



# NEGATIVE TURNING INSERT FOR CAST IRON

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			SIZE	$\Phi$ .C	S	$\Phi$ d	R	COISC	COISCH
		TNMA	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇
		TNMG-U	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇
		TNMG-GH	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇
		CNMA	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇
			120412	12.7	4.76	5.16	1.2	●	◇
		CNMG-U	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇
			120412	12.7	4.76	5.16	1.2	●	◇
		WNMA	060404	9.525	4.76	3.81	0.4	●	◇
			060408	9.525	4.76	3.81	0.8	●	◇
			060412	9.525	4.76	3.81	1.2	●	◇
			080404	12.7	4.76	5.16	0.4	●	◇
			080408	12.7	4.76	5.16	0.8	●	◇
			080412	12.7	4.76	5.16	1.2	●	◇
		WNMG-U	080404	12.7	4.76	5.16	0.4	●	◇
			080408	12.7	4.76	5.16	0.8	●	◇
			080412	12.7	4.76	5.16	1.2	●	◇
		SNMA	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇
			120412	12.7	4.76	5.16	1.2	●	◇
		SNMG-U	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇
			120412	12.7	4.76	5.16	1.2	●	◇
		DNMA	110404	9.525	4.76	3.81	0.4	●	◇
			110408	9.525	4.76	3.81	0.8	●	◇
			110412	9.525	4.76	3.81	1.2	●	◇
			150604	12.7	6.35	5.16	0.4	●	◇
			150608	12.7	6.35	5.16	0.8	●	◇
			150612	12.7	6.35	5.16	1.2	●	◇
		VNMA	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇
		VNMG-U	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇

◇ Only on Order

● RECOMMENDED GRADE(Always Stock Available)

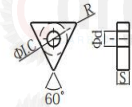
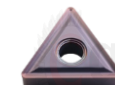


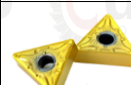
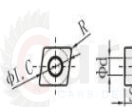
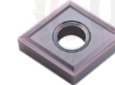





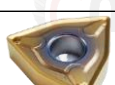
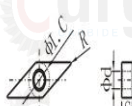


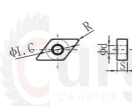

# NEGATIVE TURNING INSERT FOR STEEL

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE RECOMMENDED	
			SIZE	ΦI.C	S	Φd	R	CO25S	CO05S
		TNMG-MD	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇
		TNMG-TM	160404	9.525	4.76	3.81	0.4	●	●
			160408	9.525	4.76	3.81	0.8	●	●
			160412	9.525	4.76	3.81	1.2	●	●
		TNMG-FW/ FWS/FW-I	160404	9.525	4.76	3.81	0.4	●	●
			160408	9.525	4.76	3.81	0.8	●	●
			160412	9.525	4.76	3.81	1.2	●	●
		CNMG-TM	120404	12.7	4.76	5.16	0.4	●	●
			120408	12.7	4.76	5.16	0.8	●	●
			120412	12.7	4.76	5.16	1.2	●	●
		CNMG-FW/FWS/ FW-I	120404	12.7	4.76	5.16	0.4	●	●
			120408	12.7	4.76	5.16	0.8	●	●
			120412	12.7	4.76	5.16	1.2	●	●
		WNMG-MD	060404,	9.525	4.76	3.81	0.4	●	●
			060408,	9.525	4.76	3.81	0.8	●	●
			060412,	9.525	4.76	3.81	1.2	●	●
			080404,	12.7	4.76	5.16	0.4	●	●
			080408,	12.7	4.76	5.16	0.8	●	●
			080412,	12.7	4.76	5.16	1.2	●	●
		WNMG-TM	080404,	12.7	4.76	5.16	0.4	●	●
			080408,	12.7	4.76	5.16	0.8	●	●
			080412,	12.7	4.76	5.16	1.2	●	●
		WNMG- FW/FWS/ FW-I	080404,	12.7	4.76	5.16	0.4	●	●
			080408,	12.7	4.76	5.16	0.8	●	●
			080412,	12.7	4.76	5.16	1.2	●	●
		VNMG-TM	160404	9.525	4.76	3.81	0.4	●	●
			160408	9.525	4.76	3.81	0.8	●	●
			160412	9.525	4.76	3.81	1.2	●	●
		VNMG-MD	160404	9.525	4.76	3.81	0.4	●	●
			160408	9.525	4.76	3.81	0.8	●	●
			160412	9.525	4.76	3.81	1.2	●	●
		DNMG-TM	150604	12.7	6.35	5.16	0.4	●	●
			150608	12.7	6.35	5.16	0.8	●	●
			150612	12.7	6.35	5.16	1.2	●	●
		DNMG-PM	150604	12.7	6.35	5.16	0.4	●	●
			150608	12.7	6.35	5.16	0.8	●	●
			150612	12.7	6.35	5.16	1.2	●	●

◇ Only on Order

● RECOMMENDED GRADE(Always Stock Available)

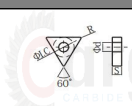
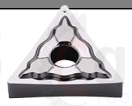
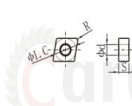
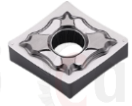
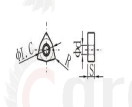

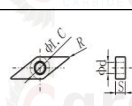

# NEGATIVE TURNING INSERT FOR STAINLESS STEEL

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE RECOMMENDED		
			SIZE	ΦI.C	S	Φd	R	CO25SS/H	CO05SS	
		TNMG-U	160404	9.525	4.76	3.81	0.4	●		
			160408	9.525	4.76	3.81	0.8	●		
			160412	9.525	4.76	3.81	1.2	●		
		TNMG-MFC	160404	9.525	4.76	3.81	0.4	●		
			160408	9.525	4.76	3.81	0.8	●		
			160412	9.525	4.76	3.81	1.2	●		
		TNMG-KM	160404	9.525	4.76	3.81	0.4	●		
			160408	9.525	4.76	3.81	0.8	●		
		TNMG-CM	160404	9.525	4.76	3.81	0.4		●	
			160408	9.525	4.76	3.81	0.8		●	
			160412	9.525	4.76	3.81	1.2		●	
			CNMG-U	120404	12.7	4.76	5.16	0.4	●	
120408				12.7	4.76	5.16	0.8	●		
120412				12.7	4.76	5.16	1.2	●		
		CNMG-MFC	120404	12.7	4.76	5.16	0.4	●		
			120408	12.7	4.76	5.16	0.8	●		
			120412	12.7	4.76	5.16	1.2	●		
		CNMG-KM	120404	12.7	4.76	5.16	0.4	●		
			120408	12.7	4.76	5.16	0.8	●		
			120412	12.7	4.76	5.16	1.2	●		
			WNMG-U	080404	12.7	4.76	5.16	0.4	●	
				080408	12.7	4.76	5.16	0.8	●	
				080412	12.7	4.76	5.16	1.2	●	
		WNMG-MFC	080404	12.7	4.76	5.16	0.4	●		
			080408	12.7	4.76	5.16	0.8	●		
			080412	12.7	4.76	5.16	1.2	●		
		WNMG-KM	080404	12.7	4.76	5.16	0.4	●		
			080408	12.7	4.76	5.16	0.8	●		
			080412	12.7	4.76	5.16	1.2	●		
			VNMG-U	160404	9.525	4.76	3.81	0.4	●	
				160408	9.525	4.76	3.81	0.8	●	
				160412	9.525	4.76	3.81	1.2	●	
		VNMG-MFC	160404	9.525	4.76	3.81	0.4	●		
			160408	9.525	4.76	3.81	0.8	●		
			160412	9.525	4.76	3.81	1.2	●		
		DNMG-MFC	150604	12.7	6.35	5.16	0.4	●		
			150608	12.7	6.35	5.16	0.8	●		
			150612	12.7	6.35	5.16	1.2	●		

◆ Only on Order

● RECOMMENDED GRADE(Always Stock Available)





# NEGATIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			ΦI.C	S	Φd	R	CO01	CO0IH	
		TNMG-LH	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
			160412	9.525	4.76	3.81	1.2	●	◇
		CNMG-LH	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇
			120412	12.7	4.76	5.16	1.2	●	◇
		WNMG-LH	060404	9.525	4.76	3.81	0.4	●	◇
			060408	9.525	4.76	3.81	0.8	●	◇
			080404	12.7	4.76	5.16	0.4	●	◇
			080408	12.7	4.76	5.16	0.8	●	◇
		VNMG-LH	160402	9.525	4.76	3.81	0.2	●	◇
			160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇

◇ Only on Order

● RECOMMENDED GRADE(Always Stock Available)

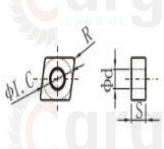


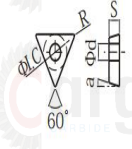

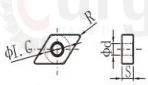
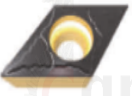



# NEGATIVE TURNING INSERT FOR CERMET

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			ΦI.C	S	Φd	R	CO30	CO30H	
		TNMG-FG	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
		TNMG-MT	160404	9.525	4.76	3.81	0.4	●	◇
			160408	9.525	4.76	3.81	0.8	●	◇
		CNMG-FG	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇
		CNMG-MT	120404	12.7	4.76	5.16	0.4	●	◇
			120408	12.7	4.76	5.16	0.8	●	◇

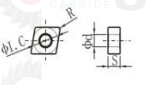

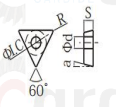

◇ Only on Order

● RECOMMENDED GRADE(Always Stock Available)

# POSITIVE TURNING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			SIZE	Φ.I.C	S	Φd	R	CO25G	CO25S
		CCMT-MD	060204 -	6.35	2.38	2.8	0.4		•
			060208 -	6.35	2.38	2.8	0.8		•
			09T304 -	9.525	3.97	4.4	0.4		•
			09T308 -	9.525	3.97	4.4	0.8		•
		CCMT-DPM	060204 -	6.35	2.38	2.8	0.4	•	
			060208 -	6.35	2.38	2.8	0.8	•	
			09T304 -	9.525	3.97	4.4	0.4	•	
			09T308 -	9.525	3.97	4.4	0.8	•	
		TCMT-DPM	090204 -	5.56	2.38	2.5	0.4	•	
			090208 -	5.56	2.38	2.5	0.8	•	
			110304	6.35	3.18	2.8	0.4	•	
			110308	6.35	3.18	2.8	0.8	•	
			16T304	9.525	3.97	4.4	0.4	•	
			16T308	9.525	3.97	4.4	0.8	•	
			16T312	9.525	3.97	4.4	1.2	•	
			16T312	9.525	3.97	4.4	1.2	•	
		DCMT	070204 -	6.35	2.38	2.8	0.4		•
			070208 -	6.35	2.38	2.8	0.8		•
			11T304	9.525	3.97	4.4	0.4		•
			11T308	9.525	3.97	4.4	0.8		•
		DCMT-DPM	070204 -	6.35	2.38	2.8	0.4	•	
			070208 -	6.35	2.38	2.8	0.8	•	
			11T304	9.525	3.97	4.4	0.4	•	
			11T308	9.525	3.97	4.4	0.8	•	
			11T312	9.525	3.97	4.4	1.2	•	
			11T312	9.525	3.97	4.4	1.2	•	
		VBMT-DPM	160404	9.525	4.76	3.81	0.4	•	
			160408	9.525	4.76	3.81	0.8	•	
			160412	9.525	4.76	3.81	1.2	•	

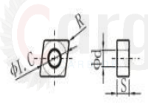
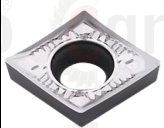


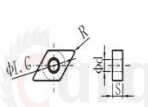

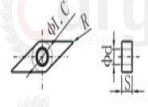
# POSITIVE TURNING INSERT FOR CERMET

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			Φ.I.C	S	Φd	R	CO30	CO30H	
		CCMT	060204 FG	6.35	2.38	2.8	0.4	•	◇
			060208 FG	6.35	2.38	2.8	0.8	•	◇
			09T304 FG	9.525	3.97	4.4	0.4	•	◇
			09T308 FG	9.525	3.97	4.4	0.8	•	◇
		TPGX	090202 L	5.56	2.38	2.5	0.4	•	◇
			090204 L	5.56	2.38	2.5	0.4	•	◇
			110304 L	6.35	3.18	2.8	0.4	•	◇
			110308 L	6.35	3.18	2.8	0.8	•	◇

◇ Only on Order

• RECOMMENDED GRADE(Always Stock Available)

# POSITIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			$\Phi$ .C	S	$\Phi$ d	R	COOI	COOH	
		CCGT	060202 LH	6.35	2.38	2.8	0.2	●	◇
			060204 LH	6.35	2.38	2.8	0.4	●	◇
			060208 LH	6.35	2.38	2.8	0.8	●	◇
			09T302 LH	9.525	3.97	4.4	0.2	●	◇
			09T304 LH	9.525	3.97	4.4	0.4	●	◇
			09T308 LH	9.525	3.97	4.4	0.8	●	◇
		TCGT	090202 LH	5.56	2.38	2.5	0.4	●	◇
			090204 LH	5.56	2.38	2.5	0.4	●	◇
			110304 LH	6.35	3.18	2.8	0.4	●	◇
			110308 LH	6.35	3.18	2.8	0.8	●	◇
			16T302 LH	9.525	3.97	4.4	0.2	●	◇
			16T304 LH	9.525	3.97	4.4	0.4	●	◇
		DCGT	070202 LH	6.35	2.38	2.8	0.2	●	◇
			070204 LH	6.35	2.38	2.8	0.4	●	◇
			070208 LH	6.35	2.38	2.8	0.8	●	◇
			11T302 LH	9.525	3.97	4.4	0.4	●	◇
			11T304 LH	9.525	3.97	4.4	0.4	●	◇
			11T308 LH	9.525	3.97	4.4	0.8	●	◇
		VCGT	11T302 LH	6.35	3.18	2.8	0.2	●	◇
			11T304 LH	6.35	3.18	2.8	0.4	●	◇
			11T308 LH	6.35	3.18	2.8	0.8	●	◇
			160402 LH	9.525	4.76	4.4	0.2	●	◇
			160404 LH	9.525	4.76	4.4	0.4	●	◇
			160408 LH	9.525	4.76	4.4	0.8	●	◇

◇ Only on Order

● RECOMMENDED GRADE(Always Stock Available)

# PCD NEGATIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED	
			$\Phi$ .C	S	$\Phi$ d	R	PCD	
		TNGA	160402	9.525	4.76	3.81	0.2	•
			160404	9.525	4.76	3.81	0.4	•
			160408	9.525	4.76	3.81	0.8	•
		CNGA	120402	12.7	4.76	5.16	0.2	•
			120404	12.7	4.76	5.16	0.4	•
			120408	12.7	4.76	5.16	0.8	•
		WNGA	080404	12.7	4.76	5.16	0.4	•
			080408	12.7	4.76	5.16	0.8	•
		VNGA	160402	9.525	4.76	3.81	0.2	•
			160404	9.525	4.76	3.81	0.4	•
			160408	9.525	4.76	3.81	0.8	•

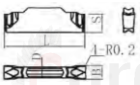

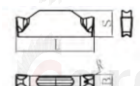

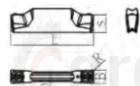

# PCD POSITIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED	
			$\Phi$ .C	S	$\Phi$ d	R	PCD	
		CCGW	060202-	6.35	2.38	2.8	0.2	•
			060204-	6.35	2.38	2.8	0.4	•
			060208-	6.35	2.38	2.8	0.8	•
			09T302-	9.525	3.97	4.4	0.2	•
			09T304-	9.525	3.97	4.4	0.4	•
			09T308-	9.525	3.97	4.4	0.8	•
		TCGW	090202-	5.56	2.38	2.5	0.4	•
			090204-	5.56	2.38	2.5	0.4	•
			110304	6.35	3.18	2.8	0.4	•
			110308	6.35	3.18	2.8	0.8	•
			16T302	9.525	3.97	4.4	0.2	•
			16T304	9.525	3.97	4.4	0.4	•
		DCGW	070202-	6.35	2.38	2.8	0.2	•
			070204-	6.35	2.38	2.8	0.4	•
			070208-	6.35	2.38	2.8	0.8	•
			11T302	9.525	3.97	4.4	0.4	•
			11T304	9.525	3.97	4.4	0.4	•
			11T308	9.525	3.97	4.4	0.8	•
		VCGW	11T302	6.35	3.18	2.8	0.2	•
			11T304	6.35	3.18	2.8	0.4	•
			11T308	6.35	3.18	2.8	0.8	•
			160402	9.525	4.76	4.4	0.2	•
			160404	9.525	4.76	4.4	0.4	•
			160408	9.525	4.76	4.4	0.8	•

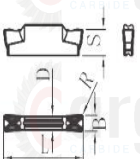



# PARTING & GROOVING INSERT

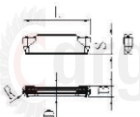

## TDJ / TDC / TDT TYPE PARTING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			B	R	L	D	S	CO2OH	
		TDJ	2MM	2	0.2	20	1.7	3.9	•
			3MM	3	0.2	20	2.4	4	•
			4MM	4	0.3	20	3	4.05	•
			5MM	5	0.3	25	4	4.89	•
		TDC	2MM	2	0.2	20	1.7	3.9	•
			3MM	3	0.2	20	2.4	4	•
			4MM	4	0.3	20	3	4.03	•
			5MM	5	0.3	25	4	4.89	•
		TDT	2MM	2	0.2	20	1.7	3.9	•
			3MM	3	0.2	20	2.4	4	•
			4MM	4	0.3	20	3	4.05	•
			5MM	5	0.3	25	4	4.89	•

## MGMN TYPE PARTING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			B	R	L	D	S	CO2OH	
		MGMN	150-G	1.5	0.15	16	1.2	3.5	•
			200-G	2	0.2	16	1.6	3.85	•
			250-M	2.5	0.2	18.5	2	4.8	•
			300-M	3	0.4	21	2.35	4.8	•
			400-M	4	0.4	21	3.3	5.8	•
			500-M	5	0.8	26	4.1	5.8	•
			600-M	6	0.8	26	5	5.8	•
			800-M	8	0.8	28	6	6.5	•

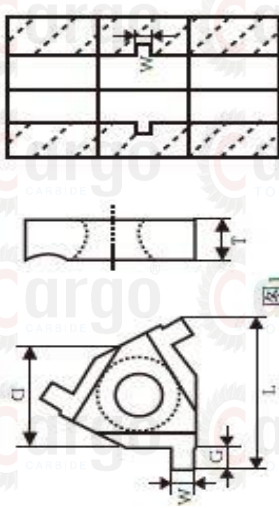
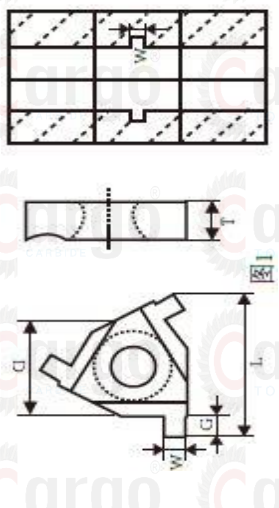
## MRMN TYPE PARTING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			B	R	L	D	S	CO2OH	
		MRMN	200-M	2	1	16	1.6	3.5	•
			300-M	3	1.5	21	2.35	4.8	•
			400-M	4	2	21	3.3	4.8	•
			500-M	5	2.5	25.86	4.1	5.8	•
			600-M	6	3	26	5	5.8	•



◆ Only on Order

● RECOMMENDED GRADE(Always Stock Available)

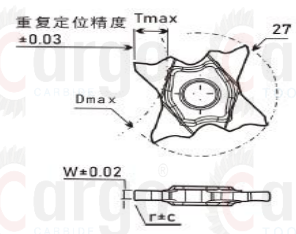

# CIRCLIP GROOVING INSERT

The basic shape of inserts	ER OR IR	Dimension (mm)						GRADE
		L	D	T	W	G	R	CO20H
	0.70	16	9.53	3.65	0.70	1.40	0.10	•
	0.80		9.53	3.65	0.80	1.40	0.10	•
	0.90		9.53	3.65	0.90	1.40	0.10	•
	1.00		9.53	3.65	1.00	1.40	0.10	•
	1.10		9.53	3.65	1.10	1.80	0.10	•
	1.20		9.53	3.65	1.20	1.80	0.10	•
	1.30		9.53	3.65	1.30	1.80	0.10	•
	1.40		9.53	3.65	1.40	1.80	0.10	•
	1.50		9.53	3.65	1.50	1.80	0.10	•
	1.60		9.53	3.65	1.60	1.80	0.10	•
	1.70		9.53	3.65	1.70	1.80	0.10	•
	1.80		9.53	3.65	1.80	1.80	0.10	•
	1.95		9.53	3.65	1.95	1.80	0.10	•
	2.00		9.53	3.65	2.00	1.80	0.10	•
	2.00		9.53	3.65	2.00	2.00	0.10	•
2.25	9.53	3.65	2.25	2.00	0.10	•		
2.50	9.53	3.65	2.50	2.20	0.10	•		
3.00	9.53	3.65	3.00	3.20	0.10	•		
The basic shape of inserts	IR	Dimension (mm)						GRADE
		L	D	T	W	G	R	CO20H
	0.40	11	6.35	3.20	0.40	1.20	0.10	•
	0.50		6.35	3.20	0.50	1.20	0.10	•
	0.60		6.35	3.20	0.60	1.20	0.10	•
	0.70		6.35	3.20	0.70	1.20	0.10	•
	0.80		6.35	3.20	0.80	1.20	0.10	•
	0.85		6.35	3.20	0.85	1.20	0.10	•
	0.90		6.35	3.20	0.90	1.20	0.10	•
	1.00		6.35	3.20	1.00	1.20	0.10	•
	1.10		6.35	3.20	1.10	1.20	0.10	•
	1.20		6.35	3.20	1.20	1.20	0.10	•
	1.25		6.35	3.20	1.25	1.20	0.10	•
	1.30		6.35	3.20	1.30	1.20	0.10	•
	1.40		6.35	3.20	1.40	1.20	0.10	•
	1.50		6.35	3.20	1.50	1.20	0.10	•
	1.70		6.35	3.20	1.70	1.20	0.10	•
1.80	6.35	3.20	1.80	1.20	0.10	•		
2.00	6.35	3.20	2.00	1.20	0.10	•		

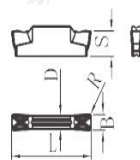

# PENTA TYPE PARTING INSERT

The basic shape of inserts	IMAGE OF INSERT	Dimension (mm)				GRADE	
		SIZE	W	R	T Mmax	SIZE	CO2OH
		24N	0.50	0.05	2	0.50	•
			0.75	0.05	2	0.75	•
			1.00	0.1	4	1.00	•
			1.50	0.1	5	1.50	•
			1.75	0.1	5	1.75	•
			2.00	0.1	5	2.00	•
			2.50	0.2	5	2.50	•
			3.00	0.2	5	3.00	•

# PENTA (TQJ) TYPE PARTING INSERT

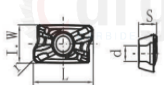

The basic shape of inserts	IMAGE OF INSERT	Dimension (mm)				GRADE	
		SIZE	W	R	T Mmax	SIZE	CO2OH
		27	0.50	0.1	2.5	0.50	•
			0.75	0.1	2.5	0.75	•
			0.80	0.1	1.6	0.80	•
			1.00	0.1	3.5	1.00	•
			1.50	0.2	5.7	1.50	•
			2.00	0.2	6.4	2.00	•
			2.50	0.2	6.4	2.50	•
			3.00	0.2	6.4	3.00	•




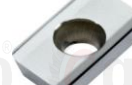
# PCD MGMN TYPE PARTING INSERT

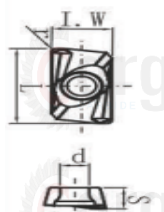



The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			B	R	L	D	S	CO2OH	
		MGMN	150-G	1.5	0.15	16	1.2	3.5	•
			200-G	2	0.2	16	1.6	3.85	•
			250-M	2.5	0.2	18.5	2	4.8	•
			300-M	3	0.4	21	2.35	4.8	•
			400-M	4	0.4	21	3.3	5.8	•

# MILLING INSERT

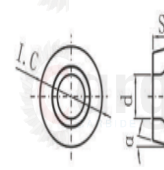

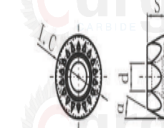
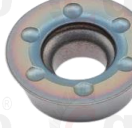
## ◆ Insert For Square Shoulder Milling

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE CO20H
			I.W	L	S	Φd	R	
		R390 11T308 PM	6.9	11.72	3.58	2.8	0.8	•
		R390 17D408 PM	9.6	17.82	4.76	4.12	0.8	•

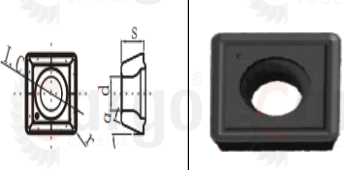

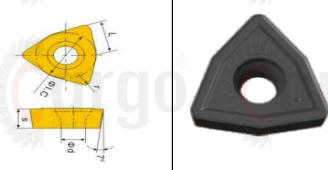
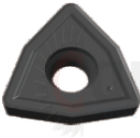
The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE CO01
			I.W	L	S	Φd	R	
		APGT 16D404 LH	9.28	17.15	4.76	4.4	0.4	•
		APGT 16D408 LH	9.28	17.15	4.76	4.4	0.8	•
		APKT 16D402 FR LH	9.8	16.88	4.76	4.4	0.2	•
		APKT 16D404 FR LH	9.8	16.88	4.76	4.4	0.4	•
		APKT 16D408 FR LH	9.8	16.88	4.76	4.4	0.8	•

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE CO25G/SH
			I.W	L	S	Φd	R	
		APMT 1135 PDER H2	6.2	11.21	3.5	2.8	0.8	•
		APMT 16D4 PDER H2	9.28	17.15	4.76	4.4	0.8	•
		APMT 1135 PDER M2	6.2	11.21	3.5	2.8	0.8	•
		APMT 16D4 PDER M2	9.28	17.15	4.76	4.4	0.8	•
		APMT 1135 PDER M2	6.2	11.21	3.5	2.8	0.8	•
		APMT 16D4 PDER M2	9.28	17.15	4.76	4.4	0.8	•

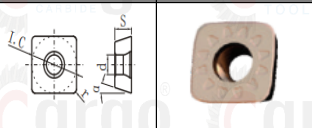

## ◆ Insert For PROFILE Milling



The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			ΦI.C	S	Φd	R	α	CO25G	CO25SH
		RPMW 0803 MOT	8	3.18	3.4		11°	•	
		RPMW 1003 MOT	10	3.18	4.4		11°	•	
		RPMW 10T3 MOT	10	3.97	4.4		11°	•	
		RPMW 12D4 MOT	12	4.76	4.4		11°	•	
		RPMT 0803 MOT	8	3.18	3.4		11°	•	
		RPMT 10T3 MOT	10	3.97	4.4		11°	•	
		RPMT 12D4 MOT	12	4.76	4.4		11°	•	

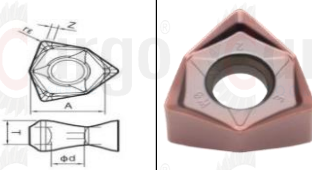

# INSERT FOR HOLE DRILLING INSERT

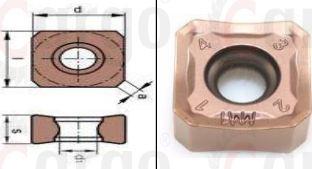

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE
			$\Phi$ .C	S	d	r	$\alpha^\circ$	CO20H
		SPMG 050204 ZV	5.56	2.38	2.5	0.4	11°	•
		SPMG 060204 ZV	6.35	2.38	2.8	0.4	11°	•
		SPMG 07T308 ZV	7.94	3.97	2.8	0.8	11°	•
		SPMG 090408 ZV	9.8	4.3	4.1	0.8	11°	•
		SPMG 110408 ZV	11.5	4.76	4.4	0.8	11°	•
		SPMG 140512 ZV	14.3	5.56	5.5	1.2	11°	•
The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE
			L	$\Phi$ .C	S	d	r	CO20H
		WCMX 030208	3.8	5.56	2.38	2.8	0.8	•
		WCMX 040208	4.3	6.35	2.38	3.1	0.8	•
		WCMX 050308	5.4	7.94	3.18	3.2	0.8	•
		WCMX 06T308	6.5	9.525	3.97	3.7	0.8	•
		WCMX 080412	8.7	12.7	4.76	4.3	1.2	•

# INSERT FOR HIGE FEED MILLING

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE
			$\Phi$ .C	S	d	r	$\alpha^\circ$	CO20H
		SDMT 09T312 PM	9.525	3.97	4	1.2	15°	•
		SDMT 120412 PM	12.7	4.76	4.4	1.2	15°	•

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			$\Phi$ .C	RE	APMX	LE	S	CO20H/25H	CO05H
		LNMU 0303 ZER	6.00	1.20	1.00	3.20	4.29	•	
								•	
									•

The basic shape of inserts	IMAGE OF INSERT	TYPE	Dimension (mm)					GRADE	
			A	T	$\Phi$ d	Z	Re	CO25H	CO20H
		WNMU 080608 GM	12.70	4.76	4.40	1.20	15°	•	•

The basic shape of inserts	IMAGE OF INSERT	TYPE	Dimension (mm)					GRADE	
			d	l	s	r	d1	CO25H	CO20H
		SNMU 1206 ANN	12.70	12.70	6.35	0.80	4.50	•	•



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