



<https://www.sankin-net.com/>



*Company Profile*



# Company Profile



Company Name : SANKIN CO., LTD  
Head Office : 2-2-1, AWAZA, NISHI-KU, OSAKA CITY 550-0011, JAPAN  
TEL/FAX : TEL : +81-6-6531-4665 FAX : +81-6-6531-4661  
Established : November 20, 1953  
President : Kenichi Takagi  
Capital : 90 million yen  
URL : <https://www.sankin-net.com>

Business :

- Electronic components, electronic component units, precision metal parts, resin molded products
- Sales of special materials, secondary batteries, and collaborative robot
- Design, development, and manufacturing contract services (OEM/ODM)
- Semiconductor testing equipment sales

Global Business : Japan, China/Taiwan, Malaysia, Thailand, Vietnam, Mexico

Employees : 20

With a spirit of innovation and creativity, we aim to be an indispensable presence both domestically and internationally.

01

Don't boast about one manufacturer  
Ability to make proposals from the customer's perspective

We have the capability to offer proposals to bring our customers' visions to life, leveraging the extensive network we have cultivated over many years, both domestically and overseas.

02

By engineers who are familiar with electronic components  
Ability to discern parts

We develop highly reliable products with short delivery times based on the technology and know-how cultivated over many years by engineers who are familiar with design technology and parts.

03

By engineers who are familiar with electronic components  
Capabilities to support development and design

One-stop support from development to design. We provide comprehensive support utilizing years of know-how.

04

You can bring your desires and creations to life.  
Domestic and international manufacturer network

Leveraging our strengths as a trading company specializing in electronic components, we have a large network of domestic and international component manufacturers and cooperating companies.

05

Also considered geopolitical risks  
Procurement / manufacturing network

Having manufacturing bases in different regions reduces the overall impact of risks occurring in a specific region.

06

Compatible with low-volume, high-mix production  
Overseas local manufacturer network

By having manufacturing bases in each region that are suitable for manufacturing, it is possible to produce efficiently in line with market demands and trends.

We have a wealth of knowledge and experience regarding electronic parts and precision metal parts, and have been involved in manufacturing sites and accumulated design and development capabilities.

We provide one-stop solutions from everything to parts procurement and contract manufacturing.

## *One-stop solution*

Planning/specification consideration

design

Trial production

Inspection evaluation

Sourcing

mass production

Design and development contract services

Sales and procurement agency service

Contract manufacturing service

### Design and development contract services

We provide a one-stop service for boards, modules, electronic products, inspection equipment, etc., from planning and specification consideration to hardware and software design, **prototyping**, and evaluation, according to your needs.

*Circuit design / semiconductor development  
exterior/mechanism design / software development /  
secondary battery development*

### Contract manufacturing service

We work with more than 20 domestic and overseas partner manufacturers that have experience and know-how in consumer equipment, industrial equipment, medical equipment, automotive equipment, etc., to support the production of our customers' products.

We will support you. From small quantities to large-scale production, we provide manufacturing solutions that meet customer needs.

*OEM (Original Equipment Manufacturer )  
ODM (Original Design Manufacturing )  
EMS ( Electronics Manufacturing Service )*

### Sales/procurement agency service

By taking advantage of our advantages as a trading company for electronic parts and metal precision parts, we propose optimal devices that can be stably supplied at low cost.

*Electronic parts/electronic component unit sales / precision metal parts sales  
resin molded product sales / Special materials sales / secondary battery sales*

#### Realization of strategic procurement and purchasing

We help our customers streamline their operations and reduce costs by managing multiple suppliers and managing complicated ordering and delivery dates.  
Furthermore, we will realize cost reduction by providing information.

#### VMI, 'Vendor Managed Inventory'

Significantly shorten procurement LT / significantly reduce parts inventory / improve cash flow  
We will set up a warehouse managed by our company within the customer's factory, and will always have the parts to be used based on the customer's production plan. Customers can issue

## Design and Development Contract Services

Substrates, modules, electronic products, inspection equipment, etc.

We provide one-stop services from planning and specification consideration to hardware and software design, prototyping, and evaluation according to your needs.

- We will identify and carry out external design in a short period of time as necessary to fix the specifications .
- We perform integrated management of each person in charge based on specifications and create the optimal design.
- We design mechanisms and casings using standard resins, sheet metals, die-casting, cutting materials, etc. We also provide the following special designs as needed.
  - Compact design/lightweight design / heat resistant design/various heat dissipation designs / drop/vibration/shock resistant design
  - Waterproof design using packing ( IP65 , 67 , 68 compliant as required )
  - Insert molding design/resin sealing design for miniaturization and waterproofing
  - Insert molding design using transparent resin and non-transparent resin using special resin
  - Oil-resistant design including waterproof design using special resin
  - Mold design to reduce costs of cutting parts
  - Resin selection and resin design to reduce costs of metal parts
- We perform various optical designs using various resins, glass lenses, fibers, LEDs, LDs, etc.of various indicator lights / Design of drive parts using motors, etc. / Design of various cables
- It is also possible to design jigs and inspection machines for designed parts as necessary.
- Resin models can be created using cutting, various 3D printers, or casting, depending on the evaluation content.

### Circuit Design

Analog circuit design / Digital circuit design

Power circuit design

(Amplifier circuit/Detection circuit)

High density mounting / Module development

Board design

### Semiconductor Development

Interposer design and development

Material development

Package design

Mold

Dicing

Inspection/analysis

### Exterior/Mechanism Design

Product design / 3D Modeling

Structural design / Mold design

3D Printer / Cutting / Prototype

### Software Development

Device driver / Embedded software

Firmware / Application software

### Secondary Battery Development

Lithium-ion battery pack for small mobility

Lithium-ion battery pack for wearable cooler

Nickel-metal hydride battery pack for high-speed cameras

## Procurement Agency Service

Taking advantage of our advantages as a trading company for electronic parts and metal precision parts, we propose optimal devices that can be supplied at low cost and stably.

### Realization of Strategic Procurement and Purchasing

We help our customers streamline their operations and reduce costs by managing multiple suppliers and managing complicated ordering and delivery dates.  
Furthermore, we will realize cost reduction by providing information.

### Electronic Components / Electronic Component unit sales

Utilizing global procurement routes, we consistently propose and procure the most suitable products from a rich product lineup, from the microcontroller selection stage to electronic components.  
We also provide technical support, development, inventory management, etc.

### Resin molded product sales and contract manufacturing business

We assess the needs of our customers and deliver resin molded products that are indispensable in a wide variety of fields.  
We will respond to any order with regard to quality, cost, labor saving, environmentally friendly products, etc.

### VMI Vendor Managed Inventory

Significantly shorten procurement LT/significantly reduce parts inventory/improve cash flow  
We will set up a warehouse managed by our company within the customer's factory, and will always have the parts to be used based on the customer's production plan. Customers can issue (purchase) necessary parts in the required quantity according to the production schedule and put them on the line without holding inventory.

### Precision Metal Parts sales and Contract Manufacturing Business

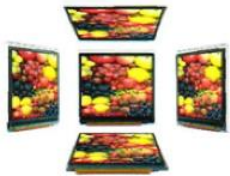
With the reliable discernment we have cultivated since our founding, we deliver high-quality parts using outstanding technology and quick processes. We offer ultra-precision grinding technology and precision cutting technology that can support mass production with an outer diameter tolerance of  $0.5\mu$  according to customer requests, high quality that complies with IATF16949, and selection of materials used.

### Special Material Sales

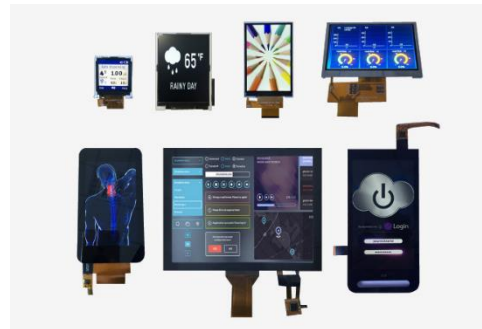
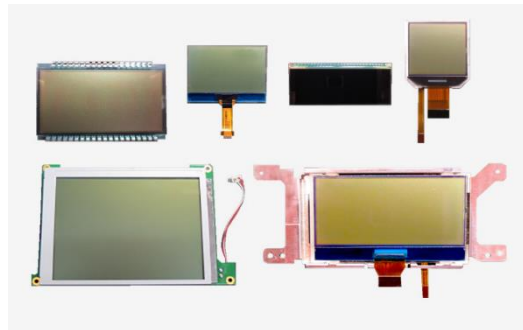
We use reliable technology to deliver special materials that meet a variety of needs, as well as high-precision, high-quality materials that lead in each field. Available in all shapes including strips (plates), wires, round bars, powder, and irregular shapes. Materials available include iron, stainless steel, high nickel alloy, copper, brass, aluminum, tungsten, and molybdenum.



## LCD



- Liquid crystal module (color / monochrome, small / large)
- LCD monitor (industrial / consumer use)
- Custom / irregular-shaped LCD
- Transparent liquid crystal
- ePoster



LCD module



Irregular / custom LCD



transparent LCD



ePoster



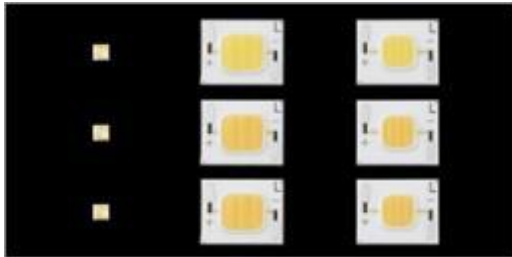
## Semiconductor



LSI



optical  
semiconductor



LED , semiconductor laser



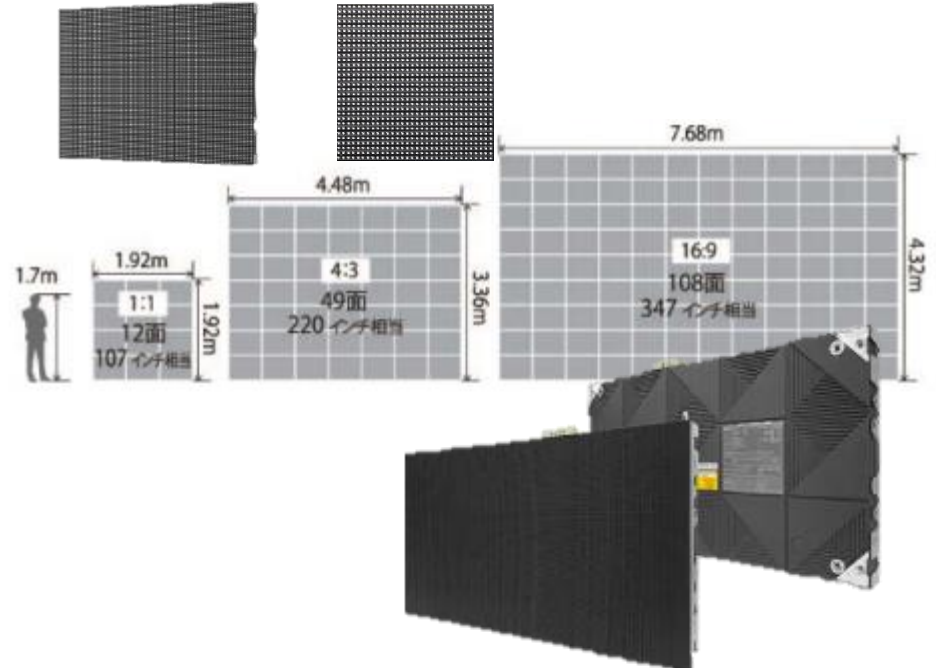
power device



high frequency parts

## LED

LED-Display



security lights



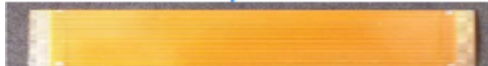


## Connector / Harness /FPC (1.5M)



High speed long FPC

Top side



We also propose connectors and harnesses that have been used in vehicles.

## IGBT/DCDC Converter



From small to large capacity  
Please contact us

Converts and stabilizes  
output voltage

## EMS Measures /EMI Measures Product

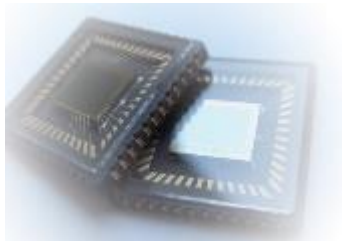


If you have any questions regarding EMC, please contact us.  
We also make proposals for CISPR and IEC compliance.

## CMOS sensor & camera module



High quality CMOS and camera modules for automotive use



## Speaker / mic (MEMS)

Automotive (Car-Phone, OHC, E-Call)		[Low Cost & Uni-Directional ECM MIC]	
		SMD	ECM(Uni)
			
		- Ø4x1.3T	- Ø6x2.7T
		- Entry level MIC	- Uni-Directional MIC
		- Sensitivity : -42 ±3dB	- Sensitivity : -39 ±3dB
		- SNR : 59dB(A)	- SNR : 63dB(A)
		- AOP : 122dB SPL	- AOP : 128dB SPL
[E-Call SPK]		[Middle Tier MEMS MIC]	
Automotive Standard		High SNR Analog	Low Power Digital
			
		- 3.5x2.65x0.98T	- 3.5x2.65x0.98T
		- Bottom Port	- Bottom Port
		- Entry level MIC	- Uni-Directional MIC
		- Sensitivity : -38 ±1dB	- Sensitivity : -26 ±1dB
		- SNR : 65.5dB(A)	- SNR : 63.5dB(A)
		- AOP : 124dB SPL	- AOP : 120dB SPL
- Ø30x1.2T - Rated Power : 3W - Impedance : 4ohm ±15% - FD : 400 ±20% - SPL : 86 ±3dB @ 0.5M / 800Hz, 1KHz, 1.2KHz, 1.5KHz avg			

Car Entertainment



## PTC heater

### Flexible Heater



Clear fog and snow  
Maintain clear vision and detection

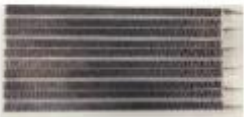


Rapid raise the temperature to above 0 °C and let the battery performance back to normal

### PTC Air Heater



Rapid deliver hot air with safe and energy saving feature



Upgrade riding comfort

## LiDAR SPE cable

**nexttron**

Single Pair Ethernet  
SPE Solution



**SPE**

INDUSTRIAL  
PARTNER  
NETWORK

## Car antenna

Antenna



## Industrial Motherboard

High compatibility, abundant I/O and excellent expandability

### Motherboard – Intel Socket



**100 series**  
Skylake -S

**300 series**  
Coffeelake -S



**400 series**  
Cometlake -S



**600 series**  
Alderlake -S



**700 series**  
Raptorlake -S

### Motherboard – Intel SoC



**WhiskeyLake -U**  
**Alderlake -P**



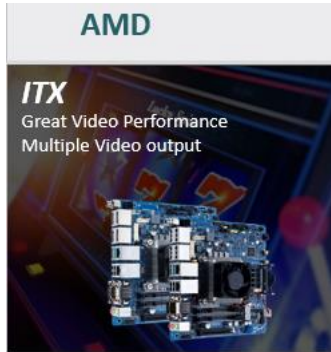
**Apollo Lake**  
**Elkhart Lake**  
**Alderlake -N**



## Industrial Motherboard

High compatibility, abundant I/O and excellent expandability

### AMD & ARM-based



1000 series

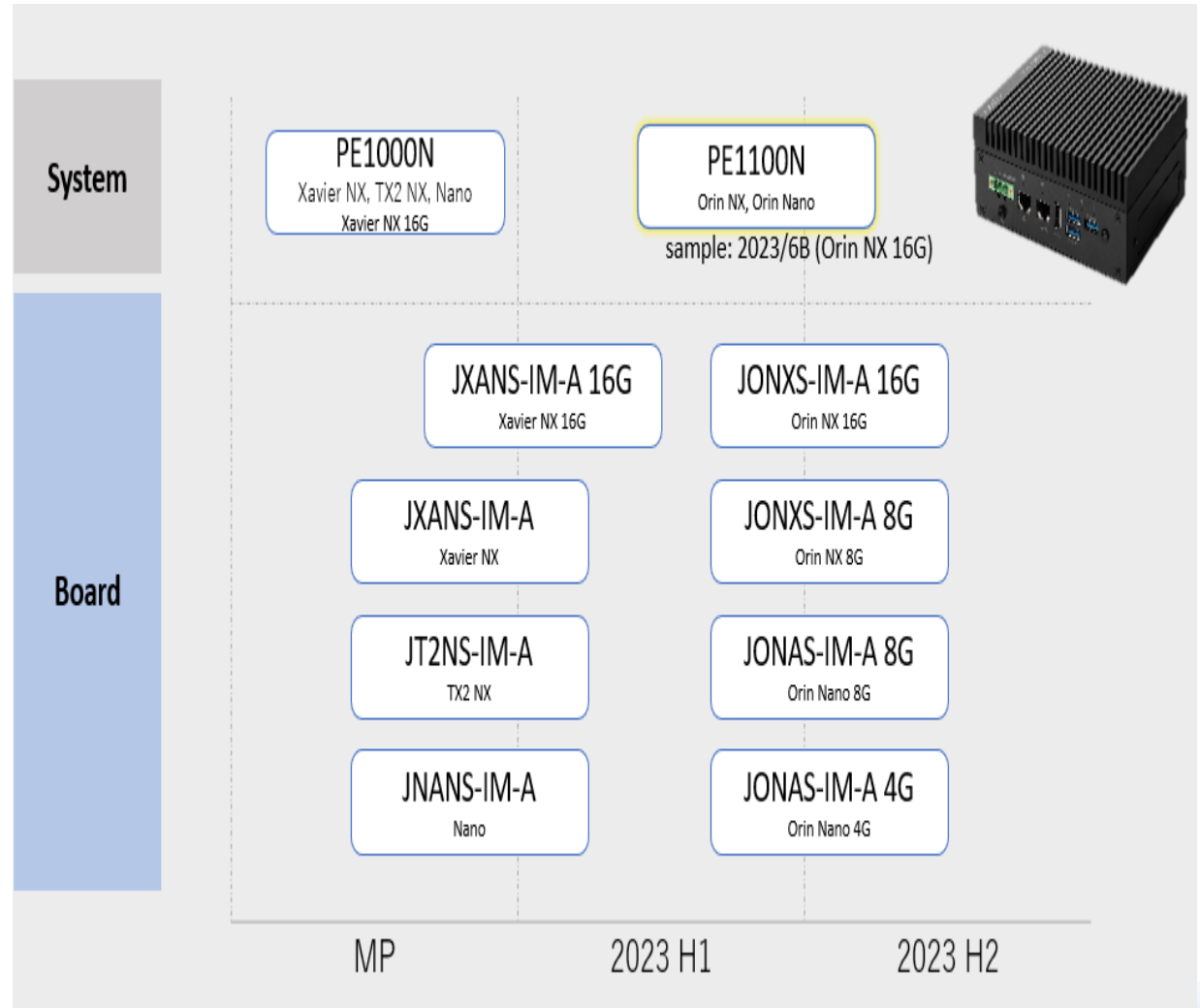
2000 series

3000 series



NXP i.MX 8M

## Nvidia Jetson Edge System & Board





## Car Supplies

### Automotive Product Architecture

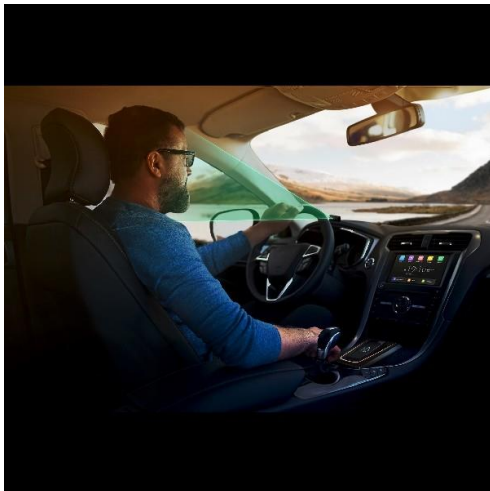


## Car Supplies

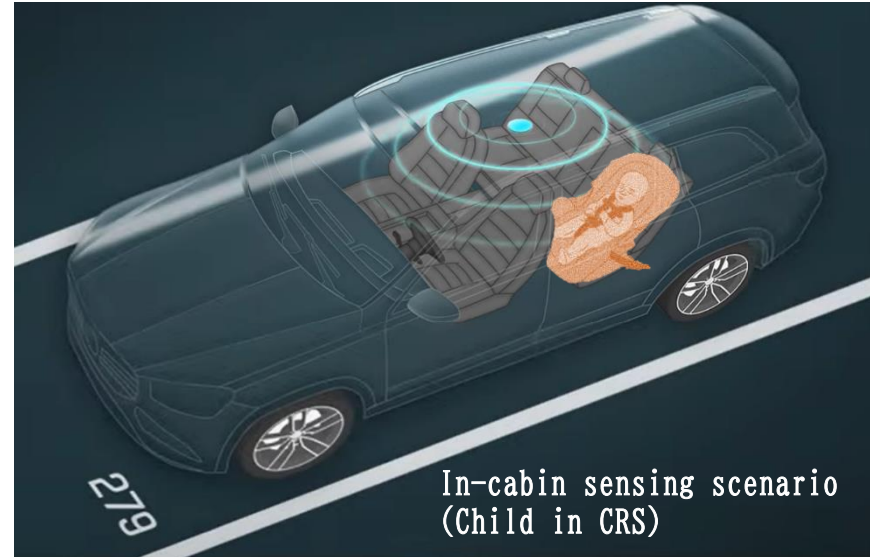
IVI System (smart monitor, enterprise system)  
Support Google/IOS



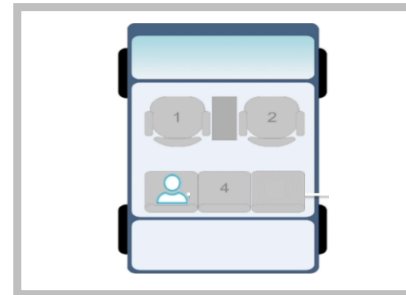
DMS (Driver Monitoring System)



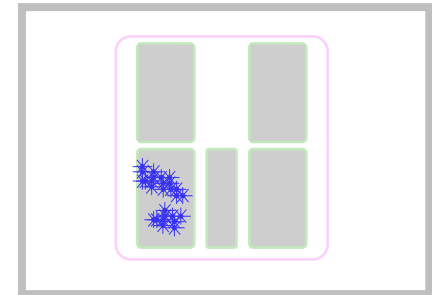
CPD (Child Presence Detection system)



In-cabin sensing scenario  
(Child in CRS)

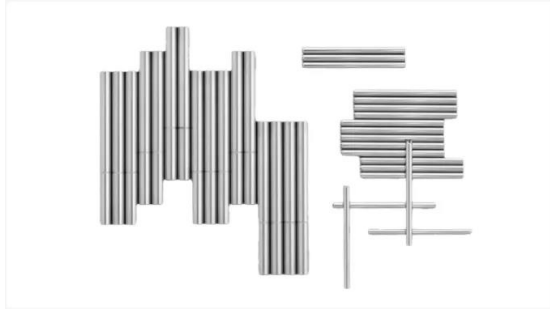


▲ Passenger localization  
(2<sup>nd</sup> row driver side)



▲ Movement detection in  
2<sup>nd</sup> row (Point cloud)

## Ultra Precision Ground Shaft



We provide ultra-precision (nano-level) shafts from material selection to applications.

## Precision Cutting Products



We provide precision processing using the latest machines with material selection and extensive know-how.

## Sintered Machine Parts



Sintered machine parts have many features such as high productivity during mass production and good wear resistance. We will provide appropriate sintered parts upon consultation.

## Die Casting Parts



Die-cast parts have high dimensional accuracy and are suitable for mass production. Mold design, manufacturing, machining, and plating are all produced in Vietnam. Materials are aluminum, zinc, brass, etc., and we can provide inexpensive die-cast parts upon request.

## Injection Molding



This is a method that uses molds that can mass produce parts of various shapes, including complex shapes.

## Vacuum Forming/Pressure Forming



This is a method of molding plastic materials using vacuum.

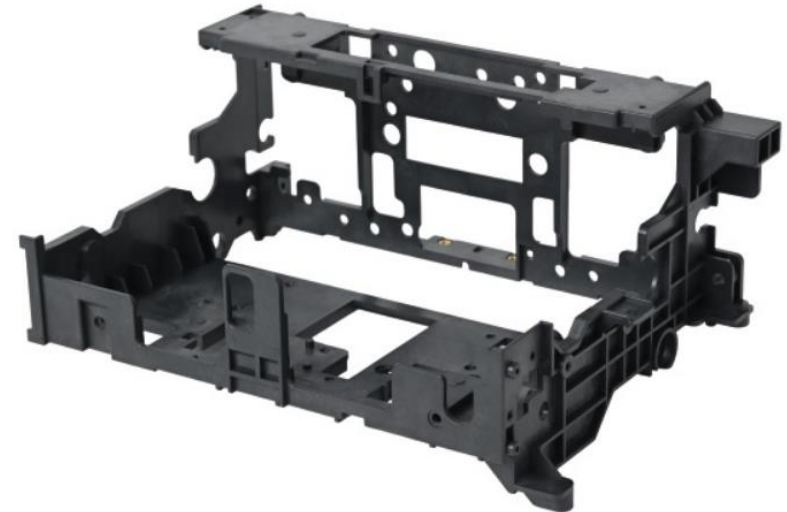
## Resin molded products

Gears – High-precision gears can be formed using our unique mold manufacturing method.



We control dimensional accuracy, sink marks, warpage, and weld lines to produce optimal products. Directional control of filler allows molding to increase product strength.

We handle various molding and assembly processes for mechanical parts – from small to large, and achieve high quality, low cost mass production.

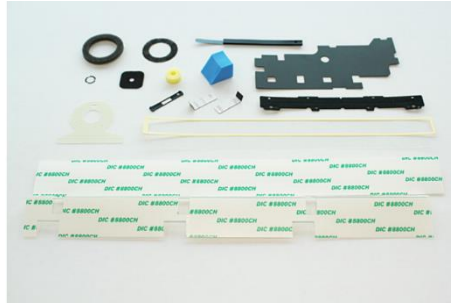




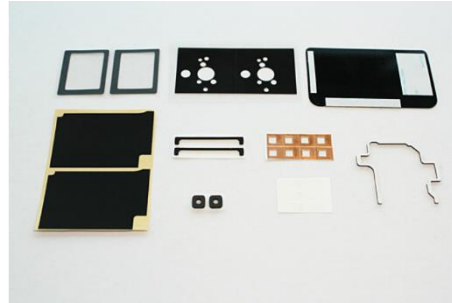
## Sheet processing

Resin film, sponge, double-sided tape, etc.

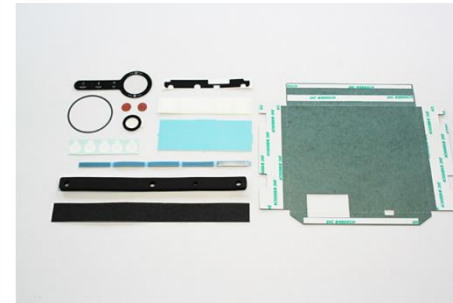
Document related parts



Video equipment



Automotive



## Rubber product

EPDM , NBR , HNBR , ACM , CR , IIR , VMQ , FKM etc.

Automotive



※圧縮永久歪対応

Home appliance





※複雑形状対応

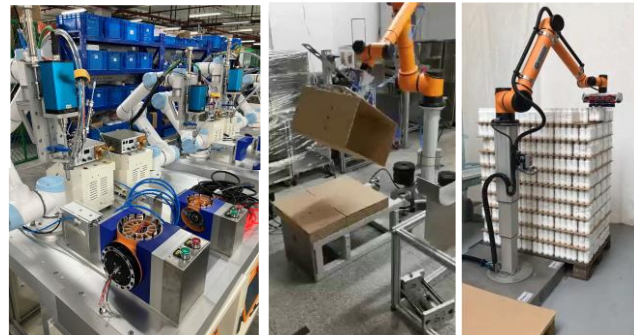
## Collaborative robot

## Abundant lineup and wide range of uses

3 to 20 kg and can be freely combined with end effectors.  
It exhibits excellent performance in all aspects of accuracy, speed, and stability.  
OEM/ODM support is also possible.

				
<b>i3</b>	<b>i5/i7</b>	<b>i10/i12</b>	<b>i16</b>	<b>i20</b>
最大負荷3kg	最大負荷5kg/7kg	最大負荷10kg/12kg	最大負荷16kg	最大負荷20kg
精度±0.02mm	精度±0.02mm	精度±0.03mm	精度±0.03mm	精度±0.1mm
可動範囲625mm	可動範囲886.5mm/786.5mm	可動範囲1350mm/1250mm	可動範囲967.5mm	可動範囲1650mm
自重16kg	自重24kg	自重38.5kg/40kg	自重38kg	自重63kg
末端速度 ≤1.9m/s	末端速度 ≤3.4m/s/≤3.0m/s	末端速度 ≤4.0m/s/≤3.8m/s	末端速度 ≤3.0m/s	末端速度 ≤2.6m/s

	
<b>AUBO-C3</b>	<b>AUBO-C5</b>
可搬重量:3kg	可搬重量:5kg
本体重量:16kg	本体重量:24kg
位置繰返し精度: ±0.1mm	位置繰返し精度: ±0.1mm
リーチ:625mm	リーチ:886.5mm



## Solve customer issues



## 2nd place in world sales China's No.1 manufacturer

Follow-up on delivery dates by maintaining domestic inventory  
Introduction and after-sales follow-up at domestic bases  
2 years quality guarantee

工業				非工業			
							
3C	半導体	自動車	新エネルギー	科学研究 教育	小売り	サービス	飲食
							
機械設備	金物家電	キッチン 衛生品	日用品	医療健康	農業	電力	その他
							
化学	食品	精密分野	その他				

## Secondary battery development/consulting

We provide consistent support for all types of secondary batteries, including lithium-ion batteries, from consulting to design, development, manufacturing, obtaining various certifications, and transportation.



- Development costs can be reduced by using standard and general-purpose products.
- We do not belong to any cell manufacturer or pack manufacturer group, and maintain good relationships with each company.
- Therefore, we are able to propose solutions that are truly optimal for the client's application, regardless of the intentions or policies of the cell manufacturer.

### Review of power source and proposal for improvement of battery configuration

- We propose batteries that match the customer's product application and usage environment, such as making it smaller and quieter.
- We can also consult with you to review the power source, such as "gasoline engine → secondary battery", "primary battery → secondary battery", "lead battery → lithium ion battery", etc.

 <p><b>EFP1602W32</b></p> <p>使用セル：リン酸鉄リチウムイオン 電圧：51.2V 容量：12000mAh 定格電力量：614.4Wh サイズ：328*156*85mm BMS：○ 取得認証：- 専用充電器：- 備考：SMBus 通信機能搭載 メーカー：METCO（台湾）</p>	 <p><b>EFL5203B</b></p> <p>使用セル：リチウムイオン 電圧：50.4V 容量：29400mAh 定格電力量：1482Wh サイズ：378*156*85mm BMS：○ 取得認証：UN38.3 専用充電器：SPC-290WW(14S/4.5A) メーカー：METCO（台湾）</p>	 <p><b>EFL5204A(CAN)</b></p> <p>使用セル：リチウムイオン 電圧：50.4V 容量：25200mAh 定格電力量：1268.4Wh サイズ：378*156*85mm BMS：○ 取得認証：UN 38.3 専用充電器：SPC-290WW(14S/4.5A) メーカー：METCO（台湾）</p>	 <p><b>SBP014</b></p> <p>使用セル：リチウムイオン 電圧：36V 容量：14000mAh 定格電力量：511Wh サイズ：361*90*68mm BMS：○ 取得認証：- 専用充電器：- 備考：CANBus通信機能搭載/Semi in-tube メーカー：MERRY（台湾）</p>
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“Smart digital signage” using “Smart scheduler” manufactured by u-Smart Technology

Windows brand  
“first time”



Windows  
スマートデジタルサイネージの  
No.1ブランド



## Implementation results

(Taiwan/East Asia)

Government-related organizations (drug/pharmaceutical testing institutions, etc.)

Insurance companies / power companies / major companies  
School (elementary school, junior high school, high school, vocational school, university, etc.)

Golf courses/department stores (Taiwanese SOGO, etc.)

Radio media related / Each restaurant/retail store

Major chain stores (eyeglass companies, etc.)

Single panel, dual panel  
Easy to install, no complicated wiring



The “poster type”, designed specifically for Japan, is compact and convenient.



10 inches to 55 inches  
Indoor/outdoor

Windows  
All-in-one PC  
mounted

wireless HDMI  
to the installation  
environment  
Flexible response

Available off-line  
network  
No worries about attack or  
cutting

Durability and  
aesthetics  
Excellent for commercial use  
display panel

Equipped with Windows 10 Pro as standard  
You can browse websites, stream YouTube live,  
and play videos and photos.  
Supports remote desktop management with  
Anydesk software etc.

Use up to 4 displays simultaneously using  
wireless HDMI



## Electrostatic Destruction Device



HED-S5000R



HCE-5000



HED-G5000



Hanwa  
Electronics  
Industry

Test equipment compatible with HBM and MM using capacitor discharge.  
This is a highly reliable device that complies with Japanese and overseas standards (JEITA/ESDA/JEDEC standards compatible).

## CDM Tester



HED-C5000R

This is a breakdown resistance test device when it comes into contact with objects with different electric potentials.

## TLP Tester, Static Electricity Visualization Monitor



We also have a TLP tester that simulates the operating characteristics of protection circuits, a malfunction tester, and a visualization monitor that shows static electricity.



## ISO initiatives

( ISO9001/14001 certified)



三金株式会社  
大阪府大阪市西区阿波座2丁目2番1号

### 登録証

登録番号:QC07J0011

ISO 9001:2015・JIS Q 9001:2015

電子部品・電子部品ユニット・精密金属部品・  
特殊材料・半導体試験装置の販売

当機関は、上記組織が、当該マネジメントシステム  
要求事項に適合していることを証します。

登録日 : 2017年 4月27日  
更新日 : 2022年 4月27日  
発行日 : 2022年 2月22日  
有効期限 : 2025年 4月26日

株式会社 日本環境認証機構

東京都港区赤坂2-2-19

代表取締役 小野寺 浩幸



三金株式会社  
大阪府大阪市西区阿波座2丁目2番1号

### 登録証

登録番号:EC05J0426

ISO 14001:2015・JIS Q 14001:2015

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東京都港区赤坂2-2-19

代表取締役 小野寺 浩幸

## Sankin's efforts to achieve the SDGs

Our company supports the Sustainable Development Goals (SDGs) advocated by the United Nations and will actively work towards realizing a sustainable society.

“With a spirit of innovation and creativity, we will strive to become an indispensable presence both domestically and internationally.”



*Provide Comfort to  
Your Future, to  
Realize the Future*



<https://www.sankin-net.com/>

