



GESAC CUTTING TOOLS

Precision Materials, Precision Tools

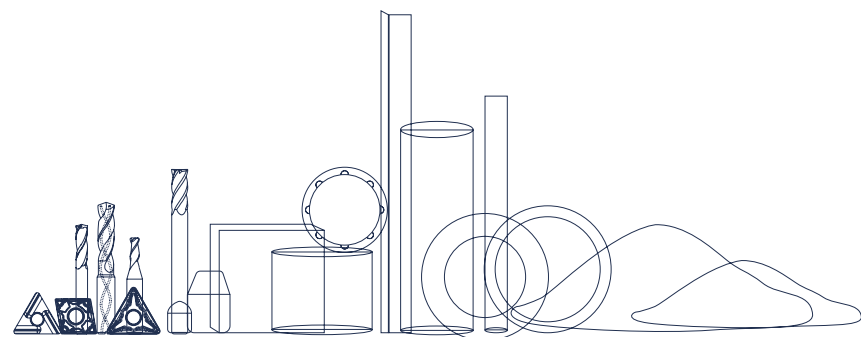
GESAC

XIAMEN GOLDEN EGRET SPECIAL ALLOY CO., LTD.



01 GESAC PROFILE

02 GESAC CUTTING TOOLS



01 GESAC PROFILE

WE ARE THE SUPPLIER OF TUNGSTEN POWDER, CEMENTED CARBIDE AND CUTTING TOOLS

Xiamen Golden Egret Special Alloy Co., Ltd. (GESAC), founded in 1989, is a Sino-foreign joint venture between Xiamen Tungsten Corporation(70%), one of six major rare earth groups in China, and A.L.M.T Corporation(30%), a subsidiary of Sumitomo Electric Industries. We are committed to the research & development and production of high-quality tungsten powder materials, cemented carbide, precision cutting tools and other tungsten products, as well as the provision of professional solutions in the industry.

GESAC BIG DATA



Revenue
640 Million USD



Employees
3200+



Total Assets
900 Million USD



Product Divisions
4



Production Bases
5



Patents
400+



Factory Area
600,000 m²



Subsidiaries
8

(By the end of 2023)



WE ARE A BACKBONE MEMBER OF XTC

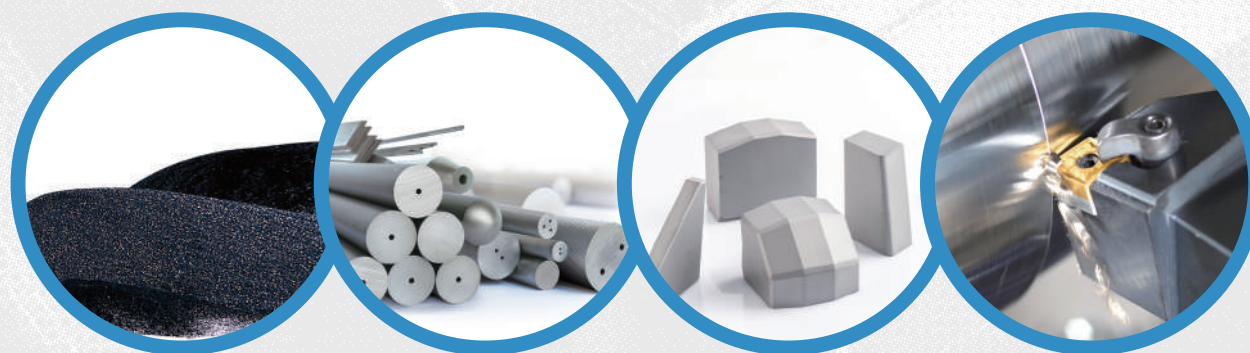
Xiamen Tungsten Co., Ltd. (XTC), founded in 1958, is the largest tungsten and molybdenum production and export enterprise in China. XTC has a significant advantage in tungsten ore resources and a national tungsten materials engineering technology research center. Through over 40 years of development, XTC has built a complete chain of tungsten industry ranging from front-end tungsten mine selection, mid-end tungsten and molybdenum smelting and production of tungsten and molybdenum powders, high-end to deep processing applications such as hard alloys, tungsten and molybdenum wire and cutting tools, with many technologies leading internationally.



*By the end of 2023

WE HAVE THE MOST COMPLETE TUNGSTEN INDUSTRY CHAIN

Relying on the XTC's complete tungsten processing industry chain and advanced technological platforms, GESAC provides global customers with a range of tungsten products and services with top cost performance and develops excellent products and comprehensive solutions in the modern industry.



W Powder
WC Powder

Carbide Rods

Mining Tips
Carbide Parts

Cutting Tools

GESAC CUTTING TOOLS

WE ARE YOUR MOST RELIABLE PARTNER

Since 2004, GESAC Cutting Tools Division has focused intensive-ly on the research and development of cutting tools for various applications. Taking advantage of the XTC's complete tungsten chain, we offer a wide range of precision tools for turning, milling, and holemaking. We also provide our customers with efficient tool solutions for various industries such as automotive, aerospace, mold, 3C, medical, general machinery, and the energy industry that will satisfy unique processing needs. Through continuous improvement of production technologies and significant investments in research and development, we are committed to providing our customers with high-quality products and comprehensive services.



GESAC Cutting Tools

5
types

300+
series

100,000+
SKUs



Turning



Milling



Hole-making



Tooling System



Intelligent Tool Cabinet

PRODUCT LINEUP

Turning

General Turning Tools

Negative Turning Inserts

Workpiece material	Series	Pic	Geometry
P	G Series		GF、GM、SV
	Q Series 		QF、QM、QR、QH
K	K Series		MK、UK、HK、Flat
M	S Series		SF、SM
	L Series 		YF、LF、LV、LM、LR
S	SM Series		SML、SMM
	E Series 		EL、EM
P M K	Turning Wiper Series		WMV

Positive Turning Inserts

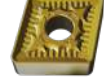
Workpiece Material	Series	Pic	Geometry
P M K	General Turning Inserts		MM
			GP 
			KM
N	N Series		AL



Learn More

Turning

Special Turning Tools for Industry

Workpiece Material	Industry Tools Series	Series	Pic	Geometry
P M	 Small Parts Turning Inserts 	General Geometry		P、G、S
		3D Geometry		AF、BF、AK、BK、MM
		Back Turning		GSAB、GSTB
		Parting&Grooving		GSTC、GSTS
		Threading Turning		GSTT
P	Track Turning Inserts	Railway Tuning Round Inserts		RCMX
		Train Wheel Repair Inserts		LNMX
		Heavy Turning		PX、PY、PH

Turning

Threading Tools



Item	Thread Code	Diagram	Without grinding TC-Pitch	Finishing-Pitch
				
General	60°		0.5-5.0(mm)	0.5-5.0(mm)
	55°		48-5(TPI)	48-16(TPI)
Metric/US	ISO		1.0-6.0(mm)	0.5-2.0(mm)
	UN		24-8(TPI)	20-7(TPI)
Pipe Thread	NPT		27-8(TPI)	27-11.5(TPI)
	W		19-11(TPI)	Development Available
	BSPT		28-11(TPI)	14-11(TPI)
Round Thread	RD(DIN304)		10-4(TPI)	10-4(TPI)
	RD(DIN20400)		-	Development Available
Trapezoidal Thread	TR		-	1.5-6.0(mm)
	ACME		-	12-4(TPI)
	STACME		-	14-4(TPI)
Buttress Thread	ABUT		-	16-10(TPI)
	BBUT		-	Development available
	SAGE		-	2-4(mm)
Oil Pipe	API		-	5-4(TPI)
	BUT		-	Development Available
	APIRD		-	10-8(TPI)
	EL		-	Development Available
Aerospace	MJ		-	1.0-2.0(mm)
	UNJ		-	32-16(TPI)
Other Thread	PG		-	Development Available
	VAM		-	Development Available
	H90		-	Development Available

Turning

Parting and Grooving Tools



Type	Series	Pic	Geometry	Type/ Edge	Grooving	Parting	Turning	Profiling
								
Double Head Grooving	GKD		MT、MR	2	○	○	●	●
	GTD		FC、MC、RC、FG、MG、FT、MT、OR、MR	2	●	●	●	●
Finishing Shallow Grooving	GB		GB、GBR	3	●	-	-	●
	G-NOTCH		GNGP、GNR	2	●	-	-	●
			GNGDP、GNRD	1	●	-	-	●
Small Parts	GST		GSTC、GSTS	2	●	●	-	-

- Main processing conditions
- Non-main processing conditions

Milling

Indexable Milling Tools



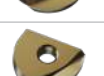
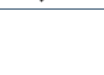
Face Milling

Type	Series	Pic	Workpiece Material
Positive	SEE(M)T+MFA145		PMSKN
	ODK(M)T+MFA143		PMSKN
Negative	SNE(M)U+MFB145&245&275&288		PMSKN
	HNE(M)X+MFB160&260		K
	 HNG(K)U+MFC115&145&160		PMS
High Feed	UD(UP)+MKA110		PMS
	SDMT+MKB113		PMS
	 SOE(M)T+MKT113&213		MS
	 LNMX+MKF115		PMS

Slot Milling and Chamfer Milling

Type	Series	Pic	Workpiece Material
Chamfer	SPMT+MCA130&145&160		PMS
Medium Slot	CNEU+MSA110-113		PMS
Narrow Slot	SNEX+MSA104-108		PK

Profile Milling

Type	Series	Pic	Workpiece Material
General	RD+MPA100		PMSH
	RP+MPB100		PMS
	RC+MPC100		PMS
Ball Nose	QTD+MBA100		PKSH
	QTD-S-T+MBA100&200 		PH
	QTD-V-S+MBB100&200 		H
Corner Radius	ZCEG+MRA100&200 		PH
Tapered Ballnose	SMR-H+MLA200 		PMS

Shoulder Milling

Type	Series	Pic	Workpiece Material
Positive	APM(G)T+MEA190		PMSKN
	APK(E)T+MEB190		PMSKN
	ADGT+MET190 		PMS
	APEW+MEJ190 		H
	SDKT+MES190		PMS
Aluminium	XDHT+MEH190		N
Negative	ANKX+MEC190		PMS
	WNG(M)U+MEE190 		PMS
Vertical	LNE(M)T+MVA190&290		PMS

Milling

Solid Carbide Endmills



Workpiece Material		Processing Form	Product Series	
P K		General Machining	UP210	
		Roughing	UPN210	
			UPR210	
			UPR300	
		High Efficiency Machining	SP210	
			PP300	
		Micro Machining	SPM200	
N	Aluminium Alloys , Copper Alloys	General Machining	UA100	
		Roughing	SA210	
		High Speed Machining	SA300	
			SA300-WF	
			SA300-SF	
		High Efficiency Machining	SA100	
		Special Machining	SA160	
	Graphite	General Machining	SG200/SG200-M	
	Composite Material	General Machining	SD200	
	Zirconia	Special Machining	SM200	

Milling

Solid Carbide Endmills

Workpiece Material	Processing Form	Product Series	
M	General Machining	US200	
		US260	
S	High Efficiency Machining	SS600	
	General Machining	ST210	
		SN200	
	High Efficiency Machining	ST300	
	Special Machining	STB200	
H	General Machining	SH160 (45-55HRC)	
		SH260 (30-60HRC)	
	High Speed Machining	SH360 (45-65HRC)	
	High Feed Machining	FH200 (≤65HRC)	
	Micro Machining	SHM200 (≤65HRC)	

Holemaking

Roughing Process



Type	Series	Pic	Workpiece Material
3D-5D Twist Drill	D918S 		
	D928		
	D966		
	D968S		
	D998		
3D-40D Twist Drill	D938 		
Centering Drill	D101/D102/D103		
Indexable Insert Drill	GHDS Series		
Spade Drill	GSD Series		
Modular Drill	GUMD  Series		
Micro Twist Drill	Customization		
Flat Drill	Customization		
3 Flutes Drill	Customization		

Holemaking

Finishing Process



Type	Series	Pic	Workpiece Material
Reamer	Customization		
Modular Reamer	Customization		
Micro Boring	GPT Series		
	GMT Series		
	GHT Series		
Boring System	GBR Series		



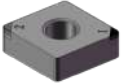
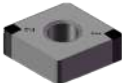
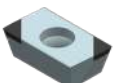
Threading Process

Type	Series	Pic	Workpiece Material
High-performance	T118 		
	T128 		
Economical	ET128 		
	ET138 		
	ET168 		
	ET166		

PCBN/PCD Tools

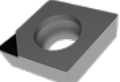
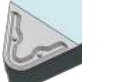
PCBN Tools



Item	Applications	Type	Series	Pic
Indexable Tools	Turning	Brazed	YP 	
		Brazed Solid	YZ	
		Solid	YS	
	Parting&Grooving	Precision Grooving	GB	
		General Grooving	GTD	
	Milling	Face Milling	SNGN	
		Shoulder Milling	APGW	
Solid PCBN Tools	Milling	Ballnose	Micro Endmill	
	Hole-making	Boring	Micro Boring	

PCBN/PCD Tools

PCD Tools

Item	Applications	Type	Series	Pic
Indexable Tools	Turning	Positive	GB/KB 	
		Geometry	DNF/DNM	
	Parting&Grooving	Precision Grooving	*GB	
		General Grooving	*GTD	
	Milling	*Face Milling	Customization	
		Shoulder Milling	APGW/APGT	
Solid PCD Tools	Milling	Endmill	DNM100	
		Face Milling	Customization	
		Forming	Customization	
		Wave Flute	DNR100	
		Corn Milling	Customization	

*Customised products

PCBN/PCD Tools

PCD Tools

Item	Applications	Type	Series	Pic
Solid PCD Tools	Hole-Making	Reamer 	Normal	
			Guide Bar	
		Countersink Drill	DND100	
		*Twists Drill	Customization	
		*Straight Drill	Customization	
		*Step Drill	Customization	
		Borning	Customization	

*Customised products

Insert Grades

Recommendation for Turning Grade and Geometry Choice

Material	Coated	Grade	Vc (m/min)	01	10	20	30	40	50	Turning Insert (Negative)	Turning Insert (Positive)
P	CVD	GPT6110	140-400								
		GPT6120	80-320								
		GPT6130	70-320								
		GP1105	80-320								
		GP1115	120-360								
		GP1120	110-360								
		GP1225	70-320								
		GP1130	90-300								
		GP1135	60-300								
	Cermet	GP91TM	150-350								
	Coated Cermet	GP31TM	180-380								
M	CVD	GM1115	180-300								
		GM1230	160-280								
	PVD	GM3215	100-250								
		GM3220	60-180								
		GM3225	60-180								
	Cermet	GP91TM	150-350								
	Coated Cermet	GP31TM	180-380								
K	CVD	GK1115	180-500								
		GK1120	160-360								
		GK1125	160-500								
	Cermet	GP91TM	150-350								
	Coated Cermet	GP31TM	180-380								
	CBN	BKN115P	400-1500								
		BKN225S	400-1200								
		BKN225Z	400-1200								
Coated CBN	BKC120P	150-500									

Insert Grades

Recommendation for Turning Grade and Geometry Choice

Material	Coated	Grade	Vc (m/min)	01	10	20	30	40	50	Turning Insert (Negative)	Turning Insert (Positive)
N	PVD	GNT7120	250-1500								
	Carbide	GN9115	250-970								
		GN9120	250-960								
		GN9130	250-950								
	PVD	DNN125P	10-3000								
S	PVD	GS3115	30-80								
		GS3125	30-80								
		GST7120	30-80								
		GST7115	15-70								
		GST7130	20-40								
	CBN	BSN115P	150-260								
H	CBN	BHN225S	120-190								
	Coated CBN	BHC115P	120-220								
		BHC125P	100-180								
		BHC135P	80-150								
		BHC210P	140-260								
		BHC225P	120-220								
		BHC215Z	120-230								
		BHC225Z	120-200								

Recommendation for Small Part Turning Grade and Geometry Choice

Material	Coated	Grade	Vc (m/min)	01	10	20	30	40	50	Turning Insert (3D Geometry)	Turning Insert (General Geometry)
P	PVD	GAT7115	60-180								
		GAT7120	40-140								
		GAT7120A	50-160								
		GAT7125	40-150								
M	PVD	GAT7115	60-150								
		GAT7120	40-120								
		GAT7125	40-130								

Insert Grades

Recommendation for Milling Grade

Material	Coated	Grade	Vc (m/min)	01	10	20	30	40	50
P	PVD	GA4225	100-260						
		GA4325	80-260						
		GA4230	70-280						
		GP4225	110-260						
		GPM7120	120-260						
	CVD	GP2115	110-320						
M	CVD	GM2140	80-250						
		GM4135	80-220						
	PVD	GM4240	120-280						
K	PVD	GK4125	140-250						
	CVD	GK2115	140-350						
N	PVD	GNT7120	300-900						
	/	GN9125	200-600						
S	PVD	GS4130	30-80						
		GSM7130	20-80						
H	PVD	GHM7120	100-250						
		GH4115	100-200						

Recommendation for Hole-Making Grade

Material	Coated	Grade	Vc (m/min)	01	10	20	30	40	50
P	PVD	GA4230	80-280						
		GPD7115	60-160						
M	PVD	GM3220	60-200						
		GM3225	60-200						
S	PVD	GS4130	30-80						

Tooling Systems



Hydraulic Chuck	Shrink Chuck	PSC Products	General Holder				Boring Tools	
			ER Series	Side-Lock	Strength	Face Milling	Roughing Boring	Finishing Boring
								

Intelligent Tool Cabinet



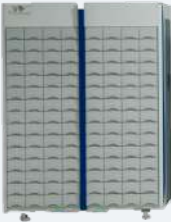
Spring Main Cabinet
GESAC-TH-80Z



Spring Auxiliary Cabinet
GESAC-TH-80F



Separable Drawer
GESAC-CT



Auxiliary Drawer
GESAC-CT-120F



Recycling Cabinet
GESAC-HS-2

Forming & Expanding Tools

Forming Tools

*Broach Tools		*Forming Milling Tools	*Forming Gear Tools
Round Broach	Plane Broach	Christmas Tree Endmill	Disc Gear Milling Tools
			

*Non-Standard Product, Customized On Demand

Expanding Tools

*Gear Rolling Tools	*Worm Gear and Rod Tools
	

*Non-Standard Product, Customized On Demand



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