

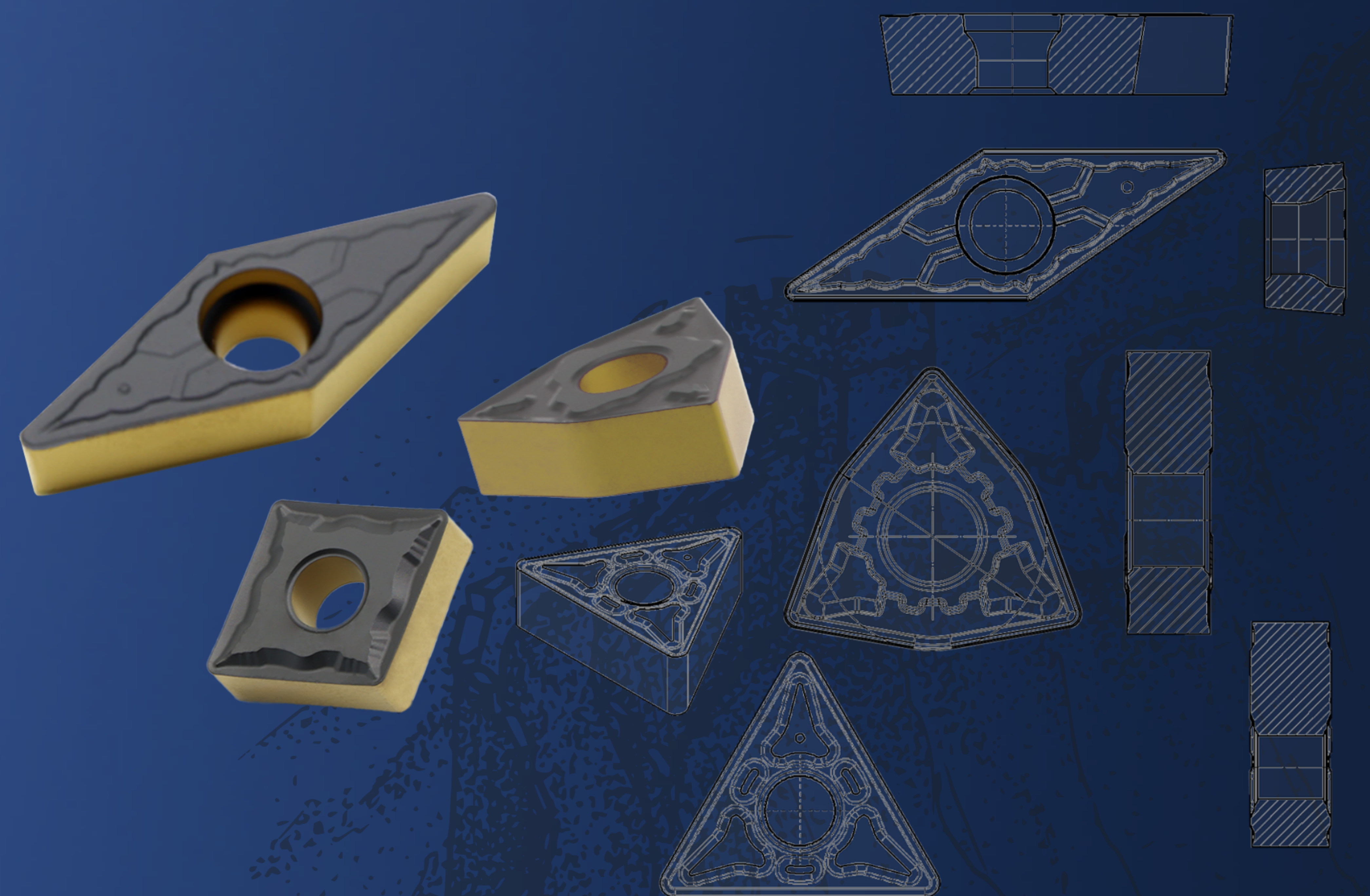
成都长城切削刀具有限责任公司



CHENGDU  
GREATWALL CUTTING TOOLS  
CO.,LTD



# TURNING INSERTS FOR STAINLESS STEEL



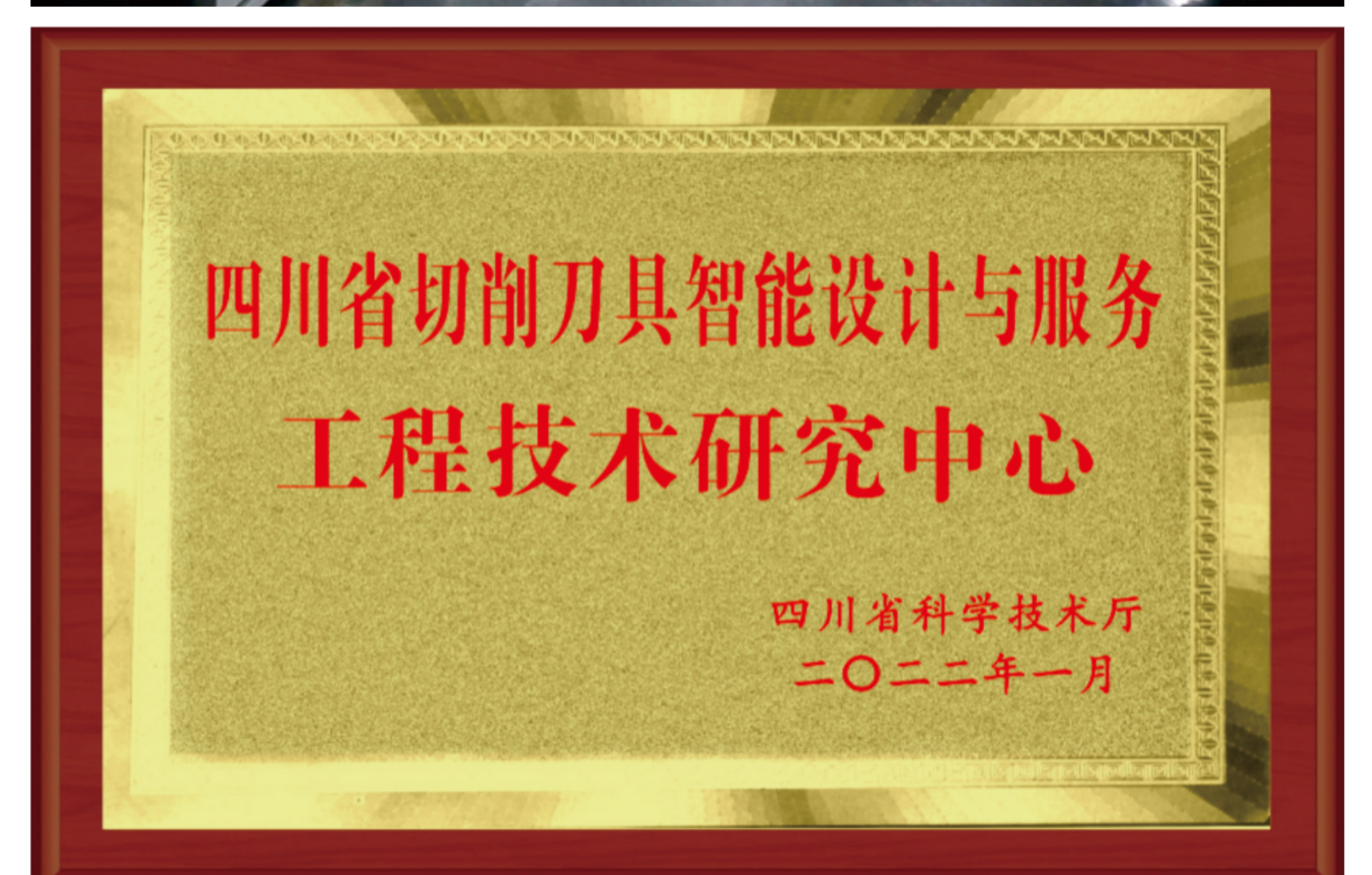




# CHENGDU GREATWALL CUTTING TOOLS CO.,LTD



- Affiliated with China Minmetals Corporation, a Fortune Global 500 company.
- The company boasts two specialized production lines for blades and cutting tools.
- Integrating the research and development of carbide insert and tool materials, structural design, coating technology, as well as testing and analysis.





QUALITY ACCOMPLISHES  
THE FUTURE

# Main Products

The company's main products include indexable CNC inserts, solid carbide cutting tools, and machine-clamped or welded conventional blades. It owns the cutting tool brand "Great Wall," which covers a wide range of machining applications including turning, milling, drilling, reaming, and broaching. The products are renowned for their consistent quality, superior performance, and are extensively applied in industries such as aerospace, defense, automotive manufacturing, wind power generation, and mold making. As a long-term supplier to numerous aerospace enterprises and leading automotive brands, the company holds a prominent position in its sector.

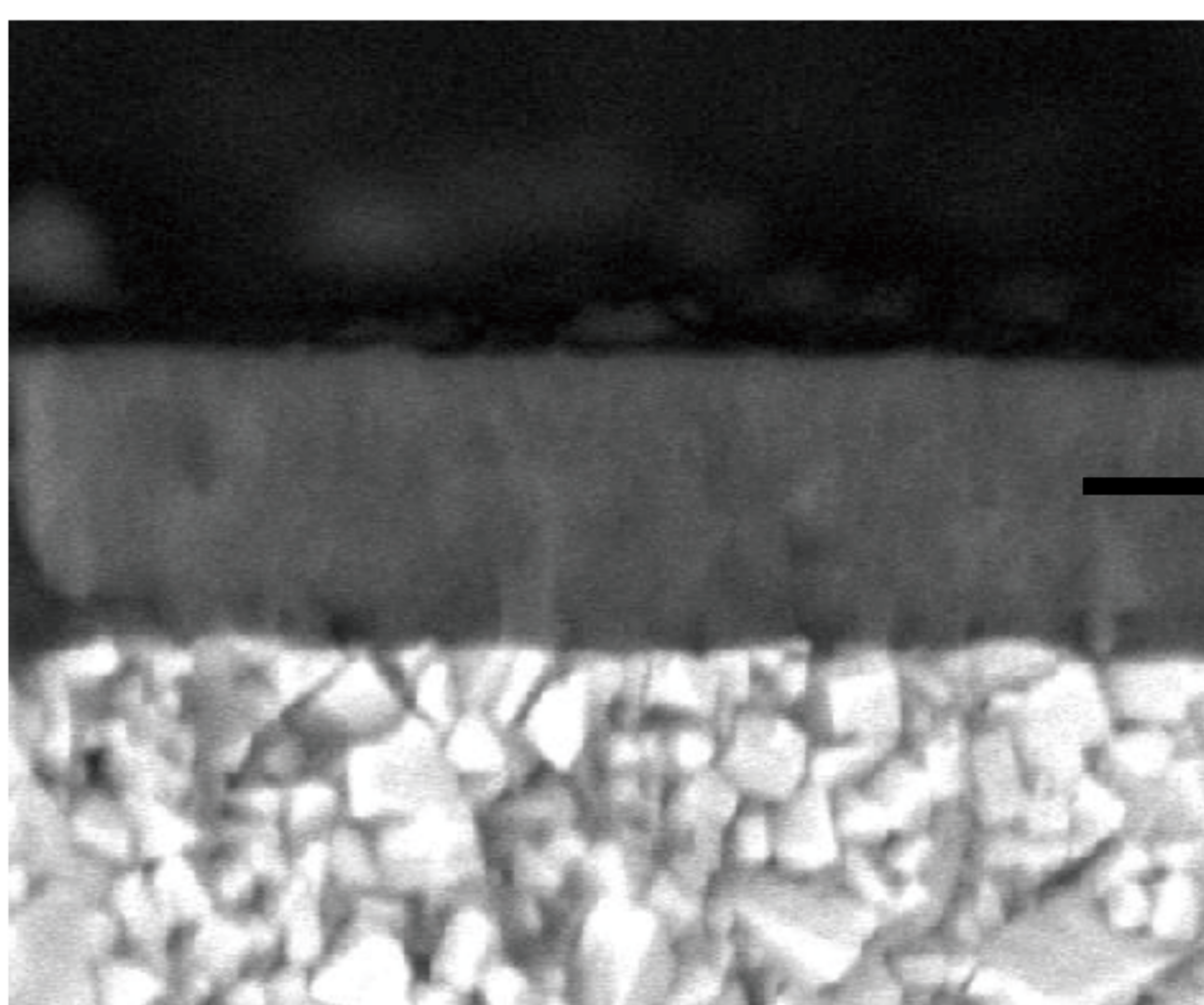
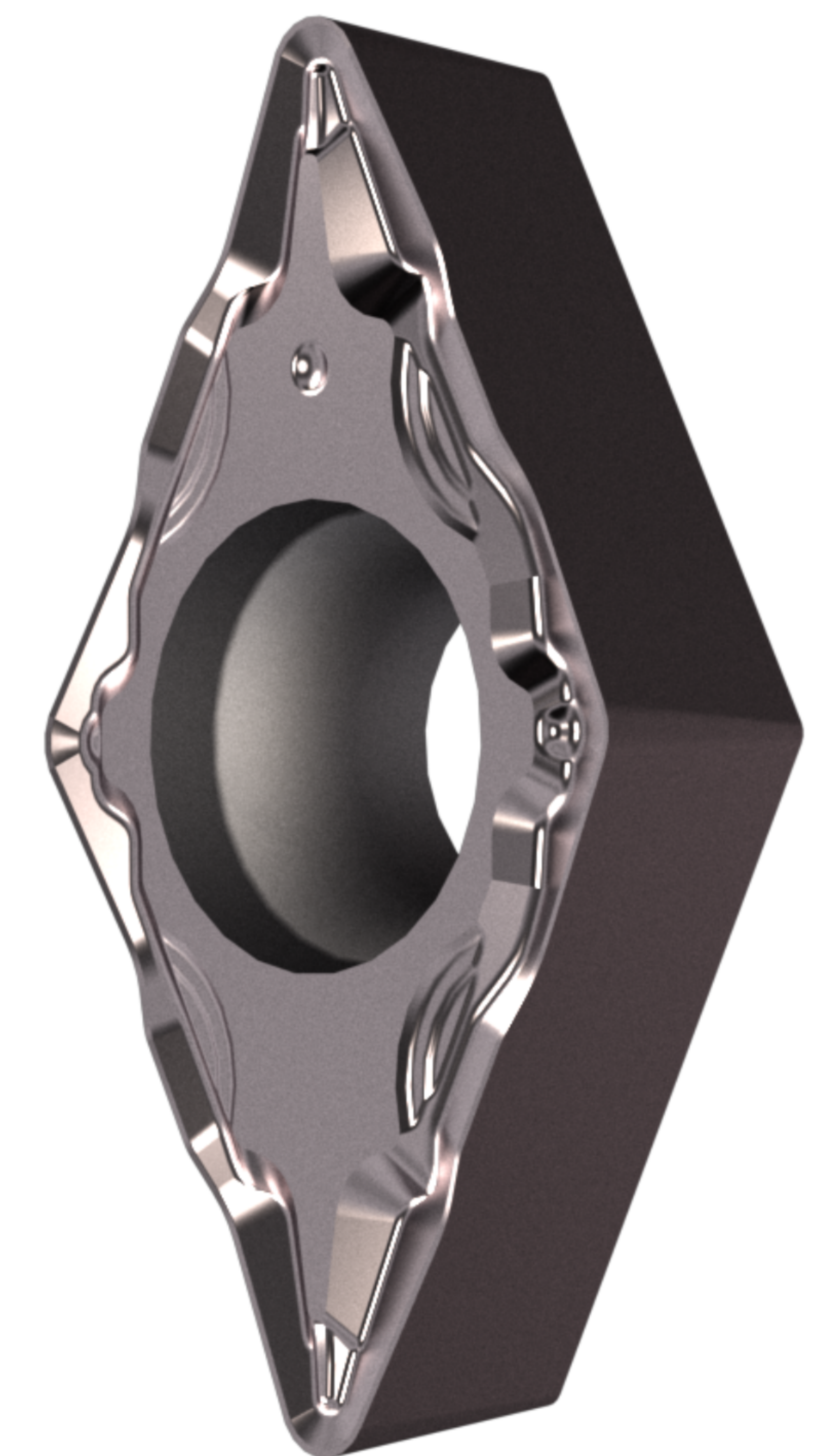




# GRADE INTRODUCTION

## GW2020

- High-hardness substrate paired with a new nano-composite PVD coating process, featuring high wear resistance.
- Combined with a variety of flute geometries, it achieves efficient cutting under multiple working conditions.
- Suitable for continuous and light interrupted turning of stainless steel.

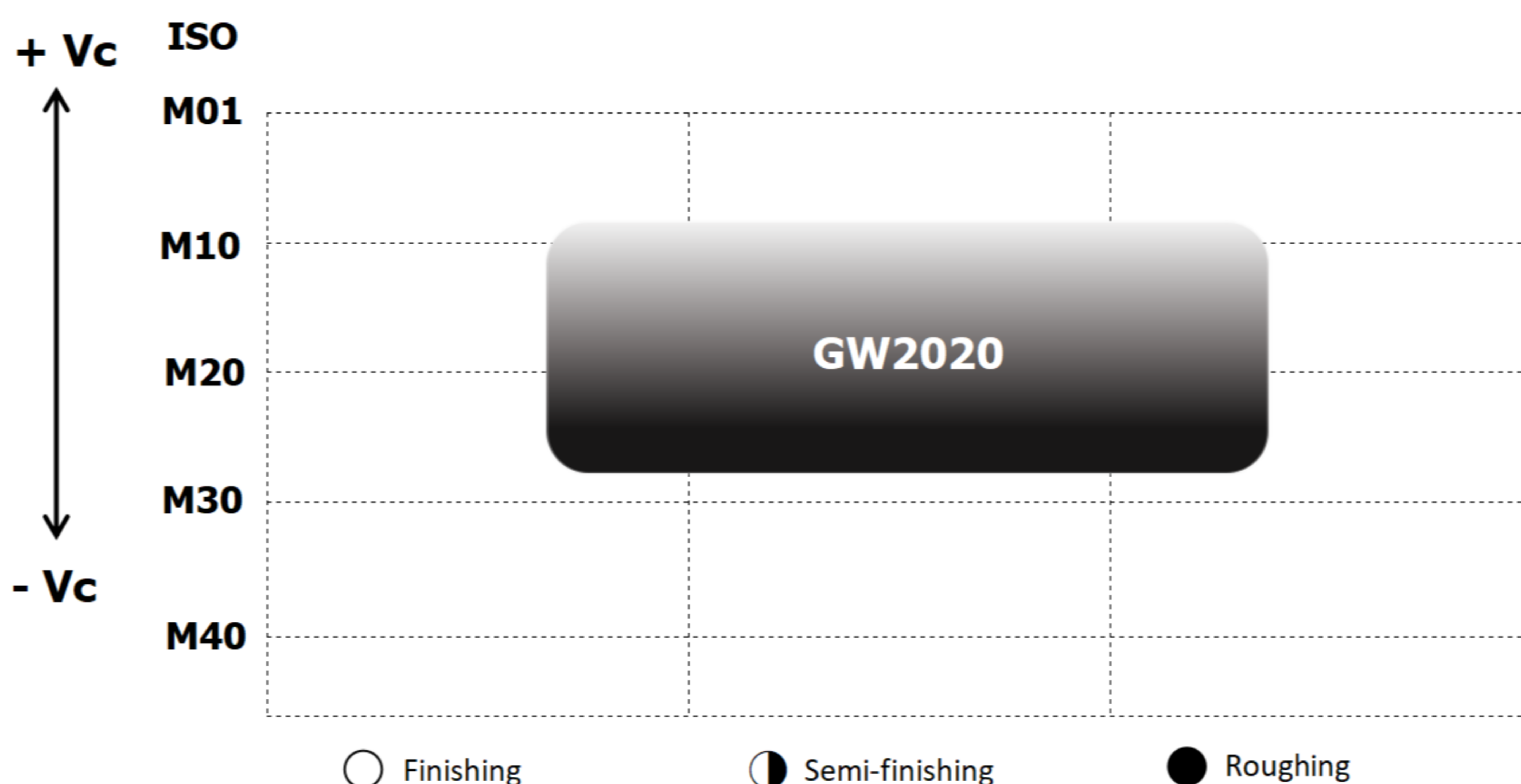


PVD coating

Application range : M20-M30


"Nanstructured multilayer coating, with good wear resistance and high-temperature performance.

Fine-grained, general-purpose substrate.



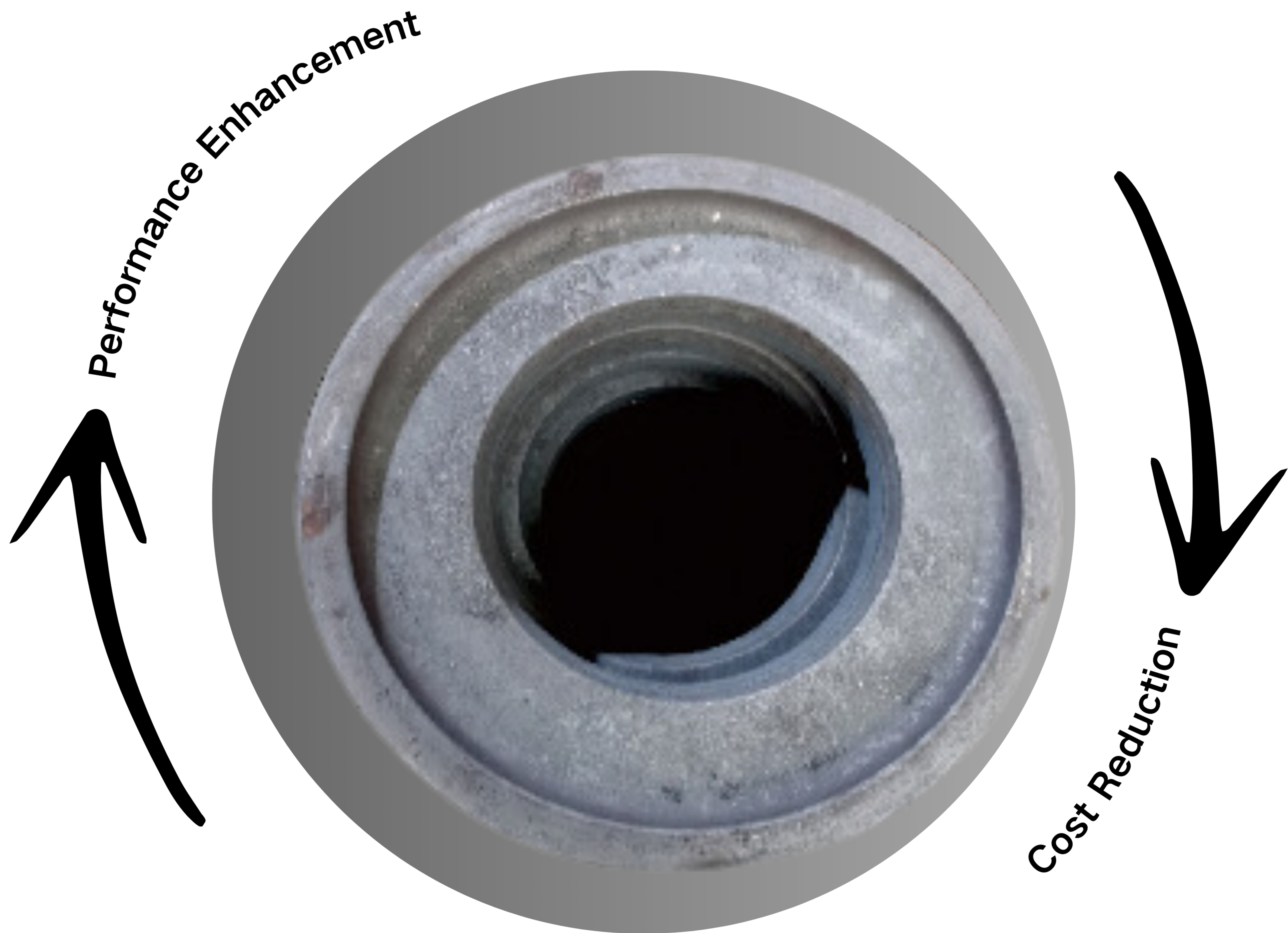


## GROOVE INTRODUCTION

Groove	Illustration	Features	Suggested usage amount	
			Feed rate	Cut depth
MM2		<p>I Double large lead angle design, ensuring the product is sharp with low cutting resistance and excellent anti-adhesion properties, while maintaining reasonable application strength.</p> <p>II Chip control is stable, preventing chip tangling. Within the recommended processing parameters, it can achieve no chip tangling, resulting in a bright workpiece surface.</p> <p>III Suitable for semi-finishing of stainless steel.</p>	0.15-0.20-0.25	0.8-1.2-1.5



# Manufacturing Example I



## Compare

A leading brand in China  
7 pieces

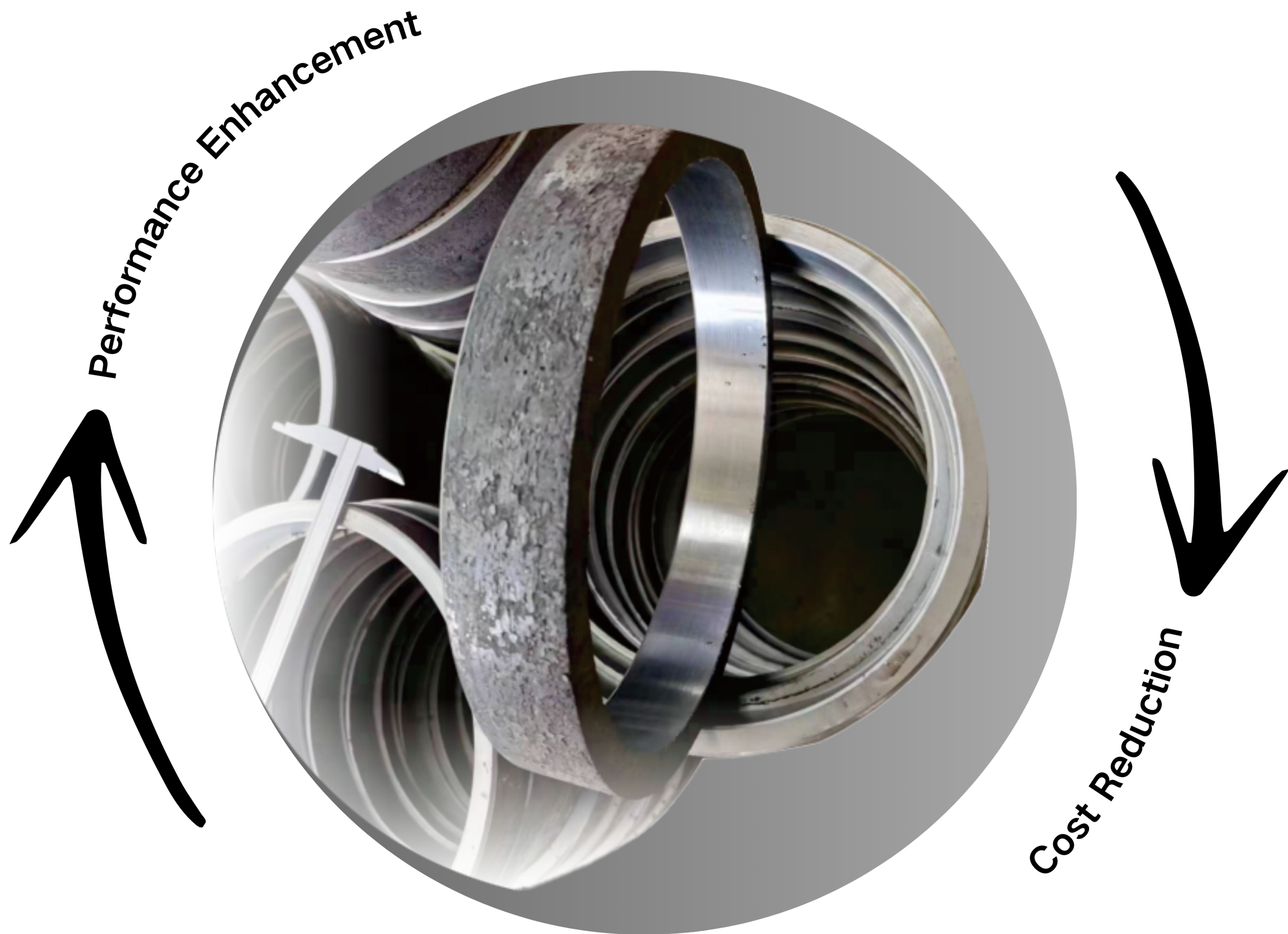
Extended tool life 70%

Great wall  
12 pieces

Workpiece name	316L
Insert Grade	GW2020
Insert Size	WNMGO80408-MM2
Cutting parameters	Vc=104m/min;f=0.2mm;Ap=3mm
Cooling method	Emulsion
Machining method	Continuous \ Interrupted turning



## Manufacturing Example II



### Compare

A leading brand in China  
2 pieces

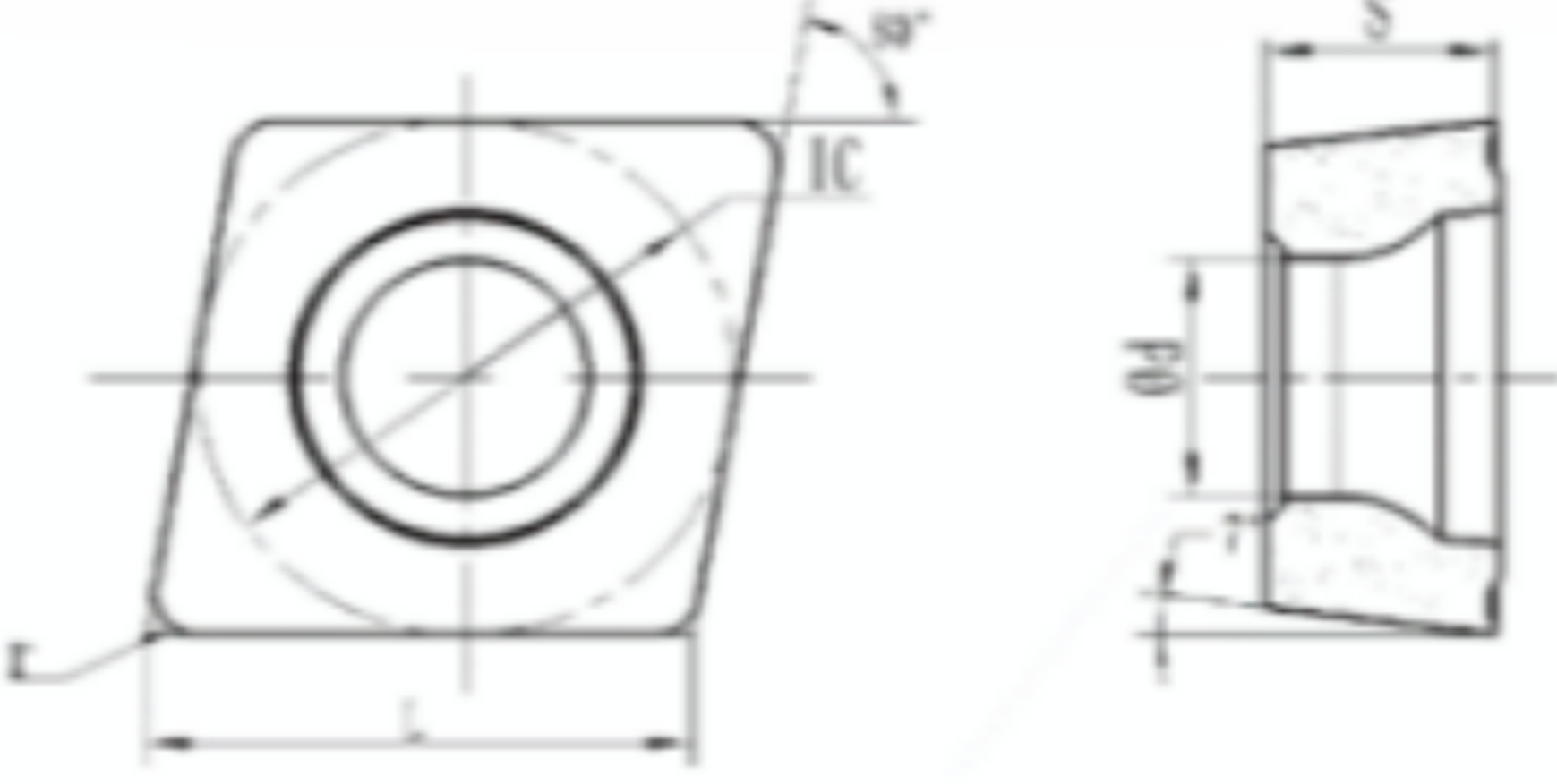
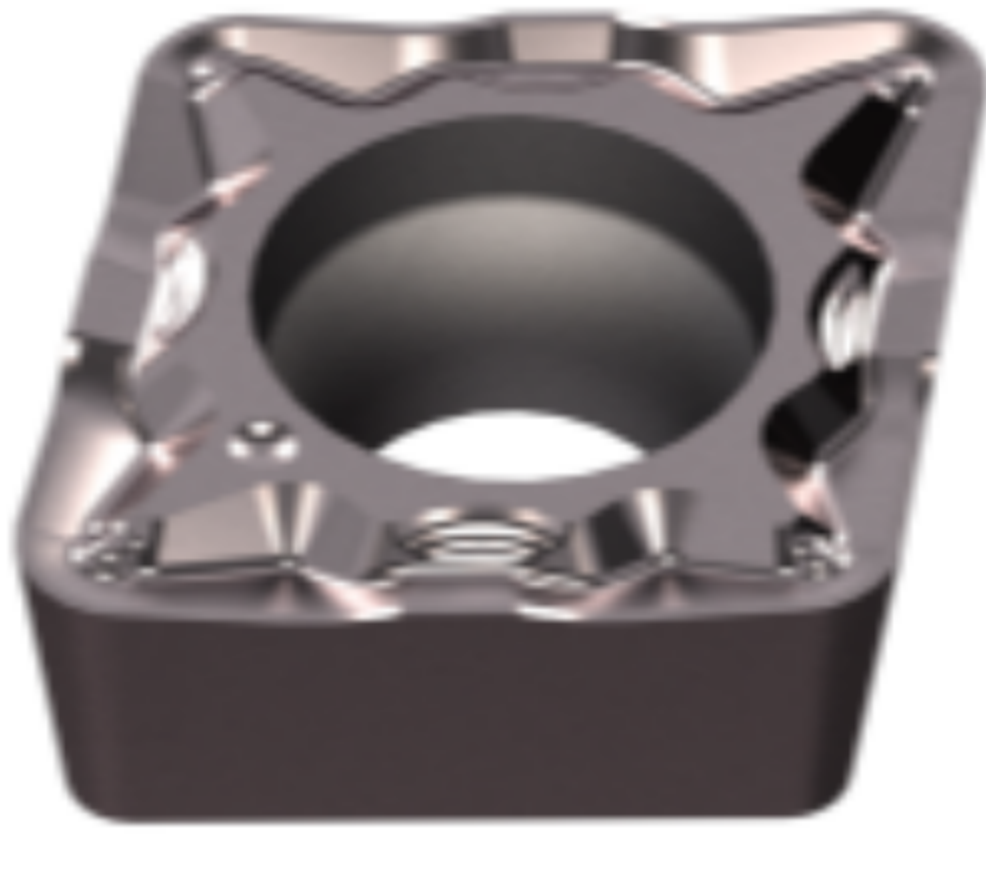
Extended tool life 50%

Great wall  
3 pieces

Workpiece material	9Cr18
Insert Grade	GW2020
Insert Size	WNMGO80408-MM2
Cutting parameters	$V_c=130\text{m/min}; f=0.2\text{mm}; A_p=1.2\text{mm}$
Cooling method	Emulsion
Machining method	Interrupted turning

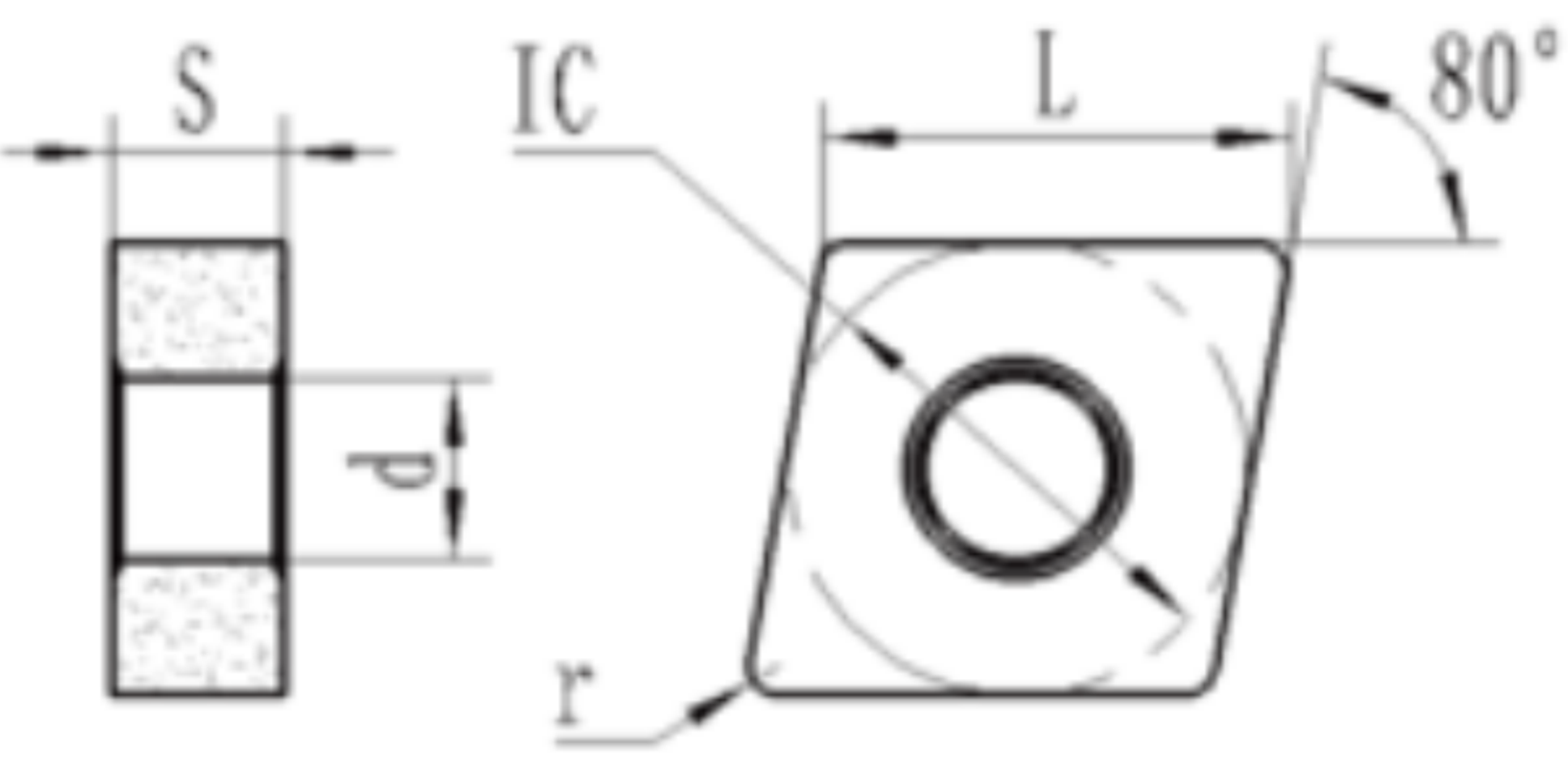
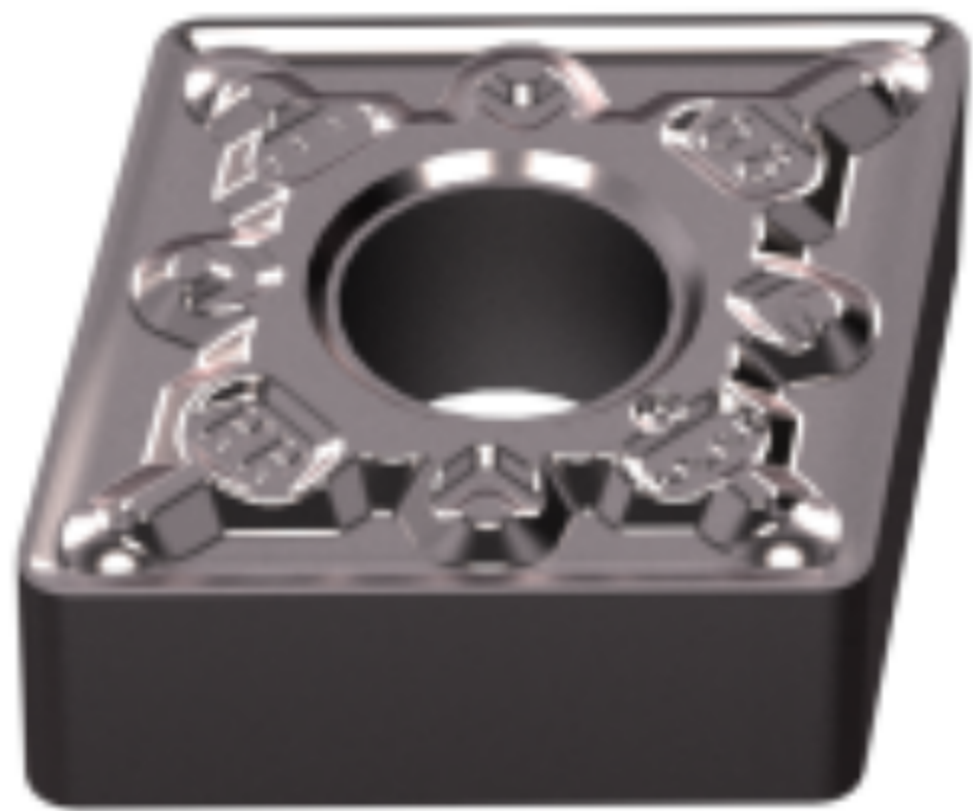


# List of Models

CC□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW2020
	CCMT060204-MM2	6.35	2.38	06	2.8	0.4	★
	CCMT060208-MM2	6.35	2.38	06	2.8	0.8	★
	CCMT09T304-MM2	9.525	3.97	09	4.4	0.4	★
	CCMT09T308-MM2	9.525	3.97	09	4.4	0.8	★
	CCMT120404-MM2	12.7	4.76	12	5.56	0.4	★
	CCMT120408-MM2	12.7	4.76	12	5.56	0.8	★

★Featured Grade    ○ Make-to-Order

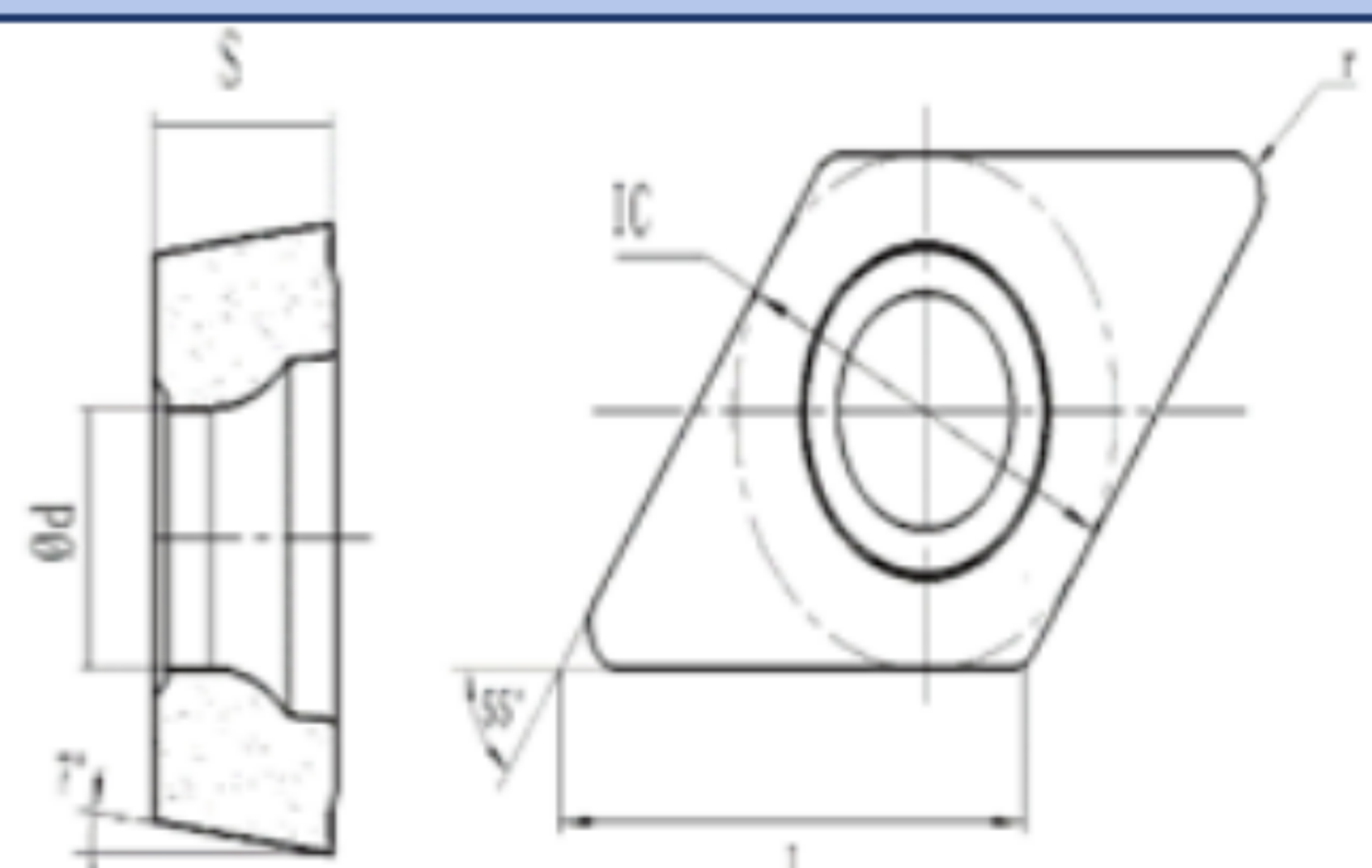
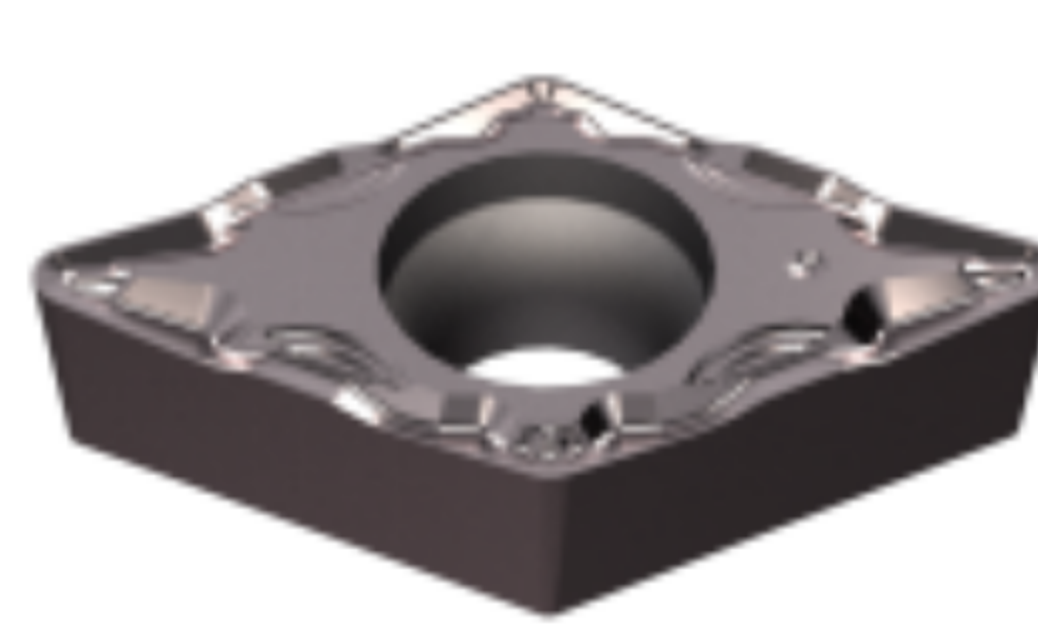


CN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW2020
	CNMG120404-MM2	12.7	4.76	12	5.16	0.4	★
	CNMG120408-MM2	12.7	4.76	12	5.16	0.8	★
	CNMG120412-MM2	12.7	4.76	12	5.16	1.2	★

★Featured Grade    ○ Make-to-Order

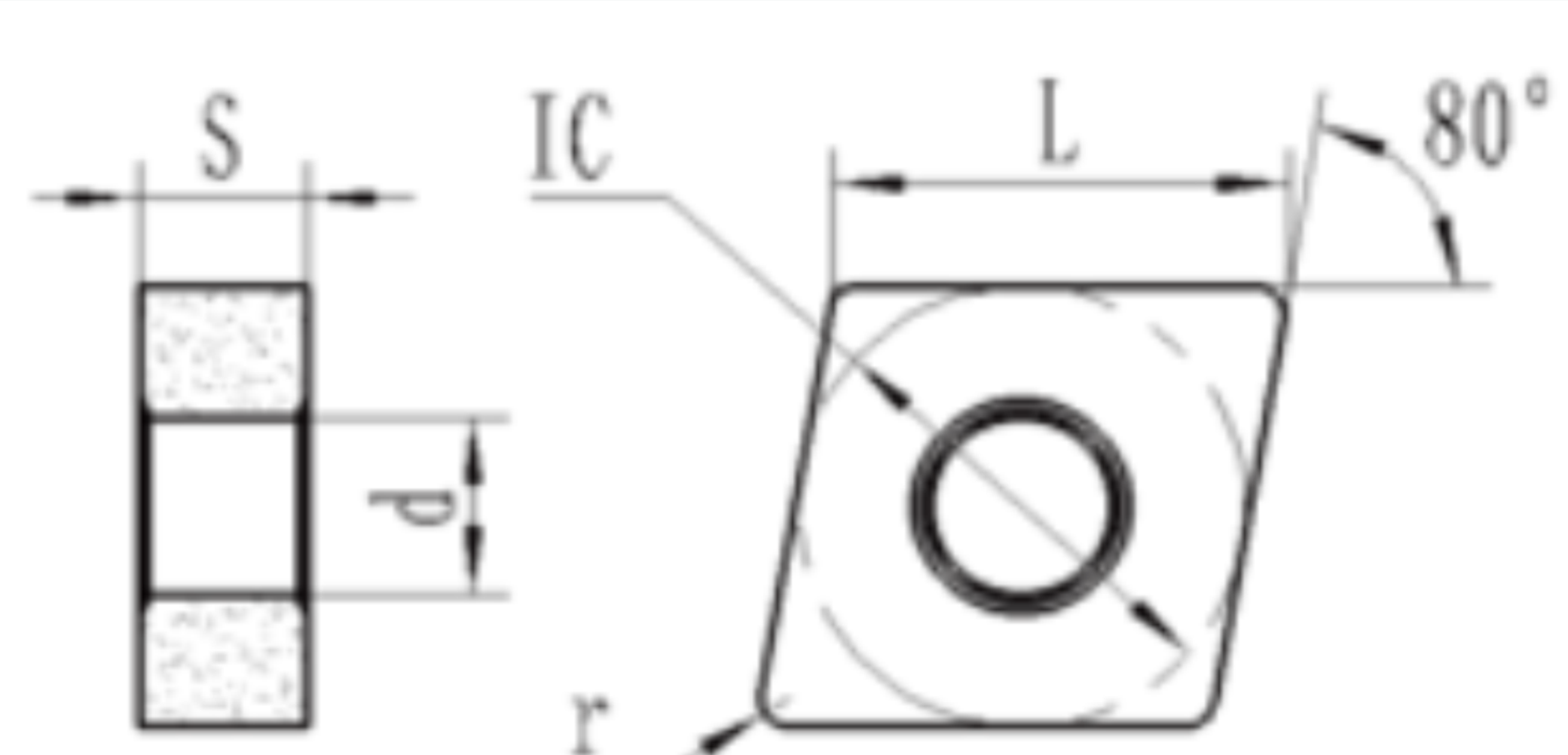
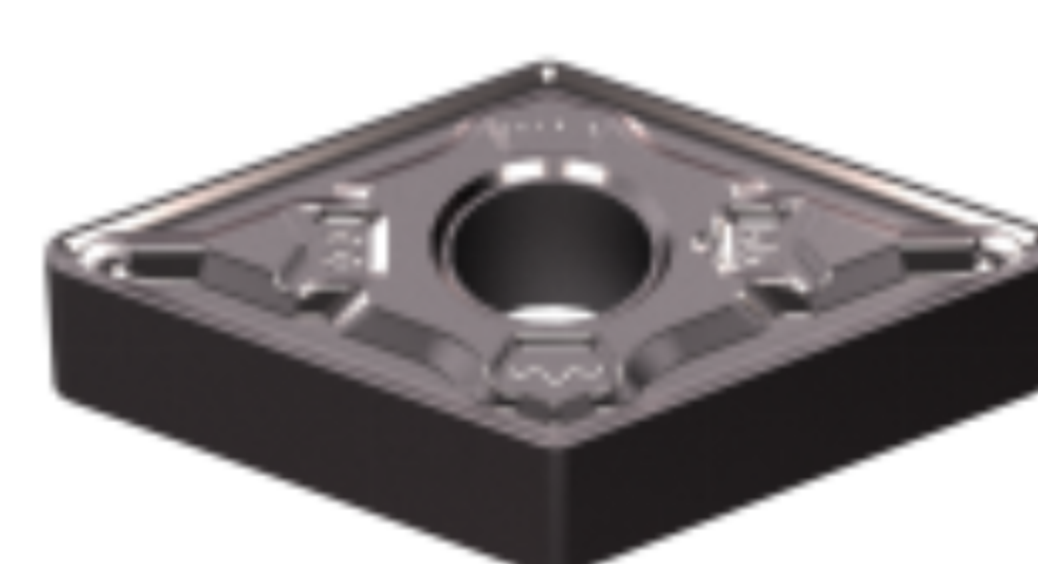


# List of Models

DC□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW2020
	DCMT070204-MM2	6.35	2.38	07	2.8	0.4	★
	DCMT070208-MM2	6.35	2.38	07	2.8	0.8	★
	DCMT11T304-MM2	9.525	3.97	11	4.4	0.4	★
	DCMT11T308-MM2	9.525	3.97	11	4.4	0.8	★

★Featured Grade    ○ Make-to-Order



DN□□							
		<b>Size(mm)</b>					<b>Grade</b>
Insert shape	Size	IC	S	L	d	r	GW2020
	DNMG150404-MM2	12.7	4.76	15	5.16	0.4	★
	DNMG150408-MM2	12.7	4.76	15	5.16	0.8	★
	DNMG150412-MM2	12.7	4.76	15	5.16	1.2	★

★Featured Grade    ○ Make-to-Order

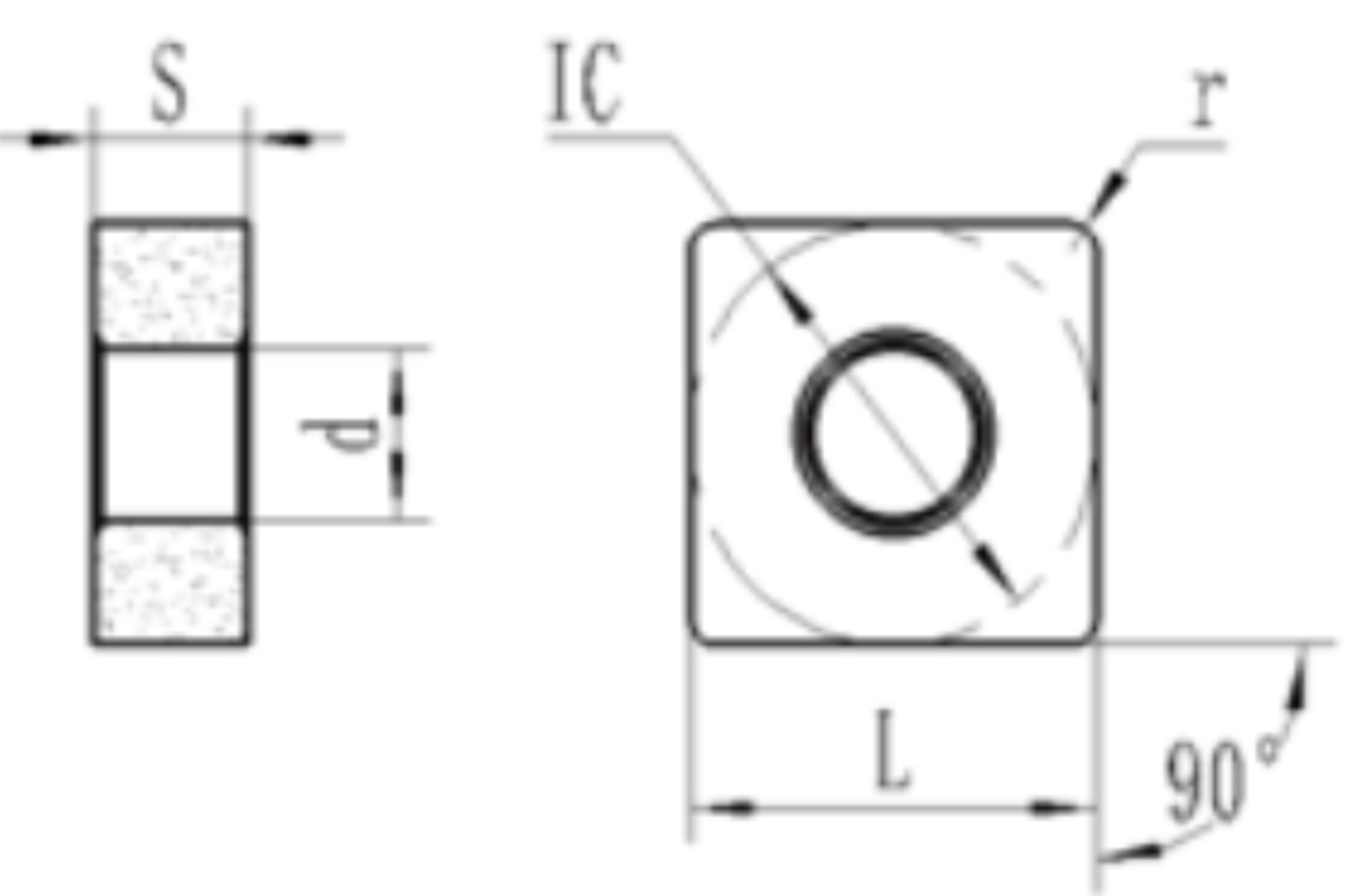



# List of Models

<b>SC□□</b>							
		<b>Size(mm)</b>					<b>Grade</b>
Insert shape	Size	IC	S	L	d	r	GW2020
	SCMT09T304-MM2	9.525	3.97	09	4.4	0.4	★
	SCMT09T308-MM2	9.525	3.97	09	4.4	0.8	★
	SCMT120404-MM2	12.7	4.76	12	5.56	0.4	★
	SCMT120408-MM2	12.7	4.76	12	5.56	0.8	★

★Featured Grade    ○ Make-to-Order

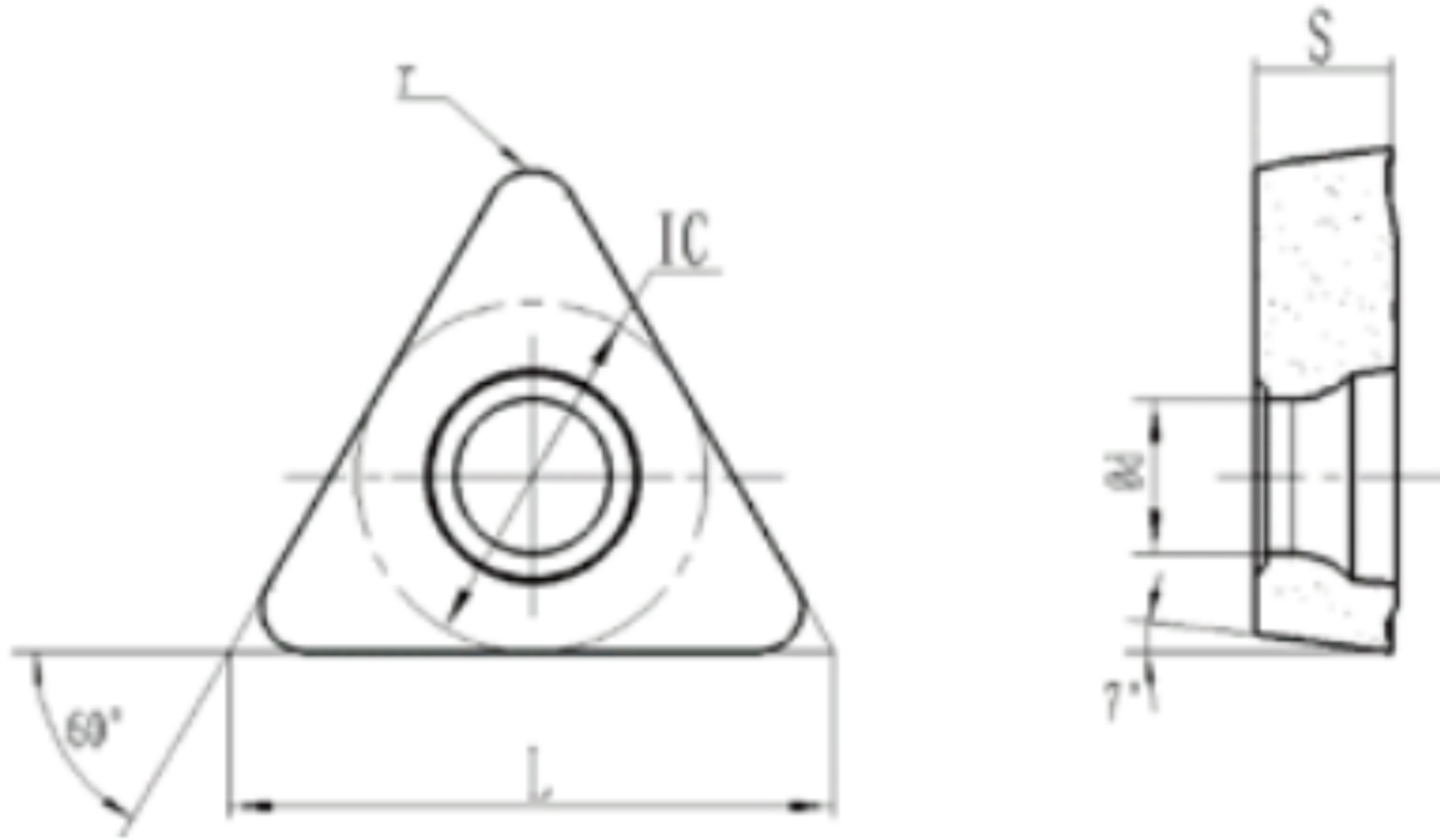
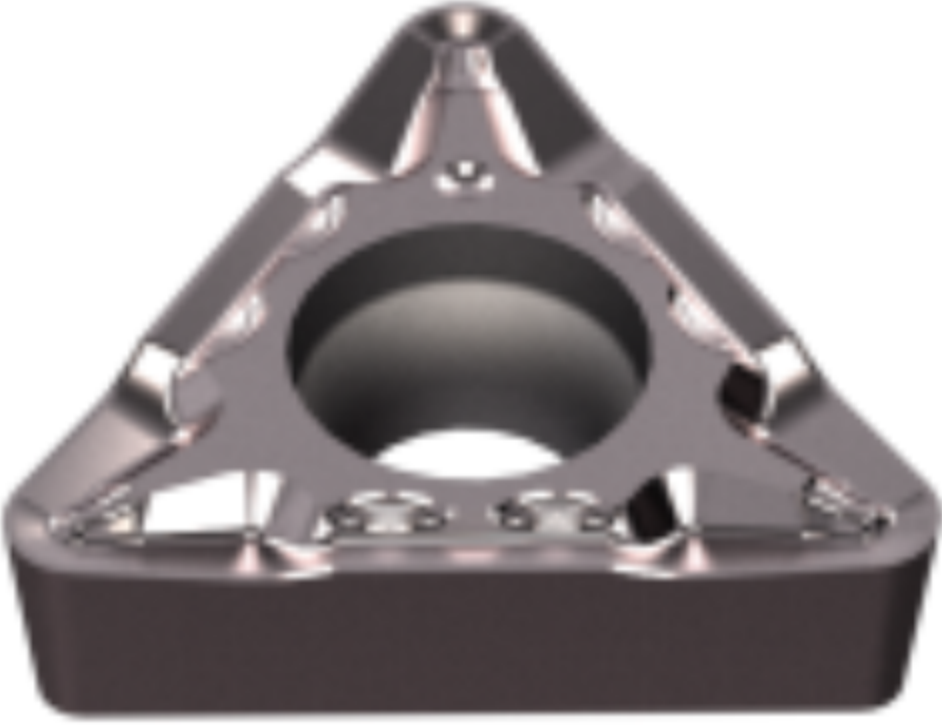


SN□□							
		Size(mm)				Grade	
Insert shape	Size	IC	S	L	d	r	GW2020
	SNMG120404-MM2	12.7	4.76	8	5.16	0.4	★
	SNMG120408-MM2	12.7	4.76	8	5.16	0.8	★
	SNMG120412-MM2	12.7	4.76	8	5.16	1.2	★

★Featured Grade    ○ Make-to-Order

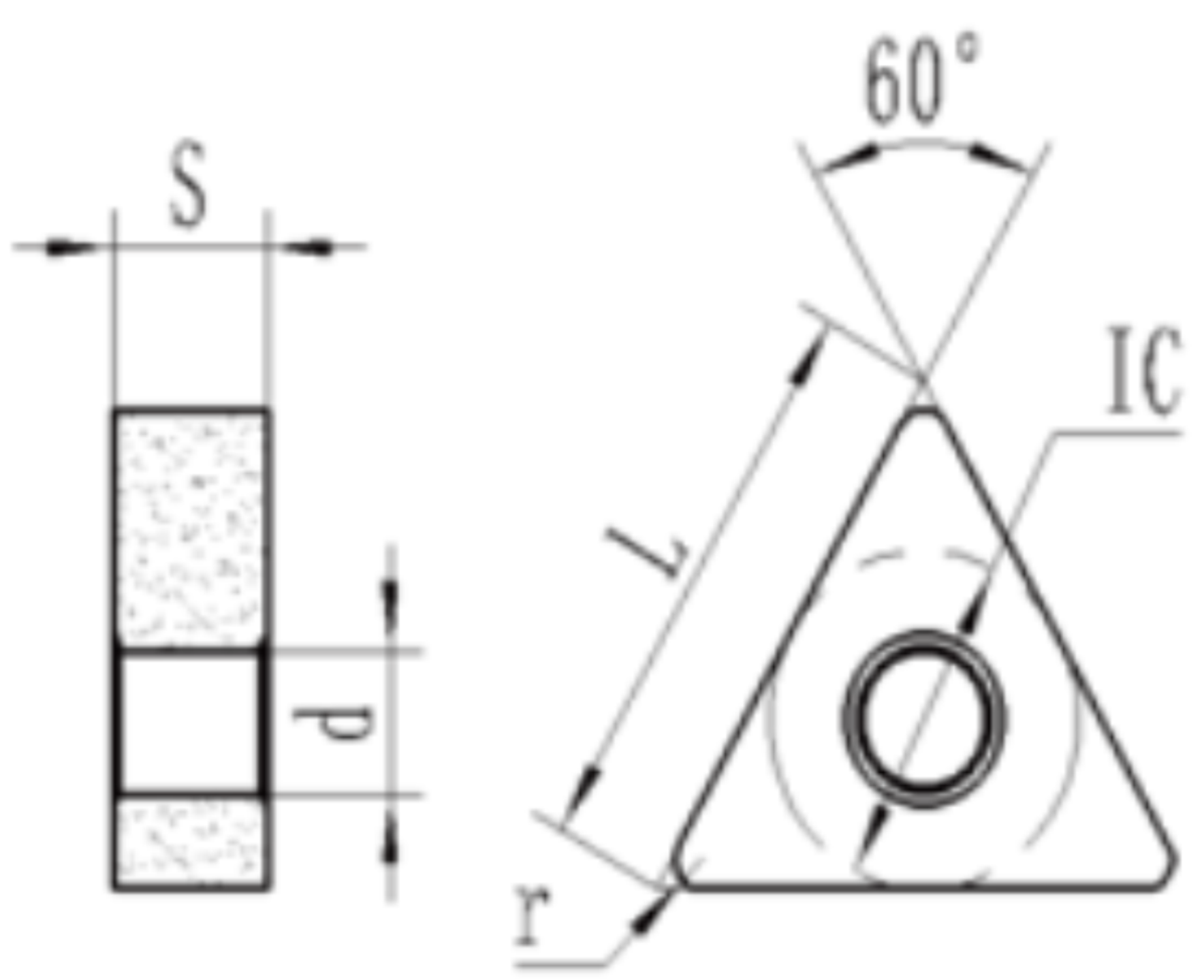
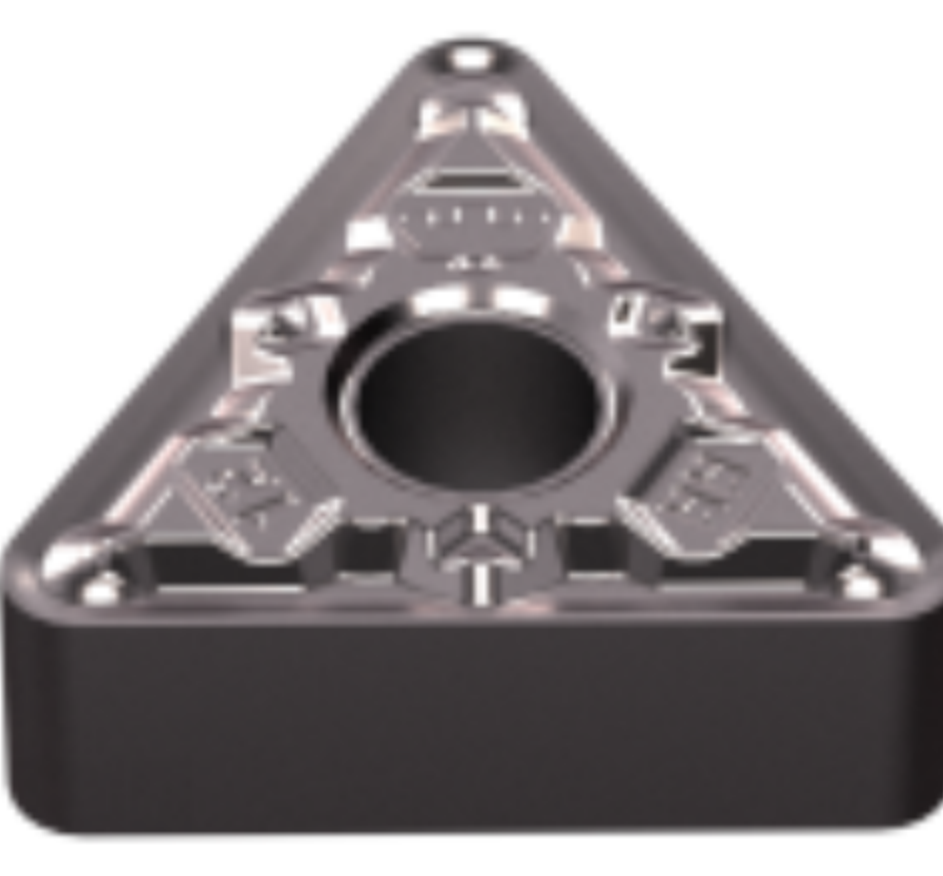


# List of Models

TC□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW2020
	TCMT090204-MM2	5.56	2.38	09	2.5	0.4	★
	TCMT090208-MM2	5.56	2.38	09	2.5	0.8	★
	TCMT110204-MM2	6.35	2.38	11	2.8	0.4	★
	TCMT110208-MM2	6.35	2.38	11	2.8	0.8	★
	TCMT16T304-MM2	9.525	3.97	16	4.4	0.4	★
	TCMT16T308-MM2	9.525	3.97	16	4.4	0.8	★

★ Featured Grade    ○ Make-to-Ord

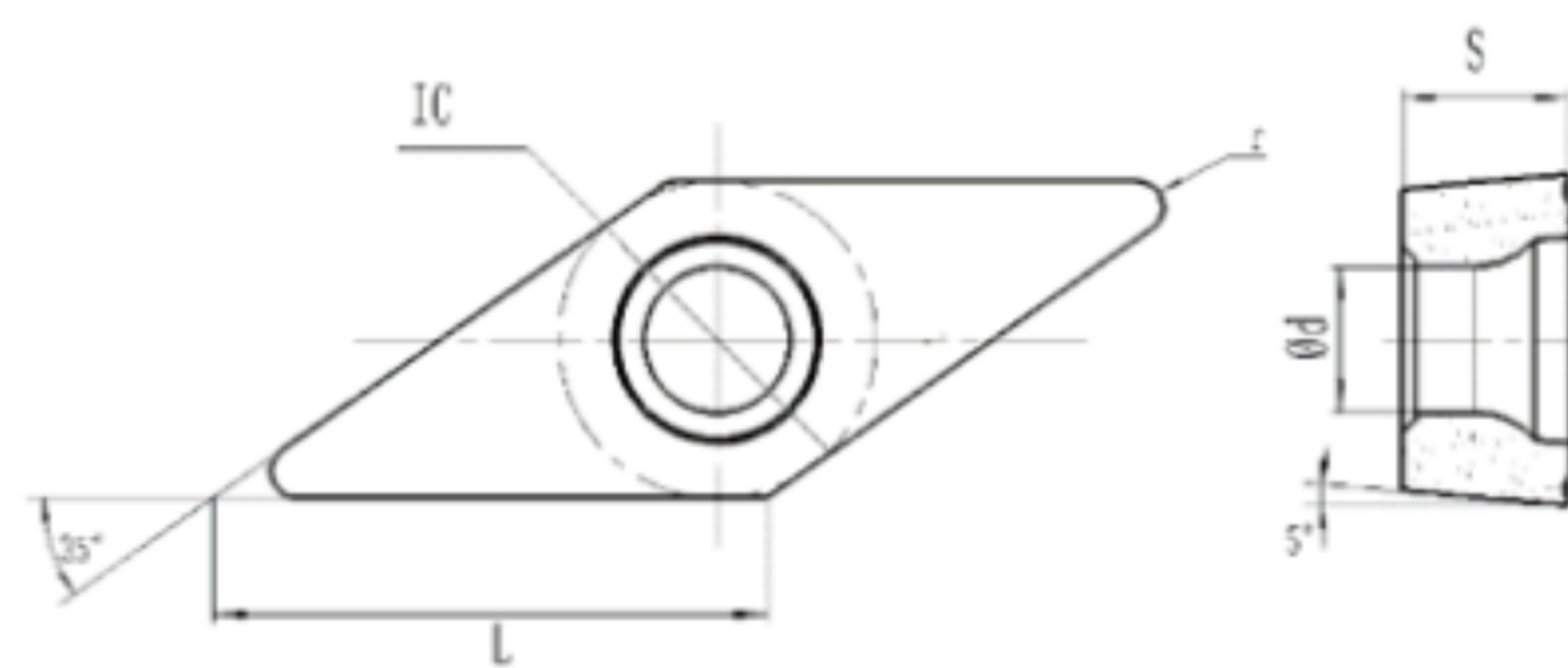
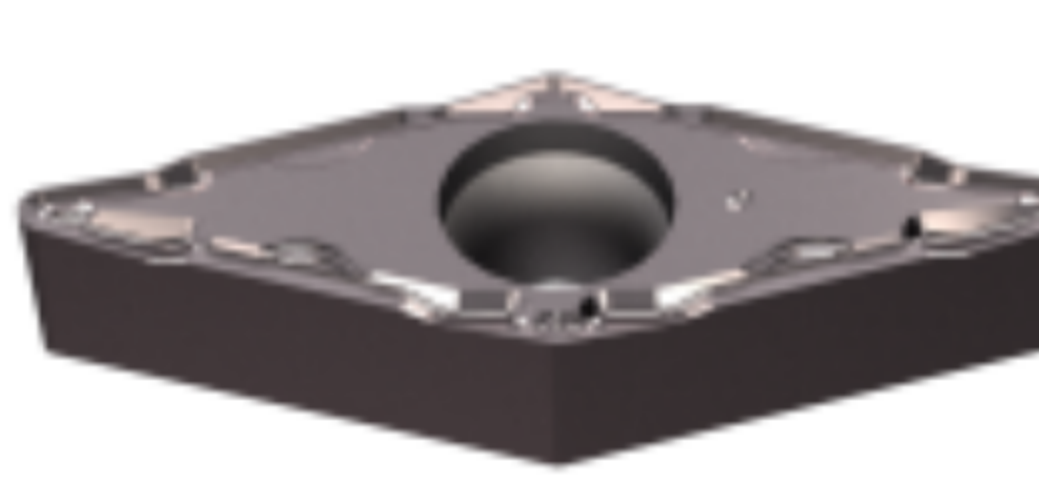


TN□□							
		<b>Size(mm)</b>					<b>Grade</b>
Insert shape	Size	IC	S	L	d	r	GW2020
	TNMG160404-MM2	9.525	4.76	16	3.81	0.4	★
	TNMG160408-MM2	9.525	4.76	16	3.81	0.8	★
	TNMG160412-MM2	9.525	4.76	16	3.81	1.2	★

★Featured Grade    ○ Make-to-Order

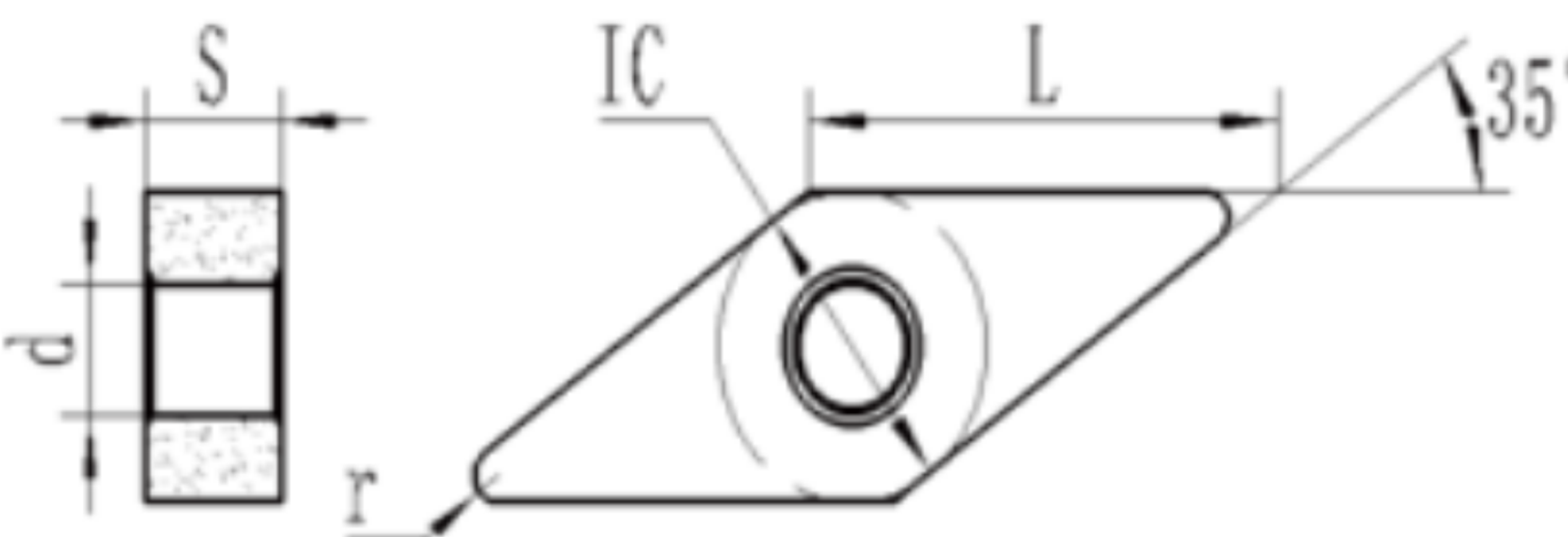



# List of Models

VB□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW2020
	VBMT160404-MM2	9.525	4.76	16	4.4	0.4	★
	VBMT160408-MM2	9.525	4.76	16	4.4	0.8	★

★ Featured Grade    ○ Make-to-Order

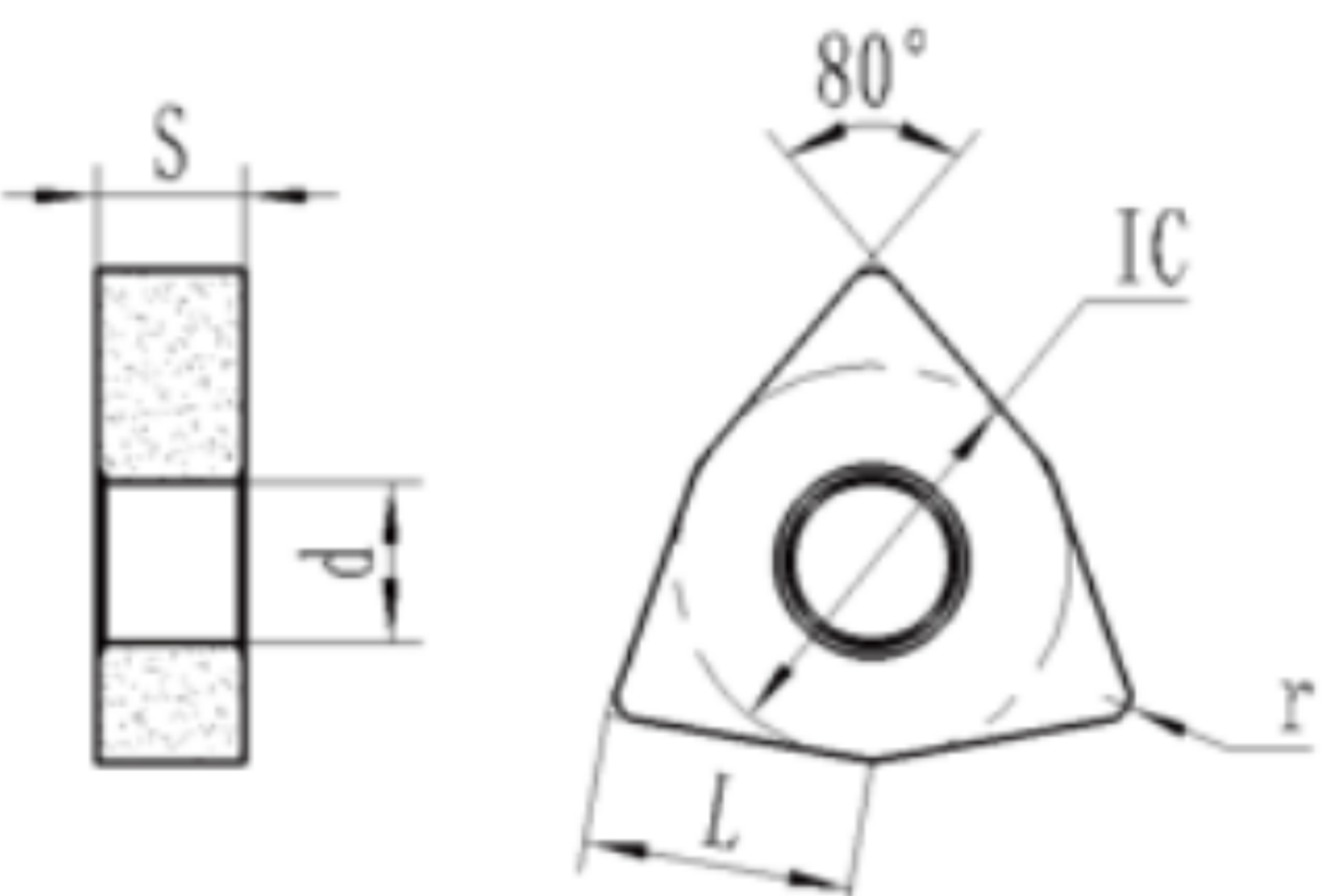
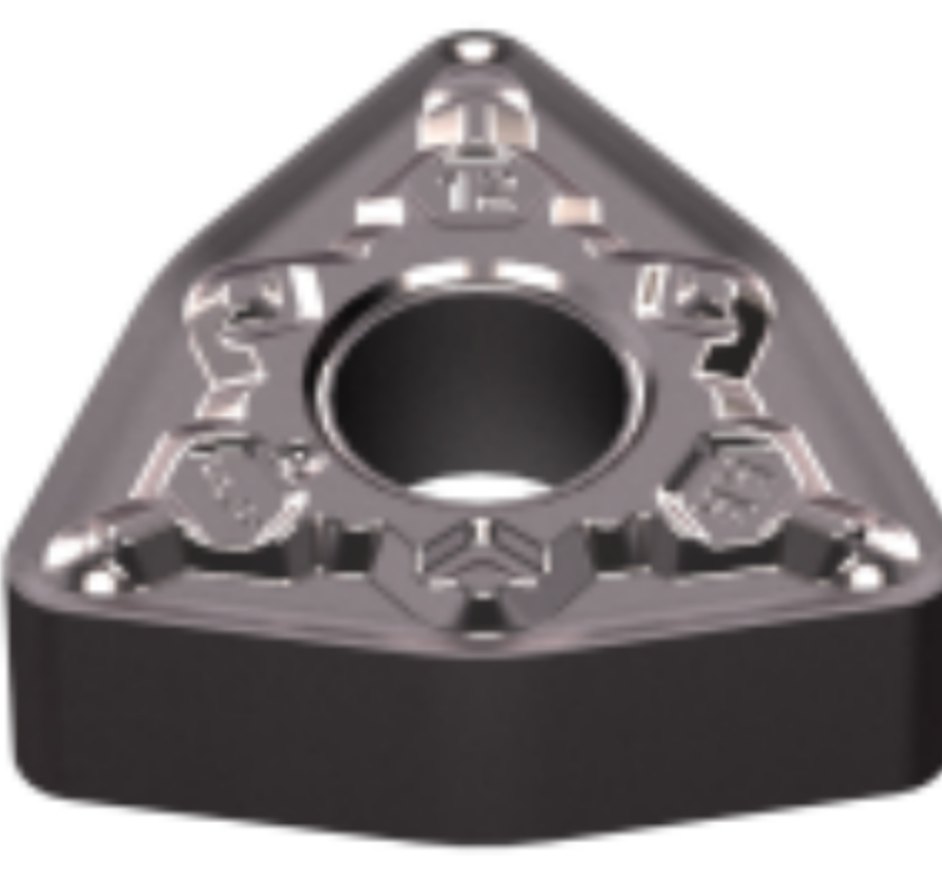


VN□□							
		<b>Size(mm)</b>					<b>Grade</b>
Insert shape	Size	IC	S	L	d	r	GW2020
	VNMG160404-MM2	9.525	4.76	16	3.81	0.4	★
	VNMG160408-MM2	9.525	4.76	16	3.81	0.8	★
	VNMG160412-MM2	9.525	4.76	16	3.81	1.2	★

★Featured Grade    ○ Make-to-Order



# List of Models

WN□□							
		<b>Size(mm)</b>					<b>Grade</b>
Insert shape	Size	IC	S	L	d	r	GW2020
	WNMG080404-MM2	12.7	4.76	8	5.16	0.4	★
	WNMG080408-MM2	12.7	4.76	8	5.16	0.8	★
	WNMG080412-MM2	12.7	4.76	8	5.16	1.2	★

★ Featured Grade    ○ Make-to-Order







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CHENGDU  
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CO.,LTD

Professional marketing team  
and technical service team,  
to provide personalized  
professional products  
and complete solutions.

