

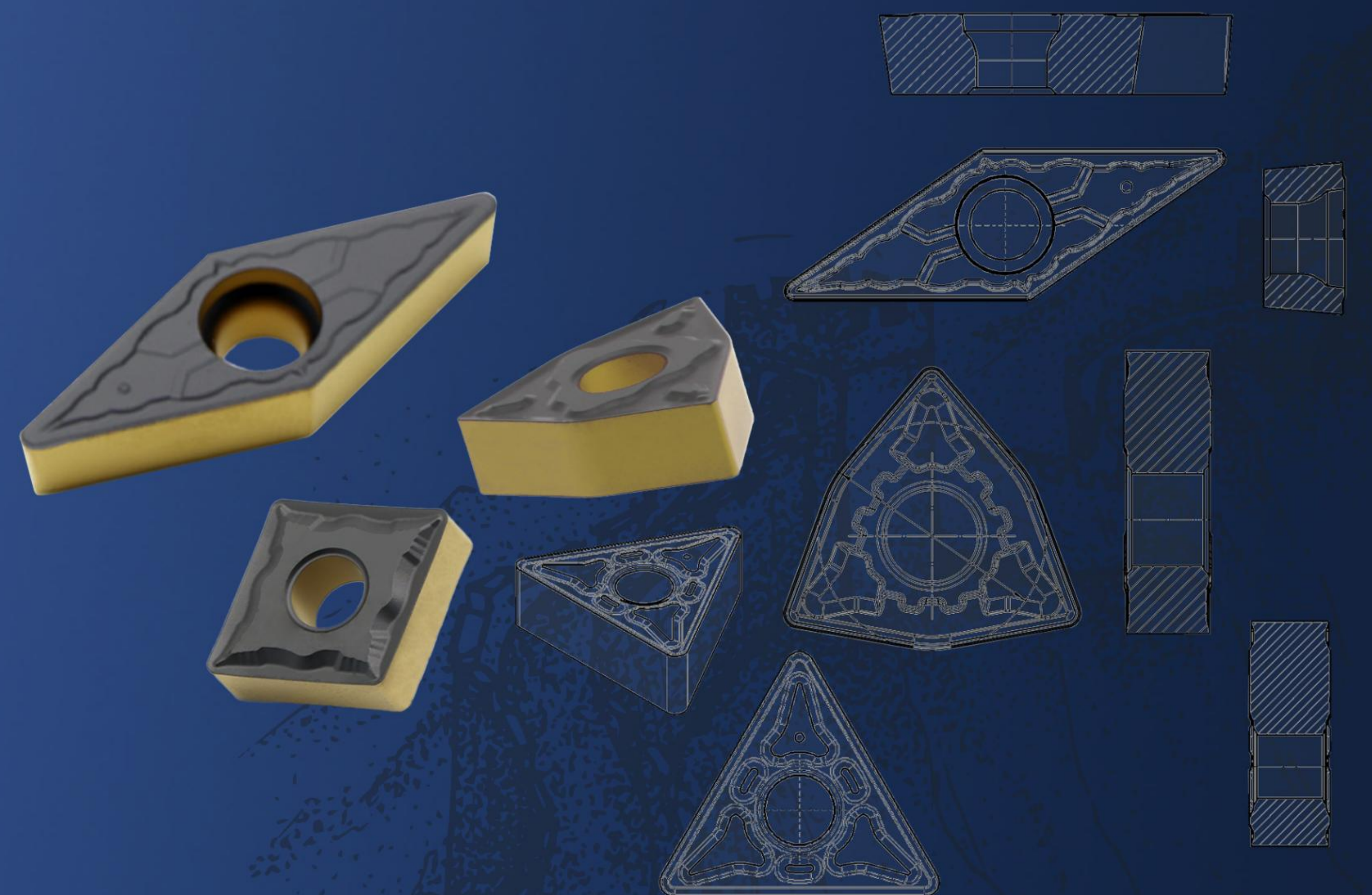
成都长城切削刀具有限责任公司



CHENGDU
GREATWALL CUTTING TOOLS
CO.,LTD



TURNING INSERTS FOR HARDENED STEEL

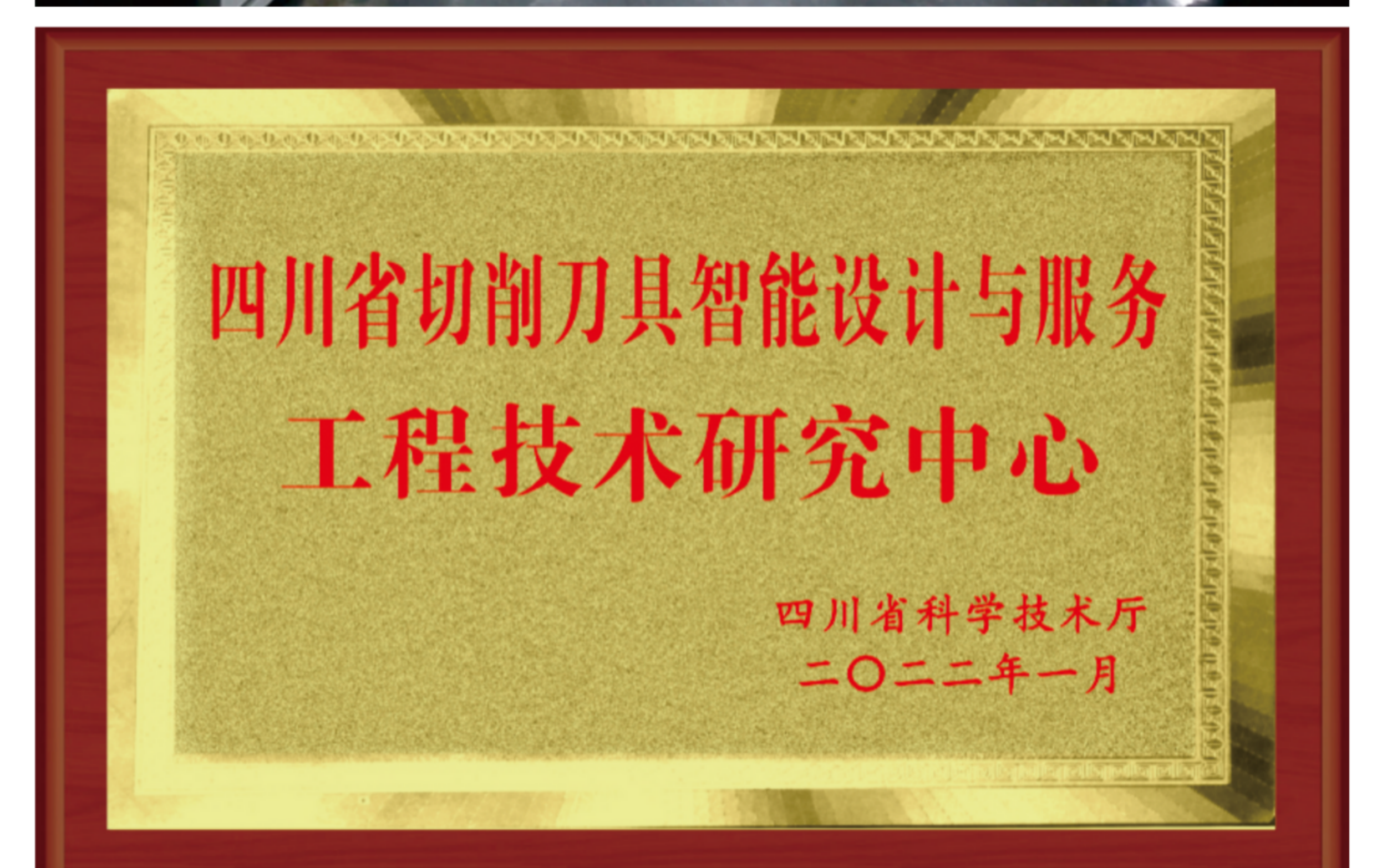




CHENGDU GREATWALL CUTTING TOOLS CO.,LTD



- 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

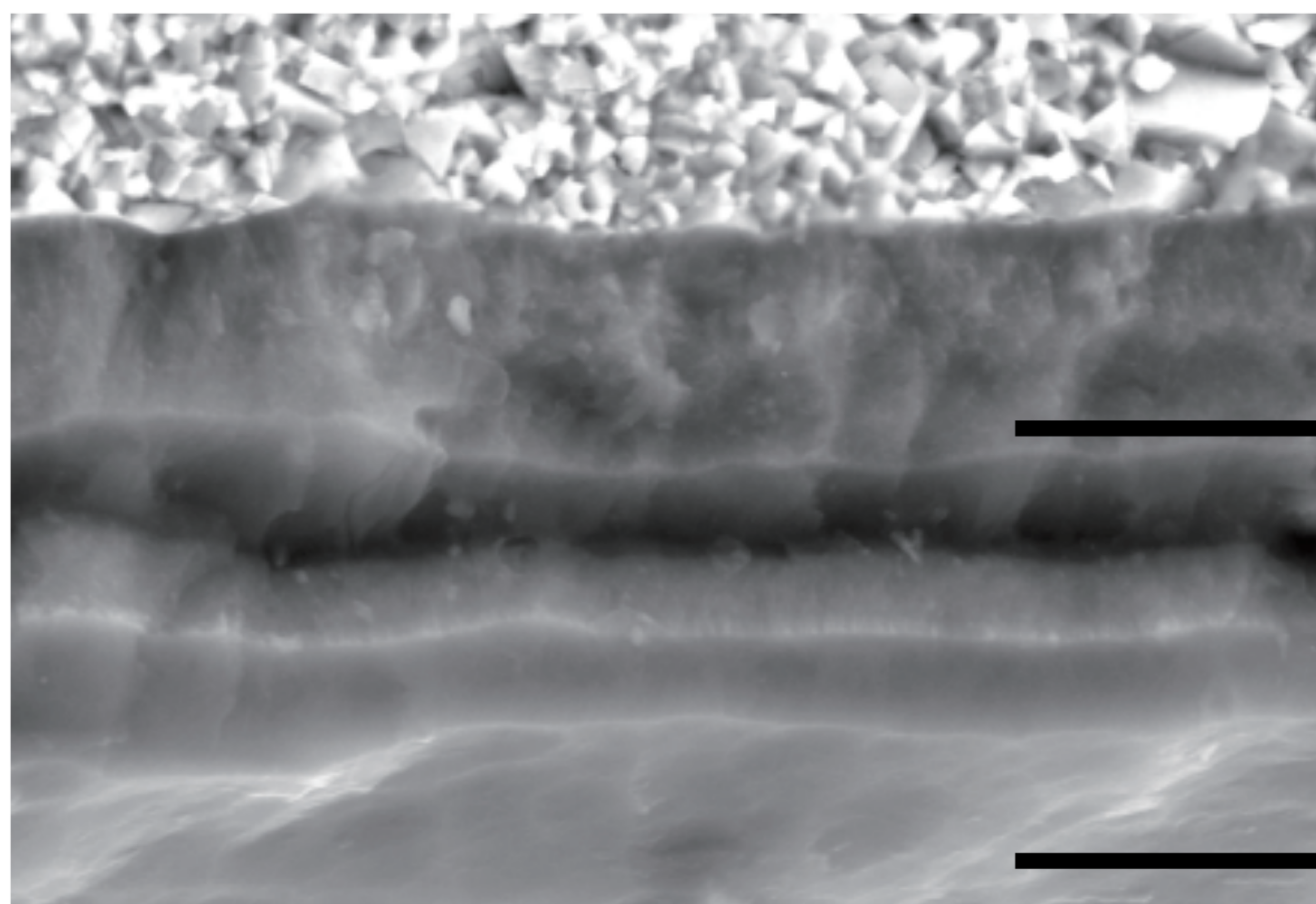
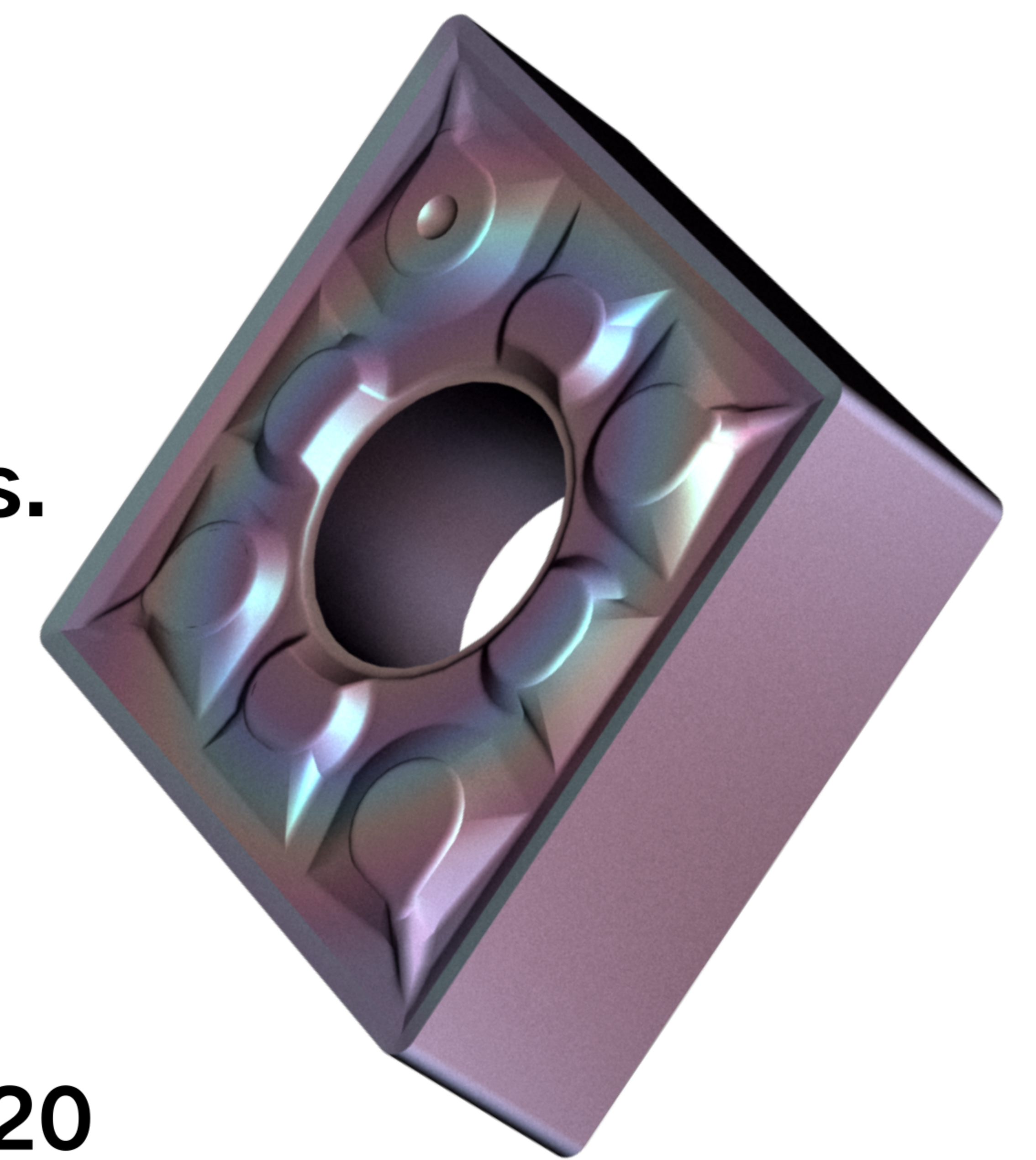
The company's main products include indexable CNC inserts, solid carbide cutting tools, and machine-clamped or welded conventional blades. It owns the cutting tool brand "Great Wall," which covers a wide range of machining applications including turning, milling, drilling, reaming, and broaching. The 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

AP105

- High wear resistance.
- Suitable for continuous turning of hardened steel materials.

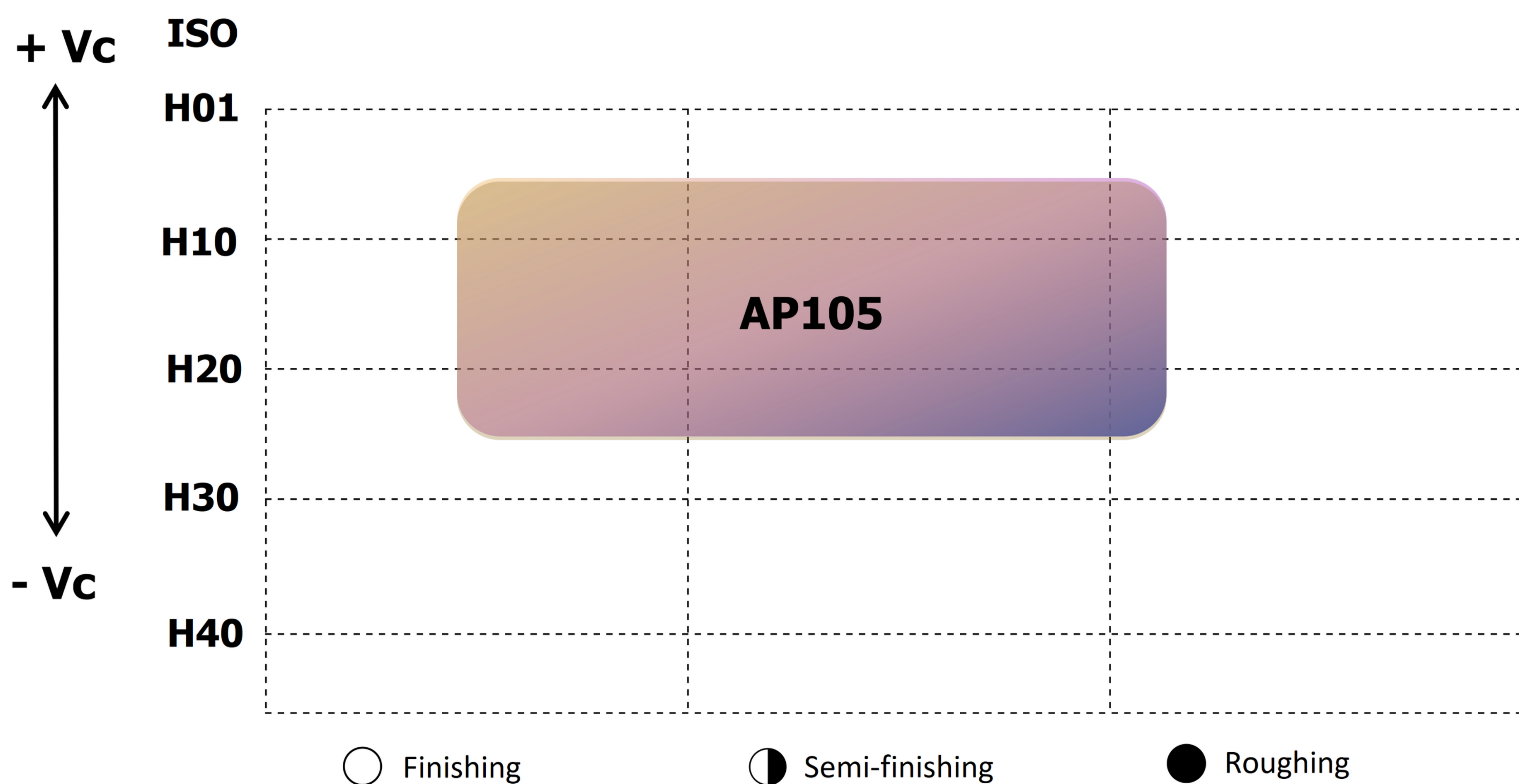


PVD coating

Application range : H10-H20

● High-chromium coating, featuring very high wear resistance and resistance to plastic deformation.

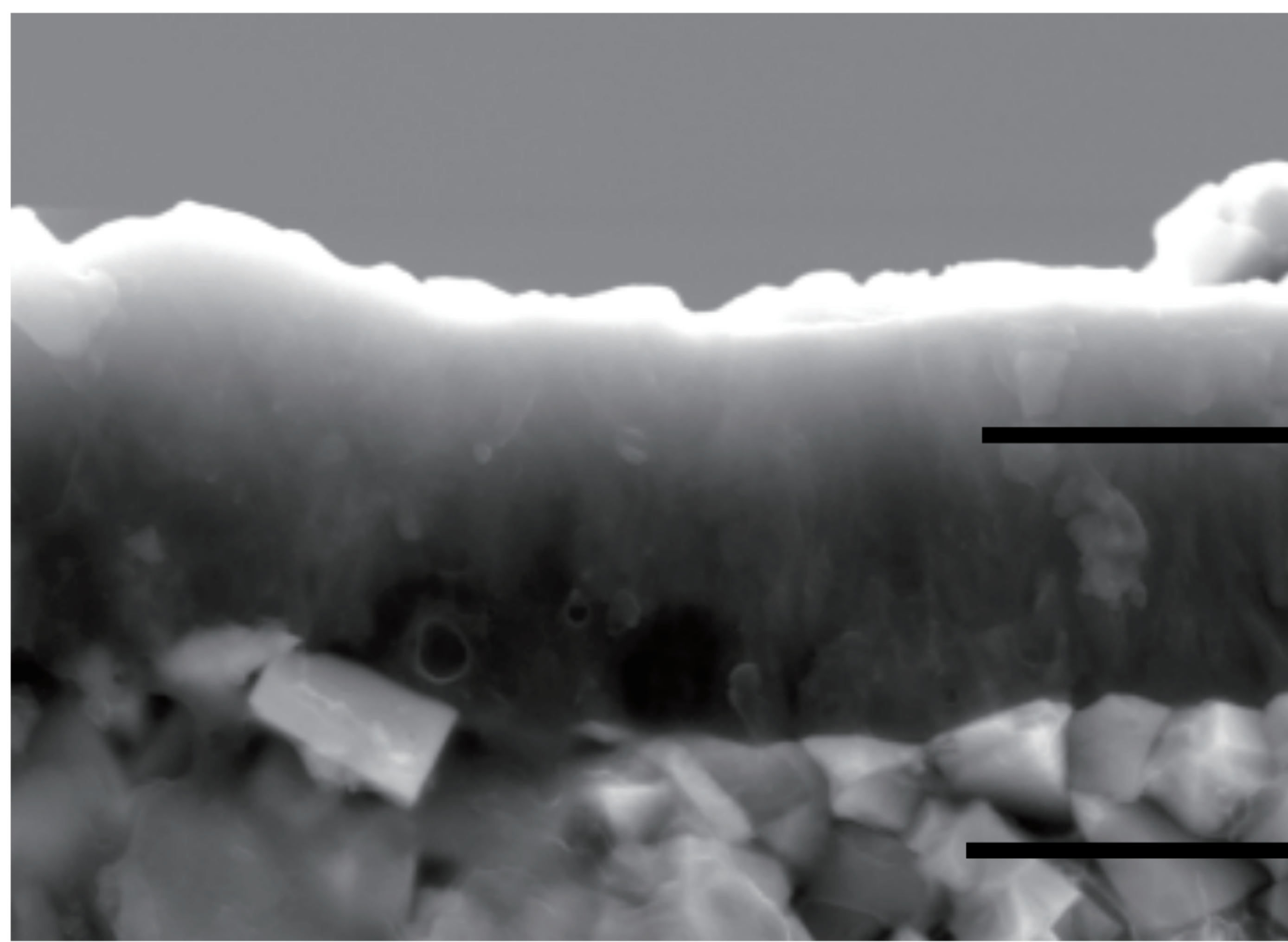
● Ultra-hard particle substrate.



QUALITY ACCOMPLISHES
THE FUTURE

GW8110

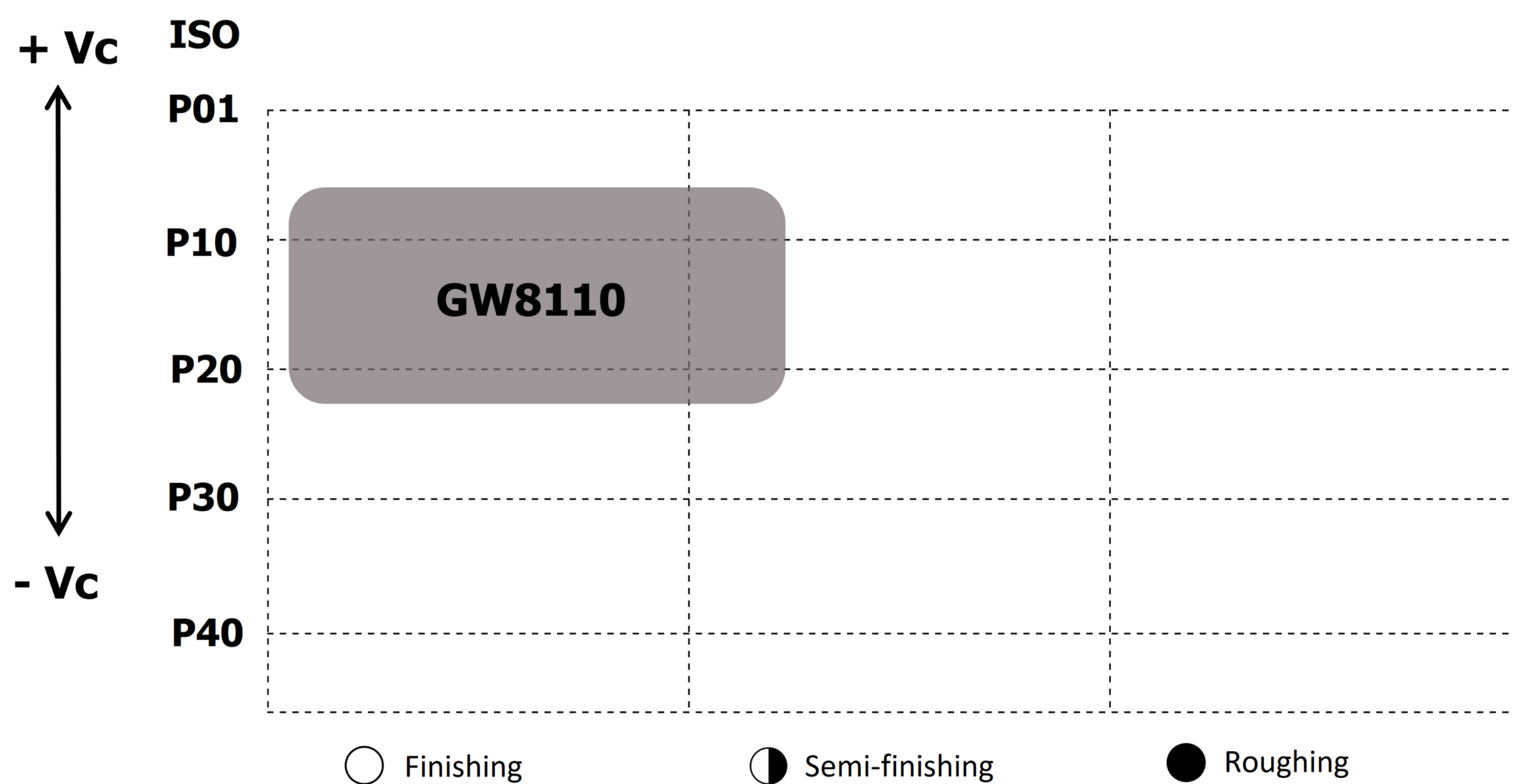
- High wear resistance and good fracture toughness.
- Suitable for medium-to-high speed milling of steel materials with HRC 30-50.



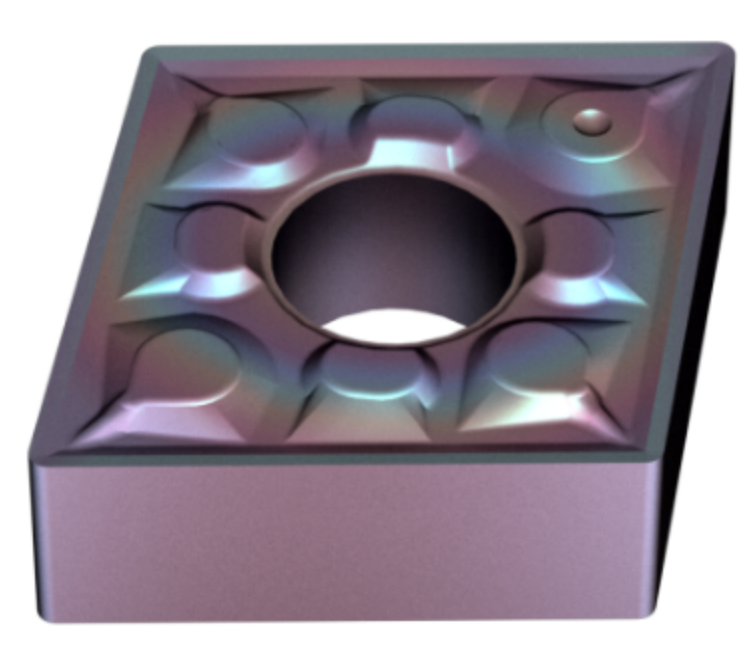
PVD coating

Application range : H10-H20

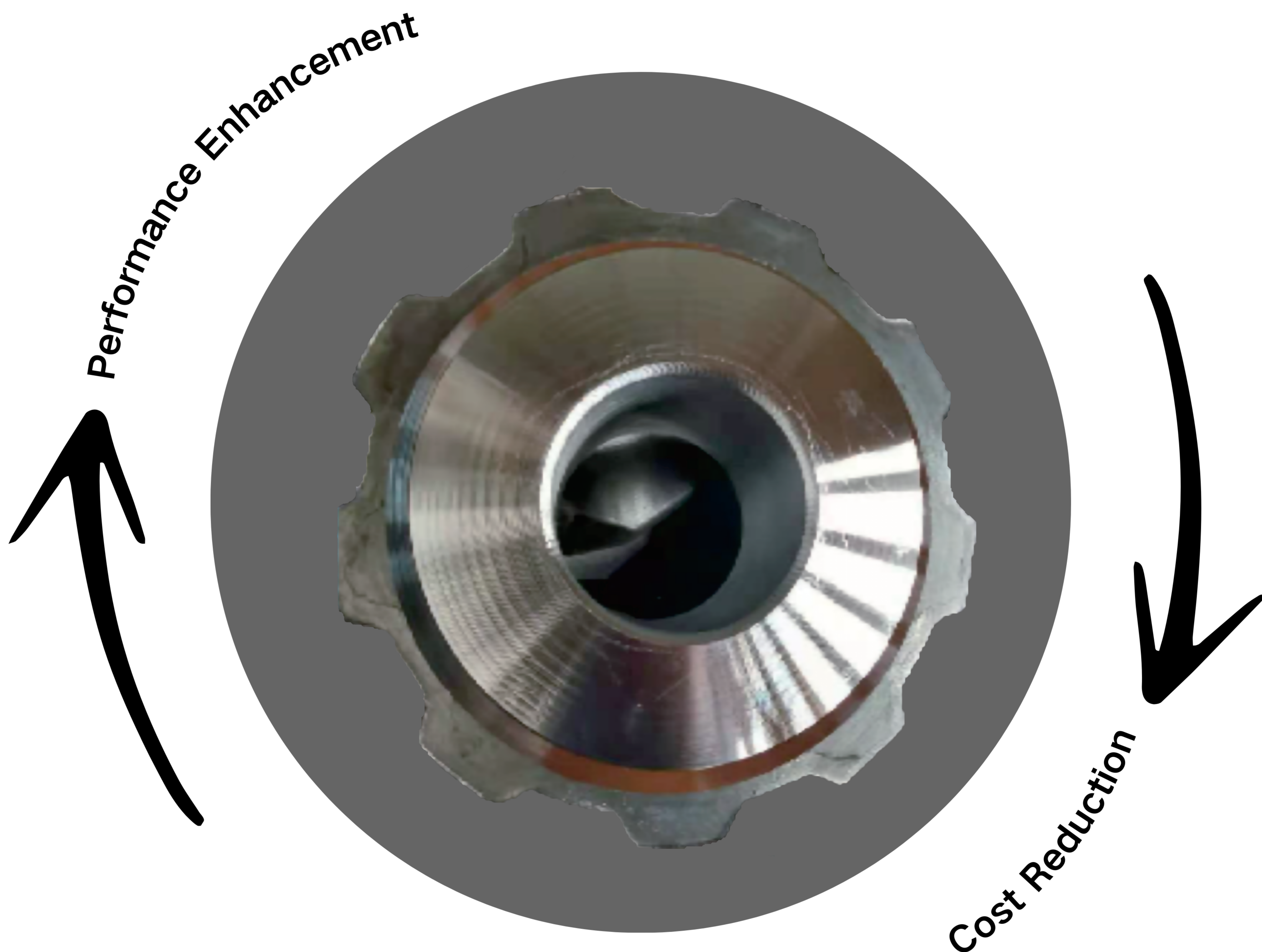
- Nanomultilayer coating, featuring high wear resistance and high-temperature resistance.
- Fine-grained, high-hardness substrate.



GROOVE INTRODUCTION

Groove	Illustration	Features	Suggested usage amount	
			Feed rate	Cut depth
BF2		<p>I Large lead angle design, low cutting force, resulting in good surface quality.</p> <p>II Suitable for light interrupted finishing of hard-to-machine materials such as quenched steel.</p>	0.11-0.15-0.22	0.3-0.8-1.5
BM1		<p>I General-purpose chip breaker geometry, wide chip breaking range.</p> <p>II Suitable for light interrupted finishing and semi-finishing of hard-to-machine materials such as quenched steel.</p>	0.12-0.15-0.30	0.5-1.0-3.0
BM2		<p>I Double lead angle design, wide chip breaking range.</p> <p>II Suitable for interrupted semi-finishing and roughing of hard-to-machine materials such as quenched steel.</p>	0.15-0.20-0.40	1.5-2.0-4.0
HPM		<p>I Positive angle insert matched with a unique three-dimensional design, resulting in good surface finish.</p> <p>II Suitable for continuous finishing and hole machining of hard-to-machine materials such as quenched steel.</p>	0.07-0.1-0.20	0.2-0.4-1.0
ZMF		<p>I Positive angle insert with unique three-dimensional design, resulting in good surface finish.</p> <p>II Suitable for continuous finishing and hole machining of hard-to-machine materials such as quenched steel.</p>	0.07-0.1-0.20	0.2-0.4-1.0

Manufacturing Example

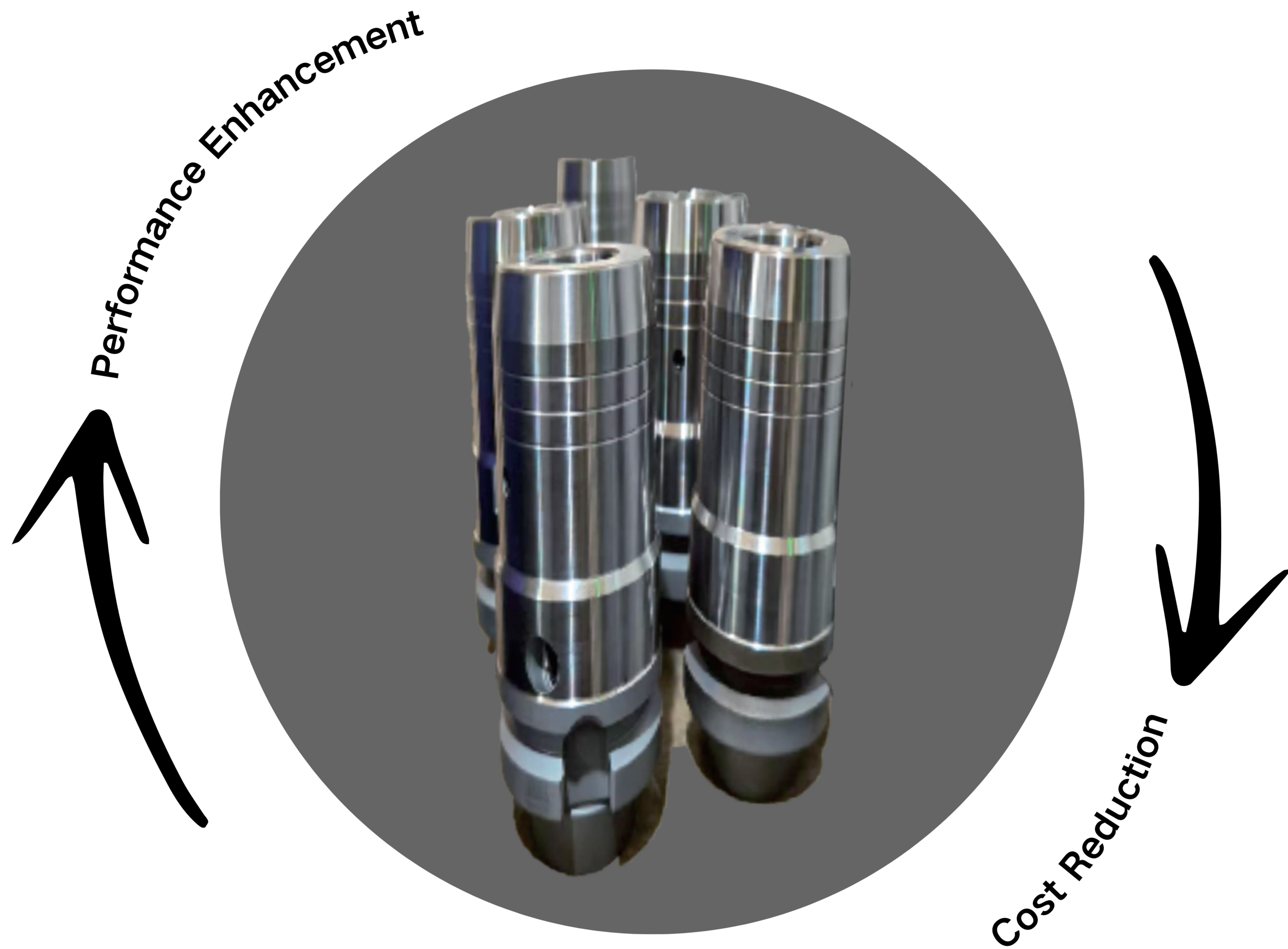


Compare

A leading international brand 610 pieces → equivalent performance Great wall 608pieces

Workpiece material	20CrMnTi(HRC62)
Insert Grade	AP105
Insert Size	WNMGO80408-BM2
Cutting parameters	Vc=38-56m/min;f=0.15mm;Ap=0.15mm

GROOVE INTRODUCTION

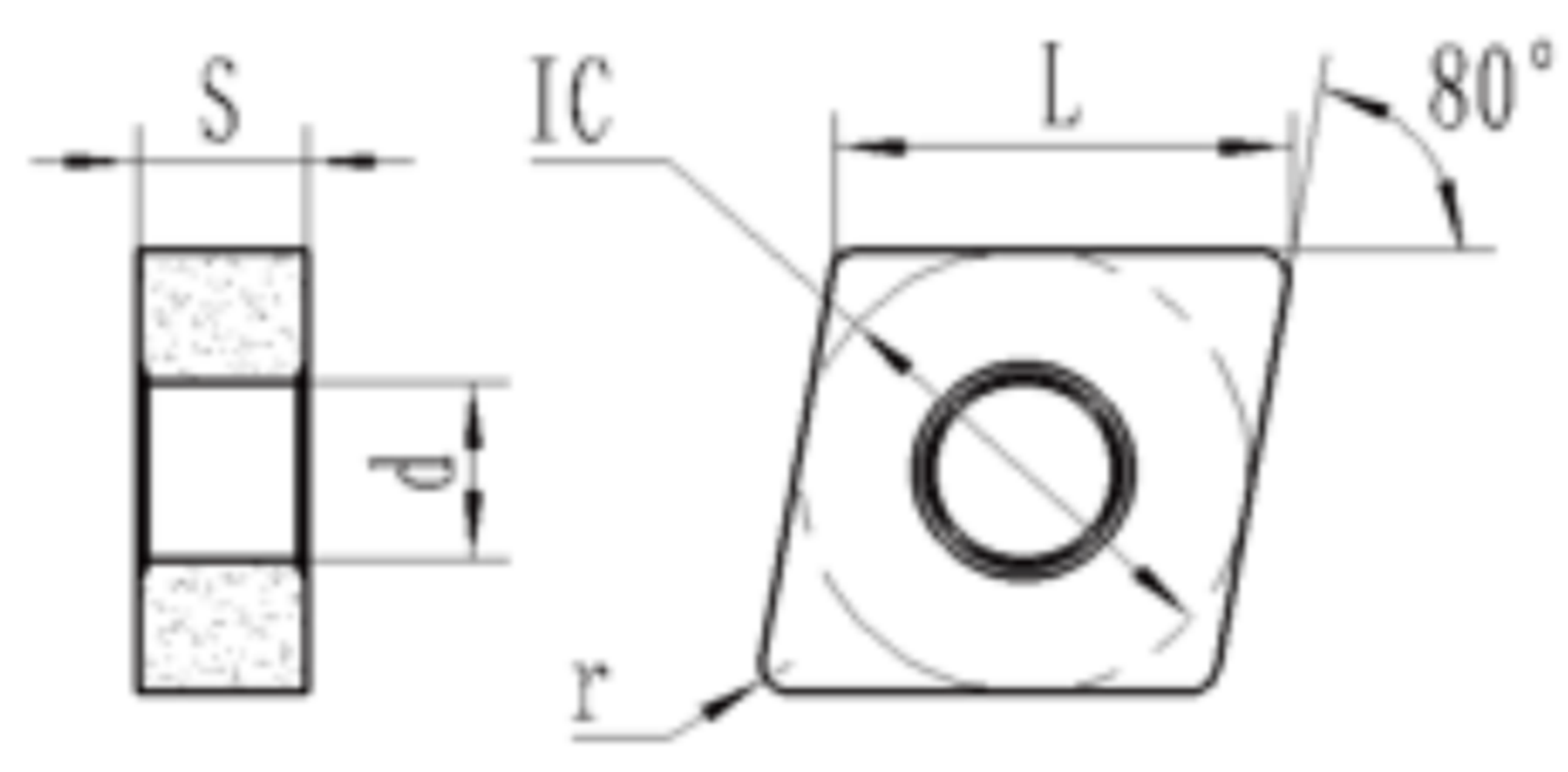
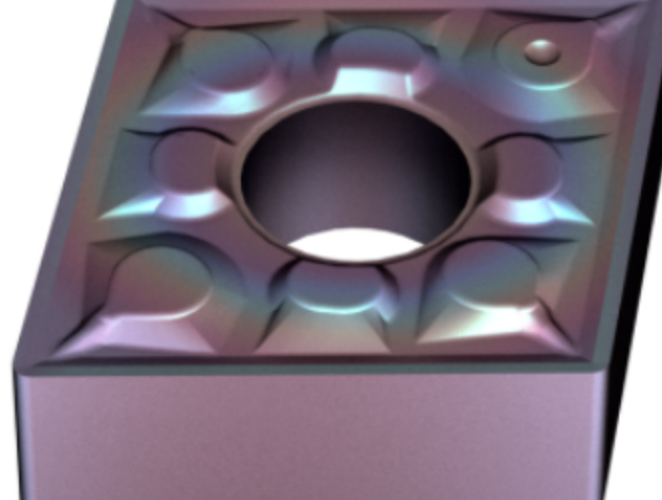
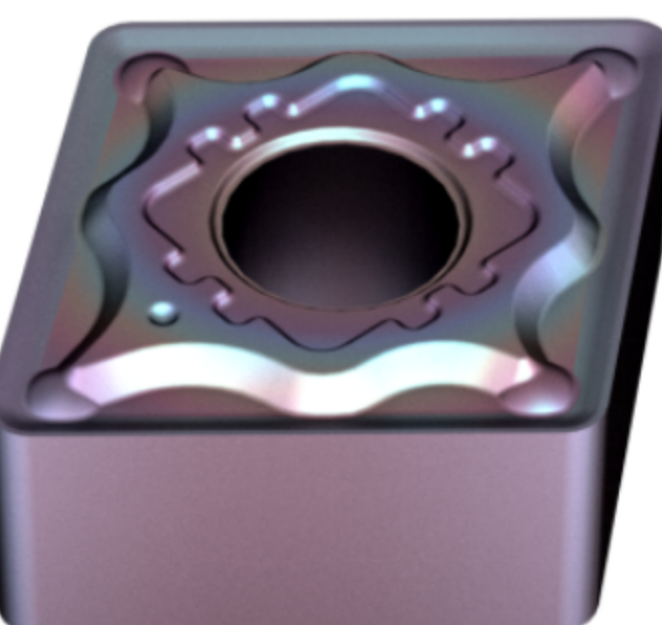


Compare

A leading international brand 305 pieces equivalent performance → Great wall 308 pieces

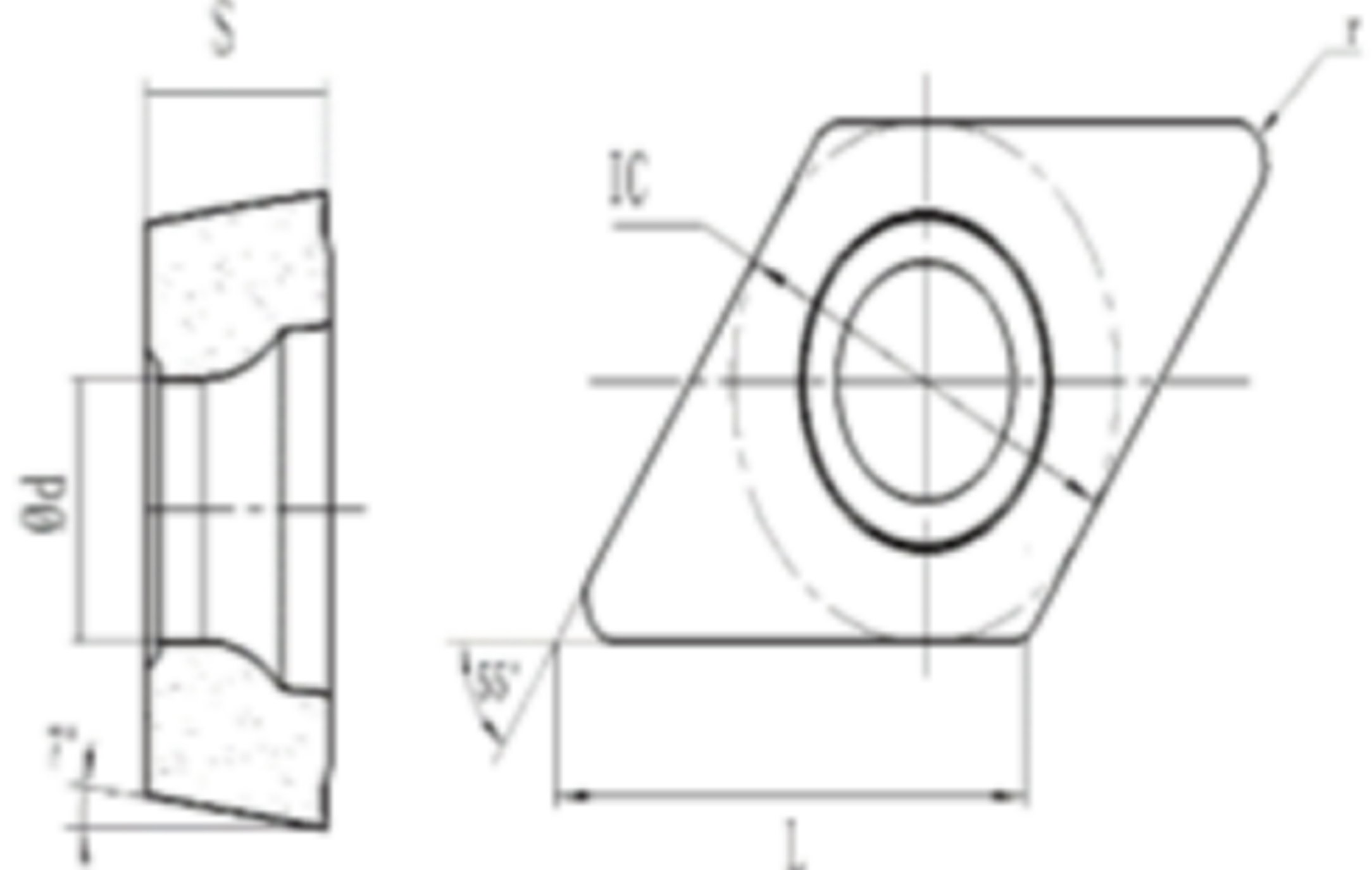
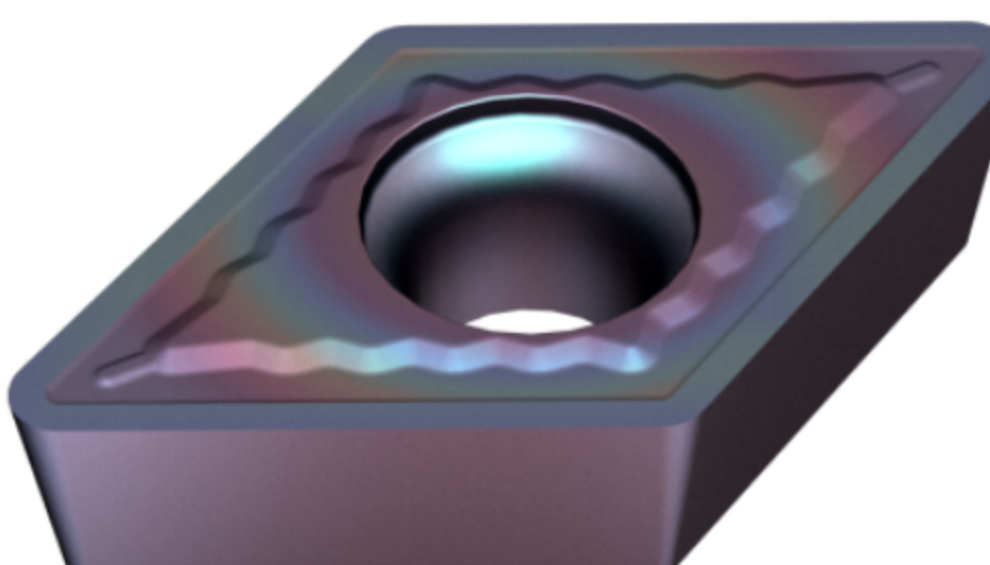
Workpiece material	GCr15(HRC18-20)
Insert Grade	AP105
Insert Size	WNMGO80408-BM2
Cutting parameters	$V_c=100\text{m/min}; f=0.02-0.03\text{mm}; A_p=0.15\text{mm}$

List of Models

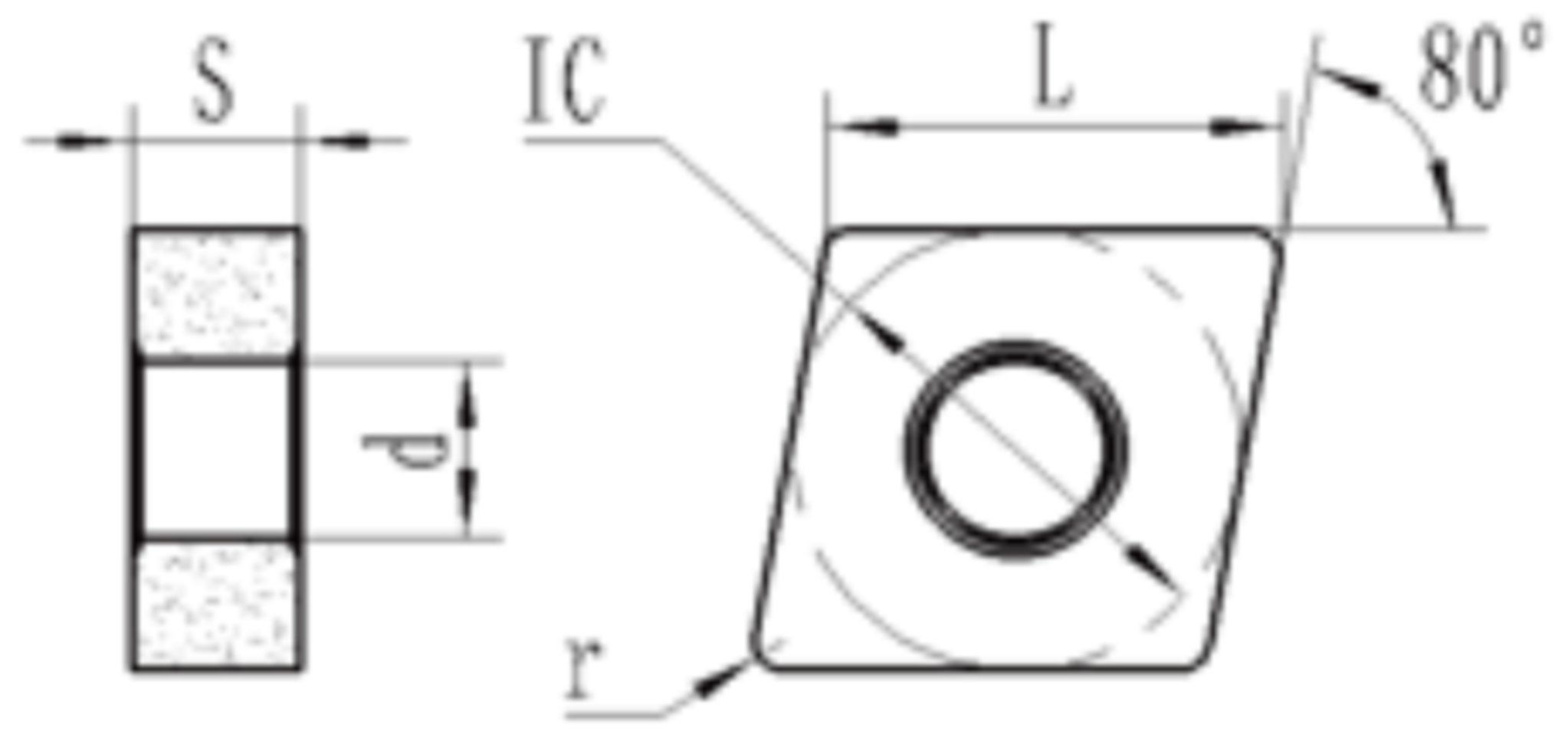
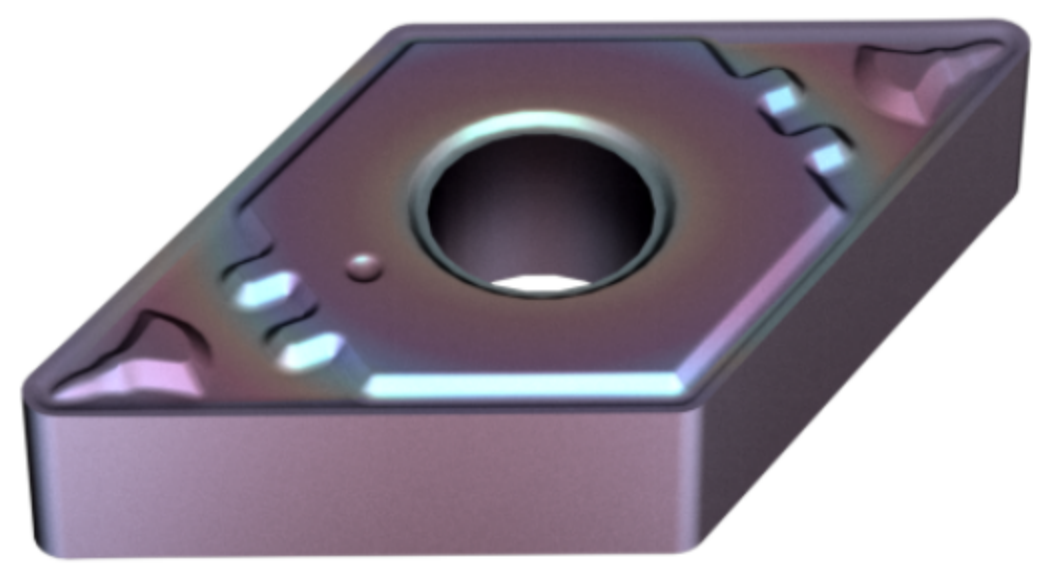
CN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	CNMG120404-BF2	12.7	4.76	12.9	5.16	0.4	★
	CNMG160612-BM2	15.875	6.35	16.1	6.35	1.2	★

★ Featured Grade ○ Make-to-Order

List of Models

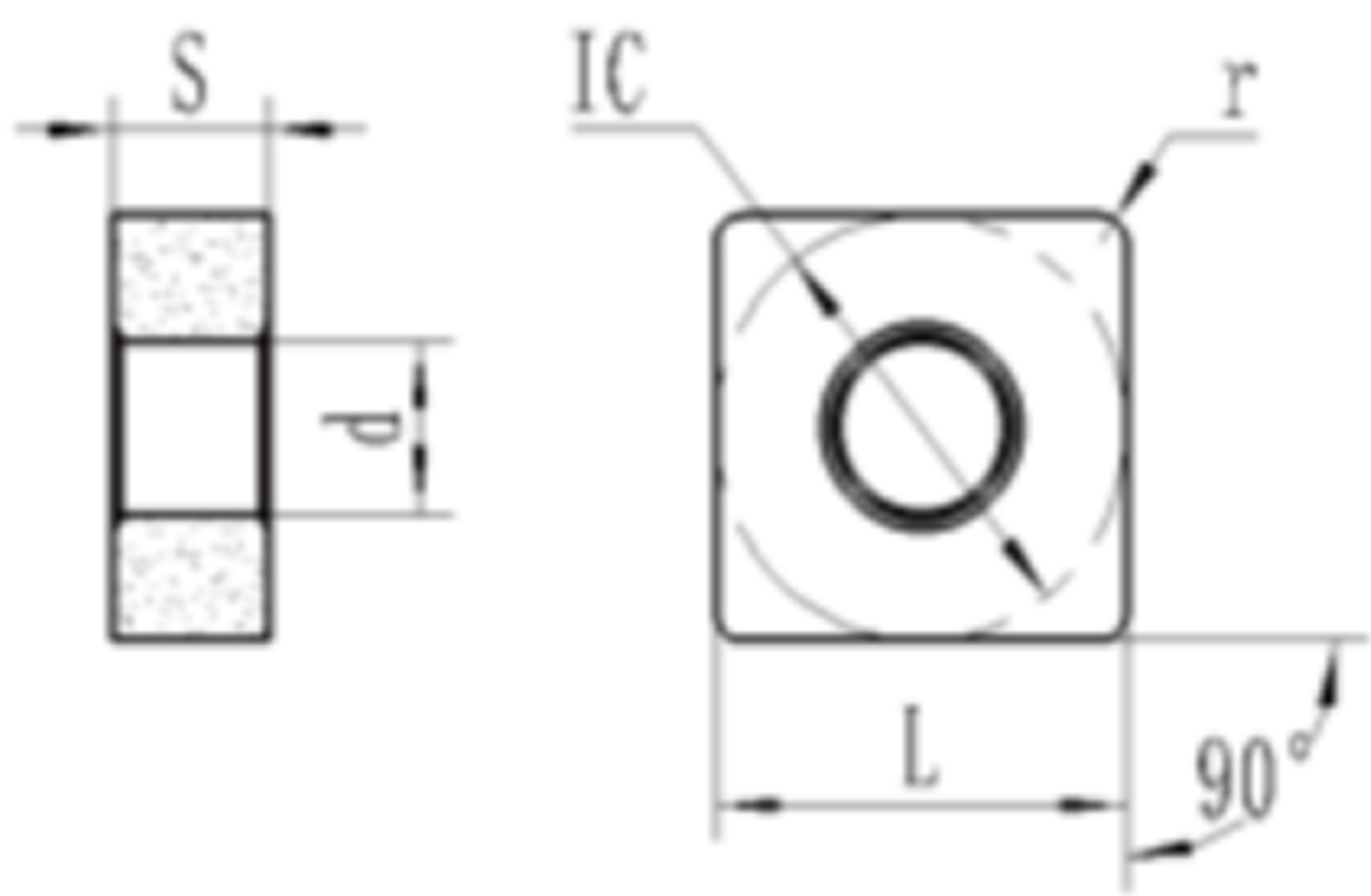
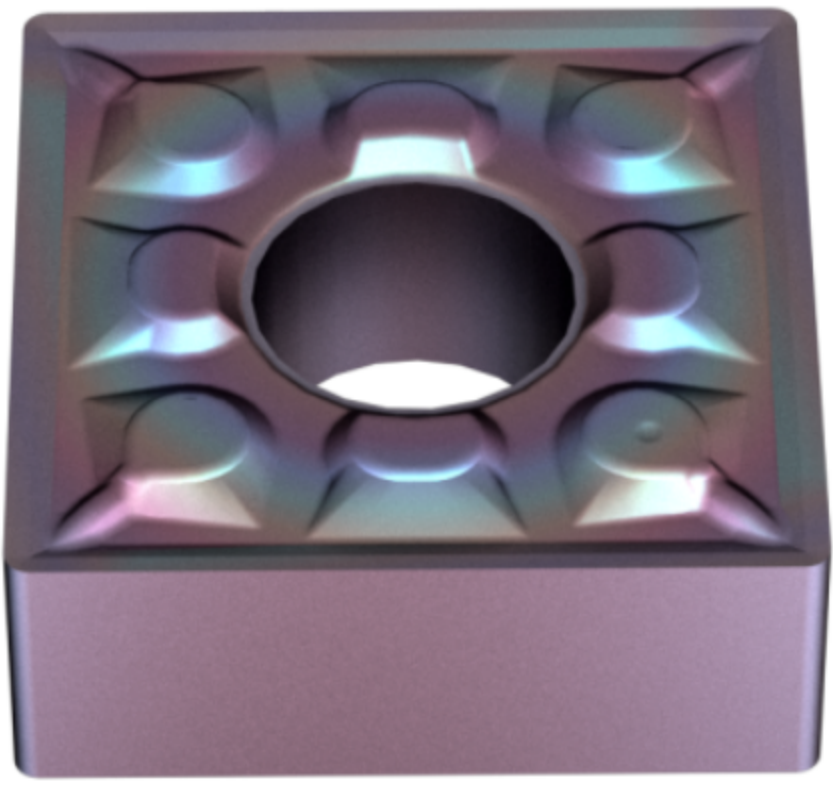
DC□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	DCGT11T304-HPM	9.525	3.97	11.6	4.4	0.4	★

★ Featured Grade ○ Make-to-Order

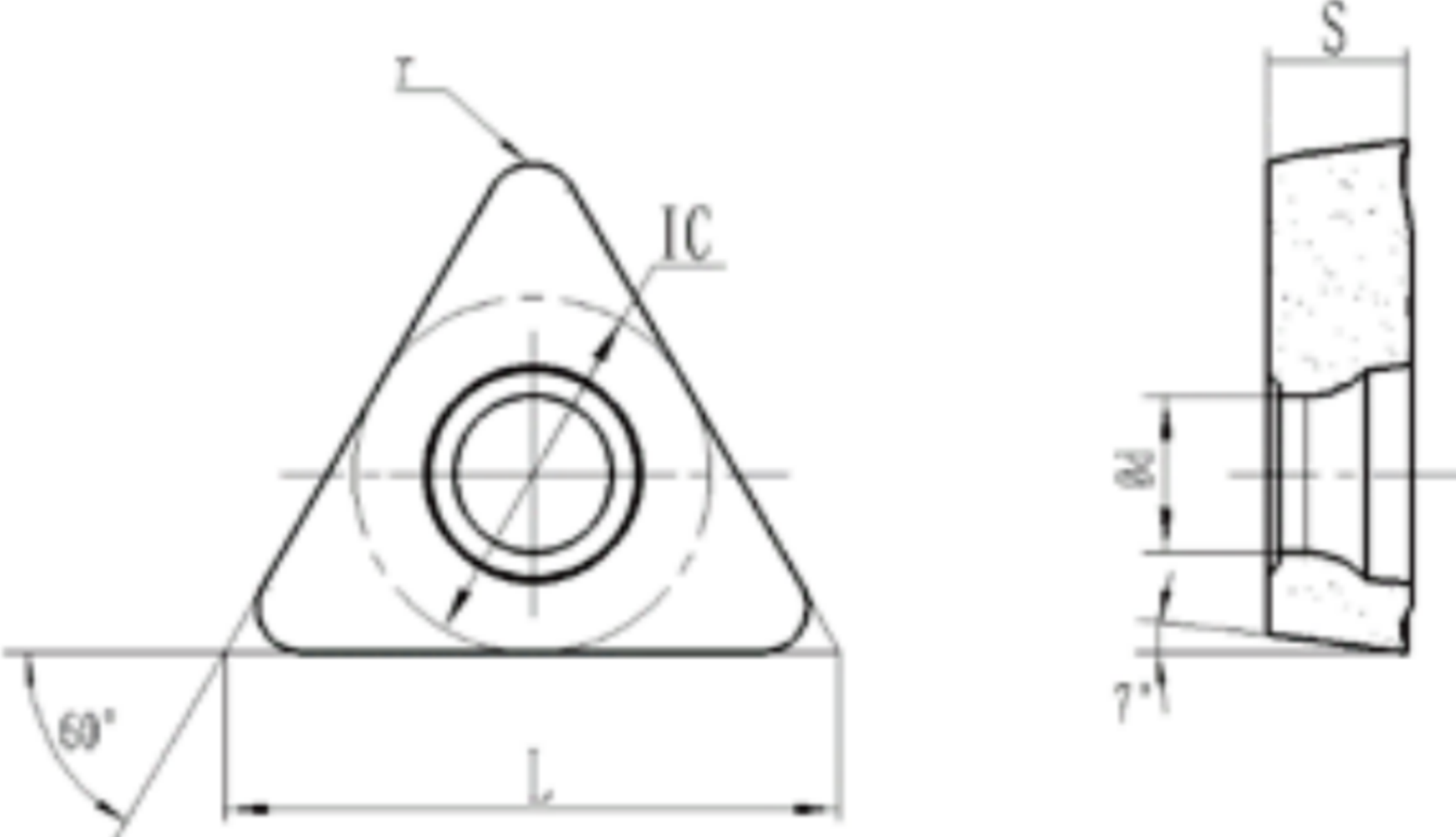
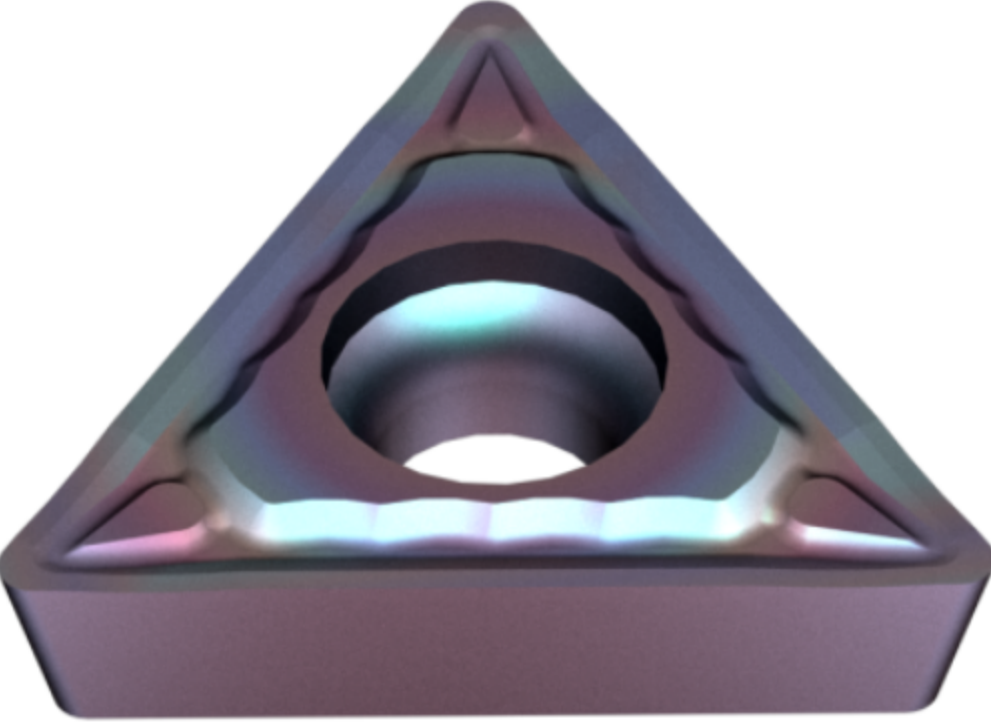
DN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	DNMG150408-BM1	12.7	4.76	12.9	5.16	0.4	★

★Featured Grade ○ Make-to-Order

List of Models

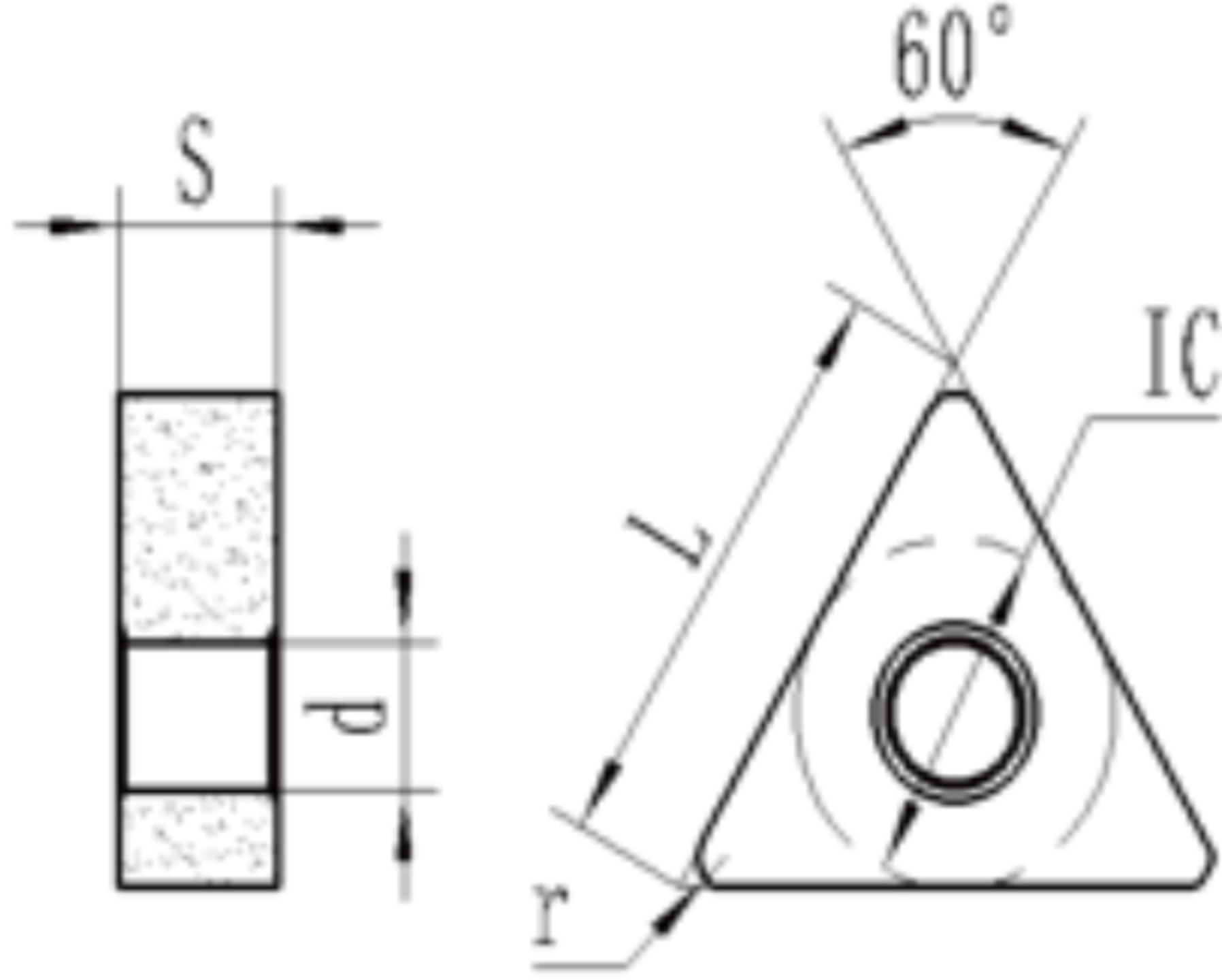
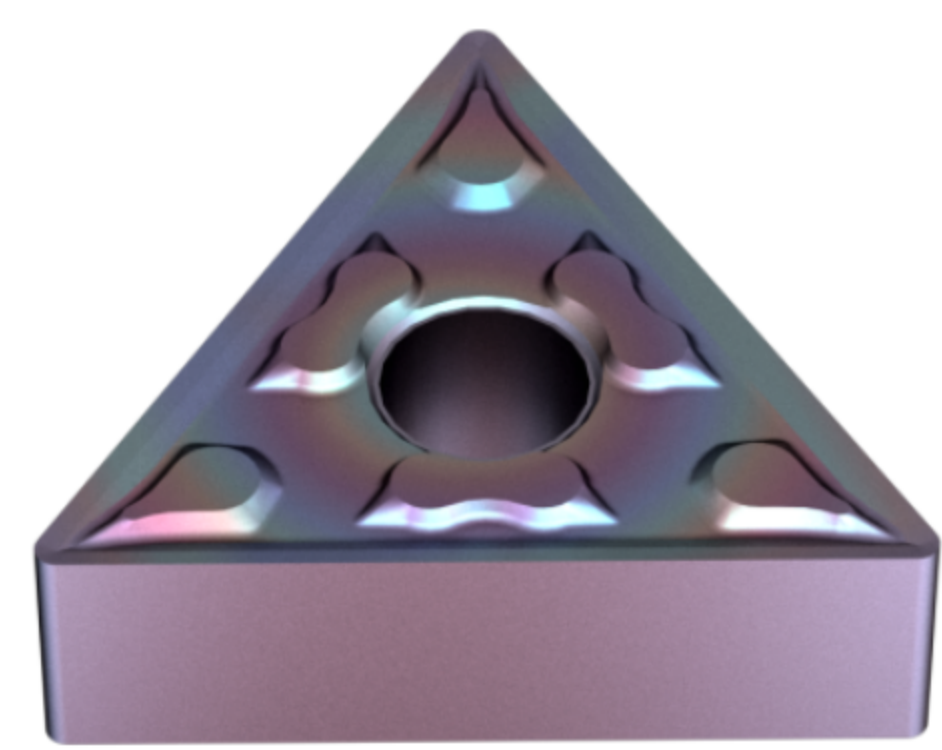
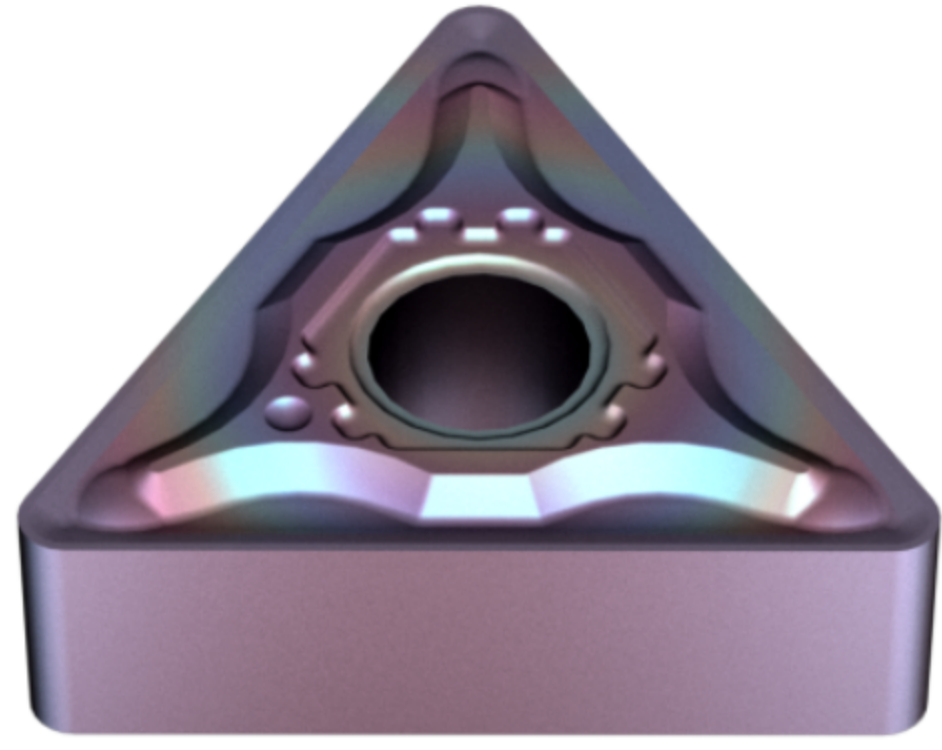
SN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	SNMG120404-BF2	12.7	4.76	12.9	5.16	0.4	★
	SNMG120408-BF2	12.7	4.76	12.9	5.16	0.8	★
	SNMG120412-BF2	12.7	4.76	12.9	5.16	1.2	★

★ Featured Grade ○ Make-to-Order

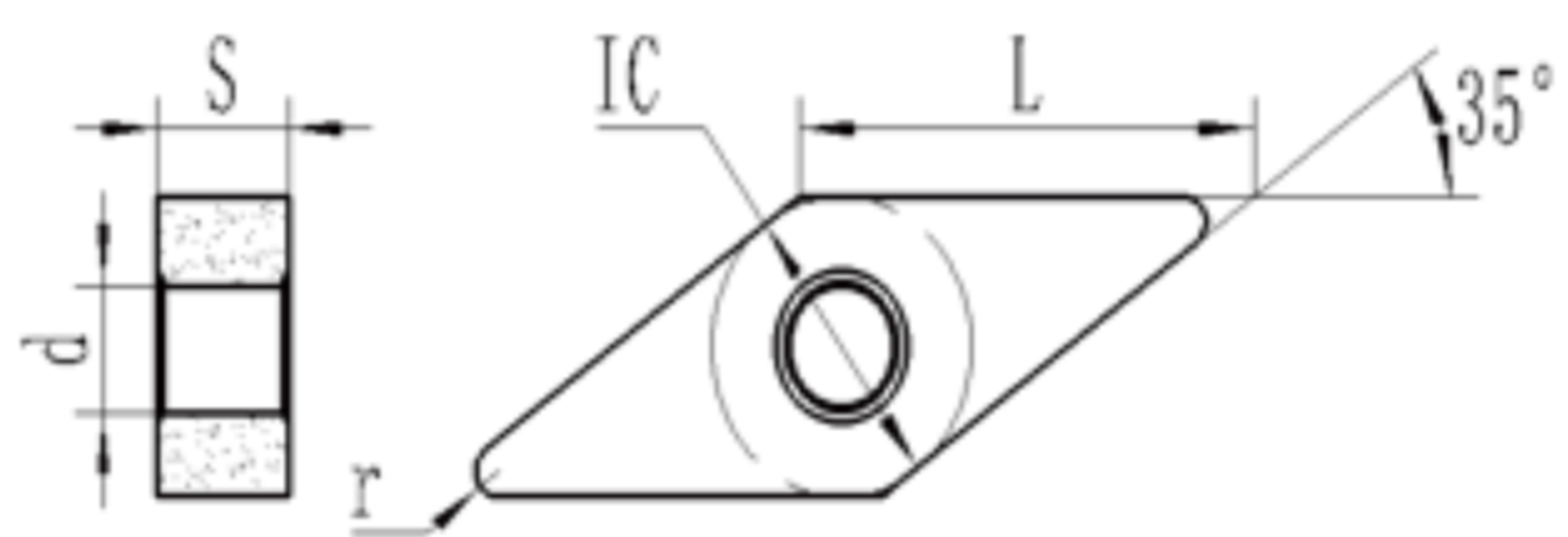
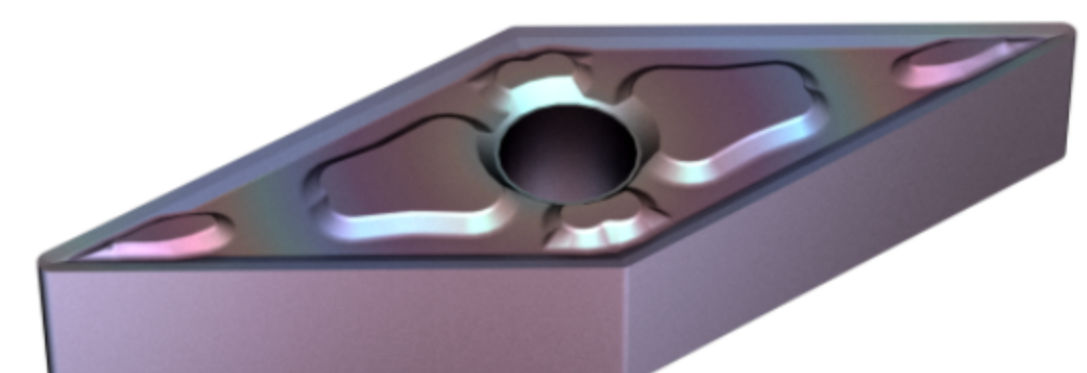
TC□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	TCGT110204-ZMF	6.35	2.38	11	2.8	0.4	★

★ Featured Grade ○ Make-to-Order

List of Models

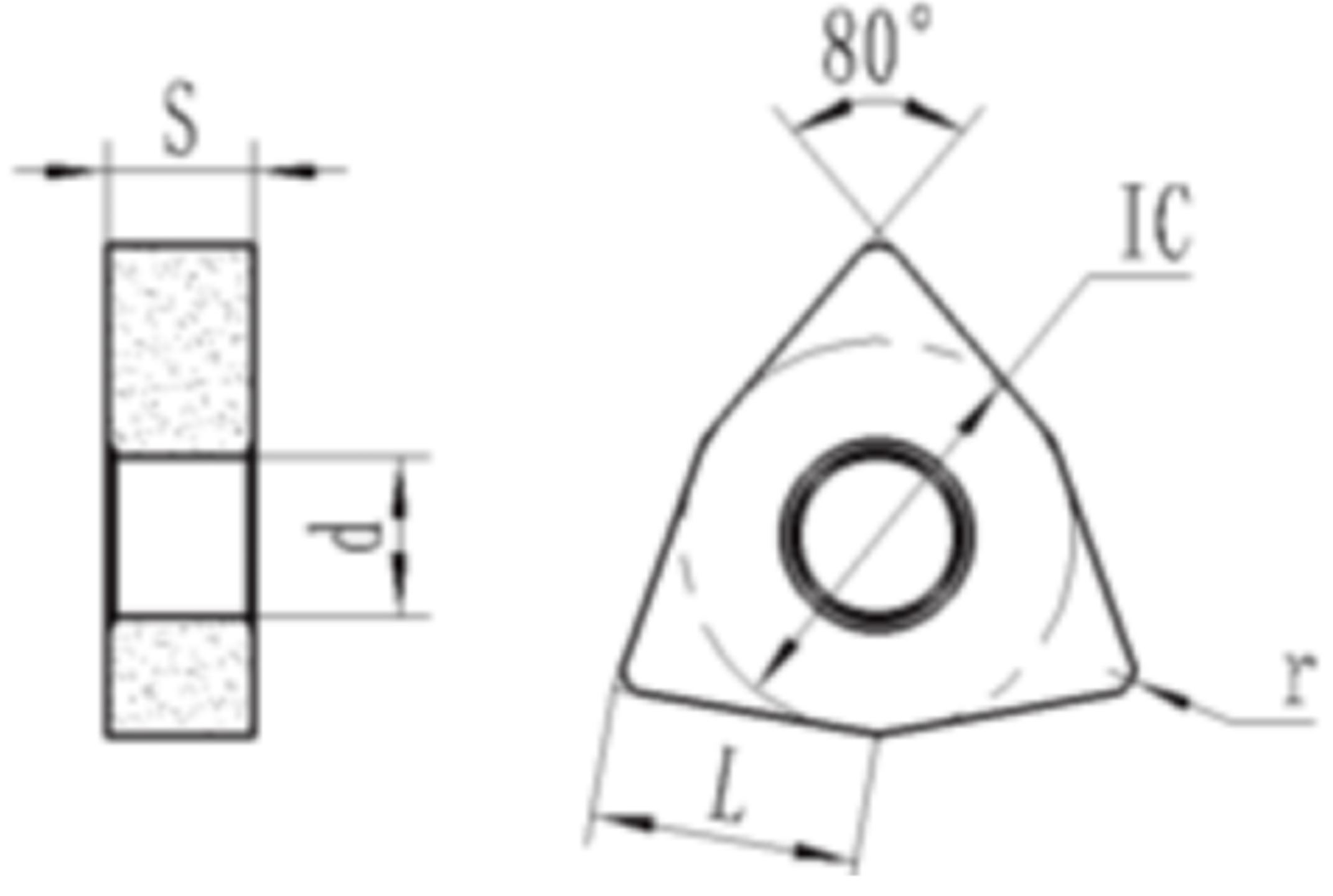
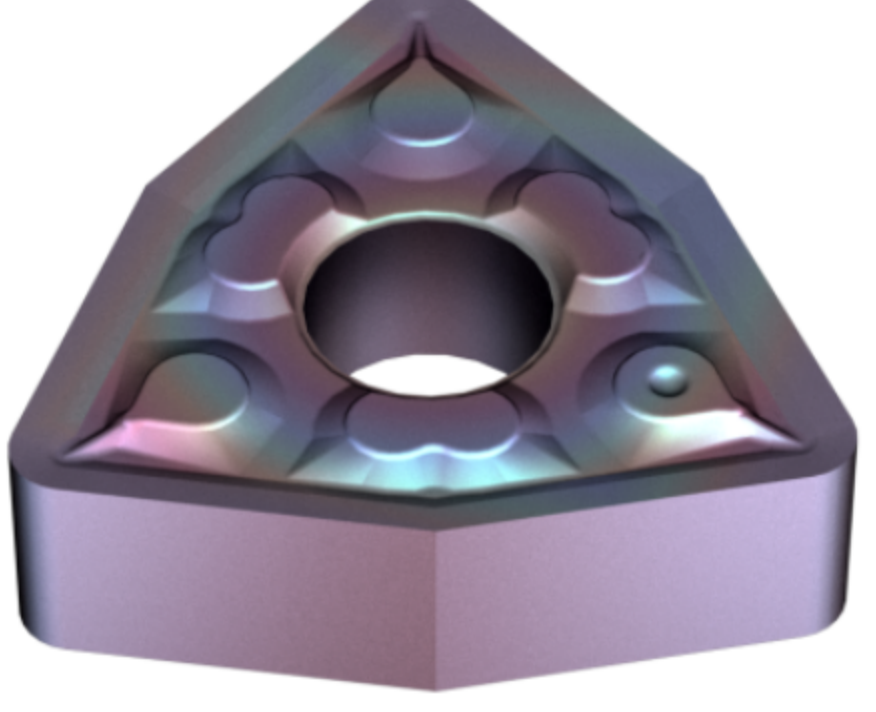
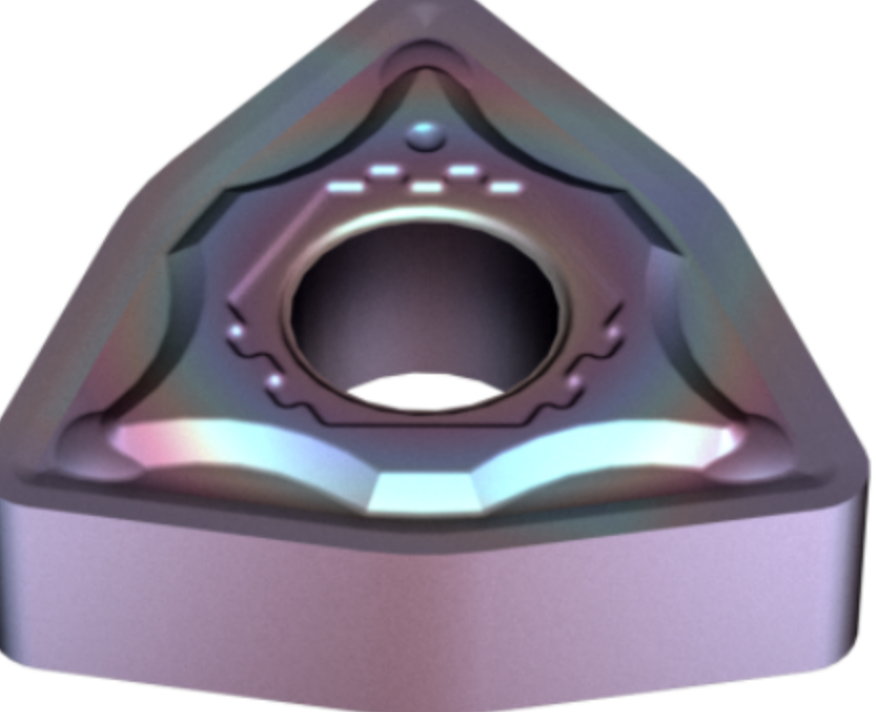
TN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	TNMG160404-BF2	9.525	4.76	16.5	3.18	0.4	★
	TNMG160408-BF2	9.525	4.76	16.5	3.18	0.8	★
	TNMG160408-BM2	9.525	4.76	16.5	3.18	0.8	★

★ Featured Grade ○ Make-to-Order

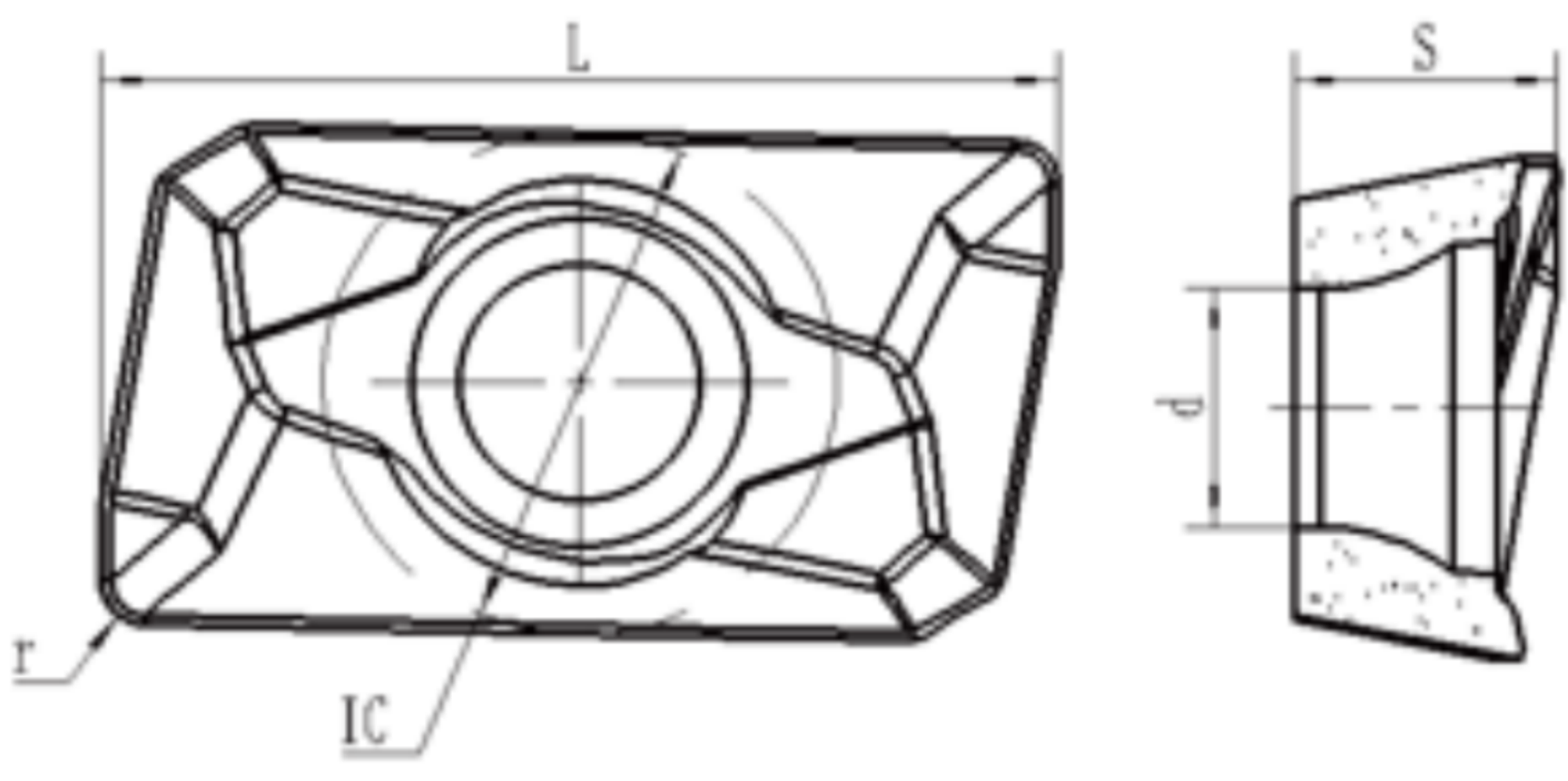




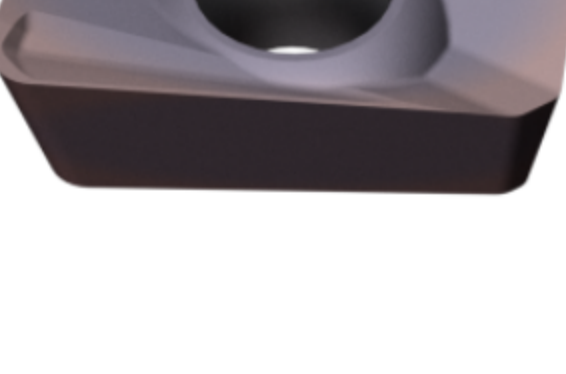

VN□□							
		Size(mm)				Grade	
Insert shape	Size	IC	S	L	d	r	AP105
	VNMG160404-BF2	9.525	4.76	16.6	3.81	0.4	★
	VNMG160408-BF2	9.525	4.76	16.6	3.81	0.8	★

★ Featured Grade ○ Make-to-Order

List of Models

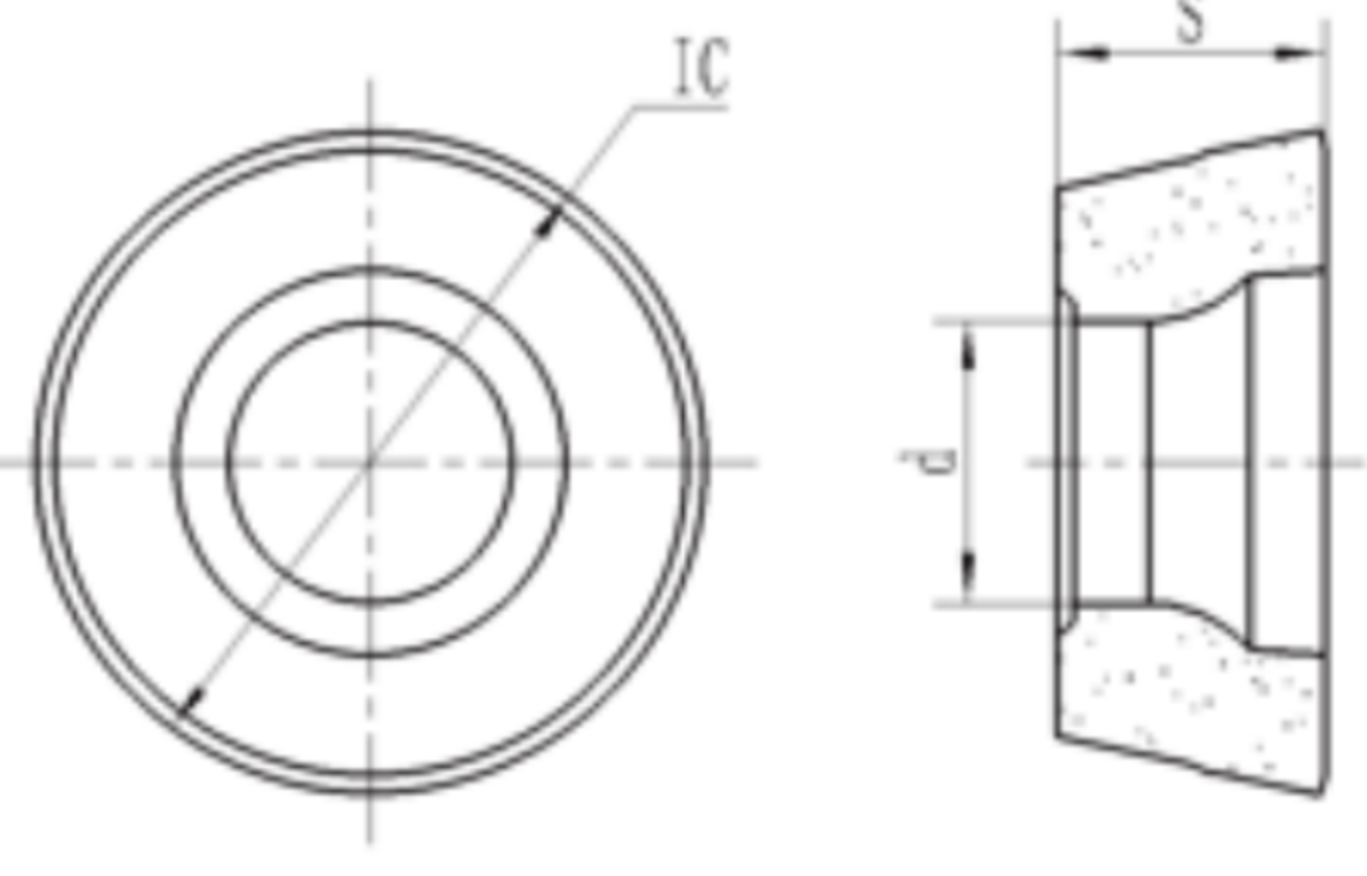


WN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	AP105
	WNMG080408-BF2	12.7	4.76	8.7	5.16	0.8	★
	WNMG080408-BM2	12.7	4.76	8.7	5.16	0.8	★

★ Featured Grade ○ Make-to-Order

AP□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW8110
	APMT1135PDR-M	6.2	3.5	11.30	2.8	0.8	★
	APMT160408PDR-M	9.24	4.76	17.18	4.4	0.8	★
	APMT1135PDR-DL	6.2	3.5	11.25	2.8	1.0	★
	APMT160408PDR-DL	9.35	5.2	17.35	4.4	0.8	★
	APMT1135PDR-H	6.2	3.5	11.20	2.8	0.8	★
	APMT160408PDR-H	9.3	4.76	17.08	4.4	0.8	★

★Featured Grade ○ Make-to-Order

List of Models

RD□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW8110
	RDMT10T300-HM	10.0	3.97	-	4.1	-	★
	RDMT120400-HM	12.0	4.76	-	4.4	-	★
	RDMW1003MO	10.0	3.18	-	4.6	-	★
	RDMW10T3MO	10.0	3.97	-	4.1	-	★
	RDMW1204MO	12.0	4.76	-	4.4	-	★
	RDMW1605MO	16.0	5.56	-	5.56	-	★

★Featured Grade ○ Make-to-Order

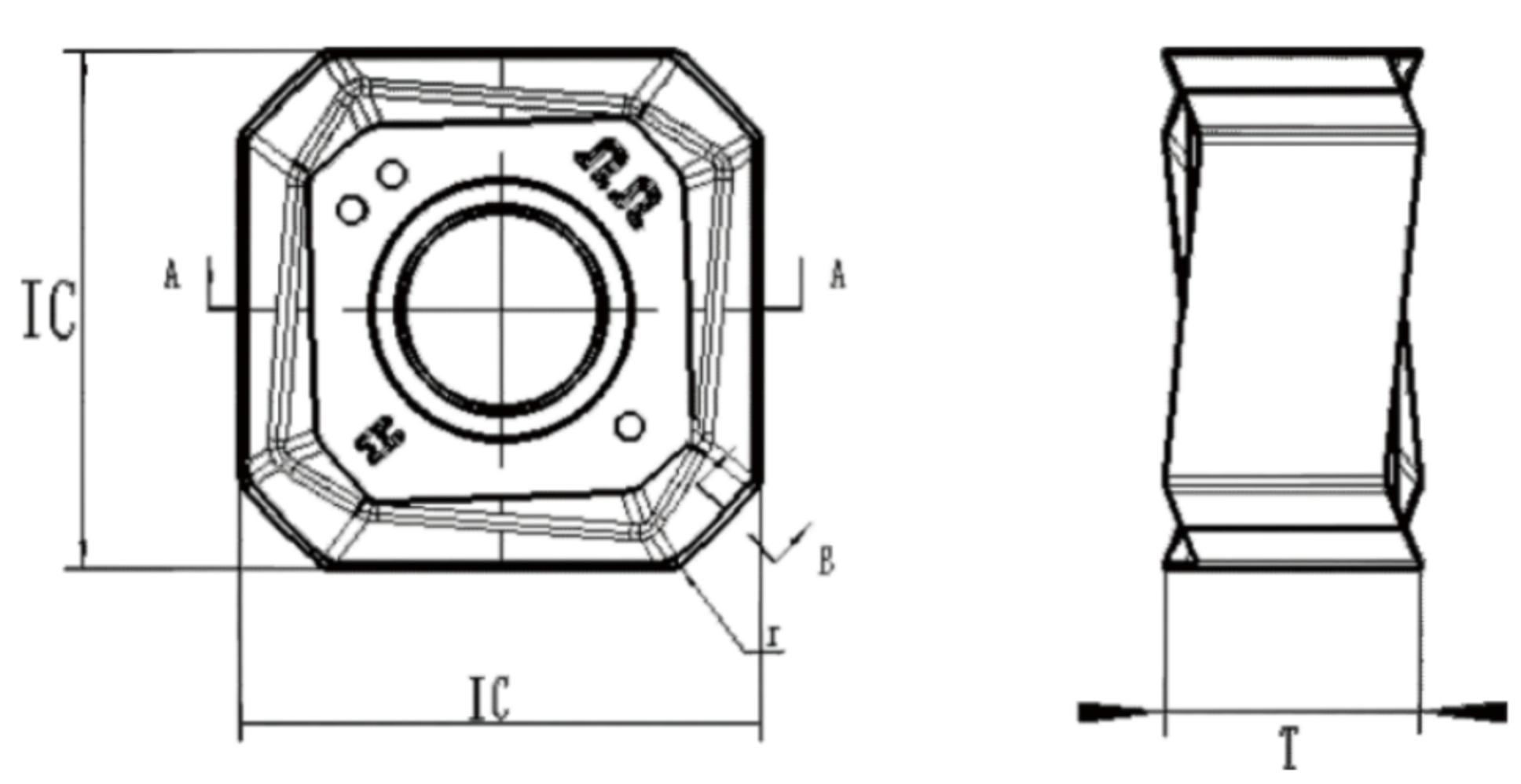
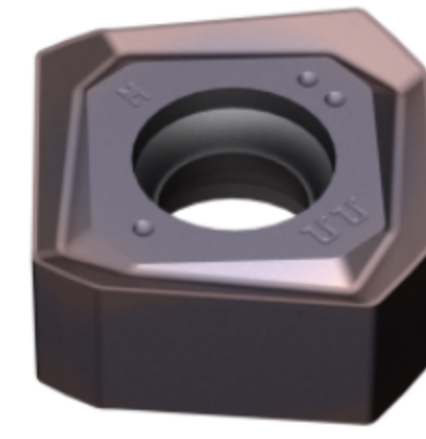
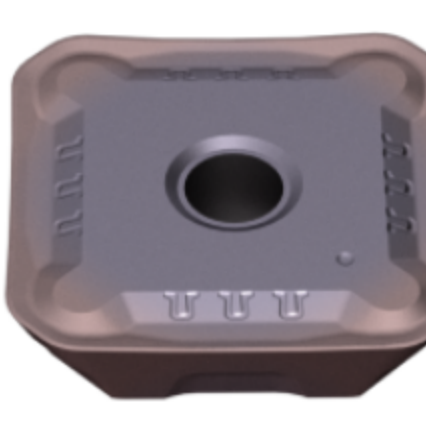
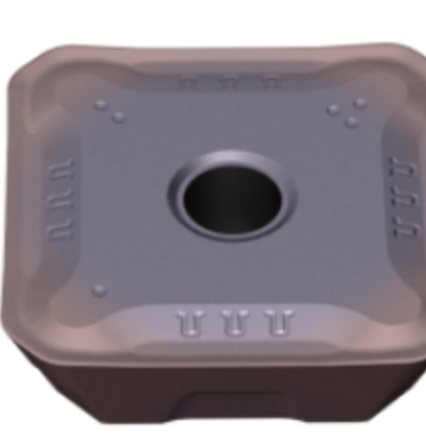
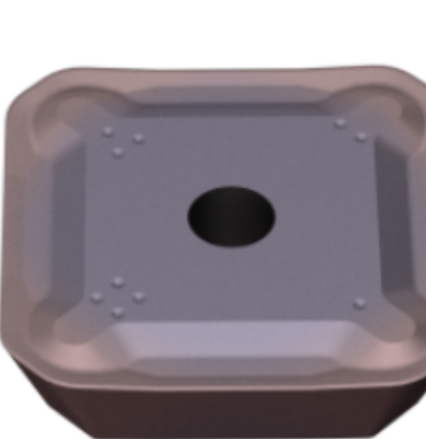


RP□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW8110
	RPMT0803MO-M	8.0	3.18	-	3.4	-	★
	RPMT10T3MO-M	10.0	3.97	-	4.6	-	★
	RPMT1204MO-M	12.0	4.76	-	4.1	-	★
	RPMW0803MO-M	8.0	3.18	-	3.4	-	★
	RPMW10T3MO-M	10.0	3.97	-	4.6	-	★
	RPMW1204MO-M	12.0	4.76	-	4.1	-	★

★Featured Grade ○ Make-to-Order

List of Models

WN□□							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW8110
	WNMU080608PEN-F	14	6.65	08	6.2	0.8	★
	WNMU080608PEN-M	14	6.65	08	6.2	0.8	★
	WNMU080608PEN-R	14	6.65	08	6.2	0.8	★

★ Featured Grade ○ Make-to-Order

Face milling insert							
		Size(mm)					Grade
Insert shape	Size	IC	S	L	d	r	GW8110
	SNEG1205ANR-M	12	5.88	-	4.6	0.6	★
	SEKR1203AFN-M	12.7	3.18	-	2.8	1.6	★
	SEKR1504AFN-M	15.875	4.76	-	2.8	1.6	★
	SEMR1203AFN-M	12.7	3.18	-	2.8	1.6	★
	SOMT1205-M	12.7	5.56	-	4.5	1.2	★
	SOMT1505-M	15.875	5.56	-	4.5	1.2	★

★ Featured Grade ○ Make-to-Order

 Add:No. 96 Nanyi Road, Chengdu Economic and Development
Zone.Longquanyi District,
Chengdu City, Sichuan Province

 Contact Information
(028) 88432471

CHENGDU
GREATWALL CUTTING TOOLS
CO.,LTD

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

