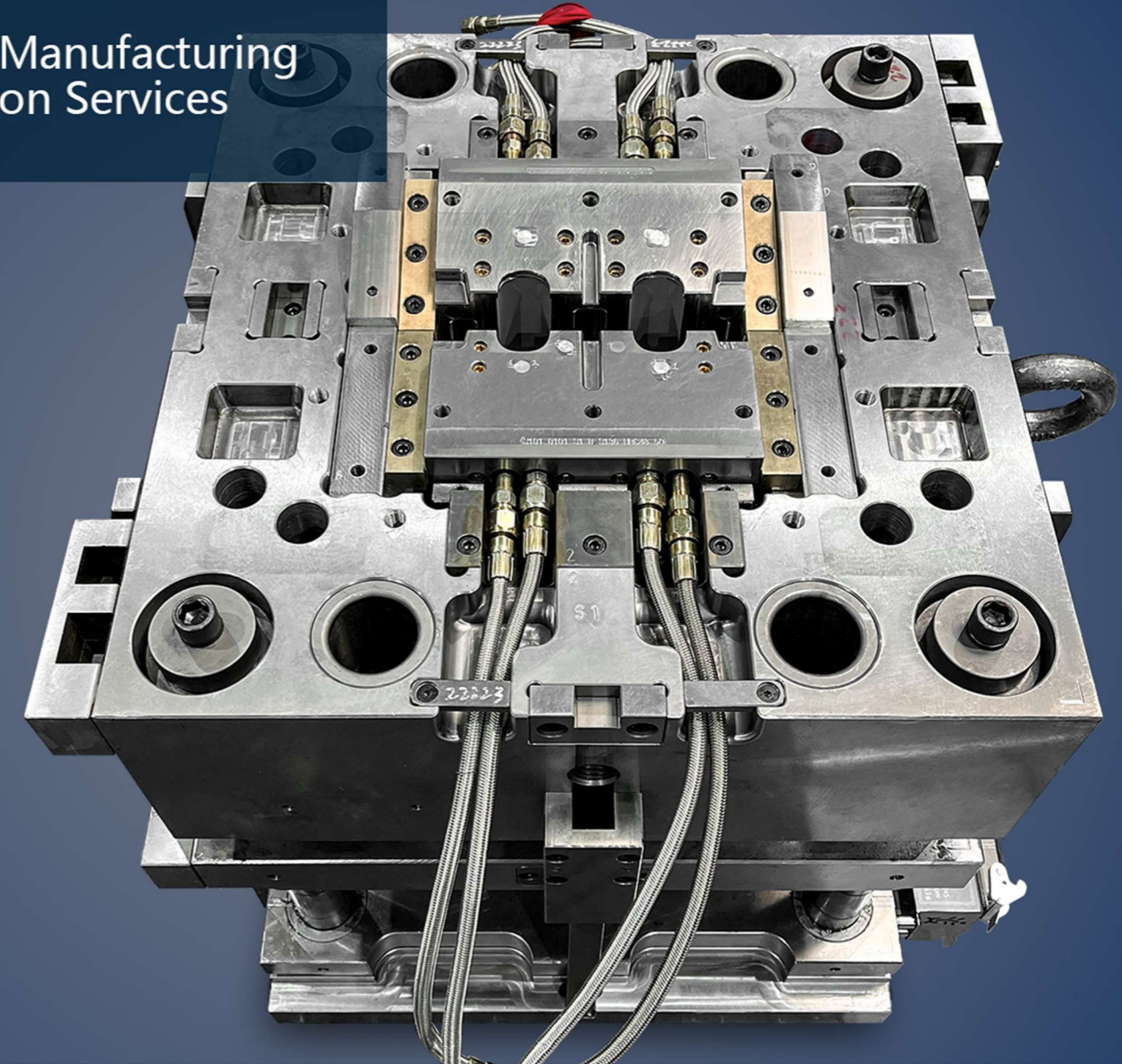




## Mold Making &

Product Manufacturing  
Integration Services



### GEMS MANUFACTURING LTD

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#### Headquarters

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#### Manufacturing Facility

No. 23, Shida Road, Xintang Industrial Park, Dalingshan Town, Dongguan, China

#### UK Office

New Mill, Holmfirth, West Yorkshire, HD9 7DH, United Kingdom

# COMPANY

## GEMS-MFG

At GEMS Manufacturing we understand the importance of cost down manufacturing solutions for Integrated New Product Development, including but not limit to Mold Making, Injection Molding, Die Casting, Sheet Metal and Product Assembly. Under strong project management we work hard & work smart to ensure that we are saving our customers as much money as possible while keeping their quality to the product specification.

The purpose of managing this company GEMS-MFG is to improve the overall customer experience by simplifying the supply chain management. Clients can easily find all their manufacturing needs in one place through our integrated manufacturing solutions. We accept engineering & manufacturing challenges that, anything can create good values to our customers, are deserved us to devote ourselves to make it happen.

Plant And Office Photos



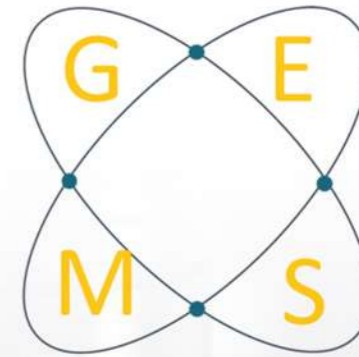
# CULTURE

## Logo & Values



**Global**  
Customer service  
for global markets

**Manufacturing**  
product development from  
MFG perspective



**Excellent**  
Broad knowledge,  
experience, training  
and unique approach

**Solutions**  
The ability to resolve  
customers, problems



### Vision:

GEMS-MFG is to be a trustworthy manufacturing solution provider in a platform environment that promotes customer success, company sustainability, employee growth and a recognized responsibility to the parties around us.



### Mission:

Think Global, Execute Local



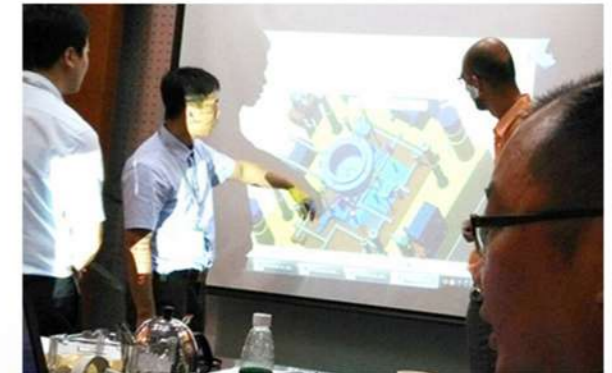
### Values:

Believe in the giant potential of our continuous small improvements.

- People orientation
- Teamwork with partnership
- Willing to take responsibilities
- Embrace the changes
- Make a difference

# ENGINEERING

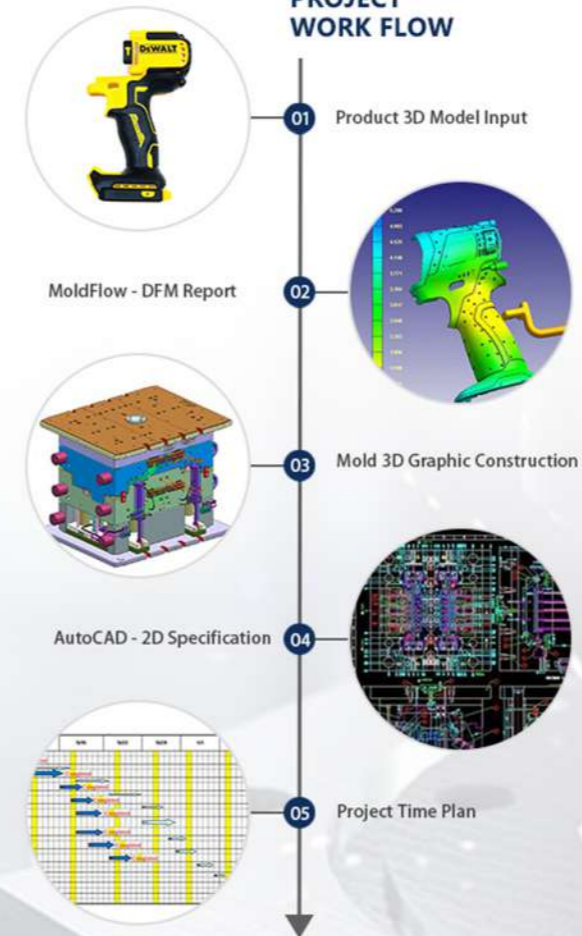
## Design & Project Management



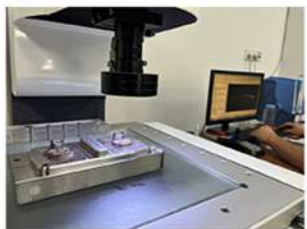
GEMS-MFG has 15 design engineers who are experts in metal, plastic & silicone parts and finished product assembly, and we always utilize the latest engineering softwares, such as AutoCAD, UG, Pro/E and Solidworks, to convert the Client's CAD model directly into a mold design.

With full consideration to our client's tooling standard and molding conditions, we will provide specific DFM reports and best mold construction proposals for final approval before steel cutting. We have the know-how to make your mechanical creations a reality.

### PROJECT WORK FLOW



## QUALITY Inspection & Controls



At GEMS Manufacturing, we employ a three-stage QA/QC process to ensure quality and consistency with every part we produce. Quality control techniques are ISO certified and carried out by highly educated engineers.

#### - PRE-PRODUCTION

Process, supplier and material are audited to ensure that all specifications and certifications are met or exceeded.

#### - PRODUCTION

We verify every part after each stage of the fabrication process, from programming to finishing.

#### - POST-PRODUCTION

Additional dimensional and cosmetic checks are undertaken right before packing.

GEMS quality engineers incorporate quality into your product from the design phase to mass manufacturing process, which is planned ahead of time to lessen lead times, reduce risks, and improve the end product's quality. In keeping with our quality concept of "Right First Time," we strive to deliver zero faults to our customers. Not only does this require scientific quality planning and modern manufacturing analysis, but it also demands a commitment to our employees' technical growth. Our quality department is manned by a specialized team of quality specialists who are trained to validate and control all injection molding, die casting, machining, assembly, and finishing operations to ensure that they meet the drawing specification.



## MOLD MAKING Workshop

Mold Making is a very critical aspect of manufacturing process and cannot be taken lightly. Our workshop consists of 120 mold makers, covering an area of 5000 square meters. We have wide range of machining facilities that support full lines of processings, such as CNC Milling, EDM Sinking, Wire Cutting, Grinding, Drilling, Polishing, Fitting and etc.

The tool is at the heart of the manufacturing process as quality part always requires a quality steel mold or tool to generate! If properly designed and constructed, a mold will be the key to efficiently producing plastics, silicone or metal parts throughout the entire life of the project.



## IN-HOUSE FACILITIES Equipment List

### Mold Making

No.	MACHINE	ORIGIN	BRAND	MODEL	QTY	TOTAL
1	Wire-cut EDM	Switzerland	AgieCharmilles	CA30	1	
2	Wire-cut EDM	Switzerland	AgieCharmilles	CUT 20P	1	
3	Mirror EDM	Switzerland	AgieCharmilles	FO23 HSFS	1	
4	Mirror EDM	Switzerland	AgieCharmilles	ROBOFORM 23	1	
5	Mirror EDM	Switzerland	AgieCharmilles	ROBOFORM35P	2	19
6	Mirror EDM	China	STANDY	SIANDY 430	2	
7	Mirror EDM	Japan	MAKIO	MAKIO EDGE 3	2	
8	Sinker EDM	Taiwan	TOPEDM	MP-50	8	
9	Sinker EDM	China	SUPPIN	CNC1000	1	
10	CNC Milling	Japan	FANUC	ROBODRILL	2	
11	CNC Milling	Japan	KITAMURA	Mycenter 3XJG	1	
12	CNC Milling	Japan	YASDA	BIG-PLUS	1	
13	CNC Milling	Japan	TONYO	TMC-960	1	
14	CNC Milling	Korea	Doosan	VM415	2	
15	CNC Milling	Korea	Doosan	DNM-5705	2	15
16	CNC Milling	Taiwan	Doosan	HW-850	1	
17	CNC Milling	China	SHENGHONG	SH-H650	1	
18	CNC Milling	China	SHENGHONG	SH-750	1	
19	CNC Milling	China	SHENGHONG	H-1280	1	
20	CNC Milling	China	SHENGHONG	VM1580	1	
21	CNC Milling	China	KERUISI	K-540I	1	
22	Manual Milling	Taiwan	SINO	SDSZMS	1	
23	Manual Milling	Taiwan	TURRET	EASSON ES-8	5	9
24	Manual Milling	Taiwan	TURRET	EASSON ES-10	3	
25	CNC Lathe	China	SHENG YI0	SEC650	1	2
26	Lathe Turning	China	UNIVFRSAL	C6132A	1	
27	Grinding	China	HYFAIR	HF-6185	1	
28	Grinding	Taiwan	TAIZE	TZ-618	8	11
29	Grinding	Japan	OKAMOTO	OMA350DX	1	
30	Grinding	China	JIU FENG	M250S	1	
31	Radial Drilling	China	HUEY UTEN	HC-900D5	1	2
32	Deep Hole Drilling	China	ACCURATE	DH-1000	1	
33	Die Spotting	China	NRCE	NC70-1007	1	1
34	Hole Tapping	China	WEST LAKE	SWJ-16	1	
35	Hole Tapping	China	SANWAVE	SW-U624	1	3
36	Hole Tapping	China	SHENXIN	MU165-C6	1	
37	Polishing	China	YIJING	YJCS-6	2	2
38	Chamfering	China	PRELISON	GD-900	1	1
39	Laser Marking	China	DAPENG	YLP-30W	1	1
40	Cutting Bench	China	CHENG LONG	GW40281B	1	1

### Injection Molding

No.	MACHINE	ORIGIN	BRAND	MODEL	QTY	TOTAL
1	Silicone Molding	Germany	BOY	Horizontal- 80T	3	
2	Silicone Molding	China	DE CHUANG	Horizontal- 90T	4	12
3	Silicone Molding	China	POWERJET	Horizontal- 120T	4	
4	Silicone Molding	Germany	BOY	Horizontal- 160T	1	
5	Silicone Molding	China	DE CHUANG	Vertical- 35T	3	9
6	Silicone Molding	China	DE CHUANG	Vertical- 100T	6	
7	Plastic Molding	China	HAITIAN	Two shots- 250T	1	2
8	Plastic Molding	Hongkong	YAN HING	Two shots- 180T	1	
9	Plastic Molding	Japan	FANUC	30T	1	
10	Plastic Molding	Japan	SUMITOMO	70T	1	
11	Plastic Molding	China	KAI MING	98T	1	
12	Plastic Molding	Japan	TOYO	100T	1	
13	Plastic Molding	Japan	FANUC	100T	2	
14	Plastic Molding	China	JIN JYE	100T	1	
15	Plastic Molding	Hongkong	YAN HING	108T	1	
16	Plastic Molding	Hongkong	YAN HING	120T	2	
17	Plastic Molding	Japan	SUMITOMO	130T	1	
18	Plastic Molding	Japan	TOYO	130T	2	35
19	Plastic Molding	Japan	FANUC	150T	1	
20	Plastic Molding	Hongkong	YAN HING	160T	1	
21	Plastic Molding	China	HAITIAN	160T	6	
22	Plastic Molding	China	CLF	180T	1	
23	Plastic Molding	Hongkong	YAN HING	180T	1	
24	Plastic Molding	Japan	TOYO	180T	3	
25	Plastic Molding	China	HAITIAN	200T	5	
26	Plastic Molding	Japan	TOYO	230T	1	
27	Plastic Molding	China	HAITIAN	280T	1	
28	Plastic Molding	China	HAITIAN	320T	2	

### Measurement Devices

No.	MACHINE	ORIGIN	BRAND	MODEL	QTY	TOTAL
1	CMM	China	WEI SHEN	VGS696	1	
2	CMM	China	LEADER	564130121	1	3
3	CMM	Sweden	HEXAGON	25317286CA	1	
4	VMS	China	WANG MIN	VMS-3020	1	2
5	VMS	China	SEREIN	SVM4030DCC	1	
6	Hardness Tester	China	LAI SHI	HR-150A	1	1
7	Pin Gauge	China	INSTRUMENT	0.5-10mm	1	1
8	Height Gauge	China	TERMA	ME-006	2	2
9	Micro Meter	China	TERMA	0-200mm	5	5

# DIE CASTING

## Magnesium, Aluminum & Zinc Alloy

GEMS Manufacturing specialize in turnkey production solutions of highquality aluminum, zinc and magnesium die castings. Our comprehensive lineup of services incorporates prototyping and mold making, short and long production runs, CNC machining, polishing and coating, as well as mechanical and electronic product assembly.

Die castings are characterized by a very good surface finish and dimensional consistency. With the natural properties of metal, parts produced by die casting are stronger, more rigid and have a longer life period than parts made by other processes like 3D printing or injection molding.

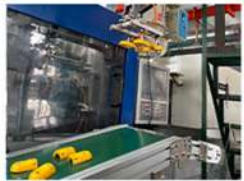


# INJECTION MOLDING

## Plastic Resin & Silicone Rubber

Our injection molding workshop is equipped with 37 plastic injection molding machines, ranging from 30T to 320T. Besides, there are 21 liquid silicone rubber molding machines to support your custom silicone products. Two-shot Molding, overmolding, thin-wall molding and gas-assisted molding are all falling within this service.

With decades of experience in injection molding, we can see the opportunities and risks in every project from a very early stage. By partnering with GEMS at the beginning of your project, you not only get design support from skilled engineers and designers, but you also get insight from a supply and manufacturing perspective.



# PRECISION MOLDS

- Plastic Mold
- Silicone Mold
- Die Cast Mold



- Die Casting
- CNC Machining
- Sheet Metal

# METAL PARTS



# PLASTIC PARTS

- Lightweight
- Complex Geometry
- Dimensional Accuracy

- 2K & Multi-shot
- Overmolding
- Insert Molding

# TWO-SHOT PARTS



# SILICONE PARTS

- Food Grade
- Durable & Resistant
- Flexible & Imaginable

- One-stop Solution
- Stable Performance
- Integrated Manufacturing

# ACCESSORIES



## PCBA



## CABLE

## PACKAGE

