



COMPANY PROFILE

Corporate Outline (as of March 31, 2021)

Name
SMK Corporation

Business Consumer electronics

Date of establishment April 1925 (94Y)

Capital 7,996 million yen (\$73 MUSD)

SharesAuthorized shares 19,596,127Issued shares 7,500,000

Settlement March 31st

Sales
 54,161 million yen (\$468M USD)

Number of employees5,828 (in the Group)

6-5-5 Togoshi,
 Head Office Shinagawa-ku,
 Tokyo 142-8511



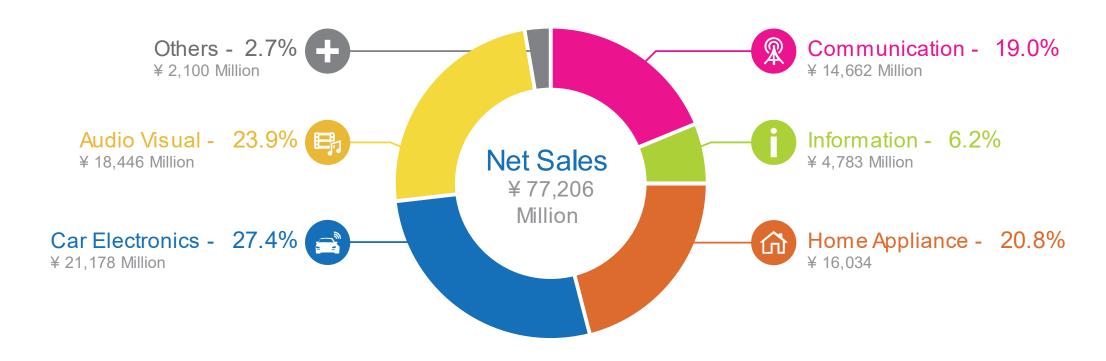


Our Vision

"Challenge, Creativity and Solutions",

Yasumitsu Ikeda President, CEO and COO

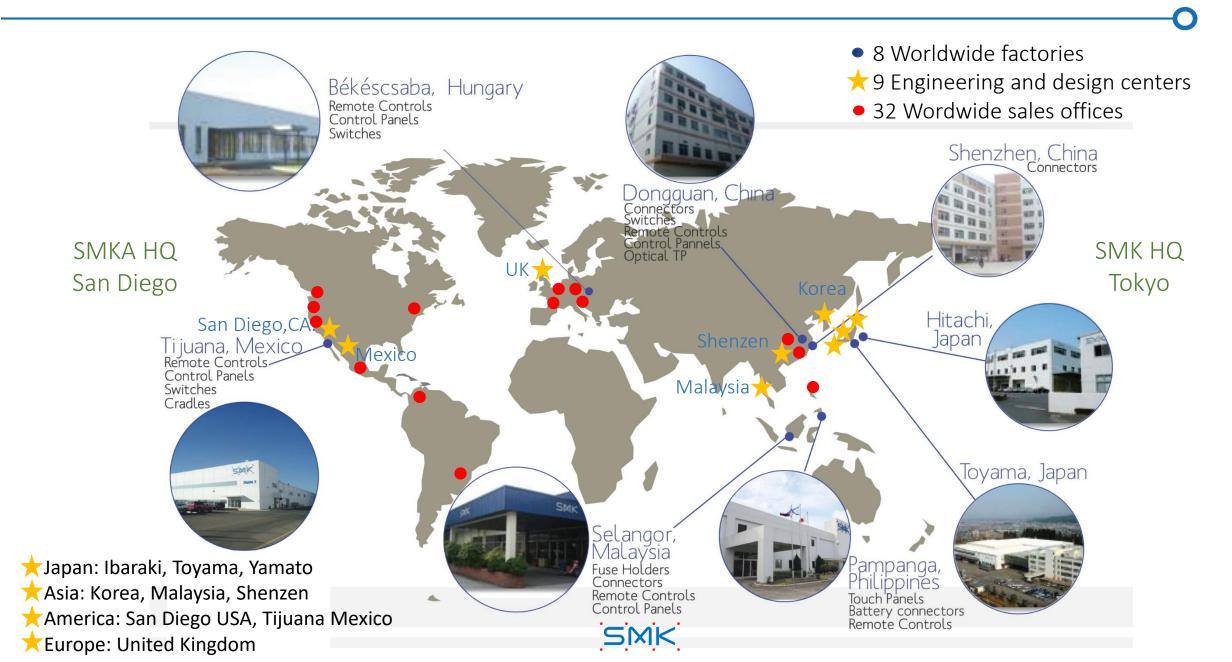
SALES BY MARKET



Others: Markets of Medical Equipment, Rehabilitation Equipment, Industrial Robot, N C Machine, Electrical Measuring Equipment, etc.



Manufacturing products



STANDARD CERTIFICATIONS

		ISO	ISO	ISO
COUNTRY	DIVISION	ISO 9001	ISO 14001	ISO/IATF 16949
	CS Divis	ion	_	_
	Product FC Divis	ion	-	-
Japan	TP Divis	ion	-	_
σαραπ	Head Offi Office	ce –		-
	and Toyama W	orks –		_
	Works Hitachi W	orks		_
USA and Mexico	SMK America Grou	· •	©	©
UK	SMK Electronics (Euro Limited, U.K. Branc	ppe)		_
Malaysia	SMK Electronics (Mala Sdn. Bhd.	ysia)	©	_
	SMK Electronics (Dongo Co., Ltd.	guan)		_
China	SMK Electronics (Shen: Co., Ltd.	zhen)		
2	SMK Electronics Technol Development (Shenzh Co., Ltd.		-	-
Philippines	SMK Electronics (Ph Corporation	ils)	©	



SMK Outline, June 2022









MANUFACTURING CAPABILITIES

MOLDING



6 MILLION molded parts per month



33 INJECTION MOLDING MACHINES

5 Small	65-100 tons	Conventional	
23 Medium	100-200 tons	Injection	
5 Large	230 tons	Double shot	



BRANDS

Toshiba Sodic Fanuc

Nissei Sumitomo



LASER SURFACE TEXTURING

O

ADVANTAGES

- •Cost-efficiency due to a reduction in labor and production time compared to other traditional marking methods.
- •The ability to mark difficult to reach spaces on products.
- •An increased marking precision compared to methods such as acid etching, since the chemicals involved in that process can create depth variances resulting in a less uniform product.
- •A high level of control over surface microstructures which in turn helps to reduce the environmental impact of the process in comparison to other methods.
- •A significant reduction in waste, as well as the lack of need for any chemical reagents.





APPLICATIONS

- Magnetic storage drives and assorted devices
- Thrust bearings
- MEMS devices
- · Hydraulics equipment
- Seals
- Nano materials
- · Metallic and dielectric films
- Engines
- Superconducting materials
- Solar cells
- Implants for bone and dental appliances



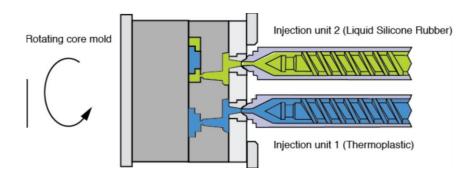


DOUBLE MOLDING

Manufacturing process used to produce complicated molded parts from two different materials by molding plastic around a preformed metal or plastic insert.

The process is relatively simple; one material is injected into a mold in order to make the initial piece of the product, followed by a second injection of another material that is compatible with the initial injection molded piece.

The two plastic resins then form a molecular bond and the multiresin molded part is cooled and ejected









OVER MOLDING

Most common materials to over is TPE, mainly for soft feeling, this is over mold over materials as:







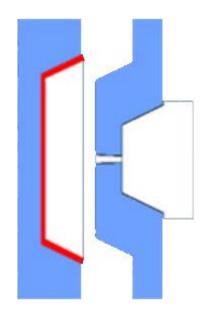
IMD (TR or S) & IML PLASTIC INJECTION MOLDING

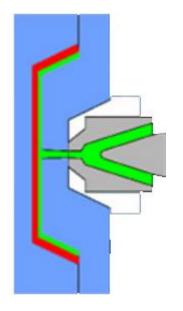
IMD and IML systems drive it's technology to reproduce the products with unique touch, feel, and texture beyond mere decoration. The film, onto which the desired design has been printed, is inserted into the mold. Resin is introduced to the mold and the design transfers onto the component

In-mold decorating eliminates a post-processing operation by allowing parts to be decorated during the molding cycle. Benefits are said to include enhanced manufacturing productivity









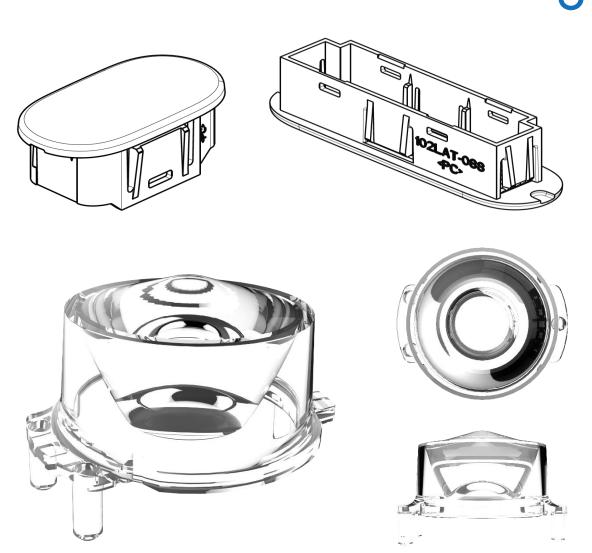




OPTICAL MOLDING

Beltlines, vanity mirror guide light interior door panels, and carpeted map **pockets**, cargo etc.





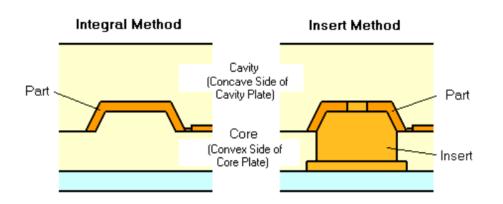


INSERT MOLDING

Insert injection molding involves encapsulating a previously fabricated component in molten resin to produce a finished part.

The inserted component is most commonly a simple object, such as a knife blade or surgical tube, but in some cases, inserts can be as complex as a battery or motor.

Plastic insert molding is ideal for improving the strength and reliability of a component and can help save on cost and production time by eliminating the need for secondary operations such as soldering, connectors and adhesives.









MANUFACTURING CAPABILITIES

TOOLING



HAAS CNC Machine VF-1

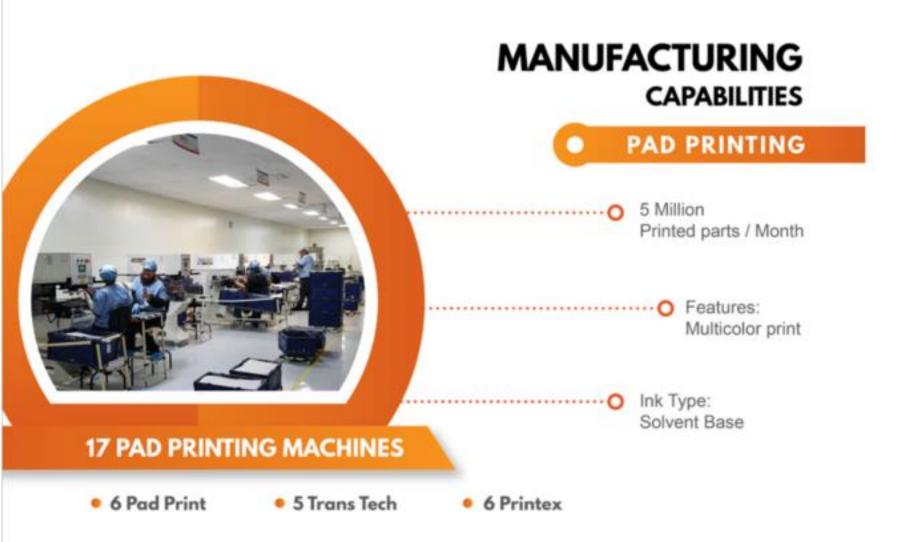


Preventive Maintenance









Example

















EQUIPMENT & BRANDS CHIP SHOOTER (HT) & REFLOW OVEN



SURFACE MOUNT TECHNOLOGY

- High speed chip shooter: 50,000 CPH
- ▶ 18 Head / 6 Neggle by head.
- Placement accuracy: 50um.
- Recognition vision system. Labour service until for standings chip.

Reflow Oven "SOLDER PASTE CURING"

- 8 Zone force convection heater
- Load Nee leady
- Top & Bottom reflow air consistion
- One step profiling.

SOLDER PASTE INSPECTION (SPI) & AUTOMATED OPTICAL INSPECTION (AOI)





Inspection

(SPI)

Automated Optical Solder Paste Inspection (AOI)











MANUFACTURING

CAPABILITIES

WAVE SOLDERING SYSTEM



BRAND

Speedline

MODEL

Vectras 2

PURPOSE

To weld through hole component by wave solder.

1 Million PCB soldered per month



Example



MANUFACTURING CAPABILITIES

LASER ETCHING

- Marking, Engraving, Etching
- 2D & 3D Laser Markers
- Indexed Marking
- Manual marking stations
- 2 Laser Machines
- Capacity: 150,000 pieces monthly each one













FINAL ASSEMBLY AREA



Capacity for 60 Flexible cells



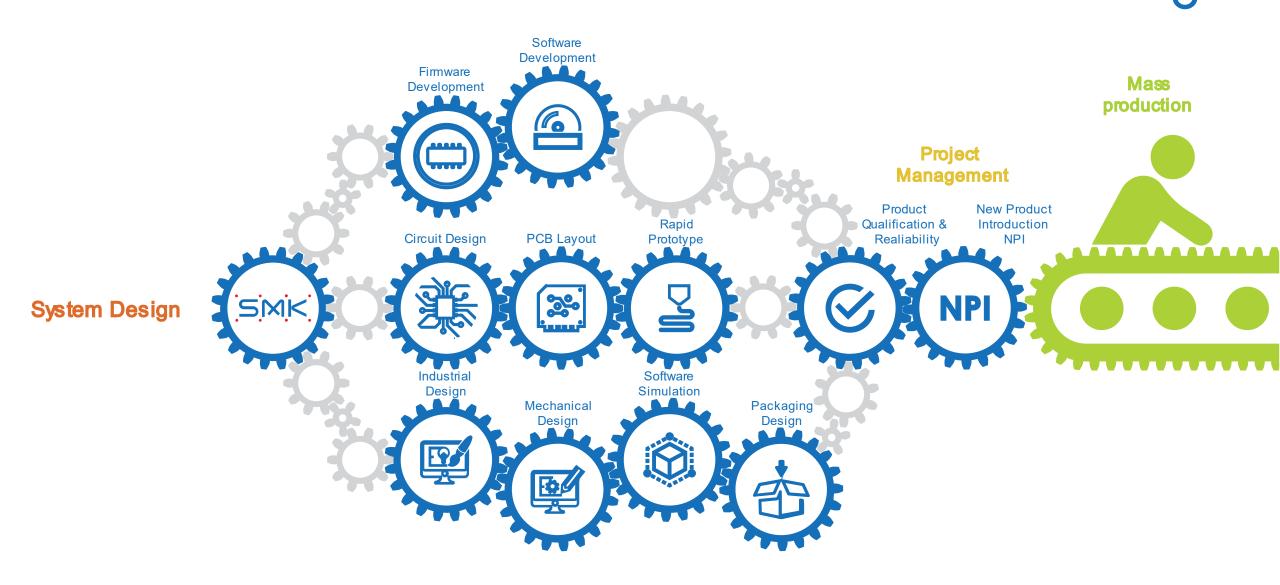
2'500,000 Units per month



- Manual Sodering
- Assembly
- Functional Test
- Visual Inspection
- Final Packing
- Quality Control



ENGINEERING DESIGN CAPABILITIES







LM STEERING WHEEL.

Materials: ABS resin + TEIJIN Panlite<PC> Overmold Electronic specifications:



Capacitive sensing touch





4 BUTTON KEYFOB.

Materials: ABS resin + TPE Overmold, Aluminum

Electronic specifications:





Bluetooth



Waterproof





Materials: ABS resin + In Mold Decoration / Tarflon Polycarbonate

Electronic specifications:

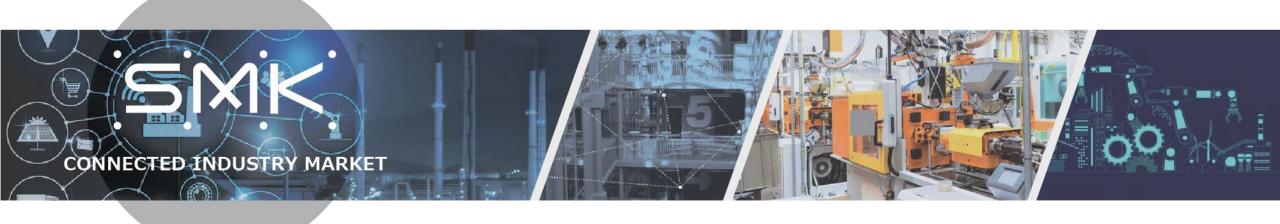


Capacitive sensing



LED illumination + Projection





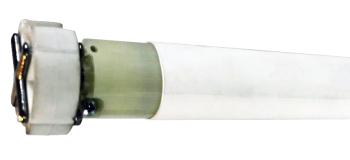
RV DASH A/C CONTROL PANEL

Materials: ABS resin + TPV Overmold / Polycarbonate

Electronic specifications:







MOTOR PVG3 PIR 23MM

Materials: ABS resin + Polycarbonate

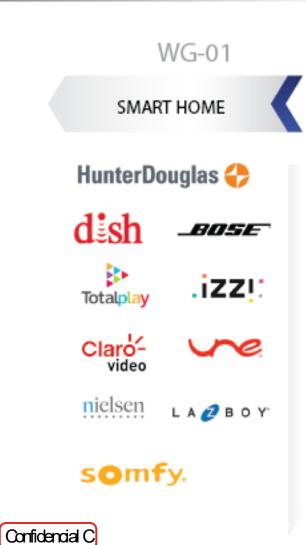
Electronic specifications:

Operating Voltage: +12V ~ +18V (through DC

Cable Assy)



MAIN CUSTOMERS













CUSTOMER WE ARE GLAD TO ATTEND IN AMERICA

























































THANK YOU

GRACIAS

ありがとうございました

