW13... Page H073 EAW13... Page H074
	WWCW13T3AFFR-WS		●		●			
	WWCW13T3AFFR-WD						●	

DX140: Packing quantity = 1pc.

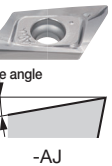
## ● WXHU\*\*R-MJ

Shape	Designation	Coated		Cermet		Uncoated		Applicable mill
		AH110						
 -MJ	WXHU040305R-MJ	●						<b>DOM-MILL</b> HFWX04... Page H211
	WXHU040310R-MJ	●						

## ● XCET310404ER

Shape	Designation	Coated			Cermet	Uncoated		Applicable mill
		AH330	AH120	AH3135	NS740	UX30		
 -MJ	XCET310404ER	●	●	●	●	●		ECC31... Page I094

## ● XVCT16\*\*R-AJ

Shape	Designation	Uncoated		Cermet		Uncoated		Applicable mill
		TH10						
 -AJ	XVCT160504R-AJ	●						<b>TUNG-ALUMILL</b> TPV16... Page H174 EPV16... Page H174
	XVCT160508R-AJ	●						
	XVCT160512R-AJ	●						
	XVCT160516R-AJ	●						
	XVCT160520R-AJ	●						
	XVCT160530R-AJ	●						
	XVCT160532R-AJ	●						
	XVCT160540R-AJ	●						
XVCT160550R-AJ	●							

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool

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● XVGT\*\*EC-MJ, XVGT\*\*EP-MJ, XVGT\*\*FC-AJ, XVGT\*\*FP-AJ

Shape	Designation	Coated		Applicable mill
		AH730	DS1200	
	XVGT06H205EC-MJ	●		<b>HYBRIDTACMILL</b> EVH... (Old item)
	XVGT07X305EC-MJ	●		
	XVGT09X405EC-MJ	●		
	XVGT06H205EP-MJ	●		
	XVGT07X305EP-MJ	●		
	XVGT09X405EP-MJ	●		
	XVGT06H205FC-AJ		●	
	XVGT07X305FC-AJ		●	
	XVGT09X405FC-AJ		●	
	XVGT06H205FP-AJ		●	
	XVGT07X305FP-AJ		●	
	XVGT09X405FP-AJ		●	

● XHGR\*\*ER-MJ, XHGR\*\*FR-AJ


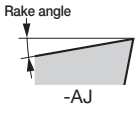
Shape	Designation	Coated		Applicable mill	
		AH730	DS1200		
	XHGR110202ER-MJ	●		<b>HYBRIDTACMILL</b> EPH11/13/18... (Old item)	
	XHGR110204ER-MJ	●			
	XHGR110205ER-MJ	●			
	XHGR110208ER-MJ	●			
	XHGR110210ER-MJ	●			
	XHGR110212ER-MJ	●			
	XHGR110215ER-MJ	●			
	XHGR110216ER-MJ	●			
	XHGR110220ER-MJ	●			
	XHGR130202ER-MJ	●			
	XHGR130204ER-MJ	●			
	XHGR130205ER-MJ	●			
	XHGR130208ER-MJ	●			
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	XHGR130212ER-MJ	●			
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	XHGR130216ER-MJ	●			
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	XHGR18T210ER-MJ	●			
	XHGR18T212ER-MJ	●			
	XHGR18T215ER-MJ	●			
	XHGR18T216ER-MJ	●			
	XHGR18T220ER-MJ	●			
	XHGR110200FR-AJ		●		
	XHGR110202FR-AJ		●		
	XHGR110204FR-AJ		●		
	XHGR110205FR-AJ		●		
	XHGR110208FR-AJ		●		
XHGR110210FR-AJ		●			

●: Line up



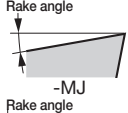
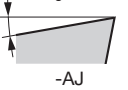


## Milling Insert


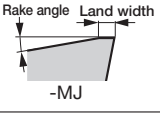
## ● XHGR\*\*ER-MJ, XHGR\*\*FR-AJ

Shape	Designation	Coated								Applicable mill
		AH730	DS1200							
  Rake angle -AJ	XHGR130212FR-AJ		●							<b>HYBRIDTACMILL</b> EPH11/13/18... (Old item)
	XHGR130215FR-AJ		●							
	XHGR130216FR-AJ		●							
	XHGR130220FR-AJ		●							
	XHGR18T200FR-AJ		●							
	XHGR18T202FR-AJ		●							
	XHGR18T204FR-AJ		●							
	XHGR18T205FR-AJ		●							
	XHGR18T208FR-AJ		●							
	XHGR18T210FR-AJ		●							
	XHGR18T212FR-AJ		●							
	XHGR18T215FR-AJ		●							
	XHGR18T216FR-AJ		●							
	XHGR18T220FR-AJ		●							

## ● XXGT\*\*EC-MJ, XXGT\*\*FC-AJ, XXGT\*\*EP-MJ, XXGT\*\*FP-AJ

Shape	Designation	Coated								Applicable mill
		AH730	DS1200							
 Center edge insert  Peripheral edge insert  Rake angle -MJ  Rake angle -AJ	XXGT06H205EC-MJ	●								<b>HYBRIDTACMILL</b> EXH... (Old item)
	XXGT07X305EC-MJ	●								
	XXGT09X408EC-MJ	●								
	XXGT06H205FC-AJ		●							
	XXGT07X305FC-AJ		●							
	XXGT09X408FC-AJ		●							
	XXGT06H205EP-MJ		●							
	XXGT07X305EP-MJ		●							
	XXGT09X408EP-MJ		●							
	XXGT06H205FP-AJ			●						
	XXGT07X305FP-AJ			●						
	XXGT09X408FP-AJ			●						

## ● XXMU\*\*PR-MJ

Shape	Designation	Coated								Applicable mill
		AH120	AH140	AH3135						
  Rake angle Land width -MJ	XXMU08T204PR-MJ	●	●	●						EVX... <a href="#">Page 1092</a> HVX... (Old item)
	XXMU10H308PR-MJ	●	●	●						
	XXMU12X408PR-MJ	●	●	●						
	XXMU16X508PR-MJ	●	●	●						

●: Line up

# Milling Insert

Grade

Insert

Ext. Toolholder

Int. Toolholder

Threading

Grooving

Miniature tool

Milling cutter

Endmill

Drilling tool




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## ● YDEN0905PDFR-D, YDEN0905PDFR-WD, YDEN0905PDFR-BD

Shape	Designation	PCD							Applicable mill
		DX140							
 Regular edge   Wiper edge   Wiper for burr removal	YDEN0905PDFR-D	●							DPD09... Page H086  EDPD09... Page H086
	YDEN0905PDFR-WD	●							
	YDEN0905PDFR-BD	●							



DX140: Packing quantity = 1pc.

## ● YDEN1505ADFR-D, YDEN1505ADFR-WD

Shape	Designation	PCD							Applicable mill
		DX140							
 Regular edge   Wiper edge	YDEN1505ADFR-D	●							DAD15... (Old item)
	YDEN1505ADFR-WD	●							




DX140: Packing quantity = 1pc.

## ● YDEN1505PDFR-D, YDEN1505PDFR-WD

Shape	Designation	PCD							Applicable mill
		DX140							
 Regular edge   Wiper edge	YDEN1505PDFR-D	●							DPD15... EDPD15... (Old item)
	YDEN1505PDFR-WD	●							

DX140: Packing quantity = 1pc.




## ● YDEN0603PDF/SR-D, YDEN0603PDFR-WD, YDEN0603PDFR-BD

Shape	Designation	PCD							Applicable mill
		DX110							
 _D   _WD   _BD	YDEN0603PDFR-D	●							<b>TUNGSMILL</b> TPYD06... Page H080  EPYD06... Page H080
	YDEN0603PDSR-D	●							
	YDEN0603PDFR-WD	●							
	YDEN0603PDFR-BD	●							

●: Line up




# Milling Insert

## ● YDEN2405PDFR-D, YDEN2405PDFR-WD, YDEN2405PDFR-BD

Shape	Designation	PCD							Applicable mill
		DX140							
 Regular edge	YDEN2405PDFR-D	●							DPD24... (Old item)
	YDEN2405PDFR-WD	●							
	YDEN2405PDFR-BD	●							
 Wiper edge									
 Wiper for burr removal									

DX140: Packing quantity = 1pc.


## ● YPEB12X3-1A\*\*-D, YPEB12X3-1P\*\*-D, YPEB12X3-2A\*\*-D, YPEB12X3-FP\*\*-D, YPEB12X3-2P07R-D

Shape	Designation	PCD							Applicable mill
		DX160							
 -1A/P   -FP   -2A/P	YPEB12X3-1A01R-D	●							<b>TUNGSMILL</b> TPYP12... Page H078 EPYP12... Page H078
	YPEB12X3-1A02R-D	●							
	YPEB12X3-1A07R-D	●							
	YPEB12X3-1P02R-D	●							
	YPEB12X3-1P07R-D	●							
	YPEB12X3-FP02R-D	●							
	YPEB12X3-FP07R-D	●							
	YPEB12X3-2A01R-D	●							
	YPEB12X3-2A02R-D	●							
	YPEB12X3-2A07R-D	●							
	YPEB12X3-2P07R-D	●							

DX160: Packing quantity = 2pcs.


●: Line up

## ● YPEN1505PPTR-Q

Shape	Designation	T-CBN							Applicable mill
		BX950							
	YPEN1505PPTR-Q	●							QPP15... (Old item)

BX950: Packing quantity = 1pc.

## ● ZDCA\*\*TN

Shape	Designation	Uncoated							Applicable mill
		UX30							
	ZDCA0804TN	●							TBF1000 (Old item)
	ZDCA1105TN	●							

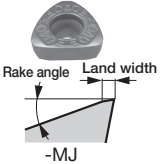
●: Line up

# Milling Insert

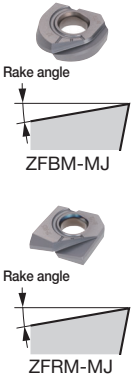
Grade  
Insert  
Ext. Toolholder  
Int. Toolholder  
Threading  
Grooving  
Miniature tool  
Milling cutter  
Endmill  
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## ● ZDMT\*\*-MJ

Shape	Designation	Coated		Applicable mill
		AH120		
	ZDMT4005-MJ	●		EBD... <a href="#">Page H227</a> HBD... (Old item)
	ZDMT5006-MJ	●		

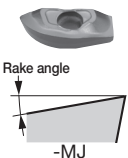
## ● ZFBM\*\*-MJ, ZFRM\*\*-MJ

Shape	Designation	Coated		Applicable mill
		AH710	AH725	
	ZFBM080R00-MJ	●	●	<b>BALL NOSE</b> EBFM... <a href="#">Page H206</a> HBFM... <a href="#">Page H207</a>
	ZFBM100R00-MJ	●	●	
	ZFBM120R00-MJ	●	●	
	ZFBM160R00-MJ	●	●	
	ZFBM200R00-MJ	●	●	
	ZFBM250R00-MJ	●	●	
	ZFBM300R00-MJ	●	●	
	ZFBM320R00-MJ	●	●	
	ZFRM120R05-MJ	●	●	
	ZFRM120R10-MJ	●	●	
	ZFRM160R05-MJ	●	●	
	ZFRM160R10-MJ	●	●	
	ZFRM160R15-MJ	●	●	
	ZFRM200R10-MJ	●	●	
ZFRM200R15-MJ	●	●		

## ● ZNCA\*\*FN, ZNMM\*\*EN

Shape	Designation	Uncoated		Applicable mill
		UX30	TH10	
	ZNCA1002FN2	●	●	TBN1000 <a href="#">Page H223</a>
	ZNCA1203FN	●	●	
	ZNCA1603FN	●	●	
	ZNCA2004FN	●	●	
	ZNCA2505FN	●	●	
	ZNCA3005FN	●	●	
	ZNMM2004EN	●		
	ZNMM2505EN	●		
ZNMM3005EN	●			

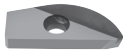
## ● ZPET\*\*-MJ

Shape	Designation	Coated		Applicable mill
		AH120	AH330	
	ZPET2004-MJ	●	●	EBP... <a href="#">Page H225</a> HBP... (Old item)
	ZPET2505-MJ	●	●	
	ZPET3006-MJ	●	●	
	ZPET3206-MJ	●	●	

●: Line up


# Milling Insert

## ● ZPCW\*\*-QBN

Shape	Designation	T-CBN						Applicable mill
		BX950						
	ZPCW2003-QBN	●						EBB... <a href="#">Page H226</a>
	ZPCW25H3-QBN	●						
	ZPCW30T3-QBN	●						
	ZPCW4004-QBN	●						
	ZPCW5004-QBN	●						

BX950: Packing quantity = 1pc.

## ● ZRBM\*\*-MM

Shape	Designation	Coated						Applicable mill
		APH730						
	ZRBM160-MM	●						<b>BALL NOSE</b> EBRM... <a href="#">Page H204</a> HBRM... <a href="#">Page H204</a>
	ZRBM200-MM	●						
	ZRBM250-MM	●						

●: Line up

# Milling Insert CBN

Grade

A

Insert

B

Ext. Toolholder

C

Int. Toolholder

D

Threading

E

Grooving

F

Miniature tool

G

Milling cutter

H

Endmill

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Drilling tool

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

## ● 2QP-SNGN..

Shape	Designation	CBN						Applicable mill
		BX910						
	2QP-SNGN090308	●						
	2QP-SNGN090312	●						

## ● 2QP-SPGW..., 2QP-SPGN...

Shape	Designation	CBN						Applicable mill
		BX910						
	2QP-SPGW09T308	●						
	2QP-SPGW09T312	●						
	2QP-SPGW120408	●						
	2QP-SPGW120412	●						
	2QP-SPGW120416	●						
	2QP-SPGN090308	●						
	2QP-SPGN090312	●						





## ● 3QP-TPGW..., 3QP-TPGN...

Shape	Designation	CBN						Applicable mill
		BX910						
	3QP-TPGW110308	●						
	3QP-TPGN110308	●						
	3QP-TPGN110312	●						
								

●: Line up

## Milling Insert CBN

## ● S-CNGN..., S-RNGN..., S-SNGN..., S-TNGN...

Shape	Designation	CBN						Applicable mill
		BXC90						
 S-CNGN	S-CNGN090308	●						
	S-CNGN090312	●						
 S-RNGN	S-CNGN120408	●						
	S-CNGN120412	●						
 S-SNGN	S-RNGN090300	●						
	S-RNGN120400	●						
 S-TNGN	S-SNGN090308	●						
	S-SNGN090312	●						
	S-SNGN120308	●						
	S-SNGN120312	●						
	S-SNGN120408	●						
	S-SNGN120412	●						
	S-TNGN110308	●						
	S-TNGN110312	●						
	S-TNGN160408	●						
	S-TNGN160412	●						

●: Line up