

Global network to expand in Asia



Automotive Industry for Plastic

Consistently from precision mold making to secondary processing, We are engaged in the development and production.



Medical Plastic


It sought a high degree of technical precision and risk management, We are promoting the development of the high level of medical component manufacturing.



Asia Expansion

Also put the Production Base in the Philippines and Thailand, We have built a thorough network.

What's new

 一覧を見る

2023.11.24

Notice

年末年始休暇のお知らせ

MCCLは2023年12月29日(金)より2024年1月3日(水)まで、
MPIは2023年12月24日(日)より2024年1月2日(火)まで、
MCTは2023年12月28(木)より2024年1月3日(水)まで
年末年始休暇とさせていただきます。

2023.10.24

Notice

生産スケジュールの導入に関して

スカイディスク社の最適ワークス導入事例に弊社の記事が掲載されました。
詳しくは下記をご覧ください。
海外2工場の生産計画DXを実現したい
https://saiteki.works/case_study/231024/
生産計画DXだけじゃない、ミツワケミカルが考えるDXとは？
<https://skydisc.jp/information/4097/>

2023.07.12

Notice

夏季休暇のお知らせ

MCCLは、2023年8月12日(土)より2023年8月16日(水)まで夏季休暇とさせていただきます。

2023.04.11

Notice

GW休暇のお知らせ

MCCLは2023年5月3日(水)より2023年5月7日(日)まで、
GW休暇とさせていただきます。

2023.01.20

Notice

湘南ベルマーレオフィシャルクラブパートナー契約締結のお知らせ

株式会社ミツワケミカルは、Jリーグ開幕当初より応援している湘南ベルマーレと現在同所在地のご縁もあり、オフィシャルクラブパートナー契約を締結いたしました。詳しくは下記をご覧ください。
<https://www.bellmare.co.jp/301500>



Equipment
Outline

Production

たのしめるか。

Bellmare



I PROS 製造業

Hotfrog

NC
network

がんばれ製造業！
CCNET



平塚市

HIRATSUKA Industrial Information

工業インフォメーション



仕事と家庭、両立しよう！
両立支援のひろば

女性

の活躍推進企業

データベース



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- Philippines
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Products

- Car Audio
- Car Navigation
- Automotive Interior Trim
- Medical Plastic
- Others

Employment

- Japan
- Philippines
- Thailand



Company Profile

Greetings

The corresponding also to a more diverse needs
in the global trading partners We will establish a system.

Mitsuwa Chemical Co.,Ltd., has followed the road along with the economic growth of Japan, contributing to the industries and the society with "pursuance of client satisfaction", "improving the quality", and "challenging the new technology" always in mind, since it was established in December 1962 at Hiratsuka of Kanagawa, as an integrated manufacturer of plastic parts.

Our history started with thermoplasticity molding of plastic parts for light electric parts and automobile parts, and further developed into manufacturing and integrating of plastic parts such as development and fabrication of precise mold to secondary processing coating, printing, laser marking, assembling, etc.

Also, with the globalization of the Japanese automobile industries/manufacturers, integrated production factory was established as a local corporation near Manila, Philippines, in July 1994, which has become a major Production Base . Another Production Base near Bangkok, Thailand, was established on April 2007, preparing a structure to match the global and various needs of our clients.

In addition, we are actively pursuing the production of transparent/clear plastic parts, injection molding in clean room environment and molding thermosetting resin to fit maturation and generalization of healthcare-related industries. We are proud that we can do various solution proposal with experience and skills which has cultivated for realizing high-level quality standard in healthcare-related industries that require strict quality standard.

We will work hard to gain more trust from our clients,
and thank you very much for all of your support.

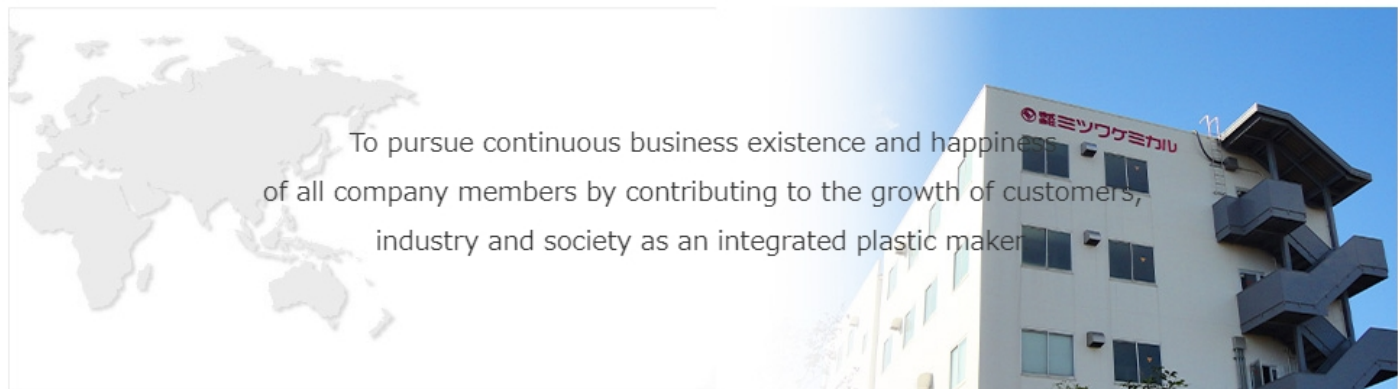
Mitsuwa Chemical Co.,Ltd.
Representative Director, President
Zen Jimbo

Company Profile

| | |
|-------------------|---|
| Japanese Name | 株式会社ミツワケミカル |
| English Name | Mitsuwa Chemical Co.,Ltd. (MCCL) |
| Date Established | December 27, 1962 |
| Representative | Zen Jimbo |
| Address | 18-8 Nakado, Hiratsuka, Kanagawa, Japan 254-0026 TEL: +81(0)463-22-5286 FAX: +81(0)463-23-2155 E-MAIL: mccl-info@mitsuwa-chemical.com |
| TAX ID | T3021001037415 |
| Factory Area | Premises : 2,208.12m ² 、 Building : 1,302.67m ² 、 Floor Area : 4,416.00m ² |
| Fiscal Term | March |
| Quality Standards | ISO9001:2015/JIS Q9001:2015 CERTIFICATE 4866 |
| Employee | 12 (Including Part Timer、 Temporary Worker) (As of November 1, 2023) |
| Depository Banks | Mizuho Bank, Hiratsuka Branch Shokochukin Bank, Yokohama Branch Yokohama Bank, Hiratsuka Branch |
| Business Outline | Planning and execution of Group business plans, support for business activities of Group companies |



Corporate Ethics



Corporate Philosophy



Origin of Corporate Name and Emblem

Three rings of trust, "person to person", "person to corporation", and "person to society"

Our company name "Mitsuwa (Three Rings)" was derived from the taxi company, "Mitsuwa Taxi", which mainly targeted high-ranking Government officials and foreigners as customers, ran by the founder's father before the WWII in Hiratsuka.

It is said that it was named with his belief that the corporate can grow only if three rings of trust, "person to person", "person to corporation", and "person to society," is built.

The founder has inherited the belief, and established the Mitsuwa Chemical Co.,Ltd., as an integrated manufacturer of plastic parts. We have been treasuring these three rings of trust ever since.

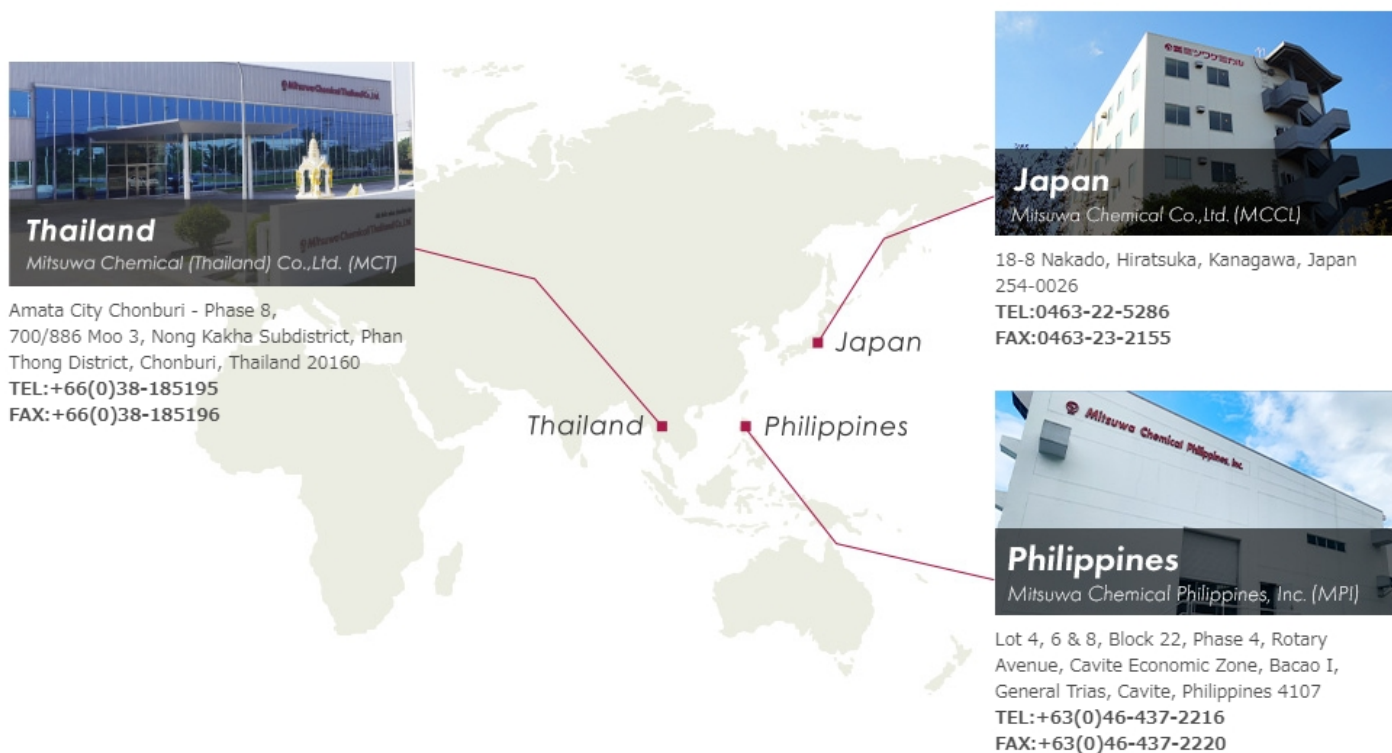


History

- 1962. Established Mitsuwa Chemical Co.,Ltd. at Sengokugashi Hiratsuka, Kanagawa
Newly constructed Main Factory
- 1972. First expansion of Main Factory
- 1975. Second expansion of Main Factory
- 1979. Newly constructed Banyu Factory at Nakado Hiratsuka Kanagawa (493.92 m²)
- 1983. Newly constructed Delivery Center
- 1988. Newly constructed Tamura Factory
- 1990. First expansion of Banyu Factory (1,141.83 m²)
- 1992. Newly constructed Amanuma Center
Established Clarion Mitsuwa Philippines, Inc. (CMP) as a joint venture with Clarion Co.,Ltd.
- 1994. Established Mitsuwa Philippines, Inc. (MPI) in Cavite Economic Zone Philippines
Second expansion of Banyu Factory (2,149.49 m²)
- 1995. Newly constructed MPI Factory (1,900 m²)
- 1996. First expansion of MPI Factory (2,800 m²)
- 1997. Third expansion of Banyu Factory (4,416 m²)
Moved the Main Factory at Sengokugashi to Banyu Factory at Nakado
- 1998. Alienated CMP to Clarion Co.,Ltd.
- 1999. Second expansion of MPI Factory (3,440 m²)
- 2000. Third expansion of MPI Factory (4,340 m²)
Integrated Amanuma Center, Tamura Factory, and Delivery Center to Main Factory
- 2003. Fourth expansion of MPI Factory (5,440 m²)
Main Factory acquired ISO9001:2000
MPI Factory acquired ISO9001:2000
- 2004. Main Factory acquired ISO14001:1996
- 2005. Fifth expansion of MPI Factory (8,694 m²)
- 2007. Established Mitsuwa Chemical (Thailand) Co.,Ltd. (MCT) in Amata Nakorn Thailand
- 2008. Newly constructed MCT Factory (4,226 m²)
- 2009. MPI Factory acquired ISO14001:2004
MCT Factory acquired ISO 9001:2008, ISO14001:2004
- 2010. MPI Factory acquired ISO/TS16949:2009
MCT Factory acquired ISO/TS16949:2009
- 2012. 50th anniversary of establishment
- 2014. Change of trade name to Mitsuwa Chemical Philippines, Inc.
Sixth expansion of MPI Factory (9,416 m²)
- 2016. Acquired partial capital share of Xudong Philippines Inc. (XDPI)
XDPI started operation within MPI Factory
- 2017. MPI Factory acquired ISO13485:2016 , IATF16949:2016, ISO9001:2015 ,
ISO14001:2015.
- 2018. Transferred machineries and equipments of main factory to MPI factory and MCT factory.
Main Factory acquired ISO9001:2015.
MCT Factory acquired ISO9001:2015 , ISO14001:2015, IATF16949:2016.
- 2021. Acquired partial capital share of Xudong Mold (Thailand) Co.,Ltd. (XDMT)
- 2022. Acquired partial business of PTON Corporation



Production Base



Thailand
Mitsuwa Chemical (Thailand) Co., Ltd. (MCT)

Amata City Chonburi - Phase 8,
700/886 Moo 3, Nong Kakha Subdistrict, Phan
Thong District, Chonburi, Thailand 20160
TEL: +66(0)38-185195
FAX: +66(0)38-185196

Japan
Mitsuwa Chemical Co., Ltd. (MCCL)

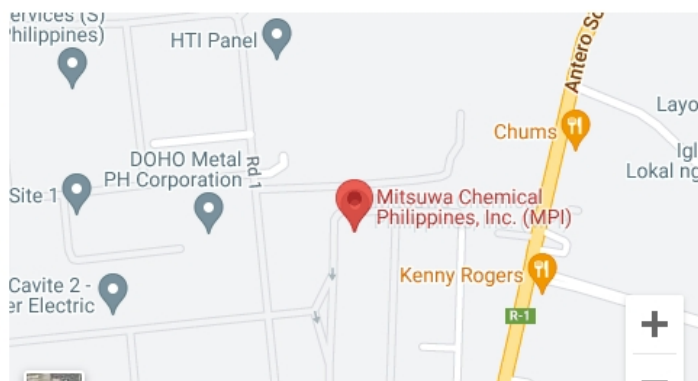
18-8 Nakado, Hiratsuka, Kanagawa, Japan
254-0026
TEL: 0463-22-5286
FAX: 0463-23-2155

Philippines
Mitsuwa Chemical Philippines, Inc. (MPI)

Lot 4, 6 & 8, Block 22, Phase 4, Rotary
Avenue, Cavite Economic Zone, Bacao I,
General Trias, Cavite, Philippines 4107
TEL: +63(0)46-437-2216
FAX: +63(0)46-437-2220

Philippines

| | |
|-------------------------|---|
| English Name | Mitsuwa Chemical Philippines, Inc. (MPI) |
| Date Established | July 27, 1994 |
| Start of Business | April 1, 1995 |
| Representative | Hidekazu Yamanaka |
| Address | Lot 4, 6 & 8, Block 22, Phase 4, Rotary Avenue, Cavite Economic Zone, Bacao I, General Trias, Cavite, Philippines 4107 TEL: +63(0)46-437-2216 FAX: +63(0)46-437-2220 E-MAIL: mpi-info@mitsuwa-chemical.com |
| TAX ID | 004-449-373-000 |
| Factory Area | Premises : 15,045.50m ² , Building : 8,656.95m ² , Floor Area : 9,466.95m ² |
| Fiscal Term | March |
| Quality Standards | ISO9001:2015 CERTIFICATE PH13/0875 ISO13485:2016 CERTIFICATE PH18/1819 IATF16949:2016 CERTIFICATE PH10/0449 IATF Number 0291290 |
| Environmental Standards | ISO14001:2015 CERTIFICATE PH15/1243 |
| Employee | 484 (Including Temporary Worker) (As of November 1, 2023) |
| Depository Banks | Mizuho Bank Manila Branch BDO Cavite EPZA Branch |
| Business Outline | Design and fabrication of mold for plastic parts Molding plastic parts Secondary processing of plastic parts (coating, printing and laser marking) Assembling and testing of plastic parts |





[Google mapで見る](#)



Thailand

| | |
|-------------------------|---|
| English Name | Mitsuwa Chemical (Thailand) Co.,Ltd. (MCT) |
| Date Established | April 2, 2007 |
| Start of Business | February 2, 2009 |
| Representative | Hidekazu Yamanaka |
| Address | Amata City Chonburi - Phase 8, 700/886 Moo 3, Nong Kakha Subdistrict, Phan Thong District, Chonburi, Thailand 20160 TEL: +66(0)38-185195 FAX: +66(0)38-185196 E-MAIL: mct-info@mitsuwa-chemical.com |
| TAX ID | 0205550007230 |
| Factory Area | Premises : 16,996m ² 、Building : 3,251.60 m ² 、Floor Area : 4,226.20 m ² |
| Fiscal Term | March |
| Quality Standards | ISO9001:2015 CERTIFICATE FM66181 IATF16949:2016 CERTIFICATE 660182 IATF Number 0333527 |
| Environmental Standards | ISO14001:2015 CERTIFICATE EMS659260 |
| Employee | 185 (Including Temporary Worker) (As of November 1, 2023) |
| Depository Banks | Mizuho Bank Bangkok Branch Bangkok Bank Amata Nakorn Industrial Estate Branch |
| Business Outline | Design and fabrication of mold for plastic parts Molding plastic parts Secondary processing of plastic parts (coating, printing and laser marking) Assembling and testing of plastic parts |



[Google map](#)

Affiliated company

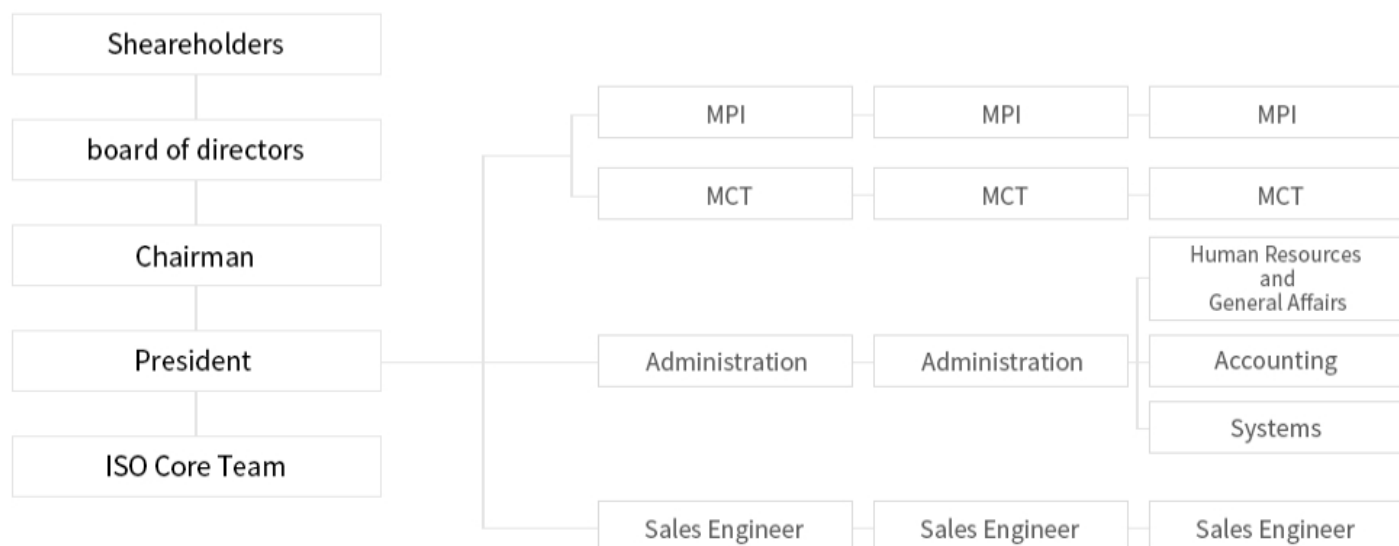
| | |
|--|--|
|  Xudong Philippines Inc. |  Xudong Mold (Thailand), Co.Ltd. |
|--|--|

Clients

| | | | | |
|---|---|--|--|---|
|  Alpine Electronics, Inc. |  U-SHIN LTD. |  Clarion Co.,Ltd. |  DENSO TEN Limited |  TOKAI RIKA CO., LTD. |
|  DENSO LTD. |  FILTEREN Co., Ltd. |  MinebeaMitsumi Inc. |  EIKEN CHEMICAL CO., LTD. |  Azbil Corporation |
|  Autoliv |  ARKRAY, Inc. |  TOKUMI Corporation |  Mitsubishi Electric Corporation |  Yumex |
|  NICERA |  BRIDGESTONE |  ZAMA |  Nippon Pulse Motor Co., Ltd. | |

※Transaction start order

Organization Chart



Improvement on day-by-day basis,
to aim for best quality in industry

1 Pursuance of Client Satisfaction

Improve the satisfaction of customers not only by Q.C.D,
but by understanding also the requirements of customers.

2 Improving the Quality

We will continue to set (train) the quality mind by operation of quality system,
and improvement of actual operations.

3 Challenging the New Technology

A challenge to the requirements of customers (market) including verification of the elemental
technology, and the technologies.



ISO9001
Registration Certificate -Japan-



ISO9001
Registration Certificate -Philippines-



ISO9001
Registration Certificate -Thailand-



IATF16949
Registration Certificate -Philippines-



IATF16949
Registration Certificate -Thailand-



ISO13485
Registration Certificate -Philippines-

We will inform all personnel about the consideration of environmental protection, and work hard to actively install the resource saving processes



Along with the evaluation of the environmental impact of our business (production of plastic molded products), we are always considering the environment and safety, and prevention of environmental pollution.

1 We will comply with all the laws and regulations.

We will be certain to abide by the laws and regulations regarding environment.

2 We will reduce the waste by managing the target.

We will reduce the waste products by establishing a company rule such as appropriate management of our production's waste materials.

3 We will enhance the awareness by environmental training.

We will inform all employees about the environmental policy, and enhance their knowledge and enlightenment through proper training.

4 We will provide environmental information.

We will provide most current information and perform immediate action, maintain communication with local communities whenever necessary.

5 We will disclose our environmental policy.

Our environmental policy is disclosed to public in our web site.



ISO14001
Registration Certificate -Philippines-



ISO14001
Registration Certificate -Thailand-

| Company Profile | | Products | Employment |
|--|--|--|--|
| <ul style="list-style-type: none">• Greetings• Company Profile• Corporate Ethics• Corporate Philosophy• Origin of Corporate Name• History | <ul style="list-style-type: none">• Production Base• Clients• Organization Chart• Engagement to Quality• Engagement to Environment | <ul style="list-style-type: none">• Car Audio• Car Navigation• Automotive Interior Trim• Medical Plastic• Others | <ul style="list-style-type: none">• Japan• Philippines• Thailand |
| Production | Equipment Outline | | |
| <ul style="list-style-type: none">• Development Flowchart• Production Flowchart | <ul style="list-style-type: none">• Philippines• Thailand• Equipment List | | |



Wide variety of production achievements

We are mainly producing plastic products for automobile industry and healthcare-related industry. We have established an integrated manufacturing system from designing and fabrication of molds, coating, printing, laser marking, assembly, and inspection. We will flexibly respond to the diversified demand of plastic products with 3D simulation and automated production line.

Car Audio

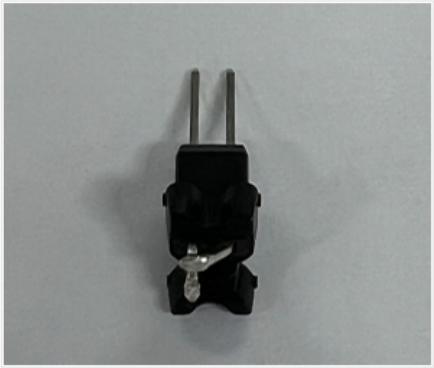
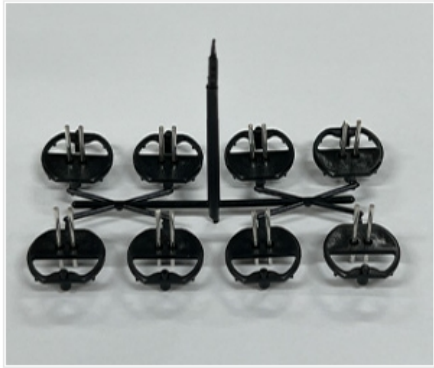


Car Navigation

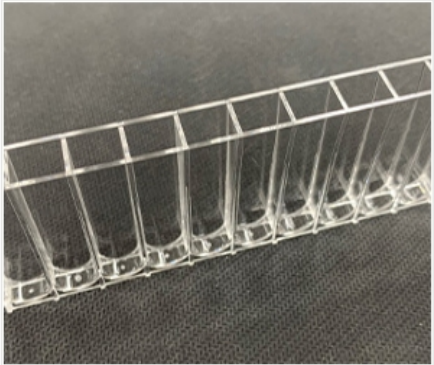


Automotive Interior Trim

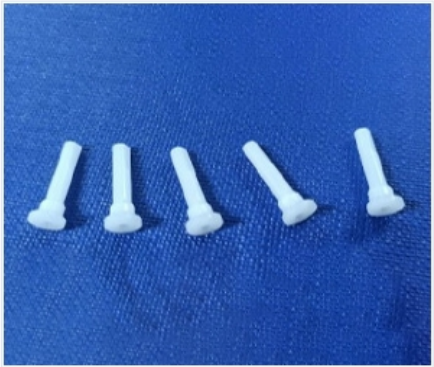
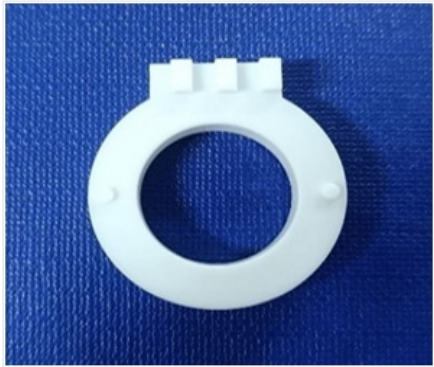





Medical Plastic



Others



| Company Profile | | Products | Employment |
|--|--|--|--|
| <ul style="list-style-type: none">• Greetings• Company Profile• Corporate Ethics• Corporate Philosophy• Origin of Corporate Name• History | <ul style="list-style-type: none">• Production Base• Clients• Organization Chart• Engagement to Quality• Engagement to Environment | <ul style="list-style-type: none">• Car Audio• Car Navigation• Automotive Interior Trim• Medical Plastic• Others | <ul style="list-style-type: none">• Japan• Philippines• Thailand |
| Production | Equipment Outline | | |
| <ul style="list-style-type: none">• Development Flowchart• Production Flowchart | <ul style="list-style-type: none">• Philippines• Thailand• Equipment List | | |



Production

Integrated production from development to mass production.

To better understand our integrated production, we have generated "Development Flowchart" and "Production Flowchart".

Production

Development Flowchart

1. Planning and Order Intake

Realize clients' needs truthfully

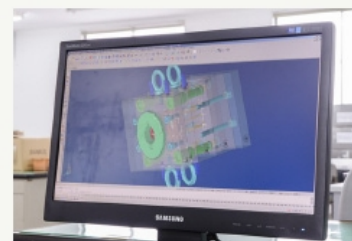
- **Pursue short turn around and high quality by "integrated production"**
High quality products are supplied in short turn around in both domestic and overseas bases.
- **Constructive proposals from the planning phase**
Specification and cost to fulfill clients' requirement will be proposed constructively by partnering with manufacturers on selection of materials used (molding materials, paints, etc.).
- **Prompt response on environmental research**
"Environmental load material research" for client will be performed promptly based on customer demand, such as JAMA, JAMP, IMDS.



2. Design and Production of Molds

Proposal of mold shape and structure considering the productivity

- **Communication with document by issuing "Mold, Product Specification" (Initial Management Chart)**
"Initial Management Chart" will be issued by understanding the shapes and design structure for each of the parts based on product drawings supplied from client.
"Initial Management Chart" will bring it close to the finished product image, making it possible to evaluate client satisfaction and productivity at this point.
- **Mold design satisfying client**
We will propose mold with high productivity by consideration the optimal gate position and type using the "3D CAD system" to come up with shape and size precision, and "flow analysis technique" that will establish the moldability.
- **Mold production with precision**
A mold with high productivity is realized with combination of precise processing data, precise machining, and precise parts.



3. Process Designing

Designing procedures based on "Production Preparation Plan"

- **Planning a schedule for "Production Preparation Plan"**

Integrate the setting of quality target and development schedule in accordance with the client's specification, and make the proposal.

- **Propose efficient production preparation plan**

Plan the procedure design in accordance with "Quality Plan" (operation procedure, inspection procedure, QC procedure chart, and inspection standards), and propose to the client. We also try to generate documents easy to understand for "production staff" to understand by utilizing drawings, symbols, and images.

- **Pursuance of high quality by "Process FMEA" achieved by production**

"Process FMEA" is "record of previous experiences" achieved from our experiences, allowing us to provide high quality products by preparing optimal tools derived from it.



4. Trial Production

Never-ending pursuit of specification required by client

- **Prediction, verification, and follow-up of test production procedures**

Problems are predicted beforehand using the flow analysis software, and by optimizing the gates, it will decrease the test production, resulting to cost reduction, but still pursuing high quality.

- **Preparation and verification necessary for mass production**

"Decision of mold specification" and "decision and preparation of product specification" will be performed to comply with client requirement, resolving the problems for each part, and prepare for the mass production.

- **Minimizing the cost**

Minimization of the cost is proposed by establishing optimal conditions for client requirement, by decreasing the defect and considering the productivity.



5. Quality Evaluation

Guarantee the precision of the product

- **Quality evaluation in each steps**

High quality test production and validation is created by evaluating the quality at the development phase based on the "QC Procedure Chart".

- **Detailed quality evaluation by machine**

Confirmation of dimension required by client is done to the point impossible by human eyes using automatic measuring devices and 3D measuring devices.

- **Reliability test required by the client**

To guarantee the test product quality, reliability test will be performed to confirm the required quality.



1. Molding

Realizing high-level quality, stable supply and diversification by full automation.

- **Compatible to molding various material**

All the molding equipment is compatible to various resins, such as SUS and glass fibers, by using wear and corrosion resistant cylinders and screws.

- **Quality management and pursuing production efficiency by the facility monitor system**

Stable production is made possible by utilizing functions such as "mold condition history" and "alarm analysis".

It has realized smooth production procedures by understanding the operation results.



2. Coating

Assuring good yield by thorough cleanness

- **Fully automated coating robot facility and peripherals**

Pursuing of high quality and laborsaving are promoted by maintaining cleanness with unmanned facilities such as coating robots, automatic insert, ejection conveyor, etc.

- **Sharing of teaching program data compatible to diversified designs**

Superior coating technique is established by sharing data over the network with overseas bases.

- **Global environment is considered too**

Amount of thinner purchased is reduced to one fourth by the thinner reprocessing device, and we have achieved zero disposal of thinner.



3. Printing

Technology compatible to complex forms such as curved surface

- **Production design pursuing for zero defect**

Printing methods and specification of the setting jigs are considered for each product, pursuing for zero defect by optimizing the process.

- **Speedy handling by internal management**

We can handle integrated processing of "molding" to "printing" by possessing our own "screen press" and "pad press".

Also by handling the production and maintenance of receiving jig for printing, we can handle the trial production and process enhancement immediately.

- **Maintenance of operational environment**

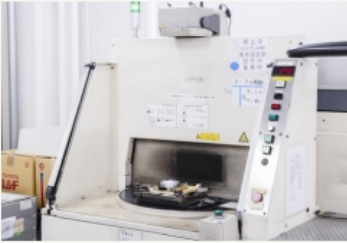
We are compatible to the parts requiring clean environment for solid printing by providing clean booth and anti-static devices.



4. Laser Marking

Precise processing enabling diversified designs

- **Creation of data compatible to diversification of characters and languages**
Data is shared with the overseas Production Base by the network, establishing superior marking process techniques.
- **Realization of appropriate marking using dedicated jigs**
Character position technique is established by designing the jigs in-house.



5. Assembling

Steady supply by fusion of human and machine

- **Flexible integrated production**
Manufacturing system capable of reducing the lead time, multiproduct and small lots is established by integrated manufacture.
- **Harmony and fusion of human and machine**
High quality products are provided by realizing steady and trusty "production" by fusing human and machine, which has its own role.
- **Traceability management of assembly parts**
It is possible for immediate traceability by strict lot management.



6. Inspection

Quality system pursuing zero defects

- **Feelings not allowing compromise**
Human feelings are utilized fully by the check items such as "feel", "see", or "hear" in the inspection based on "Inspection Procedures" and "Inspection Specification".
- **Feeling of trust by up-to-date image inspection equipment**
Reassurance and trust of client is provided by appropriate check system based on the facilities and system considering environment and safety.
- **Thorough inspector training**
Thorough training is performed based on actual defect samples.



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Employment

- Japan
- Philippines
- Thailand



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Contact in Thai : +66(0)38-185195

[✉ Contact](#) | [Privacy Policy](#)

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Philippines

Mold/Jig



| | | | |
|---------------------------------|---|----------------------------------|---|
| Electric discharge machine(EDM) | 1 | Drilling EDM | 1 |
| Wirecutting machine(EDW) | 1 | Micro machining machine | 1 |
| Laser welding machine | 1 | NC milling machine(Numerical) | 1 |
| Clipika ace ultrasonic machine | 2 | Manual milling machine | 2 |
| Chamfer Machine | 1 | Band saw machine | 2 |
| Fine cutting machine | 1 | Lathe machine | 3 |
| Sand blast machine | 1 | Drill press machine | 2 |
| Belt sander | 1 | Surface grinding machine(Manual) | 2 |
| Panel saw machine | 1 | 3D-CAM | 1 |
| Mold design | 1 | | |

Injection



Vertical type

| | | | |
|-----|---|----------|----|
| 5t | 5 | 14t | 3 |
| 20t | 2 | 40t | 1 |
| | | Subtotal | 11 |

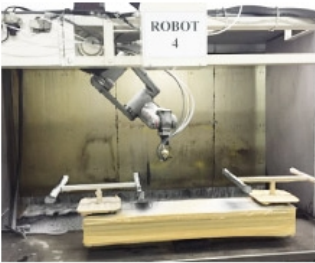
Horizontal type Single Injection

| | | | |
|------|----|----------|----|
| 15t | 5 | 30t | 1 |
| 40t | 1 | 50t | 6 |
| 100t | 11 | 150t | 10 |
| 300t | 2 | Subtotal | 36 |

Double injection

| | | | |
|------|---|----------|----|
| 120t | 6 | 130t | 5 |
| 140t | 1 | Subtotal | 12 |
| | | Total | 59 |

Coating



| | | | |
|----------------------------|---|-------------------------|---|
| Clean room | 3 | Automatic coating robot | 5 |
| Automatic supply equipment | 3 | Hotbath oven | 3 |

Printing



| | | | |
|----------------|---|-----------|---|
| Silkscreen | 3 | Pad print | 4 |
| Converyor oven | 1 | | |

Laser Marking



| | |
|--------------|---|
| Laser marker | 5 |
|--------------|---|

Inspection



| | | | |
|--------------------------------|----|------------------------|---|
| 3 dimensional measuring device | 8 | Toolmaker's microscope | 1 |
| Camera inspection machine | 10 | Colorimeter | 1 |
| Particle counter | 1 | | |

Other

| | |
|---------------------------------------|----|
| Hotbath oven (Injection) | 4 |
| Assembly inspection line | 7 |
| Grease machine | 2 |
| Low and High temperature hotbath oven | 1 |
| Ultra-violet curing machine | 1 |
| Terminal cutting machine | 3 |
| Stereomicroscope | 25 |

Thailand

Mold/Jig



| | | | |
|----------------------------------|---|--------------------------|---|
| Electric discharge machine(EDM) | 1 | Wirecutting machine(EDW) | 1 |
| Small hole drilling(EDM) | 1 | Laser welding machine | 1 |
| Clipika ace ultrasonic machine | 1 | Manual milling machine | 3 |
| Surface grinding machine(Manual) | 1 | Chamfer Machine | 1 |
| Band saw machine | 1 | Fine cutting machine | 1 |
| Cutting machine | 1 | Lathe machine | 1 |
| Engraving machine | 2 | Drill press machine | 3 |
| Sand blast machine | 1 | Grinder machine | 1 |
| Mill grind machine | 3 | Belt sander | 1 |
| 3D_CAD | 3 | 3D_CAM | 1 |
| Mold design | 2 | Mold flow | 1 |

Injection



| | | | |
|-----------|---|-------|----|
| 15t | 1 | 30t | 1 |
| 50t | 2 | 100t | 6 |
| 150t | 3 | 300t | 4 |
| Two-color | 3 | Total | 20 |

Coating



| | | | |
|----------------------------|---|-------------------------|---|
| Clean room | 1 | Automatic coating robot | 2 |
| Automatic supply equipment | 2 | Hotbath oven | 1 |

Printing



| | | | |
|------------|---|-----------|---|
| Silkscreen | 3 | Pad print | 7 |
|------------|---|-----------|---|

Hot stamp




| | |
|-----------|---|
| Hot stamp | 2 |
|-----------|---|

Laser Marking



| | |
|--------------|---|
| Laser marker | 2 |
|--------------|---|

Inspection



| | | | |
|--------------------------------|---|-------------------------|---|
| 3 dimensional measuring device | 3 | Came inspection machine | 4 |
| Colorimeter | 1 | Gloss meter | 1 |
| Particle counter | 1 | | |

Other

| | |
|---------------------------------------|---|
| Hotbath oven | 1 |
| Assembly inspection line | 4 |
| Grease machine | 1 |
| Low and High temperature hotbath oven | 1 |

| Equipment List | | | | |
|----------------------------------|-----|-----|------|------|
| MOLD / JIG FABRICATION EQUIPMENT | | | | |
| TOOLS AND EQUIPMENT | MPI | MCT | XDPI | XDMT |
| Machining center | - | - | 4 | 3 |
| Electric discharge machine(EDM) | 1 | 1 | 3 | 3 |
| Wirecutting machine(EDW) | 1 | 1 | 2 | 1 |
| High speed wirecutting machine | - | - | - | 1 |
| Small hole drilling(EDM) | - | - | 1 | 1 |
| Drilling EDM | 1 | - | - | - |
| Micro machining machine | 1 | - | - | - |
| Laser welding machine | 1 | 1 | 2 | 1 |
| Argon Arc Welding Machine | - | - | 2 | - |
| NC milling machine(Numerical) | 1 | - | 1 | - |
| Clipika ace ultrasonic machine | 2 | 1 | - | - |
| Manual milling machine | 2 | 3 | 2 | 1 |
| Surface grinding machine(Manual) | 2 | 1 | 5 | 2 |
| Surface grinding machine(Auto) | - | - | - | 1 |

| | | | | |
|-------------------------|---|---|---|---|
| Chamfer Machine | 1 | 1 | - | 1 |
| Band saw machine | 2 | 1 | 2 | 1 |
| Fine cutting machine | 1 | 1 | - | 1 |
| Cutting machine | - | 1 | - | 1 |
| Lathe machine | 3 | 1 | 1 | 1 |
| Engraving machine | - | 2 | - | 1 |
| Drill press machine | 2 | 3 | - | 1 |
| Drilling Radial Machine | - | - | 1 | - |
| Sand blast machine | 1 | 1 | 1 | 1 |
| Grinder machine | - | 1 | - | - |
| Laser marking machine | - | - | 1 | 1 |
| Mill grind machine | - | 3 | 1 | 1 |
| Tapping machine | - | - | 1 | 1 |
| Belt sander | 1 | 1 | - | 1 |
| Vertical cutting saw | 1 | - | - | - |
| 3D_CAD | - | 3 | 5 | 3 |
| 3D_CAM | 1 | 1 | 5 | 1 |
| Mold design | 1 | 2 | 7 | 1 |
| Mold flow | - | 1 | 1 | 1 |

INJECTION MACHINES

| | MAKER | MACHINE TONNAGE | MPI | MCT |
|----------------------------------|-----------|-----------------|-----|-----|
| Vertical type | MULTIPLAS | 5T | 5 | - |
| | MULTIPLAS | 14T | 3 | - |
| | NISSEI | 20T | 2 | - |
| | JSW | 40T | 1 | - |
| Horizontal type Single Injection | FANUC | 15T | 5 | 1 |
| | FANUC | 30T | 1 | 1 |
| | NISSEI | 40T | 1 | - |
| | FANUC | 50T | 6 | 2 |
| | FANUC | 100T | 11 | 6 |
| | FANUC | 150T | 10 | 3 |
| | FANUC | 300T | 2 | 4 |
| Double injection | NISSEI | 120T | 6 | 1 |
| | NISSEI | 140T | 1 | - |
| | SUMITOMO | 130T | 5 | 2 |
| Total | 5T~300T | | 59 | 20 |

SECONDARY PROCESS

COATING BOOTH(ROBOT)

| MACHINE TYPES | MPI | MCT |
|----------------------------|-----|-----|
| Clean room | 3 | 1 |
| Automatic coating robot | 5 | 2 |
| Automatic supply equipment | 3 | 2 |
| | | |

| | | |
|--------------|---|---|
| Hotbath oven | 3 | 1 |
|--------------|---|---|

PRINTING MACHINES

| MACHINE TYPES | MPI | MCT |
|----------------|-----|-----|
| Silkscreen | 3 | 3 |
| Pad print | 4 | 7 |
| Converyor oven | 1 | - |

HOT STAMP MACHINES

| MACHINE TYPES | MPI | MCT |
|---------------|-----|-----|
| Hot Stamp | - | 2 |

LASER / OTHERS

| MACHINE TYPES | MPI | MCT |
|---------------------------------------|-----|-----|
| Laser marker | 5 | 2 |
| 3 dimensional measuring device | 8 | 3 |
| Toolmaker's microscope | 1 | 0 |
| Camera inspection machine | 10 | 4 |
| Colorimeter | 1 | 1 |
| Gloss meter | - | 1 |
| Particle counter | 1 | 1 |
| Low and High temperature hotbath oven | 1 | 1 |
| Hotbath oven(Injection) | 4 | 1 |
| Assembly inspestion line | 7 | 4 |
| Grease machine | 2 | 1 |
| Ultra-violet curing machine | 1 | - |
| Terminal cutting machine | 3 | - |
| Stereomicroscope | 25 | - |

Company Profile

- Greetings
- Company Profile
- Corporate Ethics
- Corporate Philosophy
- Origin of Corporate Name
- History
- Production Base
- Clients
- Organization Chart
- Engagement to Quality
- Engagement to Environment

Production

- Development Flowchart
- Production Flowchart

Equipment Outline

- Philippines
- Thailand
- Equipment List

Products

- Car Audio
- Car Navigation
- Automotive Interior Trim
- Medical Plastic
- Others

Employment

- Japan
- Philippines
- Thailand



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