



NEGATIVE TURNING INSERT FOR CAST IRON

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE RECOMMENDED	
			SIZE	ΦI.C	S	Φd	R	CO15C	CO15CH
		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	•	◇

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-1	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-1	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	•	•
		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	•	•
			080412,	12.7	4.76	5.16	1.2	•	•
	WNMG-FW/ FWS/ FW-1	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	•	•
		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	•	•
			150612	12.7	6.35	5.16	1.2	•	•

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	•		
			160412	9.525	4.76	3.81	1.2	•		
		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	•		



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	•	◇

POSITIVE TURNING INSERT FOR CERMET

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			ΦI.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	•	◇
		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	•	•
		TCMT	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	•	•
		TPGX	060102 L	3.97	1.59	2.2	0.2	•	•
			060104 L	3.97	1.59	2.2	0.4	•	•
			080202 L	4.76	2.38	2.5	0.2	•	•
			080204 L	4.76	2.38	2.5	0.4	•	•
			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	•	•

POSITIVE TURNING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE RECOMMENDED				
			SIZE	ΦI.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-OPM	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-OPM	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	•	•			
			110312	6.35	3.18	2.8	1.2	•	•			
			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	•	•			
		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-OPM	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	•	•			
					VBMT-OPM	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	•	•
		CCET-L				030102 L	3.5	1.4	1.9	0.2	•	
			030104 L	3.5	1.4	1.9	0.4	•				
								•				
								•				
		WBMT	060102-L	3.97	1.62	2.35	0.2	•				
			060104-L	3.97	1.62	2.35	0.4	•				
								•				

POSITIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			ΦI.C	S	Φd	R	CO01	CO01H	
		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	•	◇			

NEGATIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED		
			ΦI.C	S	Φd	R	CO01	CO01H	
		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	•	◇

PCD NEGATIVE TURNING INSERT FOR ALUMINIUM

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)				GRADE RECOMMENDED	
			Φ I.C	S	Φ 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	
			Φ I.C	S	Φ 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	•



TDJ / TDC / TDT TYPE PARTING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			B	R	L	D	S	CO20H	
		TDJ	2MM	2.0	0.2	20	1.7	3.9	•
			3MM	3.0	0.2	20	2.4	4	•
			4MM	4.0	0.3	20	3	4.05	•
			5MM	5.0	0.3	25	4	4.89	•
		TDC	2MM	2.0	0.2	20	1.7	3.9	•
			3MM	3.0	0.2	20	2.4	4	•
			4MM	4.0	0.3	20	3	4.03	•
			5MM	5.0	0.3	25	4	4.89	•
		TDT	2MM	2.0	0.2	20	1.7	3.9	•
			3MM	3.0	0.2	20	2.4	4	•
			4MM	4.0	0.3	20	3	4.05	•
			5MM	5.0	0.3	25	4	4.89	•

TDT-RU TYPE PARTING INSERT

The basic shape of inserts	IMAGE OF INSERT	Type	Dimension (mm)					GRADE	
			B	R	L	D	S	CO20H	
		TDT-RU	2MM	2.0	1.0	20	1.7	3.9	•
			3MM	3.0	1.5	20	2.4	4	•
			4MM	4.0	2.0	20	3	4.05	•
			5MM	5.0	2.5	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	CO20H	
		MGMN	150-G	1.5	0.15	16	1.2	3.5	•
			200-G	2.0	0.2	16	1.6	3.85	•
			250-M	2.5	0.2	18.5	2	4.8	•
			300-M	3.0	0.4	21	2.35	4.8	•
			400-M	4.0	0.4	21	3.3	5.8	•
			500-M	5.0	0.8	26	4.1	5.8	•
			600-M	6.0	0.8	26	5	5.8	•
			800-M	8.0	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	CO20H	
		MRMN	200-M	2.0	1.0	16	1.6	3.5	•
			300-M	3.0	1.5	21	2.35	4.8	•
			400-M	4.0	2.0	21	3.3	4.8	•
			500-M	5.0	2.5	25.86	4.1	5.8	•
			600-M	6.0	3.0	26	5	5.8	•

CIRCLIP GROOVING INSERT

The basic shape of inserts	ER OR IR	Dimension (mm)						GRADE CO20H
		L	D	T	W	G	R	
	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	•		
	IR							
	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 CO20H	
		SIZE	W	R	T Mmax		
		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 CO20H	
		SIZE	W	R	T Mmax		
		27	0.50	0.1	2.5	0.50	•
			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	•			



GR GROOVING INSERT

The basic shape of inserts	6 GR/L (W)	Dimension (mm)						GRADE CO25G
		A	B	T	D	L	R	
	1.0							•
	1.5	4.76	6.24	2.34	2.30	5.56	0.50	•
	2.0							•
	7 GR/L (W)	Dimension (mm)						GRADE CO25G
		A	B	T	D	L	R	
	1.00							•
	1.10							•
	1.20							•
	1.30							•
	1.40							•
	1.50	5.56	7.36	3.08	2.58	5.56	0.20	•
	1.60							•
1.70							•	
1.80							•	
1.95							•	
2.00							•	
The basic shape of inserts	8 GR/L (W)	Dimension (mm)						GRADE CO25G
		A	B	T	D	L	R	
	1.0							•
	1.1							•
	1.2							•
	1.3							•
	1.4							•
	1.5							•
	1.6	5.56	10.16	3.87	2.58	6.15	0.20	•
	1.7							•
	1.8							•
	1.9							•
	2.0							•
	2.5							•
3.0							•	
9 GR/L (W)	Dimension (mm)						GRADE CO25G	
		A	B	T	D	L	R	
	1.0							•
	1.1							•
	1.2							•
	1.3							•
	1.4							•
	1.5							•
	1.6							•
	1.7	6.35	12.95	4.66	2.86	7.74	0.20	•
	1.8							•
	1.9							•
	2.0							•
	2.5							•
3.0							•	
3.5							•	
4.0							•	

THREADING INSERT 60° UNIVERSAL

The basic shape of inserts	EXTERNAL	PITCH		INSERT SIZE		Dimensions			CO 05/25H
		mm	TPI	IC	S	Z	Y	R	H min
	16 ER A60	0.5-1.5	48-16	9.53	3.5	0.80	0.90	0.07	1.1
	16 ER A60D	0.5-3.0	24-11	9.53	3.5	1.20	1.70	0.15	2.2
	16 ER G60	1.75-3.0	18-8	9.53	3.5	1.20	1.70	0.26	2.06
	22 ER N60	3.5-5.0	7.0-5	12.70	4.7	1.70	2.50	0.51	3.36
	27 ER Q60	5.5-6.0	4.5-4	15.88	6.3	2.10	3.10	0.77	3.85
	INTERNAL	PITCH		INSERT SIZE		Dimensions			CO 05/25H
		mm	TPI	IC	S	Z	Y	R	H min
	06 IR A60	0.15-1.5	48-24	4.00	2.0	0.50	0.60	0.03	0.77
	08 IR A60	0.5-1.5	48-20	4.76	2.3	0.60	0.75	0.03	0.97
	11 IR A60	0.5-1.5	48-16	6.35	3.0	0.80	0.90	0.06	0.97
	11 IR A60D	1.0-3.0	20-11	6.35	3.0	0.80	1.10	0.07	1.5
	16 IR A60	0.5-1.5	48-16	9.53	3.5	0.80	0.90	0.06	0.97
	16 IR A60D	1.0-3.0	24-11	9.53	3.5	1.20	1.70	0.07	1.9
	16 IR G60	1.75-3.0	14-8	9.53	3.5	1.20	1.70	0.13	1.89
	22 IR N60	3.5-5.0	7.0-5	12.70	4.7	1.70	2.50	0.25	2.95
27 IR Q60	5.5-6.0	4.5-4	15.88	6.3	1.80	2.70	0.39	3.6	

55° UNIVERSAL

The basic shape of inserts	EXTERNAL	PITCH		INSERT SIZE		Dimensions			CO 05/25H
		mm	TPI	IC	S	Z	Y	R	H min
	16 ER A55	0.5-1.5	48-16	9.53	3.5	0.80	1.70	0.08	1.14
	16 ER A55D	0.5-3.0	24-11	9.53	3.5	1.20	1.70	0.15	2.3
	16 ER G55	1.75-3.0	14-8	9.53	3.5	1.20	2.50	0.26	2.06
	22 ER N55	3.5-5.0	7.0-5	12.70	4.7	1.70	2.50	0.51	3.36
	27 ER Q55	5.5-6.0	4.5-4	15.88	6.3	2.00	2.90	0.77	4.1
	INTERNAL	PITCH		INSERT SIZE		Dimensions			CO 05/25H
		mm	TPI	IC	S	Z	Y	R	H min
	06 IR A55	0.15-1.5	48-24	4.00	2.0	0.60	0.60	0.08	0.75
	08 IR A55	0.5-1.5	48-20	4.76	2.3	0.60	0.70	0.08	0.92
	11 IR A55	0.5-1.5	48-16	6.35	3.0	0.80	0.90	0.08	1.14
	11 IR A55D	1.0-3.0	20-11	6.35	3.0	0.80	1.10	0.18	1.6
	16 IR A55	0.5-1.5	48-16	9.53	3.5	0.80	0.90	0.08	1.14
	16 IR A55D	1.0-3.0	24-11	9.53	3.5	1.20	1.70	0.15	2.3
	16 IR G55	1.75-3.0	14-8	9.53	3.5	1.20	1.70	0.26	2.06
	22 IR N55	3.5-5.0	7.0-5	12.70	4.7	1.70	2.50	0.50	3.4
27 IR Q55	5.5-6.0	4.5-4	15.88	6.3	2.00	2.90	0.77	4.1	

60° ISO STANDARD

The basic shape of inserts	EXTERNAL	DIA	PITCH		INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H	
	16 ER 0.5	3/8"	0.50	9.53	3.5	0.60	0.40	0.31	•	
	16 ER 0.75	3/8"	0.75	9.53	3.5	0.60	0.60	0.47	•	
	16 ER 1.0	3/8"	1.00	9.53	3.5	0.60	0.70	0.62	•	
	16 ER 1.25	3/8"	1.25	9.53	3.5	0.80	0.90	0.78	•	
	16 ER 1.5	3/8"	1.50	9.53	3.5	0.80	1.00	0.93	•	
	16 ER 1.75	3/8"	1.75	9.53	3.5	0.90	1.00	1.09	•	
	16 ER 2.0	3/8"	2.00	9.53	3.5	1.00	1.20	1.24	•	
	16 ER 2.5	3/8"	2.50	9.53	3.5	1.10	1.20	1.55	•	
	16 ER 3.0	3/8"	3.00	9.53	3.5	1.10	1.40	1.86	•	
	16 ER 3.5	3/8"	3.50	9.53	3.5	1.40	1.90	2.17	•	
	22 ER 3.5	1/2"	3.50	12.70	4.7	1.60	2.30	2.17	•	
	22 ER 4.0	1/2"	4.00	12.70	4.7	1.60	2.30	2.48	•	
	22 ER 4.5	1/2"	4.50	12.70	4.7	1.60	2.30	2.79	•	
	22 ER 5.0	1/2"	5.00	12.70	4.7	1.60	2.40	3.10	•	
	27 ER 5.5	5/8"	5.50	15.88	6.3	1.90	2.70	3.37	•	
	27 ER 6.0	5/8"	6.00	15.88	6.3	2.00	2.90	3.68	•	
		INTERNAL	DIA	PITCH		INSERT SIZE		Dimensions		
			TPI	IC	S	Z	Y	H min	CO05H/25H	
11 IR 0.5		1/4"	0.50	6.35	3.0	0.60	0.40	0.29	•	
11 IR 0.75		1/4"	0.75	6.35	3.0	0.60	0.60	0.47	•	
11 IR 1.0		1/4"	1.00	6.35	3.0	0.60	0.70	0.57	•	
11 IR 1.25		1/4"	1.25	6.35	3.0	0.80	0.90	0.71	•	
11 IR 1.5		1/4"	1.50	6.35	3.0	0.80	1.00	0.86	•	
11 IR 1.75		1/4"	1.75	6.35	3.0	0.90	1.10	1.00	•	
11 IR 2.0		1/4"	2.00	6.35	3.0	0.90	1.10	1.14	•	
		16 IR 0.5	3/8"	0.50	9.53	3.5	0.60	0.40	0.29	•
	16 IR 0.75	3/8"	0.75	9.53	3.5	0.60	0.60	0.44	•	
	16 IR 1.0	3/8"	1.00	9.53	3.5	0.60	0.70	0.57	•	
	16 IR 1.25	3/8"	1.25	9.53	3.5	0.80	0.90	0.71	•	
	16 IR 1.5	3/8"	1.50	9.53	3.5	0.80	1.00	0.86	•	
	16 IR 1.75	3/8"	1.75	9.53	3.5	0.90	1.00	1.00	•	
	16 IR 2.0	3/8"	2.00	9.53	3.5	1.00	1.20	1.14	•	
	16 IR 2.5	3/8"	2.50	9.53	3.5	1.10	1.20	1.43	•	
	16 IR 3.0	3/8"	3.00	9.53	3.5	1.10	1.50	1.72	•	
	16 IR 3.5	3/8"	3.50	9.53	3.5	1.40	1.90	2.00	•	
	22 IR 3.5	1/2"	3.50	12.70	4.7	1.60	2.30	2.00	•	
	22 IR 4.0	1/2"	4.00	12.70	4.7	1.60	2.30	2.48	•	
	22 IR 4.5	1/2"	4.50	12.70	4.7	1.60	2.30	2.79	•	
	22 IR 5.0	1/2"	5.00	12.70	4.7	1.60	2.40	3.10	•	
	27 IR 5.5	5/8"	5.50	15.88	6.3	1.90	2.30	3.17	•	
	27 IR 6.0	5/8"	6.00	15.88	6.3	1.90	2.60	3.46	•	

55° W-WHITWORTH

The basic shape of inserts	EXTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 8W	3/8"	8.00	9.53	3.5	1.20	1.70	2.03	•
	16 ER 9W	3/8"	9.00	9.53	3.5	1.20	1.70	1.81	•
	16 ER 10W	3/8"	10.00	9.53	3.5	1.10	1.30	1.63	•
	16 ER 11W	3/8"	11.00	9.53	3.5	1.10	1.30	1.48	•
	16 ER 12W	3/8"	12.00	9.53	3.5	1.10	1.30	1.35	•
	16 ER 14W	3/8"	14.00	9.53	3.5	1.10	1.20	1.16	•
	16 ER 16W	3/8"	16.00	9.53	3.5	1.00	1.00	1.02	•
	16 ER 18W	3/8"	18.00	9.53	3.5	0.90	1.00	0.90	•
	16 ER 19W	3/8"	19.00	9.53	3.5	0.80	1.00	0.86	•
	16 ER 20W	3/8"	20.00	9.53	3.5	0.80	0.90	0.74	•
	16 ER 24W	3/8"	24.00	9.53	3.5	0.80	0.80	0.68	•
	22 ER 4W	1/2"	4.00	12.70	4.7	1.70	2.30	3.20	•
	22 ER 5W	1/2"	5.00	12.70	4.7	1.70	2.40	3.25	•
	22 ER 6W	1/2"	6.00	12.70	4.7	1.60	2.30	2.71	•
	INTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	11 IR 14W	1/4"	14.00	6.35	3.0	1.00	1.20	1.16	•
	11 IR 16W	1/4"	16.00	6.35	3.0	1.00	1.00	1.02	•
11 IR 18W	1/4"	18.00	6.35	3.0	0.90	1.00	0.90	•	
11 IR 19W	1/4"	19.00	6.35	3.0	0.80	1.00	0.86	•	
	16 IR 8W	3/8"	8.00	9.53	3.5	1.20	1.70	2.03	•
	16 IR 9W	3/8"	9.00	9.53	3.5	1.20	1.70	1.81	•
	16 IR 10W	3/8"	10.00	9.53	3.5	1.10	1.30	1.63	•
	16 IR 11W	3/8"	11.00	9.53	3.5	1.10	1.30	1.48	•
	16 IR 12W	3/8"	12.00	9.53	3.5	1.10	1.30	1.35	•
	16 IR 14W	3/8"	14.00	9.53	3.5	1.10	1.20	1.16	•
	16 IR 16W	3/8"	16.00	9.53	3.5	1.00	1.00	1.02	•
	16 IR 18W	3/8"	18.00	9.53	3.5	0.90	1.00	0.90	•
	16 IR 19W	3/8"	19.00	9.53	3.5	0.80	1.00	0.86	•
	16 IR 20W	3/8"	20.00	9.53	3.5	0.80	0.90	0.74	•
	16 IR 24W	3/8"	24.00	9.53	3.5	0.80	0.80	0.68	•
	22 ER 4W	1/2"	4.00	12.70	4.7	1.70	2.30	3.20	•
	22 ER 5W	1/2"	5.00	12.70	4.7	1.70	2.40	3.25	•
	22 ER 6W	1/2"	6.00	12.70	4.7	1.60	2.30	2.71	•

60° UN AMERICAN

The basic shape of inserts	EXTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 8UN	3/8"	8.00	9.53	3.5	1.10	1.70	1.94	•
	16 ER 11UN	3/8"	11.00	9.53	3.5	1.10	1.30	1.29	•
	16 ER 14UN	3/8"	14.00	9.53	3.5	0.90	1.20	1.11	•
	16 ER 16UN	3/8"	16.00	9.53	3.5	0.90	1.00	0.97	•
	16 ER 18UN	3/8"	18.00	9.53	3.5	0.80	1.00	0.86	•
	16 ER 20UN	3/8"	20.00	9.53	3.5	0.80	0.90	0.79	•
	INTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 IR 8UN	3/8"	8.00	9.53	3.5	1.10	1.70	1.81	•
	16 IR 11UN	3/8"	11.00	9.53	3.5	1.10	1.30	1.33	•
	16 IR 14UN	3/8"	14.00	9.53	3.5	0.90	1.20	1.04	•
	16 IR 16UN	3/8"	16.00	9.53	3.5	0.90	1.00	0.91	•
	16 IR 18UN	3/8"	18.00	9.53	3.5	0.80	1.00	0.81	•
	16 IR 20UN	3/8"	20.00	9.53	3.5	0.80	0.90	0.73	•

29° ACME BRITISH-TRAPEZODIAL

The basic shape of inserts	EXTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 6ACME	3/8"	6.00	9.53	3.5	1.50	1.60	1.90	•
	16 ER 8ACME	3/8"	8.00	9.53	3.5	1.50	1.50	1.84	•
	16 ER 10ACME	3/8"	10.00	9.53	3.5	1.30	1.40	1.52	•
	16 ER 12ACME	3/8"	12.00	9.53	3.5	1.20	1.30	1.19	•
	22 ER 4ACME	1/2"	4.00	12.70	4.7	2.10	2.40	2.81	•
	22 ER 5ACME	1/2"	5.00	12.70	4.7	2.00	2.30	2.79	•
	22 ER 6ACME	1/2"	6.00	12.70	4.7	1.80	2.10	2.37	•
	INTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 IR 6ACME	3/8"	6.00	9.53	3.5	1.50	1.60	1.90	•
	16 IR 8ACME	3/8"	8.00	9.53	3.5	1.50	1.50	1.84	•
	16 IR 10ACME	3/8"	10.00	9.53	3.5	1.30	1.40	1.52	•
	16 IR 12ACME	3/8"	12.00	9.53	3.5	1.20	1.30	1.19	•
	22 IR 4ACME	1/2"	4.00	12.70	4.7	2.10	2.40	2.81	•
22 IR 5ACME	1/2"	5.00	12.70	4.7	2.00	2.30	2.79	•	
22 IR 6ACME	1/2"	6.00	12.70	4.7	1.80	2.10	2.37	•	

55° NPT-AMERICAN STANDARD PIPE TAPER

The basic shape of inserts	EXTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 08NPT	3/8"	8.00	9.53	3.5	1.30	1.70	2.42	•
	16 ER 11.5NPT	3/8"	11.50	9.53	3.5	1.10	1.30	1.67	•
	16 ER 14NPT	3/8"	14.00	9.53	3.5	0.90	1.20	1.38	•
	16 ER 18NPT	3/8"	18.00	9.53	3.5	0.80	1.00	1.04	•
	16 ER 27NPT	3/8"	27.00	9.53	3.5	0.70	0.80	0.66	•
	INTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	11 IR 14NPT	1/4"	14.00	6.35	3.0	0.90	1.20	1.38	•
	11 IR 18NPT	1/4"	18.00	6.35	6.0	0.80	1.00	1.04	•
	11 IR 27NPT	1/4"	27.00	6.35	3.0	0.70	0.80	0.71	•
	16 IR 08NPT	3/8"	8.00	9.53	3.5	1.30	1.70	2.42	•
	16 IR 11.5NPT	3/8"	11.50	9.53	3.5	1.10	1.30	1.67	•
16 IR 14NPT	3/8"	14.00	9.53	3.5	0.90	1.20	1.38	•	
16 IR 18NPT	3/8"	18.00	9.53	3.5	0.80	1.00	1.04	•	
16 IR 27NPT	3/8"	27.00	9.53	3.5	0.70	0.80	0.66	•	

30° TR-STANDARD TRAPEZODIAL

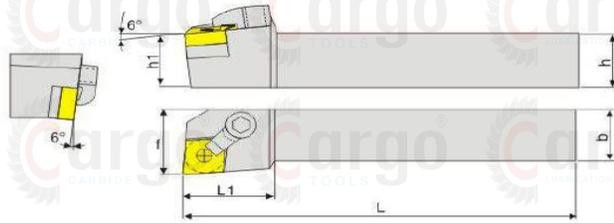
The basic shape of inserts	EXTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 3TR	3/8"	3.00	9.53	3.5	1.30	1.50	1.75	•
	22 ER 4TR	1/2"	4.00	12.70	4.7	1.70	1.90	2.25	•
	22 ER 5TR	1/2"	5.00	12.70	4.7	2.10	2.50	2.75	•
	22 ER 6TR	1/2"	6.00	12.70	4.7	2.30	2.70	3.50	•
	INTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 3TR	3/8"	3.00	9.53	3.5	1.30	1.50	1.75	•
	22 ER 4TR	1/2"	4.00	12.70	4.7	1.70	1.90	2.25	•
	22 ER 5TR	1/2"	5.00	12.70	4.7	2.10	2.50	2.75	•
	22 ER 6TR	1/2"	6.00	12.70	4.7	2.30	2.70	3.50	•

30° TR-STANDARD TRAPEZODIAL

The basic shape of inserts	EXTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 6RD	3/8"	6.00	9.53	3.5	1.50	1.50	2.12	•
	16 ER 8RD	3/8"	8.00	9.53	3.5	1.40	1.40	1.59	•
	INTERNAL	DIA	PITCH	INSERT SIZE		Dimensions			GRADE
			TPI	IC	S	Z	Y	H min	CO05H/25H
	16 ER 6RD	3/8"	6.00	9.53	3.5	1.50	1.50	2.12	•
	16 ER 8RD	3/8"	8.00	9.53	3.5	1.40	1.40	1.59	•

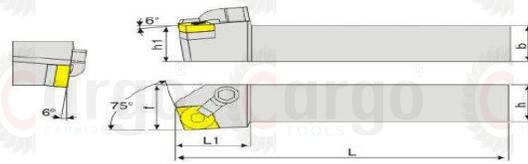
CNMG External Tool Holder

95° MCLNR/L



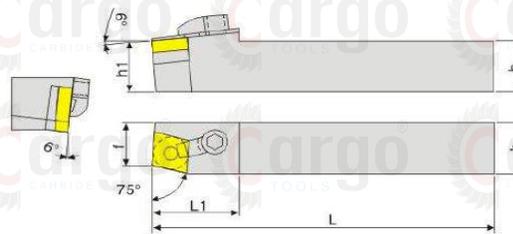
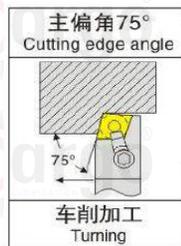
DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MCLNR/L 16X16 HI2	16	16	100	32	16	20	MC1204	CTM617	HL1814	MLO625	L2.5.L3.0
MCLNR/L 20X20 HI2	20	20	125	22	20	25					
MCLNR/L 25X25 HI2	25	25	150	32	25	32					
MCLNR/L 25X25 M6	25	25	150	32	25	32	MC1604	CTM822	HL2217	MLO830	L4.0.L5.0

75° MCKNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MCKNR/L 20X20 HI2	20	20	125	32	20	17	MC1204	CTM617	HL1814	MLO625	L2.5.L3.0
MCKNR/L 25X25 HI2	25	25	150	32	25	22					

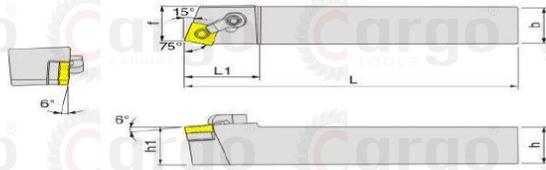
75° MCBNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MCBNR/L 20X20 HI2	20	20	125	32	20	17	MC1204	CTM617	HL1814	MLO625	L2.5.L3.0
MCBNR/L 25X25 HI2	25	25	150	32	25	22					

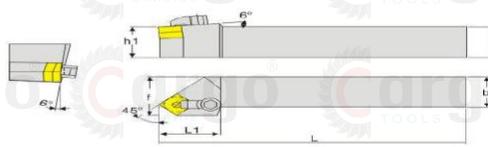
SNMG External Tool Holder

75° MSBNR/L



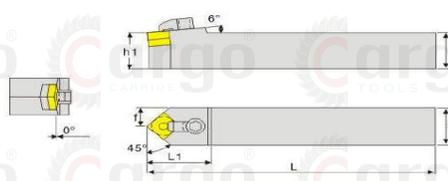
DESIGNATION	Dimension (mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MSBNR/L 16X16 HI2	16	16	100	32	16	20	MS1204	CTM617	HL814	M.0625	L2.5.L3.0
MSBNR/L 20X20 HI2	20	20	125	32	20	25					
MSBNR/L 25X25 HI2	25	25	150	32	25	32					

45° MSSNR/L



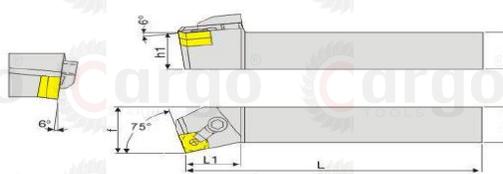
DESIGNATION	Dimension (mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MSSNR/L 20X20 HI2	20	20	125	34	25	20	MS1204	CTM617	HL814	M.0625	L2.5.L3.0
MSSNR/L 25X25 HI2	25	25	150	34	32	25					

45° MSDNN



DESIGNATION	Dimension (mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MSDNN 16X16 HI2	16	16	100	34	16	8	MS1204	CTM617	HL814	M.0625	L2.5.L3.0
MSDNN 20X20 HI2	20	20	125	34	20	10					
MSDNN 25X25 HI2	25	25	150	34	25	12.5					

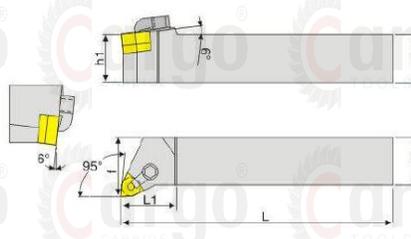
75° MSKNR/L



DESIGNATION	Dimension (mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MSKNR/L 20X20 HI2	20	20	125	32	20	25	MS1204	CTM617	HL814	M.0625	L2.5.L3.0
MSKNR/L 25X25 HI2	25	25	150	32	25	32					

WNMG External Tool Holder

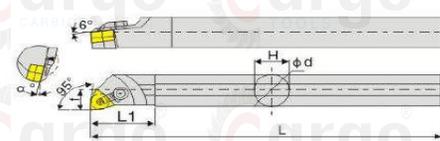
95° MWLNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MW LNR/L 16X16 H06	16	16	100	23	16	20	MW 0603	CTM513	HL1814	ML0625	L2.0.L3.0
MW LNR/L 20X20 H06	20	20	125	23	20	25					
MW LNR/L 25X25 H06	25	25	150	23	25	32					
MW LNR/L 16X16 H08	16	16	100	25	16	20	MW 0803	CTM617	HL1814	ML0625	L2.5.L3.0
MW LNR/L 20X20 H08	20	20	125	25	20	25					
MW LNR/L 25X25 H08	25	25	150	25	25	32					

WNMG Internal Tool Holder

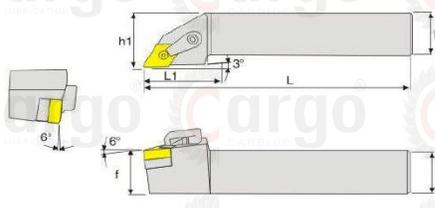
MWLNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S16 MWLNR/L M06	22	16	11	160	15	18	MW 0603	CTM513	HL1814	ML0625	L2.0.L3.0
S20 MWLNR/L M06	25	20	13	180	19	15					
S25 MWLNR/L M06	32	25	17	200	24	12					
S32 MWLNR/L M06	40	32	22	250	30	17					
S20 MWLNR/L M08	23	20	13	180	19	15	MW 0803	CTM617	HL1814	ML0625	L2.5.L3.0
S25 MWLNR/L M08	30	25	17	200	24	12					
S32 MWLNR/L M08	38	32	22	250	30	17					

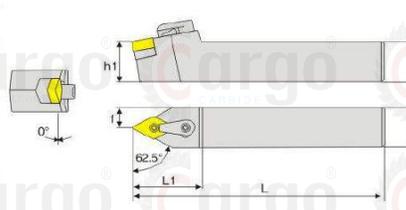
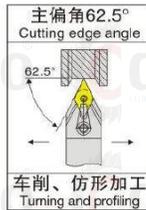
DNMG External Tool Holder

93° MDJNR/L



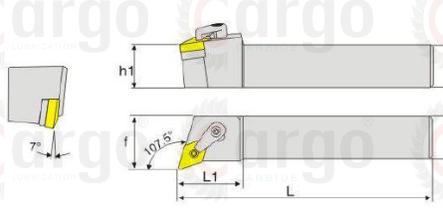
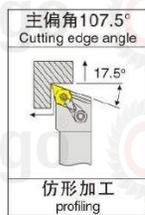
DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MDJNR/L 16X16 H11	16	16	100	23	16	20	MD1103	CTM513	HL1814	ML0625	L2.0,L3.0
MDJNR/L 20X20 H11	20	20	125	23	20	25					
MDJNR/L 25X25 H11	25	25	150	23	25	32					
MDLNR/L 20X20 H15	20	20	125	25	20	25	MD1506	CTM619	HL2114		
MDLNR/L 25X25 H15	25	25	150	25	25	32					

62.5° MDPNN



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MDPNN 16X16 H11	16	16	100	23	16	20	MD1103	CTM513	HL1814	ML0625	L2.0,L3.0
MDPNN 20X20 H11	20	20	125	23	20	25					
MDPNN 25X25 H11	25	25	150	23	25	32					
MDPNN 20X20 H15	20	20	125	25	20	25	MD1506	CTM619	HL2114		
MDPNN 25X25 H15	25	25	150	25	25	32					

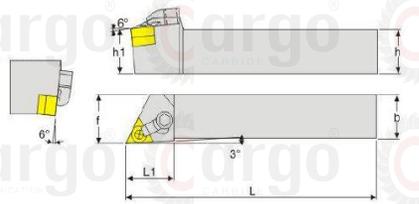
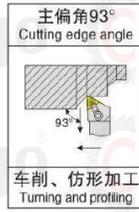
107°30' MDQNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MDQNR/L 20X20 H15	20	20	125	36	20	25	MD1506	CTM619	HL2114	ML0625	L2.0,L3.0
MDQNR/L 25X25 H15	25	25	150	36	25	32					

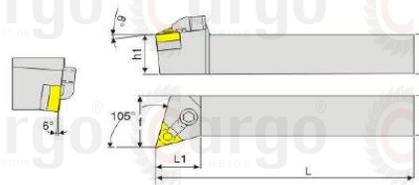
TNMG External Tool Holder

93° MTJNR/L



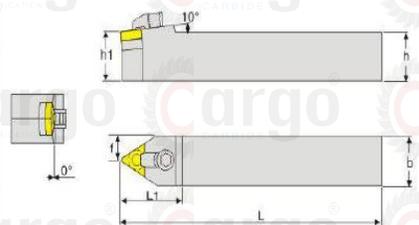
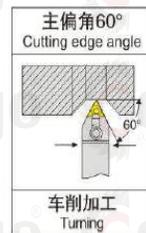
DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MTJNR/L 16X16 H16	16	16	100	28	16	20	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
MTJNR/L 20X20 H16	20	20	125	28	20	25					
MTJNR/L 25X25 H16	25	25	150	28	25	32					
MTJNR/L 25X25 M22	16	16	100	32	16	20	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0

15° MTQNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MTQNR/L 16X16 H16	16	16	100	28	16	20	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
MTQNR/L 20X20 H16	20	20	125	28	20	25					
MTQNR/L 25X25 H16	25	25	150	28	25	32					
MTQNR/L 25X25 M22	16	16	100	32	16	20	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0

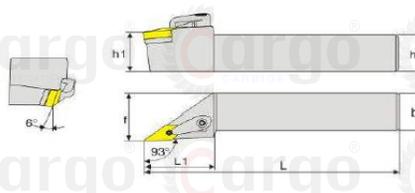
60° MTENN



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MTENN 20X20 H16	20	20	125	35	20	10	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
MTENN 25X25 H16	25	25	150	35	25	12.5					
MTENN 25X25 M22	25	25	150	38	25	12.5	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0

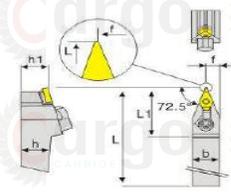
VNMG External Tool Holder

■ 93° MVJNR/L



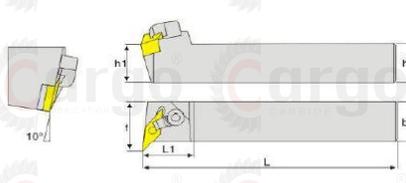
DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MVJNR/L 20X20 H16	20	20	125	36	20	25	MV1603	CTM513	HL2414	ML0625	L2.0,L3.0
MVJNR/L 25X25 H16	25	25	150	42	25	32					

■ 72.5° MVVNN



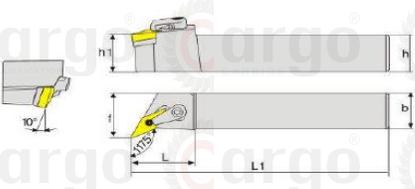
DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MVVNN 20X20 H16	20	20	125	48	20	10	MV1603	CTM513	HL2414	ML0625	L2.0,L3.0
MVVNN 25X25 H16	25	25	150	48	25	12.5					

■ 95° MVUNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MVUNR/L 20X20 H16	20	20	125	21	20	25	MV1603	CTM513	HL2414	ML0625	L2.0,L3.0
MVUNR/L 25X25 H16	25	25	150	21	25	32					

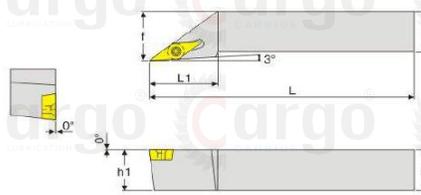
■ 117.5° MVQNR/L



DESIGNATION	Dimension(mm)						Accessories				
	h	b	L	L1	h1	f	SHIM	Shim pin	clamp	screw clamp	Wrench
MVUNR/L 20X20 H16	20	20	125	21	20	25	MV1603	CTM513	HL2414	ML0625	L2.0,L3.0
MVUNR/L 25X25 H16	25	25	150	21	25	32					

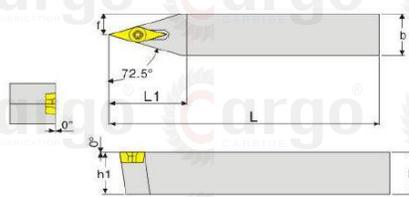
VBMT External Tool Holder

93° SVJBR/L



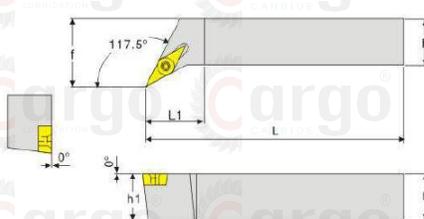
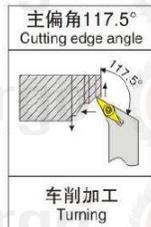
DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SVJBR/L 20X20 H11	20	20	125	32	20	25	M2.5X8	T-15	VBMT 11
SVJBR/L 25X25 H11	25	25	150	32	25	32			
SVJBR/L 20X20 H16	20	20	125	32	20	25	M3.5X9	T-15	VBMT 16
SVJBR/L 25X25 H16	25	25	150	32	25	32			

72.5° SVVBN



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SVVBN 20X20 H11	20	20	125	24	20	10	M2.5X8	T-15	VBMT 11
SVVBN 25X25 H11	25	25	150	24	25	12.5			
SVVBN 20X20 H16	20	20	125	24	20	10	M3.5X9	T-15	VBMT 16
SVVBN 25X25 H16	25	25	150	24	25	12.5			

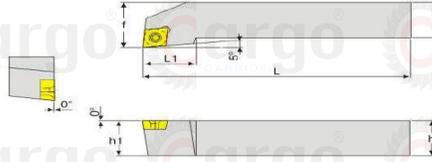
117.5° SVQBR/L



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SVQBR/L 20X20 H11	20	20	125	32	20	25	M2.5X8	T-15	VBMT 11
SVQBR/L 25X25 H11	25	25	150	32	25	32			
SVQBR/L 20X20 H16	20	20	125	32	20	25	M3.5X9	T-15	VBMT 16
SVQBR/L 25X25 H16	25	25	150	32	25	32			

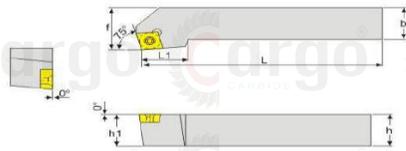
CCMT External Tool Holder

95° SCLCR/L



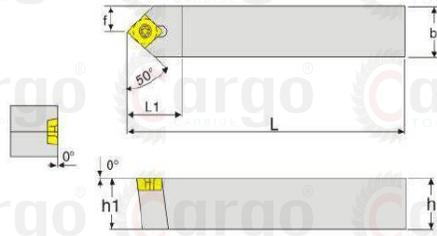
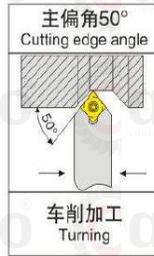
DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SCLCR/L 10X10 09	10	10	70	10	12	12	M4X8	T15	CCMT 09
SCLCR/L 12X12 09	12	12	80	12	16	16			
SCLCR/L 16X16 09	16	16	100	16	20	16			
SCLCR/L 20X20 09	20	20	125	20	25	16			
SCLCR/L 25X25 09	25	25	150	25	32	16			
SCLCR/L 20X20 12	20	20	125	20	25	20	M5X12	T20	CCMT 12
SCLCR/L 25X25 12	25	25	150	25	32	20			
SCLCR/L 32X32 12	32	32	170	32	40	20			

75° SCKCR/L



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SCKCR/L 20X20 09	20	20	125	20	25	16	M4X8	T15	CCMT 09
SCKCR/L 25X25 09	25	25	150	25	32	16			
SCKCR/L 20X20 12	20	20	125	20	25	20	M5X12	T20	CCMT 12
SCKCR/L 25X25 12	25	25	150	25	32	20			

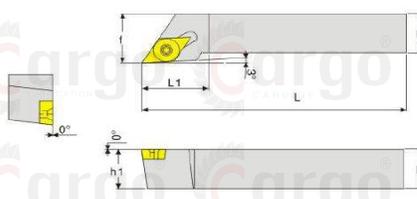
50° SCMCN



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SCMCN 20X20 M09	20	20	125	18	20	10	M4X8	T15	CCMT 09
SCMCN 25X25 M09	25	25	150	18	25	12.5			
SCMCN 20X20 M12	20	20	125	18	20	10	M5X12	T20	CCMT 12
SCMCN 25X25 M12	25	25	150	18	25	12.5			

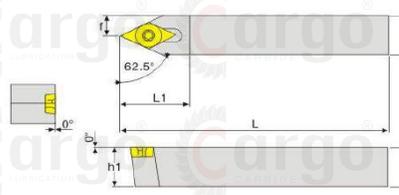
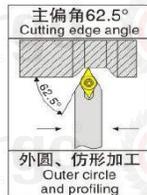
DCMT External Tool Holder

93° SDJCR/L



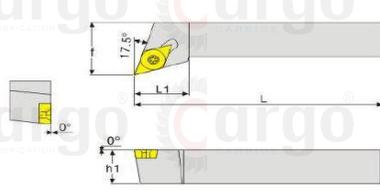
DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SDJCR/L 10X10 07	10	10	80	12	10	14	M2.5X6	T8	DCMT 07
SDJCR/L 12X12 07	12	12	80	16	12	14			
SDJCR/L 16X16 07	16	16	100	20	16	18			
SDJCR/L 20X20 11	20	20	125	20	20	24	M4X8	T15	DCMT 11
SDJCR/L 25X25 11	25	25	150	23	25	29			

62.5° SDNCN



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SDNCN 10X10 07	10	10	80	14	10	5	M2.5X6	T8	DCMT 07
SDNCN 12X12 07	12	12	80	14	12	6			
SDNCN 16X16 11	16	16	100	21	12	6			
SDNCN 20X20 11	20	20	125	21	20	10	M4X8	T15	DCMT 11
SDNCN 25X25 11	25	25	150	21	25	12.5			

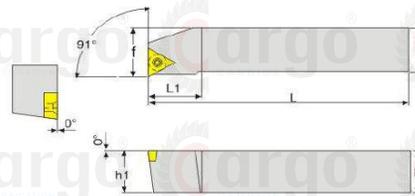
107.5° SDQCR/L



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SDJCR/L 10X10 07	10	10	100	12.5	10	12	M2.5X6	T8	DCMT 07
SDJCR/L 12X12 07	12	12	100	13	12	16			
SDJCR/L 16X16 11	16	16	100	14	16	20			
SDJCR/L 20X20 11	20	20	125	16	20	25	M4X8	T15	DCMT 11
SDJCR/L 25X25 11	25	25	150	22	25	32			

TCMT External Tool Holder

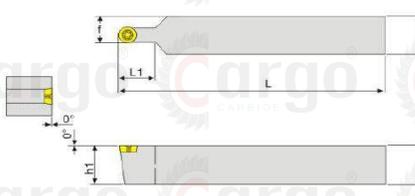
91° STFCR/L



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
STFCR/L 12X12 M09	12	12	80	12	16	14	M2.2X6	T6	TCMT 09
STFCR/L 12X12 M11	12	12	80	12	16	14	M2.5X6	T8	TCMT 11
STFCR/L 16X16 M11	16	16	100	16	20	14		T8	
STFCR/L 20X20 16	20	20	125	20	25	22	M4X9	T15	TCMT 16
STFCR/L 25X25 16	25	25	150	25	32	22		T15	

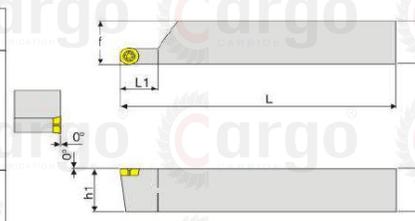
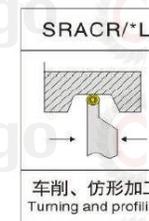
ROUND INSERT External Tool Holder

SRDCN



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SRDCN 20X20 M10	20	20	125	20	15	20.3	M4X10	T15	RPMT 10
SRDCN 25X25 M10	25	25	150	25	17.5	20.3			

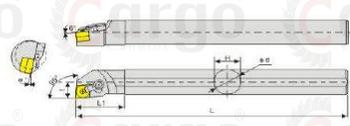
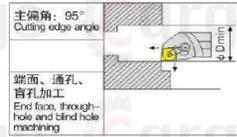
SRACR/L



DESIGNATION	Dimension(mm)						Accessories		INSERT SIZE
	h	b	L	L1	h1	f	SCREW	WRENCH	
SRDCN 20X20 M10	20	20	125	20	20	20.3	M4X10	T15	RPMT 10
SRDCN 25X25 M10	25	25	150	20	25	25.4			

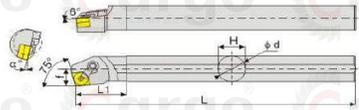
CNMG Internal Tool Holder

■ MCLNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	L1	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S20 MCLNR/L M12	23	20	45	180	19	15	MC1204	CTM613	HL 1810	ML0620	L2.5,L3.0
S25 MCLNR/L M12	30	25	45	200	24	12					
S32 MCLNR/L M12	38	32	50	250	30	17		CTM617	HL1814	M0825	
S40MCLNR/L M12	47	40	55	300	38	15					

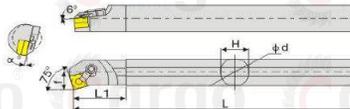
■ MCKNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	L1	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S20 MCKNR/L M12	23	20	45	180	19	15	MC1204	CTM613	HL 1810	ML0620	L2.5,L3.0
S25 MCKNR/L M12	30	25	45	200	24	12					
S32 MCKNR/L M12	38	32	50	250	30	17		CTM617	HL1814	M0825	
S40 MCKNR/L M12	47	40	55	300	38	15					

SNMG Internal Tool Holder

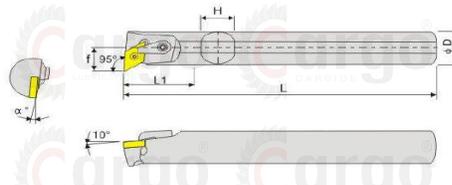
■ MSKNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	L1	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S20 MSKNR/L M12	23	20	40	180	19	15	MS1204	CTM613	HL 1810	ML0620	L2.5,L3.0
S25 MSKNR/L M12	30	25	45	200	24	12					
S32 MSKNR/L M12	38	32	50	250	30	17		CTM617	HL1814	M0825	
S40 MSKNR/L M12	47	40	55	300	38	15					

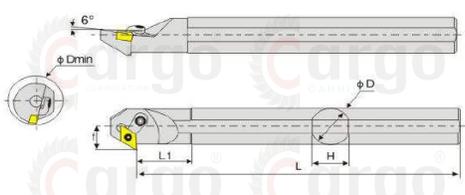
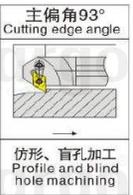
DNMG Internal Tool Holder

MDUNR/L



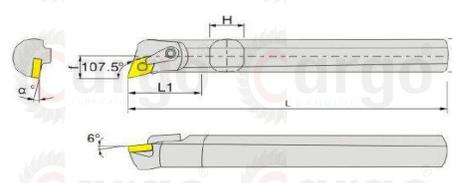
DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	L1	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MDUNR/L M15	32	25	45	200	24	12	M1506	CTM619	HL2114	ML0625	L2.5,L3.0
S32 MDUNR/L M15	40	32	50	250	30	17					
S40 MDUNR/L M15	50	40	60	300	38	15					

MDZNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	L1	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MDZNR/L M15	32	25	45	200	24	12	M1506	CTM619	HL2114	ML0625	L2.5,L3.0
S32 MDZNR/L M15	40	32	50	250	30	17					
S40 MDZNR/L M15	50	40	60	300	38	15					

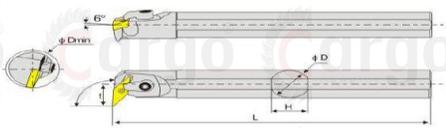
MDQNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	L1	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MDQNR/L M15	32	25	45	200	24	12	M1506	CTM619	HL2114	ML0625	L2.5,L3.0
S32 MDQNR/L M15	40	32	50	250	30	17					
S40 MDQNR/L M15	50	40	60	300	38	15					

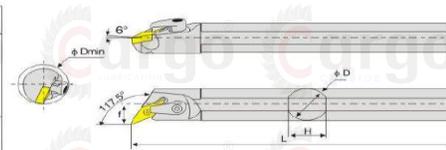
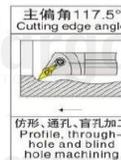
VNMG Internal Tool Holder

■ MVUNR/L



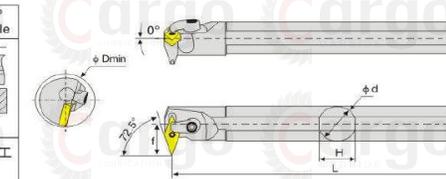
DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MVUNR/L M16	36	25	20	200	24	12	MV1603	CTM513	HL2414	ML0625	L2.5,L3.0
S32 MVUNR/L M16	42	32	22	250	30	17					
S40 MVUNR/L M16	50	40	27	300	38	15					

■ MVQNR/L



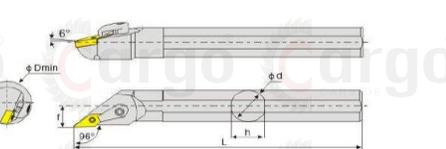
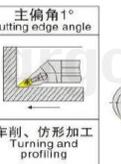
DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MVUNR/L M16	36	25	17	200	24	12	MV1603	CTM513	HL2414	ML0625	L2.5,L3.0
S32 MVUNR/L M16	42	32	23	250	30	17					
S40 MVUNR/L M16	50	40	27	300	38	15					

■ MWVNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MVVNR/L M16	40	25	26	200	24	12	MV1603	CTM513	HL2414	ML0625	L2.5,L3.0
S32 MVVNR/L M16	48	32	30	250	30	17					
S40 MVVNR/L M16	50	40	38	300	38	15					

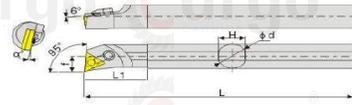
■ MVXNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S25 MVXNR/L M16	32	25	17	200	24	12	MV1603	CTM513	HL2414	ML0625	L2.5,L3.0
S32 MVXNR/L M16	42	32	23	250	30	17					
S40 MVXNR/L M16	50	40	27	300	38	15					

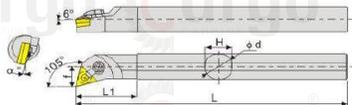
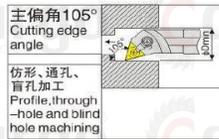
TNMG Internal Tool Holder

■ MTUNR/L



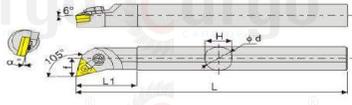
DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S20 MTUNR/L M16	25	20	13	180	13	15	MT1603	CTM510	HL1810	ML0620	L2.0,L2.5
S25 MTUNR/L M16	32	25	17	200	24	12					
S32 MTUNR/L M16	41	32	22.5	250	30	17					
S40 MTUNR/L M16	50	40	26.5	300	38	15					

■ MTQNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S20 MTQNR/L M16	25	20	13	180	13	15	MT1603	CTM510	HL1810	ML0620	L2.0,L2.5
S25 MTQNR/L M16	32	25	17	200	24	12					
S32 MTQNR/L M16	41	32	22.5	250	30	17					
S40 MTQNR/L M16	50	40	26.5	300	38	15					

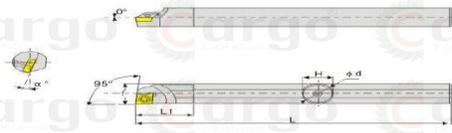
■ MTWNR/L



DESIGNATION	Dimension(mm)						Accessories				
	DMIN	Ød	f	L	H	α°	SHIM	Shim pin	clamp	screw clamp	Wrench
S20 MTQNR/L M16	27	20	13	180	19	15	MT1603	CTM510	HL1810	ML0620	L2.0,L2.5
S25 MTQNR/L M16	34	25	17	200	24	12					
S32 MTQNR/L M16	42	32	20	250	30	17					

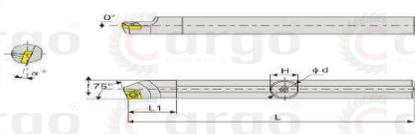
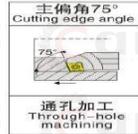
CCMT Internal Tool Holder

■SCLCL/R



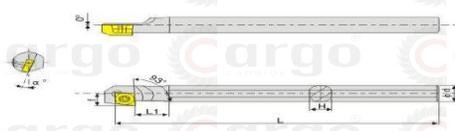
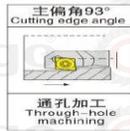
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S08 SCLCR/L 06	10	8	5.5	125	7	13	CCMT 06	M2.5 X 6	T-8
S10 SCLCR/L 06	13	10	7	125	9	12			
S12 SCLCR/L 06	16	12	9	150	11	10			
S12 SCLCR/L 09	16	12	9	150	11	12	CCMT 09	M3.5 X 9	T-15
S16 SCLCR/L 09	20	16	11	160	15	10			
S20 SCLCR/L 09	24	20	13	180	19	8			
S25 SCLCR/L 09	26	25	17	200	24	6	CCMT 12	M5 X 12	T-20
S32 SCLCR/L 09	32	32	22	250	30	4			
S25 SCLCR/L 12	26	25	17	200	24	8			
S32 SCLCR/L 12	33	32	22	250	30	6	CCMT 12	M5 X 12	T-20
S40 SCLCR/L 12	41	40	27	300	38	4			

■SCKCL/R



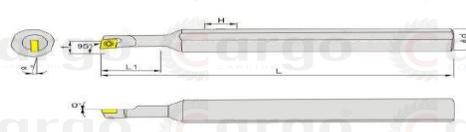
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S08 SCKCR/L 06	10	8	5.5	125	7	13	CCMT 06	M2.5 X 6	T-8
S10 SCKCR/L 06	13	10	7	125	9	12			
S12 SCKCR/L 06	16	12	5.5	150	11	10			
S12 SCKCR/L 09	16	12	9	150	11	12	CCMT 09	M3.5 X 9	T-15
S16 SCKCR/L 09	20	16	11	160	15	10			
S20 SCKCR/L 09	24	20	13	180	19	8			
S25 SCKCR/L 09	26	25	17	200	24	6	CCMT 12	M5 X 12	T-20
S32 SCKCR/L 09	32	32	22	250	30	4			
S25 SCKCR/L 12	26	25	17	200	24	8			
S32 SCKCR/L 12	33	32	22	250	30	6	CCMT 12	M5 X 12	T-20
S40 SCKCR/L 12	41	40	27	300	38	4			

■SCZCL/R



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S08 SCZCR/L 06	10	8	6.5	125	7	13	CCMT 06	M2.5 X 6	T-8
S10 SCZCR/L 06	13	10	7.5	125	9	12			
S12 SCZCR/L 06	16	12	8.5	150	11	10			
S12 SCZCR/L 09	16	12	9	150	11	12	CCMT 09	M3.5 X 9	T-15
S16 SCZCR/L 09	20	16	11	160	15	10			
S20 SCZCR/L 09	24	20	13	180	19	8			
S25 SCZCR/L 09	26	25	17	200	24	6	CCMT 12	M5 X 12	T-20
S32 SCZCR/L 09	32	32	22	250	30	4			

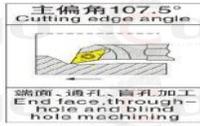
■SCLCL/R (STEP BORING TOOL)



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	L1	α°		SCREW	WRENCH
S08/16 SCLCR/L 06	11	16	5.5	125	15	13	CCMT 06	M2.5 X 6	T-8
S10/16 SCLCR/L 06	12	16	6	125	15	12			
S12/16 SCLCR/L 06	14	16	7	150	15	10			

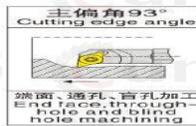
DCMT Internal Tool Holder

-SDQCR/L



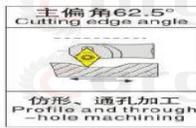
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	D _{MIN}	D _d	f	L	H	α°		SCREW	WRENCH
S10 SDQCR/L M07	13	10	7	125	9	10	DCMT 07	M2.5X6	T-8
S12 SDQCR/L M07	16	12	9	150	11	8			
S16 SDQCR/L M07	20	16	10.5	180	11	6			
S20 SDQCR/L M11	25	20	13	180	19	6	DCMT 11	M3.5 X 10	T-15
S25 SDQCR/L M11	32	25	16	200	24	4			
S32 SDQCR/L M11	39	32	20	250	30	4			

-SDUCR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	D _{MIN}	D _d	f	L	H	α°		SCREW	WRENCH
S10 SDUCR/L M07	15	10	8	125	9	10	DCMT 07	M2.5X6	T-8
S12 SDUCR/L M07	17	12	9	150	11	8			
S16 SDUCR/L M07	22	16	10.5	180	11	6			
S20 SDUCR/L M11	23	20	13	180	19	6	DCMT 11	M 3.5 X 10	T-15
S25 SDUCR/L M11	29	25	16	200	24	4			
S32 SDUCR/L M11	38	32	20	250	30	4			
S40 SDUCR/L M11	45	40	25	300	38	2			
S50 SDUCR/L M11	60	50	31	350	48	0			

-SDWCR/L



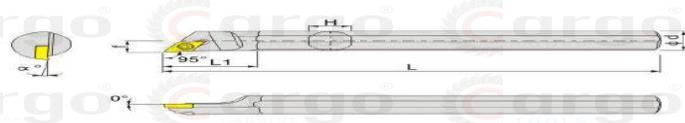
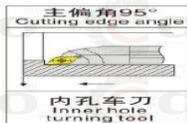
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	D _{MIN}	D _d	f	L	H	α°		SCREW	WRENCH
S12 SDW CR/L M07	17	12	10.5	150	11	10	DCMT 07	M2.5X6	T-8
S16 SDW CR/L M07	22	16	12.5	180	15	8			
S20 SDW CR/L M11	23	20	14.5	180	18	6			
S25 SW UCR/L M11	29	25	17	200	23	4	DCMT 11	M3.5 X 10	T-15
S32 SDW CR/L M11	38	32	22	250	30	2			

-SDZCR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	D _{MIN}	D _d	f	L	H	α°		SCREW	WRENCH
S10 SDZCR/L M07	15	10	8	125	9	12	DCMT 07	M2.5X6	T-8
S12 SDZCR/L M07	17	12	9	150	11	10			
S16 SDZCR/L M07	22	16	11	180	15	8			
S20 SDZCR/L M11	23	20	14	180	19	8	DCMT 11	M3.5X9	T-15
S25 SDZCR/L M11	29	25	16.5	200	24	6			
S32 SDZCR/L M11	38	32	20	250	30	4			

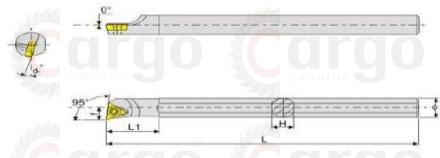
-SDXCR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	D _{MIN}	D _d	f	L	L1	α°		SCREW	WRENCH
S10 SDXCR/L M07	13	10	8	125	25	10	DCMT 07	M2.5X6	T-8
S12 SDXCR/L M07	16	12	9	150	30	8			
S16 SDXCR/L M07	20	16	10.5	180	30	6			
S20 SDXCR/L M11	25	20	13	180	40	6	DCMT 11	M3.5X9	T-15
S25 SDXCR/L M11	32	25	16	200	40	4			
S32 SDXCR/L M11	40	32	20	250	45	4			

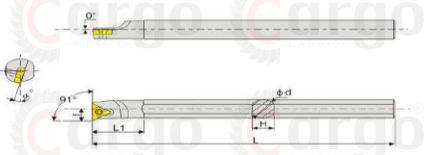
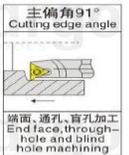
TCMT Internal Tool Holder

STUCR/L



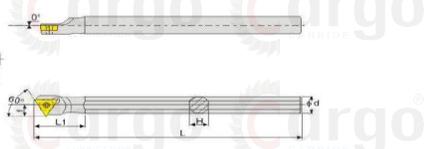
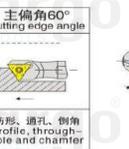
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S08 STUCR/L M09	9	8	5.5	125	7	15	TCMT 09	M2.2X5	T-6
S10 STUCR/L M09	11	10	6.5	125	9	12			
S10 STUCR/L M11	11	10	6	125	9	12			
S12 STUCR/L M11	13	12	7	150	11	10	TCMT 11	M2.5X6	T-8
S16 STUCR/L M11	17	16	9	160	15	8			
S20 STUCR/L M11	21	20	11	180	19	6			
S20 STUCR/L M16	24	20	13	180	19	6	TCMT 16	M3.5X9	T-15
S25 STUCR/L M16	26	25	14	200	24	6			
S32 STUCR/L M16	33	32	17.5	250	32	4			
S40 STUCR/L M16	42	40	23.5	300	38	4			
S50 STUCR/L M16	51	50	26.5	350	48	4			

STFCR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S08 STFCR/L M09	9	8	5.5	125	7	15	TCMT 09	M2.2X5	T-6
S10 STFCR/L M09	11	10	6.5	125	9	12			
S12 STFCR/L M11	13	12	7	150	11	10			
S16 STFCR/L M11	17	16	9	160	15	8	TCMT 11	M 2.5X6	T-8
S20 STFCR/L M11	21	20	11	180	19	6			
S20 STFCR/L M16	24	20	13	180	19	6			
S25 STFCR/L M16	26	25	14	200	24	6	TCMT 16	M3.5 X 9	T-15
S32 STFCR/L M16	33	32	17.5	250	32	4			
S40 STFCR/L M16	43	40	23.5	300	38	4			
S50 STFCR/L M16	51	50	26.5	350	48	4			

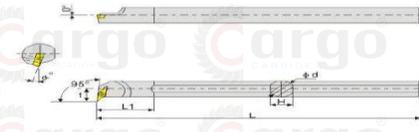
STWCR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S08 STWCR/L M09	11	8	5.5	125	7	12	TCMT 09	M2.2X5	T-6
S10 STWCR/L M09	14	10	8	125	9	10			
S12 STWCR/L M11	16	12	9	150	11	8	TCMT 11	M 2.5X6	T-8
S16 STWCR/L M11	20	16	11	160	15	6			
S20 STWCR/L M11	25	20	13	180	19	4			
S25 STWCR/L M16	32	25	17	200	24	6	TCMT 16	M4X10	T15

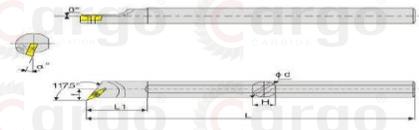
VBMT Internal Tool Holder

■SVJUR/L



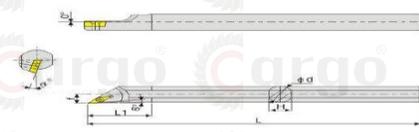
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S10 SVJUR M11	12	10	6	125	9	13	VBMT 11	M 2.5X6	T-8
S12 SVJUR M11	14	12	7	150	11	10			
S16 SVJUR M11	22	16	9.5	180	15	8			
S20 SVJUR M11	27	20	14	180	19	10			
S25 SVJUR M16	35	25	19	200	24	8	VBMT 16	M4X10	T-15
S32 SVJUR M16	42	32	22	250	30	10			
S40 SVJUR M16	51	40	27	300	38	8			

■SVQBR/L



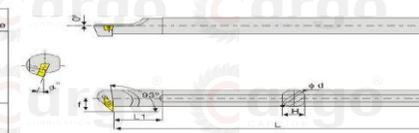
DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S16 SVQBR M11	22	16	11.5	180	15	10	VBMT 11	M 2.5X6	T-8
S20 SVQBR M11	27	20	14	180	18	8			
S16 SVQBR M16	22	16	11.5	180	15	10			
S20 SVQBR M16	27	20	14	180	18	8			
S25 SVQBR M16	32	25	17	200	23	6	VBMT 16	M 3.5X9	T-15
S32 SVQBR M16	41	32	22.5	250	30	8			
S40 SVQBR M16	50	40	27	300	38	6			
S50 SVQBR M16	61	50	32	350	48	4			

■SVXBR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S16 SVXBR M11	19	16	11.5	180	15	10	VBMT 11	M 2.5X6	T-8
S20 SVXBR M11	23	20	14	180	18	8			
S16 SVXBR M16	19	16	11.5	180	15	10			
S20 SVXBR M16	23	20	14	180	18	8			
S25 SVXBR M16	30	25	17	200	23	6	VBMT 16	M 3.5X9	T-15
S32 SVXBR M16	38	32	22.5	250	30	8			
S40 SVXBR M16	47	40	27	300	38	6			
S50 SVXBR M16	60	50	32	350	48	4			

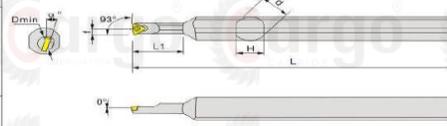
■SVZCR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S16 SVXBR M11	19	16	11.5	180	15	10	VBMT 11	M 2.5X6	T-8
S20 SVXBR M11	24	20	14	180	18	8			
S25 SVXBR M16	33	25	19.5	200	23	6			
S32 SVXBR M16	39	32	23.5	250	30	8	VBMT 16	M 3.5X9	T-15
S40 SVXBR M16	47	40	27	300	38	6			

WBMT Internal Tool Holder

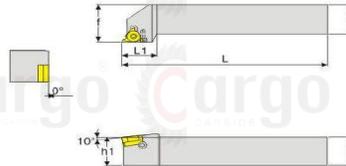
■SWUBR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	Accessories	
	DMIN	Ød	f	L	H	α°		SCREW	WRENCH
S06 SWUBR/L 06	7	6	3.5	100	5.4	15	WBMT 06	M2.2X6	T6
S08-05 SWUBR/L 06	6	8	3	100	7	15			
S10-05 SWUBR/L 06	6	10	3	125	9	15			

Threading Tool Holder

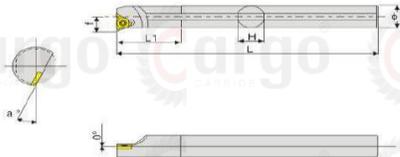
■SER/L



DESIGNATION	Dimension(mm)						SPARE			INSERT SIZE
	h	b	L	f	h1	L1	SHIM	SCREW	WRENCH	
SER/L 12X12 M16	12	12	100	16	12	20	STM1603	M3.5X12	T15	16 ER/IL
SER/L 16X16 M16	16	16	100	20	16	22				
SER/L 20X20 M16	20	20	125	25	20	22				
SER/L 25X25 M16	25	25	150	32	25	22				
SER/L 32X32 M16	32	32	170	40	32	22				

Threading Internal Tool holder

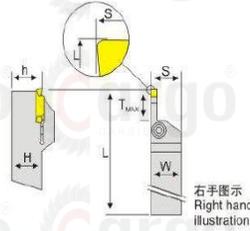
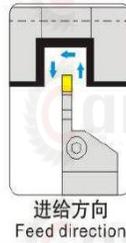
■SINR/L



DESIGNATION	Dimension(mm)						SPARE			INSERT SIZE
	DMIN	Ød	H	L	f	α°	SHIM	SCREW	WRENCH	
SINR 0010 K11	13	10	9	125	7.2	15	-	M2.5X6	T8	11 IR
SINR 0012 K11	15	12	11	150	8.5	15				
SINR/L 0013 M16	16	16	15	150	10.2	17	STM1603	M3.5X12	T15	16 IR/EL
SINR/L 0016 M16	19	16	15	150	11.7	15				
SINR/L 0020 M16	24	20	19	180	13.7	21				
SINR/L 0025 M16	29	25	24	200	16.2	21				
SINR/L 0032 M16	36	32	30	250	19.7	15				
SINR/L 0040 M16	44	40	38	300	23.7	15				
SINR/L 0050 M16	54	50	48	350	28.7	15				

GROOVING HOLDER

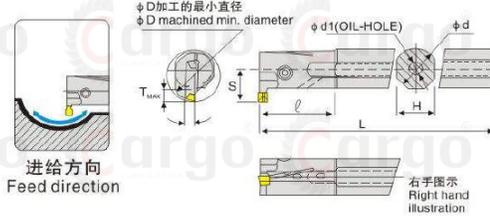
MGHR/L



DESIGNATION	Dimension(mm)					INSERT SIZE	SPARE	
	H=h	W	L	S	T-MAX		SCREW	WRENCH
MGEHR/L 16X16 1.5MM	16	16	100	16.25	Tmax-10/12/15	MGMN 150G	M5X16	L4.0
MGEHR/L 20X20 1.5MM	20	20	125	20.25	Tmax-10/12/15			
MGEHR/L 25X25 1.5MM	25	25	150	25.25	Tmax-10/12/15/18/20/25			
MGEHR/L 12X12 2MM	12	12	100	14.25	Tmax-10/12	MGMN 200G	M6X20	L5.0
MGEHR/L 16X16 2MM	16	16	100	16.25	Tmax-10/12/15			
MGEHR/L 20X20 2MM	20	20	125	20.25	Tmax-10/12/15/18/20			
MGEHR/L 25X25 2MM	25	25	150	25.25	Tmax-10/12/15/18/20/25	MGMN 250M	M5X16	L4.0
MGEHR/L 20X20 2.5MM	20	20	125	20.25	Tmax-10/12/15/18/20			
MGEHR/L 25X25 2.5MM	25	25	150	25.25	Tmax-10/12/15/18/20/25			
MGEHR/L 16X16 3MM	16	16	100	16.25	Tmax-10/12/15	MGMN 300M	M6X25	L5.0
MGEHR/L 20X20 3MM	20	20	125	20.25	Tmax-10/12/15/18/20			
MGEHR/L 25X25 3MM	25	25	150	25.25	Tmax-10/12/15/18/20/25			
MGEHR/L 32X32 3MM	32	32	170	32.4	Tmax-20/25/30	MGMN 400M	M6X25	L5.0
MGEHR/L 20X20 4MM	20	20	125	20.25	Tmax-10/12/15/18/20			
MGEHR/L 25X25 4MM	25	25	150	25.25	Tmax-10/12/15/18/20/25			
MGEHR/L 32X32 4MM	32	32	170	32.4	Tmax-20/25/30	MGMN 500M	M6X25	L5.0
MGEHR/L 20X20 5MM	20	20	125	20.5	Tmax-15/18/20			
MGEHR/L 25X25 5MM	25	25	150	25.5	Tmax-15/18/20/25/30			
MGEHR/L 32X32 5MM	32	32	170	32.4	Tmax-20/25/30	MGMN 600M	M6X25	L5.0
MGEHR/L 20X20 6MM	20	20	125	20.6	Tmax-15/18/20			
MGEHR/L 25X25 6MM	25	25	150	25.6	Tmax-15/18/20/25/30			
MGEHR/L 32X32 6MM	32	32	170	32.6	Tmax-20/25/30/35	MGMN 800M	M6X25	L5.0
MGEHR/L 25X25 8MM	25	25	150	26.1	Tmax-25/30/35			
MGEHR/L 32X32 8MM	32	32	170	33.1	Tmax-30/35			

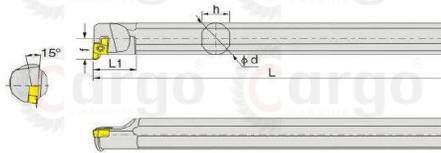
Grooving Internal Tool holder

■MGEHR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	SPARE	
	D	d	L	l	H	S		SCREW	WRENCH
S16 MGIVR/L 1.5	20	16	125	35	15	11.3	MGMN 150G	M5X13	L2.5
S20 MGIVR/L 1.5	25	20	150	45	18	13.1			L4.0
S25 MGIVR/L 1.5	29	25	200	45	23	16.2			L2.5
S16 MGIVR/L 2	20	16	125	35	15	12.4	MGMN 200G	M5X13	L4.0
S20 MGIVR/L 2	25	20	150	45	18	14			L2.5
S25 MGIVR/L 2	29	25	200	45	23	17.2			L4.0
S16 MGIVR/L 2.5	20	16	125	35	15	12.5	MGMN 250M	M5X13	L2.5
S20 MGIVR/L 2.5	25	20	150	45	18	15.1			L4.0
S25 MGIVR/L 2.5	29	25	200	45	23	18.2			L2.5
S20 MGIVR/L 3	25	20	150	45	18	15.6	MGMN 300M	M5X17	L4.0
S25 MGIVR/L 3	31	25	200	45	23	18.9			L2.5
S32 MGIVR/L 3	37	32	250	65	30	21.5			L4.0
S20 MGIVR/L 4	25	20	150	45	18	15.6	MGMN 400M	M5X17	L4.0
S25 MGIVR/L 4	31	25	200	45	23	18.9			L2.5
S32 MGIVR/L 4	37	32	250	65	30	21.5			L4.0
S25 MGIVR/L 5	31	25	200	45	23	19.4	MGMN 500M	M5X17	L4.0
S32 MGIVR/L 5	37	32	250	65	30	21.5			L4.0

■SNGR/L



DESIGNATION	Dimension(mm)						INSERT SIZE	SPARE	
	T-max	d	f	L1	L	H		SCREW	WRENCH
S08 SNGR/L 06	2	8	4.7	15	100	7	6 GR	M2.5X6	T8
S08 SNGR/L 07	2	8	5.8	15	100	7	7 GR		
S10 SNGR/L 07	2	10	6.8	15	125	8	8 GR		
S12 SNGR/L 08	3.5	12	8.6	20	150	11	9 GR		
S16 SNGR/L 08	3.5	16	11.6	20	180	14.8			
S20 SNGR/L 08	3.5	20	13.6	20	200	18.4			