



CEO Greeting

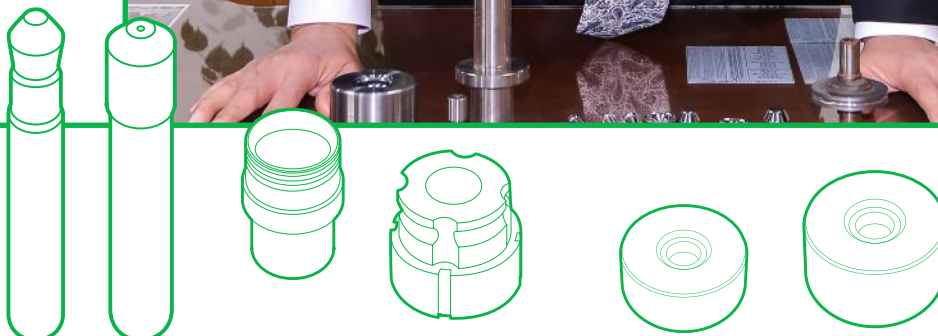
**Since its establishment in 1992,
Gun Woo Garbide has been growing steadily
with your support and advices.**

Since its establishment in 1992 as Gun Woo Carbide Industry, Gun Woo Carbide Co., Ltd. has been well-received not only by Korean companies but also by major importers of such Asian countries as Japan, Singapore and Malaysia on the strength of our new products based on technology development and the spirit of challenge. Currently, we export 80% of our sales to advanced countries such as the US, UK, Germany and France, and we are doing our best to meet the demands of our customers at the level of their eye-sight.

We believe that these achievements are the results of care that our customers showed us as a sign of their trust. In the future, we will redouble our effort to give the greatest satisfaction and impression to our customers.



CEO/Chairman
Gun Young, Lee



Certification & Awards

Certification



ISO9001



ISO14001



INNO-BIZ



MAIN-BIZ



R & D Center Attached to the Company



Promising SMB Export Company Certification



Utility Model Registration



Excellent Quality Certification



Technology Evaluation Excellent Company Certification



Excellent Businessman Certification



Hidden Champion Certification

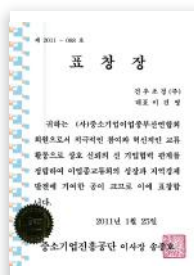
Awards



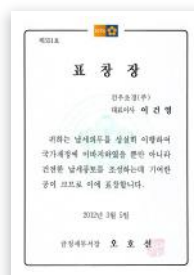
Chairman of Korea Inter-Industry Alliance Citation



CLEAN Business Site Certification



SMB Promotion Corporation Citation



Tax Office Award of Citation

✧ Technology & Business line



GENERAL PURPOSE LATHE



MILLING MACHINE



WIRE CUTTING MACHINE



PROFILE MACHINE



GRINDING SHOP



GRINDING SHOP



LAPPING SHOP



PROJECTOR



HARDNESS TESTING MACHINE

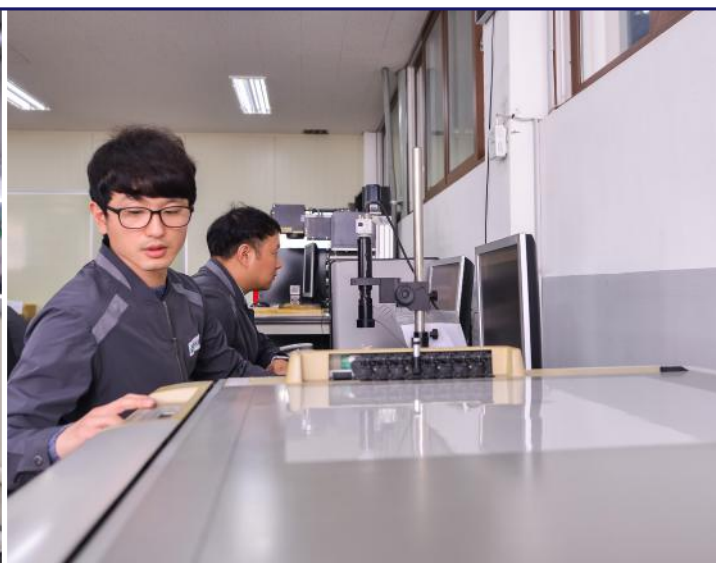
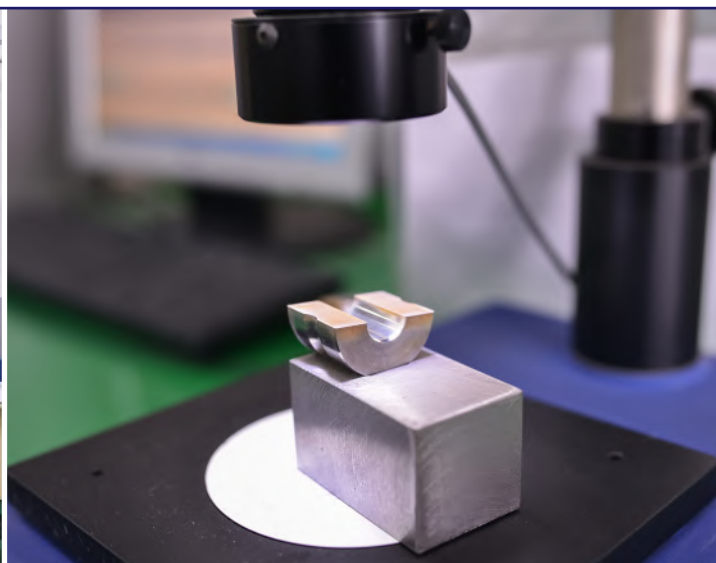


CHART PLOTTER



CYLINDRICAL GRINDING



ELECTRONIC MICROSCOPE

Main Products



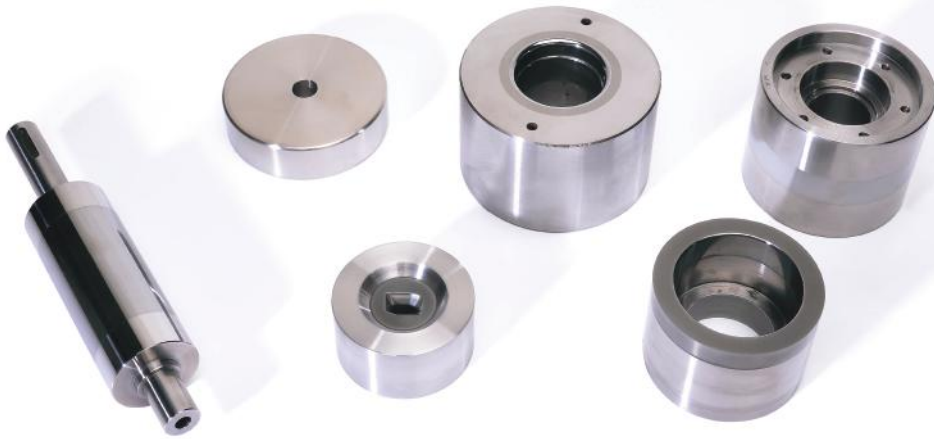
01 Tungsten-Carbide

A hard alloy made by tungsten carbide and cobalt powder with excellent wear resistance. It is used as a die, plug, cutter, roll, etc., and maintains a much better life span than steel products.





Main Products



02

Dies / Plug (Heading Die, Drawing Die, Ball Die, Specialty Die, Trimming Die)

Frames used for plastic processing of metals such as forge welding, drawing processing, extrusion processing and press processing. Female types of the product are sculpted using the tool steel, and the material is inserted between the two molds for forging or pressing.

1. Heading Die

Dies used in forging machines or presses to generate the head of bolts, rivets and similar parts.



Main Products



1. Heading Die



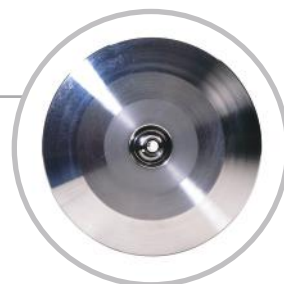
2. Drawing Die

Dies for obtaining a section product according to the required dimension, shape, and hardness by drawing a rod or pipe through a smaller dimension die.



3. Ball Die

Dies for making bearing balls used in various bearings.



4. Specialty Die

Dies made of wire cutting or electric discharge machining to draw rods or pipes that are non-cylindrical but square or special shape.



Main Products



5. Plug

Form the inner diameter by fixing the pipe to be located at the center of the dies when drawing AP, AP, FP, Defomed plug manufacture.



03

Bush (Car Guide Bush, Gun Drill Bush, Fixed Bush)

The role of guiding drills or reamers to the correct location when drilling holes in a workpiece.



04

Punch & Pin

Dies for drilling holes in workpieces or for processing the head of bolts, rivets and similar parts.

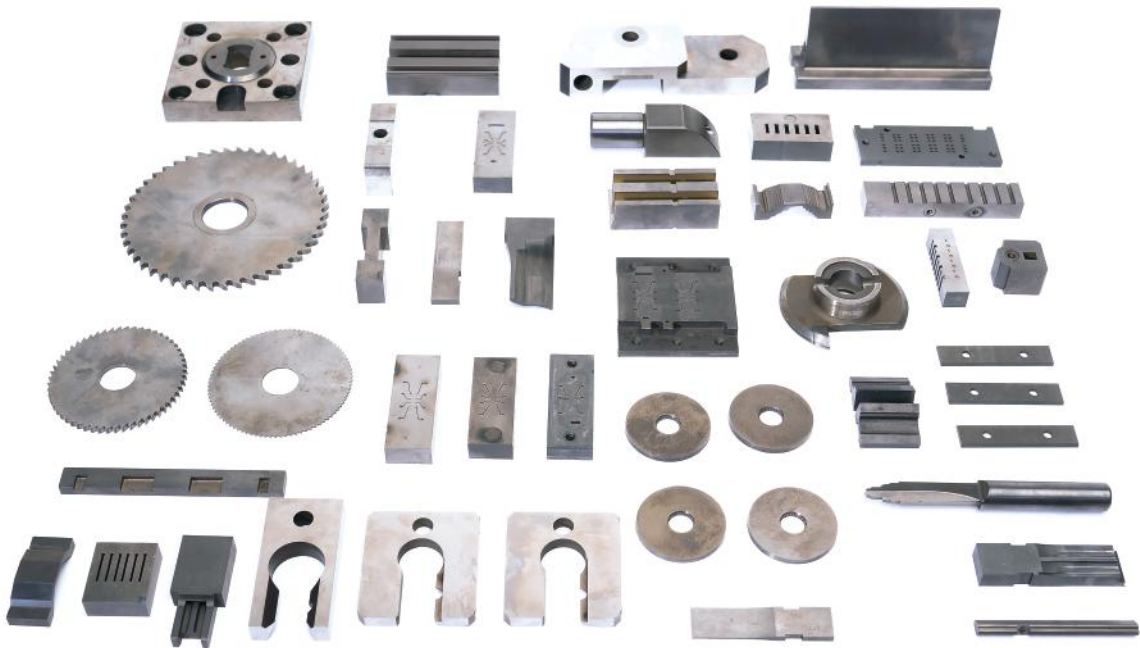




05

Semi Conductor Mold & Cutter & Gauge

- **Mold** Used as semiconductor injection mold.
- **Cutter** A rotary cutter for cutting products or digging grooves by rotating, and a fixed cutter and a mobile cutter for cutting rods as a set.
- **Gauge** An instrument made to measure dimensions such as diameter and thickness. Used mainly as a test gauge for mass production of small varieties by using go / no go gauge.



06

Roll/TC Housing

It is used as a shaft guide for various steel, galvanized sheet iron, and aluminum steel plate. It is also used when rolling steel plate using both rolls.



07

Carbide Nozzle

A product that uses hard-metal to increase the wear resistance of the inner diameter or nozzle to excrete liquid, gas, and flame at high speed.





Grade & Properties

No.	Grade	Blend adjustment		Physical properties				
		WC particle size	Co+etc.	Hardness		Deflective strength	Specific gravity	
		μm (wt.%)	wt.%	HRA	Range	kgf/mm ²	-	Range
1	KFD25	Ultrafine	15.2	92.0	±0.5	350<	14.00	±0.05
2	KEA60	Coarse	17.0	85.5	±0.8	280<	13.90	±0.10
3	KEA70	Coarse	20.0	84.3	±0.8	275<	13.65	±0.10
4	KEA80	Coarse	22.0	83.5	±0.8	275<	13.40	±0.10
5	KVA70	Coarse	18.0	84.0	±0.8	245<	13.80	±0.10
6	KVA80	Coarse	22.0	82.5	±0.8	245<	13.45	±0.10
7	K40	Fine	10.0	90.0	±0.5	290<	14.50	±0.10
8	KRD20	Medium	7.3	91.5	±0.8	305<	14.80	±0.05
9	KG2	Fine	5.9	92.0	±0.5	250<	15.00	±0.10
10	KFD15	Fine	12.0	91.0	±0.5	325<	14.30	±0.05
11	KG3	Medium	8.0	91.0	±0.5	290<	14.70	±0.10
12	JR60	Extra Coarse	15.0	85.0	±1.0	210<	14.00	±0.10
13	JSF13	Ultrafine	12.7	92.5	±0.5	320<	14.20	±0.10
14	JF12	Submicron	12.0	90.5	±0.5	330<	14.30	±0.10
15	UF10	Submicron	10.3	92.5	±0.5	300<	14.35	±0.10
16	UF20	Fine	12.3	90.5	±0.5	330<	14.25	±0.10
17	UF30	Medium	15.8	88.5	±0.5	330<	13.85	±0.10
18	KFRT15	Fine	14.5	90.5	±0.5	295<	14.15	±0.05
19	KRD50	Medium	14.7	89.0	±0.8	325<	14.00	±0.10
20	KVA40	Coarse	9.0	87.5	±0.8	255<	14.65	±0.10
21	JA50	Medium	14.0	88.5	±1.0	310<	14.15	±0.10
22	KVA60	Coarse	15.0	85.0	±0.8	245<	14.05	±0.10
23	KG4	Medium	10.0	90.0	±0.5	300<	14.55	±0.10
24	KG5	Medium	12.0	89.0	±0.5	310<	14.35	±0.10
25	JA30	Medium	11.0	89.5	±1.0	310<	14.45	±0.10
26	KG6	Coarse	15.0	86.5	±1.0	290<	14.00	±0.10
27	KG7	Coarse	18.0	85.0	±1.0	270<	13.72	±0.10
28	KM8	Extra Coarse	22.8	82.3	±1.0	260<	13.25	±0.10
29	KM9	Extra Coarse	24.0	81.8	±1.0	250<	13.15	±0.10

Microstructure (x1000)

JF series



UF series



KG series



JA series



KM series



JR series



KEA series



KVA series

