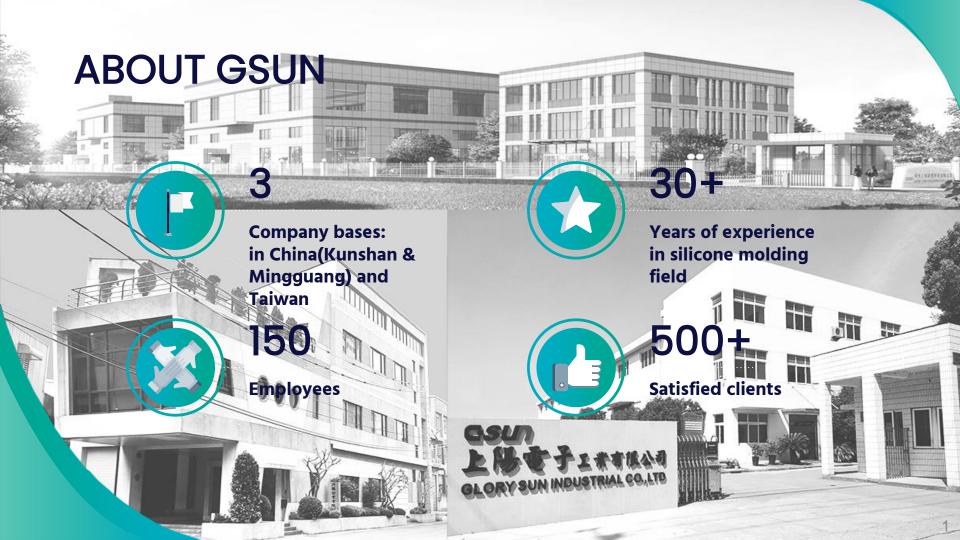


# Glory Sun Group

Your partner for customized silicone compression and injection molding parts.

2022 Version 2



### A BRIEF STORY



## Ø

#### MISSION

Quality is the foundation of our business. Our mission is to provide the best silicone rubber products with fine technology and fast L/T to support our customers.

#### VISION

GSUN is devoted in resources integration, aiming to be the leading company in the field!



#### CERTIFICATE

ISO9001: 2021

#### Certificate CN07/00372 KUNSHAN GLORY SUN INDUSTRIAL CO., LTD. No. 1288-1, Shukiu Road, High Toch Industrial Park, Kurshan City, Jangsu Province, P. R. China SGS Unified Social Credit Code: 91320583741325558L and control on eventue for initial events. ISO 9001:2015 Design and manufacture of silicon rubber connectors, density membranes and key pads **IAF** Author conflications regarding the scope of the antificate and the applicability of \$50 MD1/2010 requirements may be attached to consultive the services. This certificate is valid from 23 August 2018 antil 22 August 2021 This conference is ware source to satisfactory surveillance audit. and remains valid subject to satisfactory surveillance audit. Recentification audit due a minimum of 80 days before the expiration data lasee 5. Certified since 11 Ady 2007 UKAS



#### App 1-6

#### ISO14001: 2015

#### This is to certify that the Environmental Management System of KUNSHAN GLORY SUN INDUSTRIAL CO., LTD.

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Design and production of silicone rubber connectors, silicone rubber density sheets

Registration

Certificate

and silicone rubber keys has been assessed and registered by NQA against the provisions of ISO 14001:2015 This registration is subject to the company maintaining an environ to the above standard, which will be monitored by NQA. Cartified Officers shall accept regular tors illusce assessments, th maritalised for the positive result of assis tion of this certificate can be checked on CNCA's w

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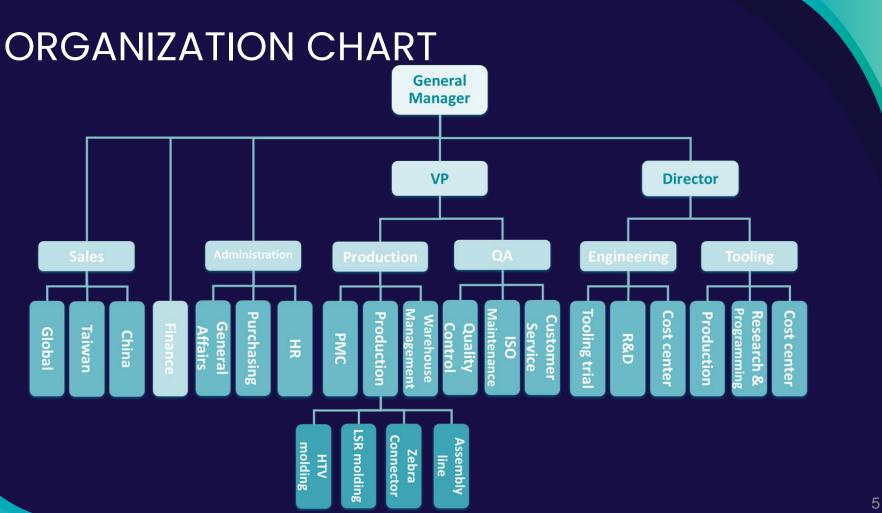
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#### IATF16949: 2021

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#### ISO13485: 2016





## **PRODUCTION FACILITIES I**

Chinese	English	Q'ty
8"原料混煉機	8" Raw material mixes	2
12"原料混煉機	12" Raw material mixes	2
14"原料混煉機	14" Raw material mixes	1
三滾輪	Three rollers	1
切料機	Blanking machine	2
壓延成型機	Stamping forming machine	2
冷壓機	Chilling press	1
250T油壓成型機	250T Oil hydraulic press	12
250T真空油壓成型機	250T Vacuum press	4
300T真空油壓成型機	300T Vacuum press	14
120T LSR臥式液態硅膠射出機	120T LSR horizontal injection machine	2
100T LSR立式液態硅膠射出機	120T LSR vertical injection machine	1
7.5P靜音無油空壓機	7.5P silent oil-free air compression machine	1
汽動沖床	Pneumatic punching machine	4
油壓沖床	Oil pressure punching machine	1
<b>8T</b> 沖床	8T punching machine	3
微電腦大切機	Automatic cutting machine	2
自動研削機	Automatic grinding machine	1

#### **PRODUCTION FACILITIES II**

Chinese	English	Q'ty
JS-1320微電腦裁切機	JS-1320 Microcompiter cutting machine	1
650M 微電腦裁切機	650M Microcompiter cutting machine	1
1000M 微電腦裁切機	1000M Microcompiter cutting machine	1
立式單門烤箱	Vertical single gate oven	8
UV機	UV tunnel type oven	1
五層預熱機	Five-Layer Preheater	1
表面處理機 (火花機)	Automatic flame surface treating machine	1
手動動絲網印機	Manual screen priniting machine	4
自動絲網印機	Automatic screen priniting machine	2
手動移印機	Manual Pad printing machine	1
自動移印機	Automatic Pad printing machine	2
手動點膠機	Manual dispensing machine	2
自動點膠灌膠機	Automatic dispensing and filling machine	2
自動滴膠/打磨機	Automatic dispensing and polishing machine	1
橡膠模具專用洗模機	Rubber mold cleaning machine	1
15P 螺桿式空壓機	15P screw air compressor	1
21P 螺桿式空壓機	21P screw air compressor	1
導電粒專用真空機	Conductive pill vacuum machine	1

## **INSPECTION EQUIPMENT I**

Chinese	English	Q'ty
2.5D 400*300自動投影儀	2.5 Automatic optical measuring instrument	1
2.5次元投影儀	2.5 Optical measuring instrument	1
RCA耐磨擦測試機	Abrasion test machine	1
全自動曲線測試機	Automatic curve tester	3
按鍵壽命測試機	Keypad life machine	1
40倍工具顯微鏡	40X Microscope	1
橡皮耐磨擦測試儀	Eraser abrasion test machine	1
導電條阻抗測試機	Rubber connector conductivity tester	1
導電粒阻抗測試機	Conductive pills conductivity tester	1
硬度測試座	Durometer	1
模厚測試儀	Coating thickness tester	1
光度計(流明計)	Digital lightmeter	1
半自動荷重測試機	Semi-automatic actuation force tester	1
手動荷重測試機	Manual actuation force tester	2

## **INSPECTION EQUIPMENT II**

Chinese	English	Q'ty
游標卡尺 (300mm)	vernier caliper (300mm)	1
游標卡尺 (200mm)	vernier caliper (200mm)	1
游標卡尺 (150mm)	vernier caliper (150mm)	3
碼錶厚度測定器	caliper	6
溫度測試儀	Temperature measuring device	1
標準砝碼	Standard test weight	1
標準塊規	Standard block gauge	1
CCD影像檢測機	CCD Image Inspection	1
雙黑粒導通阻抗檢測機	Impedance Machine	2









#### Product Category



#### SILICONE ZEBRA CONNECTOR

Silicone zebra connector is reliable and stable, widely applying to various LCD panel to be the bridge of LCD panel and the PCB, such as phone screen, car control screen, industrial device screen, instrument panel, and so on.



#### LIQUID SILICONE RUBBER(LSR) PARTS

Liquid Silicone Rubber (LSR) is injection molding process technology with countless advantage like product accuracy, high production capacity and so on. Products are widely used on daily necessities, medical, electronic, automotive products.



#### **RUBBER KEYPADS**

Rubber keypad can be found all over in our daily life, no matter visible or invisible. They are essential parts in almost all devices.



#### **RUBBER PARTS**

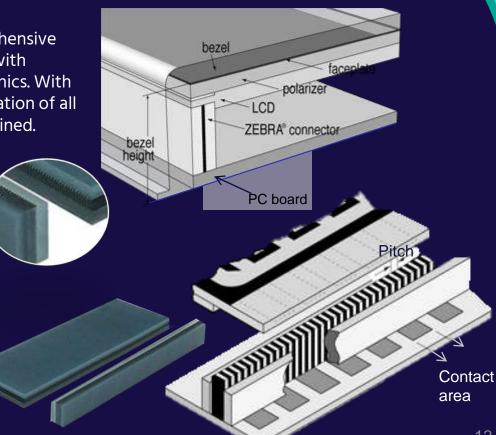
Services of GSUN include all the rubber/ silicone rubbers made by compression. According to different usage and request, we provide solution and service of high quality, such as o-ring, tubes, dust/ waterproof plug, protective jacket, bands, gasket, etc.



#### What is Conductive Connector?

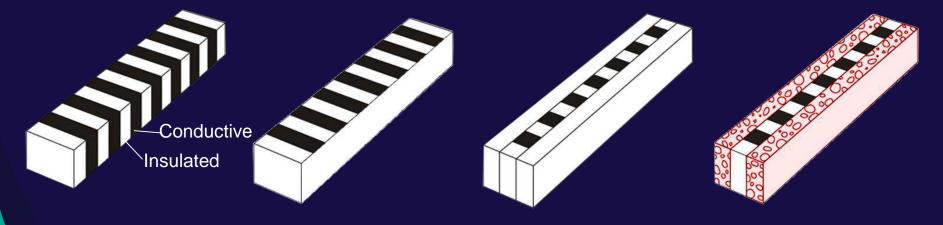
The conductive connector is considered a comprehensive group of high performance interconnect devices with applications throughout the entire field of electronics. With the expansion of micro-electronics and miniaturization of all products, the same high reliability must be maintained.

- High Density; increased number of I/O's
- Low resistance, high current capacity
- Low insertion force, low compression force
- Redundant contact engagement
- High electrical and mechanical reliability
- Chemical stability, degradation resistance
- Cost-effectiveness, ease of assembly



#### CONDUCTIVE CONNECTOR TYPE

These are the most common Zebra connector types, others available on request:



**GSI Type** No side isolation **GSI2 Type** With printed side isolation **GSS Type** With solid silicone isolation layers **GSG Type** With soft foamed silicone isolation layers

## ARBURG ALLROUNDER 420 C

GSUN introduce ARBURG Allrounder Golden Edition machines to fulfill high-end market.



















## Why LSR ?

	Liquid Silicone Rubber	Solid Silicone Rubber	
Material mechanical property	Supreme compression set and elongation, higher tear and tensile strength.	good compression set and elongation, high tear and tensile strength.	
Hardness	10 shore A - 90 shore A	25 shore A - 90 shore A	
Workingtemperature	- 40oC to 230oC	- 40oC to 230oC	
Material	good insulation	good insulation 🕜	
Bio-compatibility	good food, water and medical contact, safe applications	Using for daily accessories , but can't be implanted into body skin and blood	
Transparency	High Transparent 🚺	Low Transparent	
Forming way	Injection Mold	Compression Mold	
Technological Process	Simple (Automatically)	Complex (Labor)	
FormingTime	20-120 Seconds 🕜	60-800 Seconds	
Production Efficiency	High 🔂	Low	
Precision	High, no flash 🚺	Low , few flash	
Stability	High 🚹	Low	
Waste	Little 🚺	Much	
Workshop	Clean, dust-free 🚺	Clean room	

## Molding Workshop

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#### Silicone Rubber Keypads

















## What is Silicone Keypad?

Silicon keypads are currently used to make a direct or indirect connection to a circuit board or another switching mechanism fastened below.

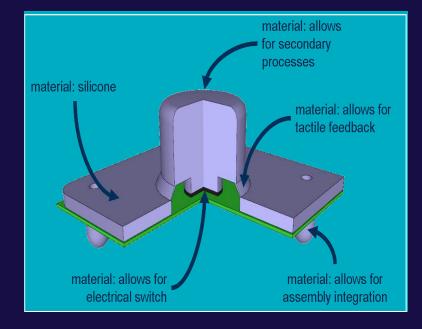
Here we must distinguish between keypads that trigger switches directly and indirectly.

- A) Direct contact with a rigid or flexible circuit board is established via carbon rams or carbon printing, metal contacts or polydome foil (printed metal-dome clickswitches with silver conductors).
- B) Indirect connections are generally made using a customerspecific membrane keyboard and/or short-stroke key.

The keypads are generally made from 50-shore silicon rubber. The contact pressure varies from 20 to 350g depending on the construction type.

The expected lifetime also depends on the construction type, but lies somewhere between 500,000 and 10,000,000 actuations per key.

The keys are labeled using screen-printing. A PU coating seals the upper surface and protects the labeling from wearing off. Other opportunities for customer-specific upper surface designs are also available.





## Tooling House

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廣進機械 VBH

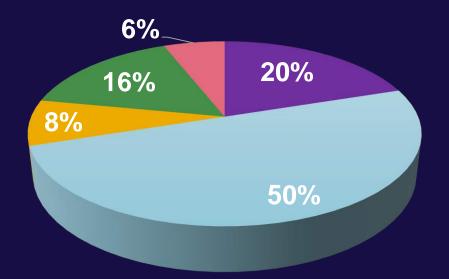
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#### MARKET SHARE



LCM (20%)
Automotive (50%)
Consuming Part (8%)
Industrial Part (6%)

#### OUR PROCESS

01	02	03	04		05	06
Drawing design providing/Concept idea discussion wit GSUN		Quotation release	e	-	MP tooling roduction with N sample approva	
Engineering evaluation with optimal solution			Prototype tooling production with PT sample approval			Mass production

#### WHY US

**Experience:** Leaders in GSUN have more than 30 years of experience in the rubber/silicone rubber industry. We focus on providing high quality of rubber silicone parts to Automotive, Medical and Electronic devices.

- Material: Insist in using raw materials only from reliable brands such as Shin-Etsu and Dows.
- **Quality:** Complete inspection equipment for both verification and quality control.
- Certificated: Obtain complete certification (ISO9001/ ISO14001/ IATF16949/ ISO13485)
- **Production Management:** Well-organized SOP of production plan with full QC/QA implementation.
  - All advantages mentioned are qualified by our customers all over the world!



#### OUR CLIENT

#### Automotive



The Future in Motion





Pioneer



**Driving Mobile Media Innovation** 

**KENWOOD** 



#### OUR CLIENT

Automotive

















## OUR CLIENT Medical

# **OMRON** BIONIME



MEDLINE

The Art of Invention

TaiDoc





just a heartbeat away

#### OUR CLIENT





Image Universal Microelectronics co., LTD.





# OUR CLIENT

#### **Consumer electronics**



## SEIKO

Canon

#### FLUKE

CASIO

# Mitutoyo



## OUR TEAM



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LEE SHEN ENTERPRISE

Taiwan Market

CONTACT: Nick Cheng TEL: +886-3-497-2188 Email: Ls-f@leeshen.com.tw



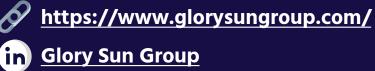
RAINBOW BRIDGE ENTERPRISE Global Service

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# GSUN Glory your products THANKS

Do you have any questions?



in <u>Glory Sun Group</u>



in Glory Sun Medical