

MILLING/**CARBIDE**

CARBIDE /MILLING

GRADES

ISO DIN 513	K					P					M					N				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	N01	N10	N20	N30	N40
CARBIDE CVD	CS8915		CS8925																	
CARBIDE PVD						PS5915					PS7920									
						PS5925					PS7925									
CARBIDE UNCOATED																				
CERMET UNCOATED																				

CVD MILLING GRADES

MATERIAL	GRADE	ISO	Color	Operation
K	CS8915	K05-K10	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				As adapting highly hard substrate with superior PVD coated which has excellent resistance for thermal & oxidation, Excellent performance in casting iron continuous machining
	CS8925	K20-K30	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				General cutting for gray cast iron and ductile cast iron

PVD MILLING GRADES

MATERIAL	GRADE	ISO	Color	Operation
P	PS5915	P05-P15	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Milling grade for medium and roughing of steel New coating layer with superior wear resistance with high toughness substrate
	PS5915S	P05-P20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				1. 2-4um TiAlN PVD coating combined with ultra fine grain substrate with high toughness suitable for finishing to semi-finishing. 2. Basic material grade for milling steel parts and easy to cut/medium difficulty to process stainless steel 3. High thermal shock resistance is suitable for light interrupted cut
	PS5925	P10-P20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Universal grade for interrupted machining of steel, cast-iron, hard to cut materials and stainless steel with stable machinability
	PS5925S	P10-P20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				1. 2-4um AlCrN + AlCrSiN PVD coating combined with ultra fine grain substrates with high-toughness suitable for martensitic stainless steel and austenitic stainless steel under difficult working conditions and high temperature. 2. Used as the preferred material grade for machining high temperature alloys under unstable working conditions. 3. It is recommended to process tempered steel and nickel-based material
	PS5960	P20-P40	YELLOW	MT-TiCN+Al ₂ O ₃ +TiN
				General machining of steel
M	PS7920	M10-M20	YELLOW	MT-TiCN+TiC+α-Al ₂ O ₃
				2-4um AlCrN + AlCrSiN PVD coating combined with ultra fine grain substrates with high-toughness suitable for martensitic stainless steel and austenitic stainless steel under difficult working conditions and high temperature. 2. Used as the preferred material grade for machining high temperature alloys under unstable working conditions. 3. It is recommended to process tempered steel and nickel-based material
	PS7925	M10-M20	YELLOW	MT-TiCN+TiC+α-Al ₂ O ₃
				Medium to roughing of hard to cut materials and stainless steel 2-4 micron Nano AlCrN AlCrSiN coating
	PS7925	M20-M30	BRONZ	MT-TiCN+TiC+α-Al ₂ O ₃
				PVD coating combined with high-resistant substrates, suitable for stainless steel & low carbon steel in roughing to semi-finishing
K	PS8915	K10-K30	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Thigh wear resistant substrates perfect combine with MT-TiCN, thick Al ₂ O ₃ coating. ideal for ductile cast iron & grey cast iron at high cutting speed.

UNCOATED MILLING GRADES

MATERIAL	GRADE	ISO	Color	Operation
N	US2915	K05-K25	SILVER	Ultra fine substrate
				Increased wear & chipping resistance as using a ultra fine substrate, Excellent tool life with special surface treatment & and sharp cutting edge of ALU chip breaker

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

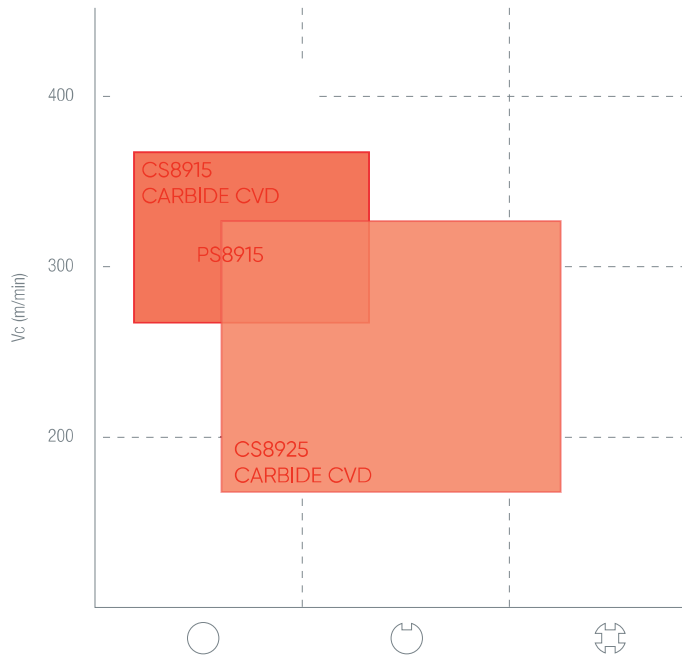
HSS
DRILLS & TAPSSPARE
PARTS

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CARBIDE /MILLING

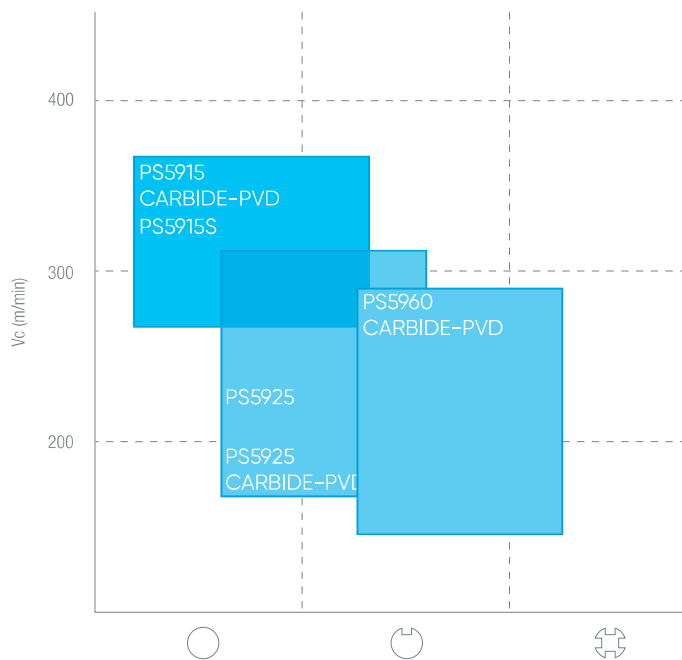
RANGE ISO

K

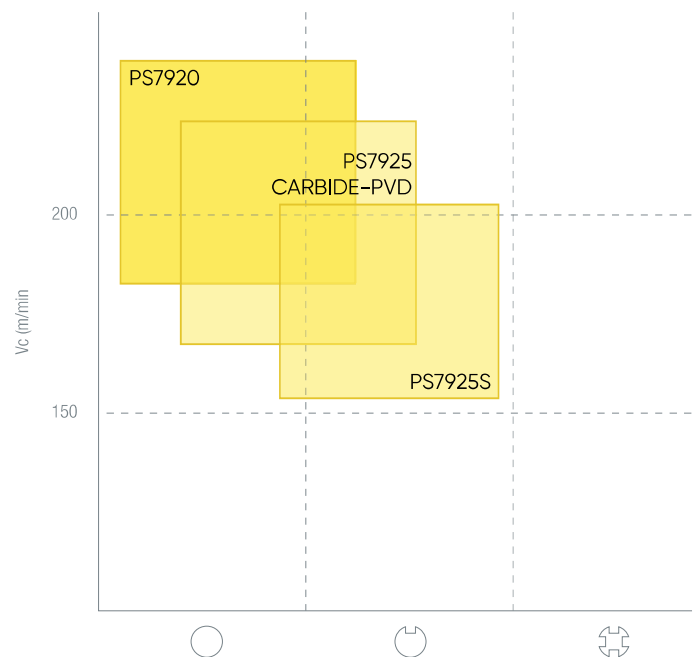


RANGE ISO

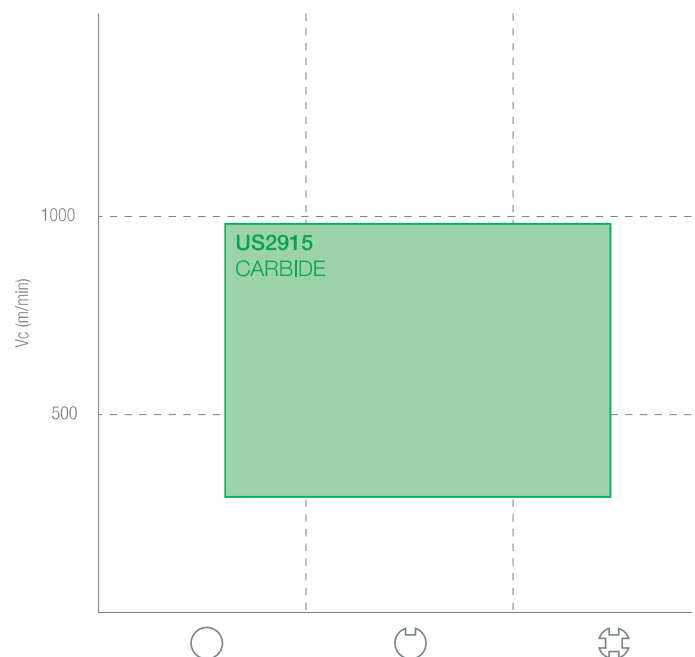
P



RANGE ISO **M**



RANGE ISO **N**



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS
DRILLS & TAPS

SPARE
PARTS

INDEX

AP □□	1035 □□	1135 □□	1604 □□
IC	6,35	6,35	9,525
T	3,50	3,50	4,76
Ød	2,80	2,80	4,50
			

$$V_c \bullet fn \bullet ap$$

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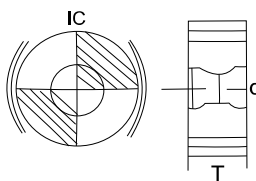
AP □□	1035 □□	1135 □□
IC	6,35	6,35
T	3,50	3,50
Ød	2,80	2,80
		

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HN □ □	0906 □ □
IC	-
T	6,35
Ød	4,9
	

CARBIDE /MILLING

LNGX

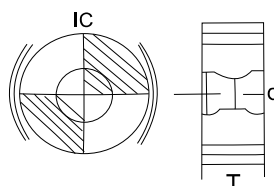


LN□□	1104□□	15T6□□
IC	6,39	6,39
T	3,73	3,73
Ød	3,0	3,0
Holder	344	347

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	LNGX	110408RSE	•									•		
		15T608RSE	•									•		

LNMX

HighFeed

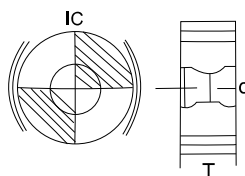


LN□□	0303□□
IC	6,39
T	3,73
Ød	4,0
Holder	340

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	LNMX	0303SER-M											•	
		0303SER-MJ	•									•		

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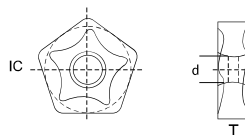
LNKT



LN□□	1306□□
IC	6,39
T	3,73
Ød	4,0
Holder	346

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	LNKT	130608R-GM	•											

PNMU



PN□□	0905□□
IC	12,2
T	5,56
Ød	4,70
Holder	353

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	PNMU	0905XNER-MM	•									•		

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CARBIDE /MILLING

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ENDMILLS

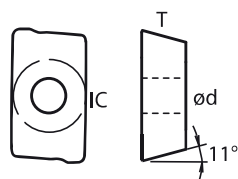
DRILLS

HSS
DRILLS & TAPS

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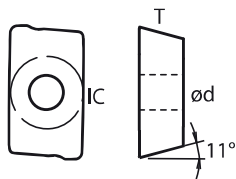
SD□□



SD□□	1204□□	0802□□	11T3□□
IC	12,7	12,7	12,7
T	4,76	4,76	4,76
Ød	4,40	4,40	4,40
Holder			

DESCRIPTION			CARBIDE												
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915	
	SDHT	1204AEFN-ALU													●

SD□□



SD□□	0802□□	11T3□□
IC	12,7	12,7
T	4,76	4,76
Ød	4,40	4,40
Holder		

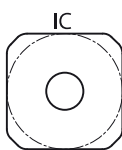
DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	SDMT	0802-AX									•			
		11T3-AX									•			

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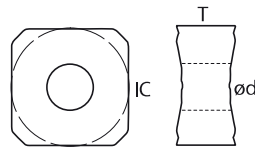
SE□□



SE□□	12T3□□
IC	12,7
T	3,97
Ød	4,40
Holder	365

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	SEET	12T3-FM	•		•							•		
	SEET	12T3-SM			•							•		
	SEHT	12T3-CM												•
	SEMT	13T308-SM			•									
	SEMT	140408M-PM			•	•						•		

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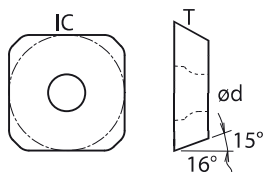


SN □□	1205 □□
IC	12,7
T	5,75
Ød	6,00



Vc • fn • ap

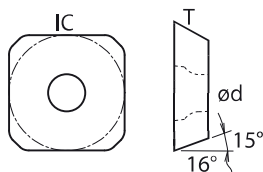
SO □□



SO □□	0803 □□
IC	12,7
T	3,97
Ød	5,16
Holder	367

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	SOMW	080315-FH			•									

SP □□

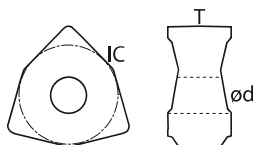


SP □□	1204 □□
IC	12,7
T	4,18
Ød	5,16
Holder	367

DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	SPMW	120420-FH			•									

Vc • fn • ap 314

WNMU



WN□□ 0806□□

IC 12,7

T 6,40

Ød 4,40



DESCRIPTION

CARBIDE

PS5915

PS5915S

PS5925

PS5925S

PS5960

CS8915

CS8925

PS8915

PS7920

PS7925

PS7925S

US2915



WNMU

040304-GM



WNMU

080608EN-ALU

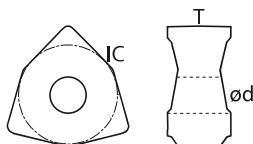


WNMU

080608EN-GM

WNMX

HighFeed



WN□□ 0806□□

IC 9,52

T 3,97

Ød 3,6



DESCRIPTION

CARBIDE

PS5915

PS5915S

PS5925

PS5925S

PS5960

CS8915

CS8925

PS8915

PS7920

PS7925

PS7925S

US2915



WNMX

09T316ZNN-SS

Vc • fn • ap

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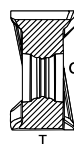
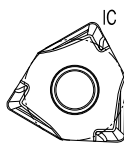
XD□□	0602□□	10T3□□
IC	6,5	10,0
T	2,38	3,97
Ød	2,98	3,95
		

[illegible]

Vc • fn • ap

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XNEX



XN□□	0806□□
IC	12,48
T	6,45
Ød	2,80
Holder	

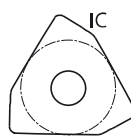
DESCRIPTION			CARBIDE											
			PS5915	PS5915S	PS5925	PS5925S	PS5960	CS8915	CS8925	PS8915	PS7920	PS7925	PS7925S	US2915
	XNEX	080612			•									

Vc • fn • ap 314

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TURNING

3PGX



3P□□	1004□□	1505□□
IC	6,90	10,70
T	4,00	5,00
Ød	2,20	2,80
		

[illegible]

Vc • fn • ap

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GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

**HSS
DRILLS & TAPS**

SPARE PARTS

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CUTTING PARAMETERS Vc (m/min)

KG	GREY CAST IRON
KN	NODULAR CAST IRON
PL	LOW CARBON AND FREE CUTTING STEEL
PM	MEDIUM CARBON STEEL
PH	HIGH CARBON STEEL
PA	ALLOY STEEL

MM	MARTENSITIC AND FERRITIC STAINLESS STEEL
MA	AUSTENITIC STAINLESS STEEL
NA	ALUMINIUM ALLOYS
NH	ALUMINIUM ALLOYS AGED AND HARDENED
NB	BRASS
NC	BRONZE AND ELECTROLYTIC COPPER

MATERIAL		CARBIDE						CARBIDE				
		PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915				
K	KG				220~350	120~250						
	KN				180~280	100~200						
P	PL	200~280	220~300	240~320								
	PM	200~280	220~300	240~320								
	PH	180~260	200~280	220~300								
	PA	160~230	180~250	200~270								
M	MM						160~280					
	MA						140~260					
N	NA							400~1000				
	NH							300~800				
	NB							300~600				
	NC							200~500				

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

AP □ □		1035		1135		1204		1604		1705	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	RM	0,8~8,0	0,1~0,25								
P	ST/RM	0,8~8,0	0,08~0,2	1,0~9,0	0,1~0,2	1,0~11,0	0,1~0,25	1,0~14,0	0,1~0,25	1,0~15,0	0,1~0,25
P	QM/QX			0,7~3,0	0,5~1,2						
M	RM	0,8~8,0	0,05~0,15					1,0~14,0	0,1~0,2		
N	ALU	0,8~8,0	0,15~0,3	1,0~9,0	0,15~0,3			1,0~14,0	0,15~0,3		

AXMX		O702		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	R	0,40~2,00	0,10~0,45								
P	R	0,40~2,00	0,10~0,45								
M	R	0,40~2,00	0,10~0,25								
N	ALU	0,40~2,00	0,10~0,50								

BLGX		O603		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	M	0,7~900	0,30~0,50								
P	M	0,7~900	0,30~0,50								
M	M	0,7~1,50	0,50~0,80								
N											

EPGX		O602		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	SM	0,15~0,55	0,20~0,60								
P	SM	0,15~0,55	0,20~0,60								
M	SM	0,15~0,55	0,20~0,60								
N											

HNGX		O906		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	R-M	0,8~4,5	0,06~0,20								
P	R-M	0,8~4,5	0,06~0,20								
M	R-M	0,8~4,5	0,06~0,20								
N											

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

LNGX		1104		15T608		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	RSE	1.0-11.00	0,10-0,50	1.0-15.00	0,10-0,50						
P	RSE	1.0-11.00	0,10-0,50	1.0-15.00	0,10-0,50						
M	RSE	1.0-11.00	0,10-0,50	1.0-15.00	0,10-0,50						
N											

LNKT		1306		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	GM	3.0-12.0	0,10-0,35								
P	GM	3.0-12.0	0,10-0,35								
M	GM	3.0-12.0	0,10-0,35								
N											

LNMX		0303		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	M-MJ	0,7-900	0,30-0,50								
P	M-MJ	0,7-900	0,30-0,50								
M	M-MJ	0,7-900	0,30-0,50								
N											

PNMU		0905		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	MM	0.80-4.5	0.06-0.20								
P	MM	0.80-4.5	0.06-0.20								
M	MM	0.80-4.5	0.06-0.20								
N											

RD□□		0501		0802		1003		12T3		1604	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	-					0,5~4,0	0,08~0,4	0,5~5,0	0,08~0,6	0,6~7,0	0,1~0,6
P	-	0,25~2,5	0,1~0,25	0,4~3,5	0,07~0,35	0,5~4,0	0,08~0,3	0,5~5,0	0,08~0,4	0,6~7,0	0,1~0,5
M	-					0,5~4,0	0,08~0,25	0,5~5,0	0,08~0,25	0,6~7,0	0,1~0,4
N	-										

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

RT		0702		1003		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K											
P	R-81	0,5~5,0	0,05~0,3	0,5~7,0	0,08~0,3						
M	R-81	0,5~5,0	0,05~0,25	0,5~7,0	0,05~0,25						
N											

SDHT		1204		-		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K											
P											
M											
N	ALU	0,1-2,0	0,10-0,35								

SDMT		0802		11T3		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	AX	0.05-0.30	0.05-0.30		0.5-1.4						
P	AX	0.05-0.30	0.05-0.30		0.5-1.4						
M	AX	0.05-0.30	0.05-0.30		0.5-1.4						
N											

SEMT		13T308		140408		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	SM-PM	0.8-4.50	0,10-0,40	0.8-6.0	0,10-0,40						
P	SM-PM	0.8-4.50	0,10-0,40	0.8-6.0	0,10-0,40						
M	SM-PM	0.8-4.50	0,10-0,40	0.8-6.0	0,10-0,40						
N											

SE□□		12T3		-	-	-	-				
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K											
P	FM/SM	1,0~10,0	0,1~0,3								
M	FM/SM	1,0~10,0	0,1~0,25								
N	CM	1,0~10,0	0,1~0,35								

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

SNMX		1205		120512		1206		1907		1206QNN	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	QM-GM-GR	1,0~7,0	0,1-0,4	1,0~8,0	0,1-0,4	1,0~7,0	0,1-0,4	1,0~2,0	0,1-0,4	1,0~8,0	0,1-0,4
P	QM-GM-GR	1,0~7,0	0,1-0,35	1,0~8,0	0,1-0,35	1,0~7,0	0,1-0,35	1,0~7,0	0,1-0,35	1,0~8,0	0,1-0,35
M	QM-GM-GR	1,0~7,0	0,1-0,35	1,0~8,0	0,1-0,35	1,0~7,0	0,1-0,35	1,0~7,0	0,1-0,35	1,0~8,0	0,1-0,35
N											

SOMW		0803		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	FH	0,5~1,0	0,5~2,0								
P	FH	0,5~1,0	0,5~2,0								
M	FH	0,5~1,0	0,4~1,0								
N											

SPKN		1203		1504		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	SU	0,8~8,0	0,05~0,3	1,0~10,0	0,05~0,3						
P	SU	0,8~8,0	0,05~0,2	1,0~10,0	0,05~0,2						
M	SU	0,8~8,0	0,05~0,2	1,0~10,0	0,05~0,2						
N											

SPKR		1203		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	SU	0,8~8,0	0,05~0,20								
P	SU	0,8~8,0	0,05~0,20								
M	SU	0,8~8,0	0,05~0,20								
N											

SPMW		1204		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	FH	0,8~1,5	0,5~1,8								
P	FH	0,8~1,5	0,8~2,0								
M	FH	0,8~1,5	0,4~1,0								
N											

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

TPKN		1603		2204		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	SU	1,0~12,0	0,05~0,3	1,0~15,0	0,1~8,0						
P	SU	1,0~12,0	0,05~0,25	1,0~15,0	0,8~8,0						
M	SU	1,0~12,0	0,05~0,2	1,0~15,0	0,8~8,0						
N											

TW			08020		10025		12025		16030		20030	
Material	Chip Breaker		ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K			0,2~0,4	0,1~0,3	0,2~0,7	0,1~0,3	0,5~0,84	0,1~0,3	0,5~1,12	0,1~0,3	0,8~1,4	0,1~0,3
P			0,25~0,5	0,1~0,25	0,3~0,7	0,1~0,25	0,36~0,84	0,1~0,25	0,48~1,12	0,1~0,25	0,6~1,4	0,1~0,25
M			0,2~0,4	0,1~0,2	0,2~0,5	0,1~0,2	0,3~0,6	0,1~0,2	0,4~0,8	0,1~0,2	0,5~1,0	0,1~0,2
N												

TW		25040		30050		32050		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K		0,8~1,75	0,1~0,3	0,7~2,00	0,1~0,30	0,7~2,20	0,1~0,30				
P		0,75~1,75	0,1~0,25	0,7~2,00	0,1~0,30	0,7~2,20	0,1~0,30				
M		0,7~1,25	0,1~0,2	0,7~2,00	0,1~0,30	0,7~2,20	0,1~0,30				
N											

WNMU		040304		080608		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	GM	0,5-4,00	0,05-0,15	1,0~8,0	0,1~0,30						
P	GM	0,5-4,00	0,05-0,15	1,0~8,0	0,1~0,25						
M	GM	0,5-4,00	0,05-0,15	1,0~8,0	0,1~0,20						
N	ALU			1,0~8,0	0,15-0,30						

WNMX		09T316		-		-		-		-	
Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	SS	0.5-2.0	1.0-2.5								
P	SS	0.5-2.0	1.0-2.5								
M	SS	0.5-2.0	1.0-2.5								
N											

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

XDHX		60210		10T310		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	SS	0.5-2.0	1.0-2.5	0.5-1.50	0.10-0.35						
P	SS	0.5-2.0	1.0-2.5	0.5-1.50	0.10-0.35						
M	SS	0.5-2.0	1.0-2.5	0.5-1.50	0.10-0.35						
N											

XNEX		80612		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K		0.8-4.5	0.06-0.20								
P		0.8-4.5	0.06-0.20								
M		0.8-4.5	0.06-0.20								
N											

XNGU		0906ANTR		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	GM	0.8-4.5	0.06-0.20								
P	GM	0.8-4.5	0.06-0.20								
M	GM	0.8-4.5	0.06-0.20								
N											

CUTTING PARAMETERS a_p (mm) & f_n (mm/rev)

XOMT		100420R		140520R		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	GM	0,8-1,5	0,4-2,00	0,8-2,0	0,4-2,00						
P	GM	0,8-1,5	0,4-2,00	0,8-2,0	0,4-2,00						
M	GM	0,8-1,5	0,4-2,00	0,8-2,0	0,4-2,00						
N											

YNGX		060308R		-		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	SM	0,8-4,50	0,10-0,40								
P	SM	0,8-4,50	0,10-0,40								
M	SM	0,8-4,50	0,10-0,40								
N											

3PGX		1004		1505		-		-		-	
Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	M	1,0-7,0	0,09-0,2	1,0-11,0	0,1-0,2						
P	M	1,0-7,0	0,07-0,15	1,0-11,0	0,12-0,25						
M	M	1,0-7,0	0,07-0,15	1,0-11,0	0,1-0,17						
N											

TURNING

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