

# GS TECH

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GS Tech is always providing  
the best quality and satisfaction.

GS TECH  
KOREA

FANCO  
FANCO PRECISION (M) SDN. BHD.

GS TECH has been creating a new history with **a high technical skills and speedy customer service** in the field of Semiconductor MOLD system since established in 2007.

All of our staffs are trying to do our best with the motto of **“The customer is first”** and consider the relationships between our valuable customer and us as a treasure.



# COMPANY INTRODUCTION



<b>Company Name</b>	GS TECH KOREA	<b>Address</b>	Hambangmoe-ro 377Beon-gil, Namdong-gu, Incheon, Korea
<b>Business Type</b>	Semiconductor Mold Die Fabrication	<b>Phone</b>	T : 82-32-811-2218 F : 82-32-811-2219
<b>Sales</b>	8 Million(2020)	<b>Web page</b>	<a href="http://www.gstech.or.kr">www.gstech.or.kr</a>
<b>CEO</b>	Lee Jae-Yong		

# COMPANY HISTORY

2007 · Established

2011 · Certified of ISO9001

2014 · Established  
Chinese branch

2010 · Certified of  
incorporation

2012 · Certified of INNO BIZ  
· Awarded 3 million export

2020 · Relocation of  
head office

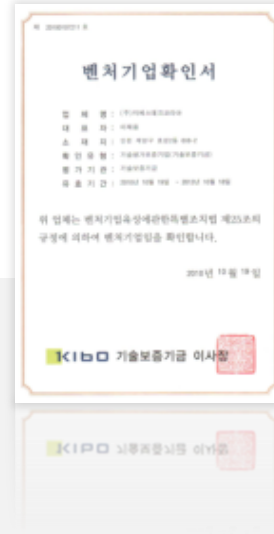
# CERTIFICATE



ISO 9001



INNO-BIZ



Venture Business



KITA Membership

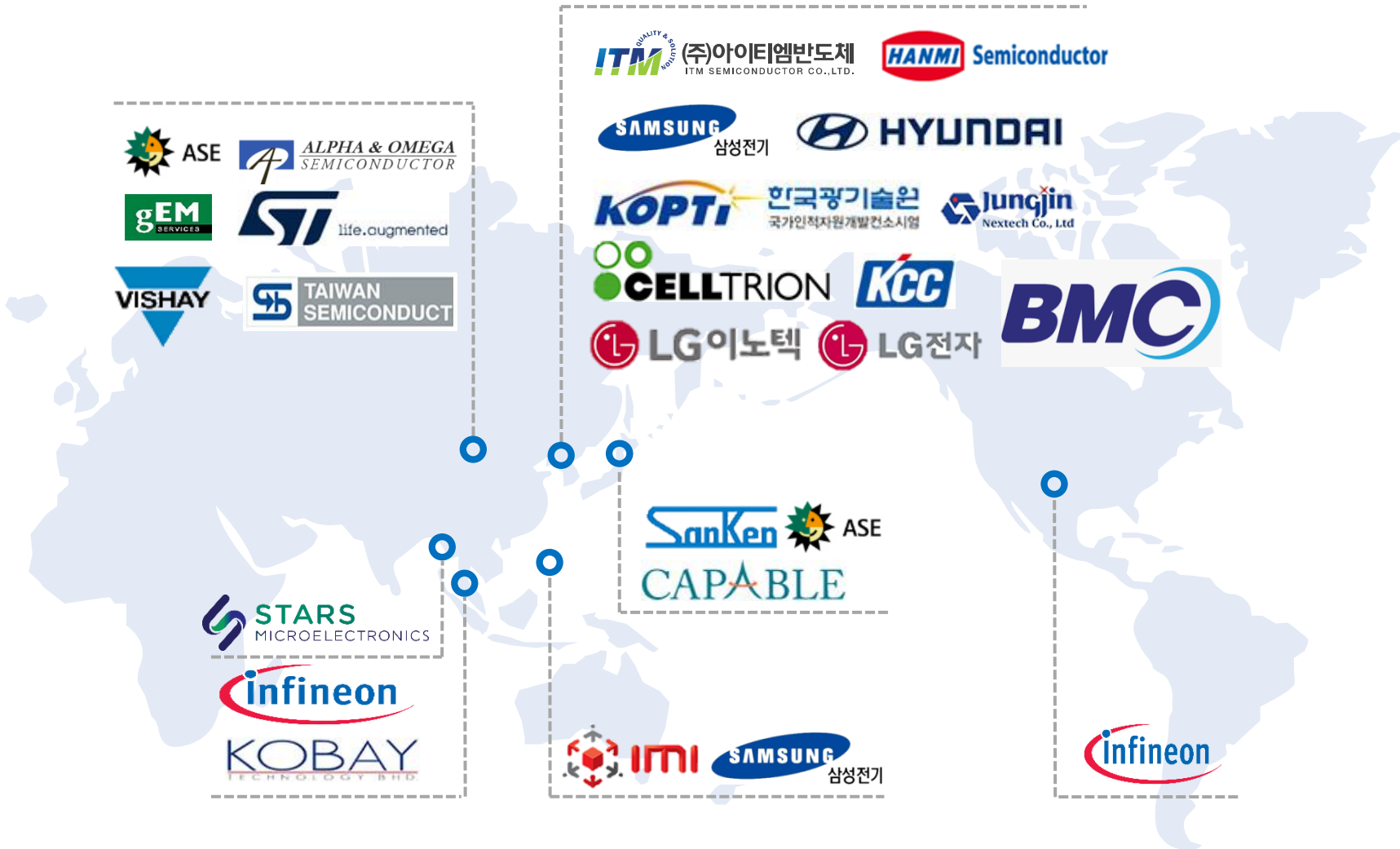


Affiliated Laboratory

# ORGANIZATION CHART



# WORLDWIDE CUSTOMERS



## Retract + vacuum mold



- Apply to Module Package & LED
- Minimum void by vacuum equipment
- Required high quality package
- Shot distance for isolation by retract equipments

## M.G.P mold



- Apply to small Package like SOT,SC
- Equalize performance with auto mold
- Used to mini tablet emc
- Molding flow Same as auto mold

## Semi-M.G.P mold



- Apply to Discrete package (low cost pkg)
- Cost efficient compare conventional mold
- Improve quality by multi pot ( 2~4 pot)
- need to pre heater m/c

## Auto mold & C'kit

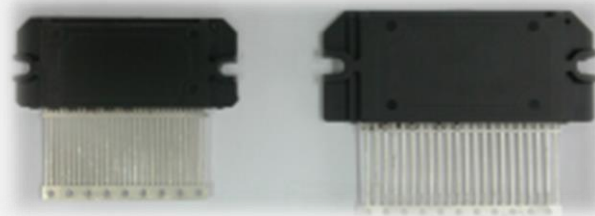
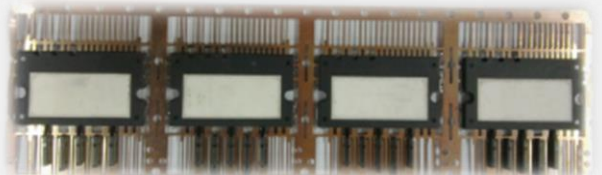


- Convert other device package of Towa, Dai-ichi, Yamada, ASM systems
- Low Cost efficient convert price.

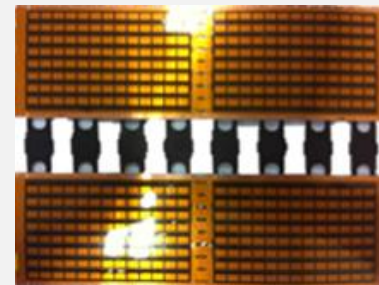
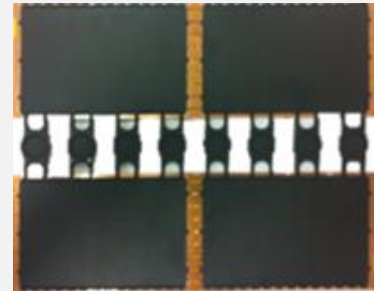
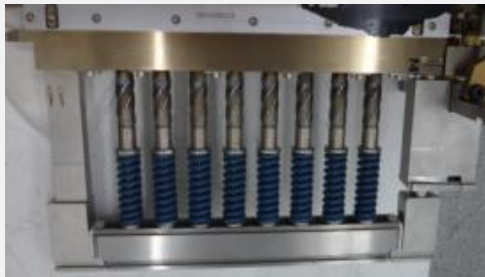
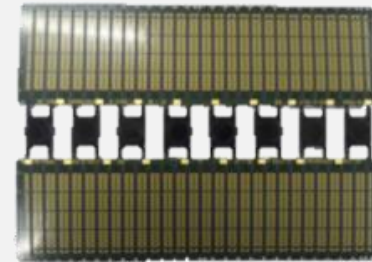
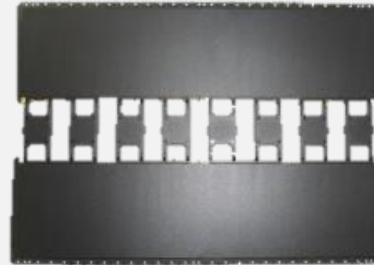


# PRODUCT – POWER MODULE

- POWER MODULE PACKAGE.
- ENERGY SAVING, HIGH POWER CONTROL PACKAGE.
- HEAT SINK EXPOSE PACKAGE.

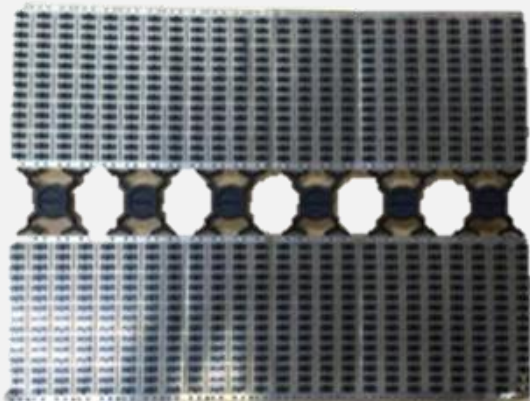
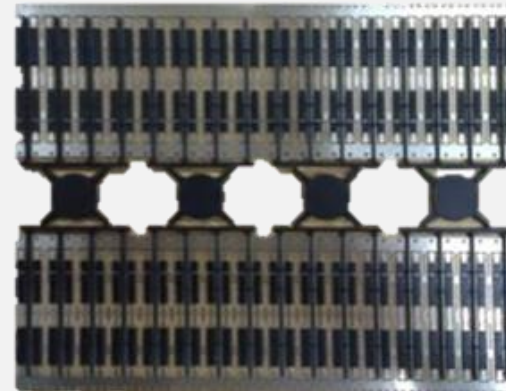
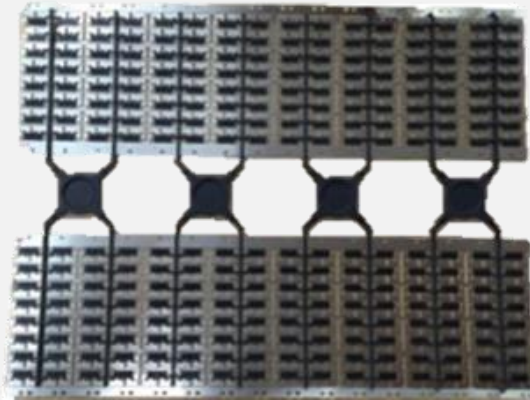


# PRODUCT – AUTO MOLD(FBGA)

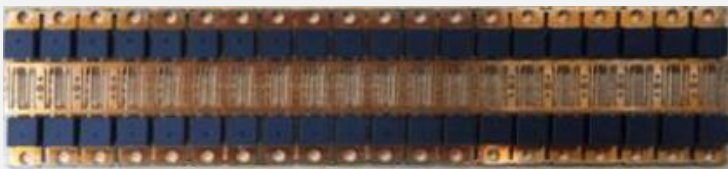
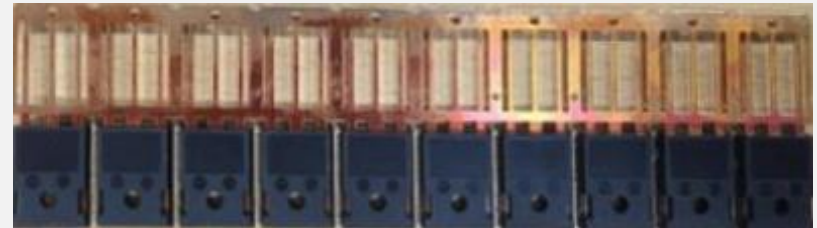
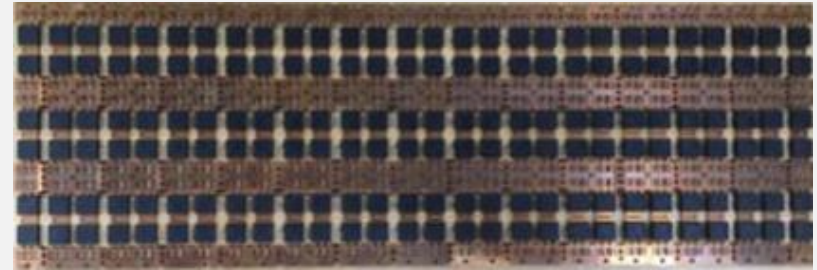
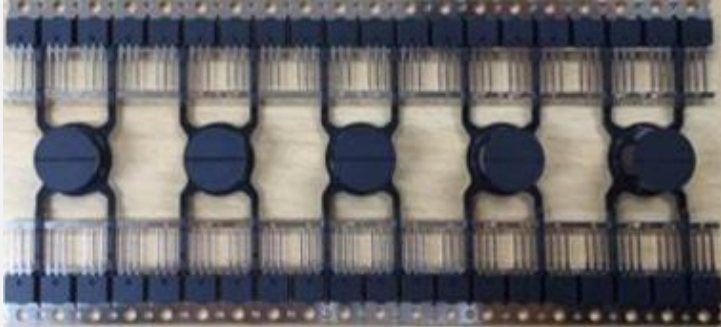


Wide PCB95.0 x 250

# PRODUCT – AUTO MOLD(Lead Frame)

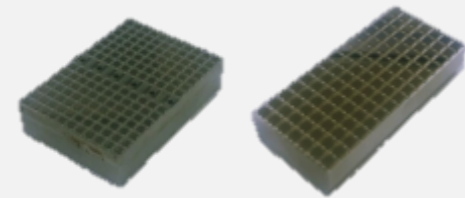
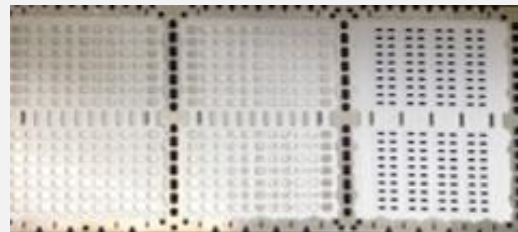
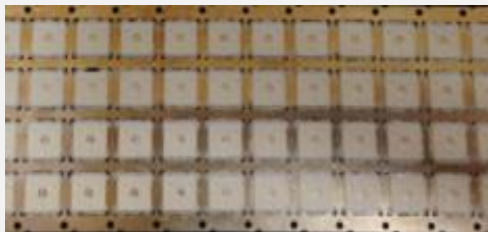


# PRODUCT – MANUAL MOLD(Discrete package)



# PRODUCT – LED PACKAGE

- WHITE EPOXY MOLD COMPOUND.
- EDM POLISHING SKILL ON CAVITY SURFACE FOR ANTI-STICKING.
- SOLUTION PREVENT CAVITY OXIDANT PROBLEM.



[ E.D.M Polishing ]



## Delivery History

- 3737 ONE CHASE MOLD
- 3030N QCC MOLD 6 CHASE
- KANENA MASTER DIE



## Delivery History

- |                    |                    |                  |
|--------------------|--------------------|------------------|
| - SVSC - 402504    | - TVHT - 353504    | - TVSC-601406-MU |
| - TVIT - 5853073   | - TVSC - 3014055   | - TVSC-401406-MU |
| - TVSC - 401406    | - TVSC3030 - 65T   | - TVLM-525012    |
| - TVSC - 303006 -N | - TVSC - 303006 -B | - TVSC3623-0.6T  |



## Delivery History

- 3030 -B QCC MOLD
- TV - 3030 0.65T QCC MGP MOLD
- 3528 - 1.9PI BOOK MOLD



## Delivery History

- 4008 QCC MOLD
- 4008 BOOK MOLD
- 3535 WEMC 4CHASE 8 CAVITY SEMI MGP MOLD
- L2L 6CHASE 12CAVITY 1008 Unit SEMI MGP MOLD

# PRODUCT - Module Package Delivery History



## Delivery History

- |                |               |                 |
|----------------|---------------|-----------------|
| - Cipos mini   | - SIL         | - Dragon – mini |
| - Dragon large | - Dragon mini | - MDIP 24-1     |
| - MDIP28-1     | - MIDP34-1    | - 1200V         |



## Delivery History

- |         |          |         |
|---------|----------|---------|
| - SCM   | - FM20   | - SJP   |
| - GEN 3 | - SG-C10 | - TM100 |
| - IPM   | - SIM40  |         |



## Delivery History

- SIP-Y2
- SIP-Y68



## Delivery History

- IPM
- HIREL



## Delivery History

- |        |             |                |
|--------|-------------|----------------|
| - IPM3 | - DFN 6 X 8 | - D2-PAK 7LEAD |
| - IPM5 | - IPMS      |                |
| - IPM7 | - TOLL      |                |

# PRODUCT - TOWA Automold Delivery History



## Delivery History

- |            |            |            |                 |
|------------|------------|------------|-----------------|
| - DTEP-7LD | - DTEP-8W  | - DTEP-9LD | - X-1006 & 1008 |
| - PP4010C  | - NFP4010A | - LTEP-8LD | - X-1406 & 1407 |
| - B2-PJT   | - NA4666   | - NEW J7   | - X-1442 & 1652 |



## Delivery History

- MUF MOLD
- QFN 10x10
- QFP 14x14



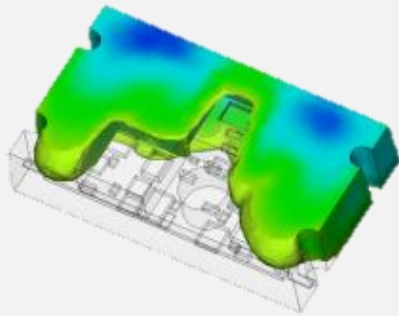
## Delivery History

- |            |            |                |
|------------|------------|----------------|
| - MLP50X50 | - SSOP 70  | - TQFP 100-KIT |
| - IPMS     | - TSOP2-50 | - WSOP-48      |

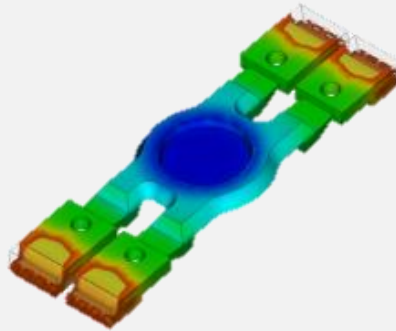


# MOLD FLOW SIMULATION

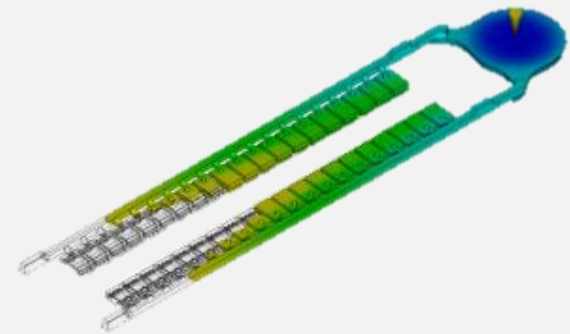
Autodesk Moldflow Insight (AMI) 2020 Standard License



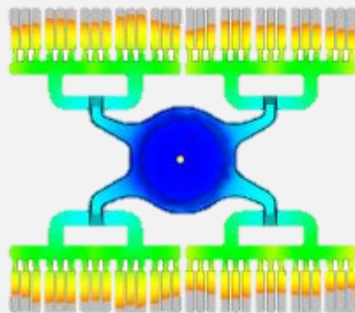
[ IPM-3 ]



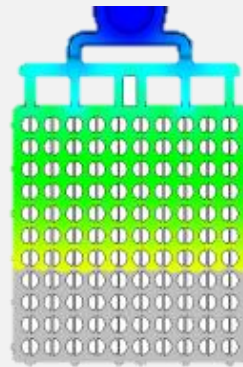
[ TO-220 FULL PAK ]



[ IDF TO-T220 FP ]



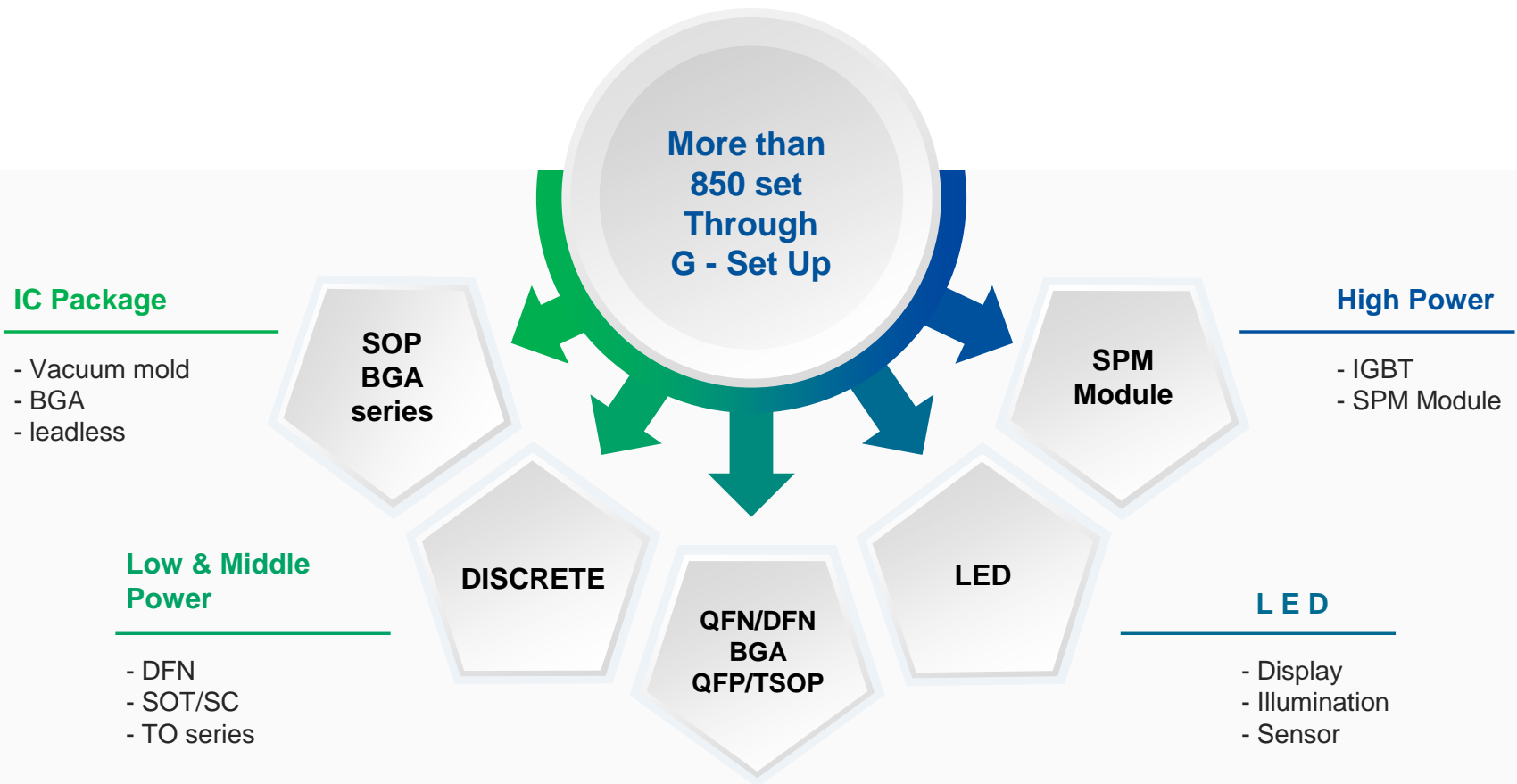
[ TANTAL ]



[ LED (Reflector) ]



[ BATTERY MODULE ]



# DEVELOP FLOW PROCESS



<b>Design</b>	<ul style="list-style-type: none"><li>- MANAGE INDEPENDENT R&amp;D CENTER</li><li>- MOLD &amp; L/F DESIGN PROFESSIONAL</li><li>- CUSTOMIZED DESIGN</li></ul>
<b>Manufacturing</b>	<ul style="list-style-type: none"><li>- FABRICATION BY ACCURATE MACHINE</li><li>- ACCURATE QUAIITY TEST</li></ul>
<b>Perfect Set up</b>	<ul style="list-style-type: none"><li>- PROVIDE A SOLUTION BY TECH SUPPORT'S CLOSE COMMUNICATION</li><li>- ENGINEERS WITH MORE THAN 10 YEARS EXPERIENCE</li></ul>
<b>Service</b>	<ul style="list-style-type: none"><li>- VISIT WITHIN 48 HOURS AFTER PROBLEM OCCURRENCE</li></ul>

# MAIN EQUIPMENT

Process	Type	Model	Q'ty	RPM	Transfer Distance(mm)			Maker	Contry of Origin
					X	Y	Z		
Milling	Machining Center	NX5000	1	15,000	900	500	500	Doosan	Korea
		NX6500	1	20,000	1050	650	550	Doosan	Korea
	High-speed Machining Center	IQ-500	2	45,000	600	500	300	Makino	Japan
		IQ-300	2	45,000	400	350	200	Makino	Japan
		V33I	1	30,000	650	450	350	Makino	Japan
		HS430L	1	40,000	420	350	200	Sodick	Japan
	Sawing Machine	YCM-280	1	3450	270	240	-	YCM	Taiwan
Drilling Machine	KM-DM23	1	-	-	-	-	Kyungmin	Korea	
Grinding	Manual Grinding Machine	JFG-520M	3	3600	400	200	320	Jinyoung	Korea
		HCG-630M	1	3,600	400	200	450	Hyunchun	Korea
	Auto Grinding Machine	PSG	1	2,800	600	400	250	Okamoto	Japan
		MEISTERG3	2	5000	400	200	200	Yamada	Japan
E.D.M	E.D.M Machine	AG 40L	5	-	400	300	350	Sodick	Japan
		ROBO RORM 20	1	-	350	250	300	AgieCharmilles	Switzerland
		ROBO RORM 200BO	2	-	350	250	300	AgieCharmilles	Switzerland
		P350	4	-	350	250	300	AgieCharmilles	Switzerland
W/C	Wire Cutting Machine	AG 400L	2	-	400	300	250	Sodick	Japan
		ANL 400G	1	-	400	300	250	Sodick	Japan
		AQ 327L	1	-	370	270	250	Sodick	Japan
Q.C	MICRO HITE	MICRO HITE 600	1	-	-	-	600	TESR	Switzerland
	Depth Gauge	ID-C150XB	3	-	-	-	-	Mitutoyo	Japan
	Projector	hf600	1	-	-	-	-	Starrett	Japan
	Roughness Gauge	SJ-410	1	-	-	-	-	Mitutoyo	Japan
	Non-Contacting Measurement	MF-U	2	-	-	-	-	Mitutoyo	Japan
	Video Meter	VMS-2515A	1	-	-	-	-	Rational	Taiwan
Ass'y	Manual Press Machine	200T T/M PRESS	1	STROKE 300	TABLE SIZE 820 X 940			Fusei Menix	Korea
	Manual Press Machine	260T T/M PRESS	2	STROKE 300	TABLE SIZE 820 X 940			Fusei Menix	Korea

# WHOLE VIEW OF GS TECH

EXTERIOR VIEW



OFFICE



MILLING



E.D.M



WIRE CUT



GRINDING



INSPECTION



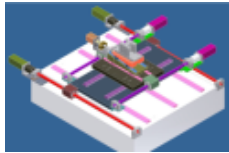
ASSEMBLY



MEETING ROOM



## FABRICATE PROCESS OF MOLD DIE



**1** DESIGN



**2** MACHINING CENTER (Milling)



**3** HEAT TREATMENT



**4** GRINDING



**5** E.D.M



**10** ASSEMBLY & TEST



**9** LASER MARKING



**8** PLATING



**7** INSPECTION



**6** WIRE CUT



Tel : +82 32-811-2218

Fex : +82 32-811-2219

E-mail : [ken@gstech.or.kr](mailto:ken@gstech.or.kr) / [steve@gstech.or.kr](mailto:steve@gstech.or.kr)

(33B 14L) 109, Hambangmoe-ro 377Beon-gil, Namdong-gu, Incheon 21635 Korea