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

2024.04.08 Notice **GW休暇のお知らせ**

MCCLは2024年5月2日(木)より2024年5月6日(月)まで,
GW休暇とさせて頂きます。

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頂きます。

2023.10.24 Notice **生産スケジューラの導入に関して**

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/
生産計画の属人化解消を目的にAI×SaaS生産スケジューラ「最適ワークス」を、海外工場2拠点（タイ・フィリピン）へ導入
https://skydisc.jp/information/4100

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休暇とさせて頂きます。

たのしめてるか。
Bellmare

ジェグテック
J-GoodTech
中小製造業と大手企業を結ぶマッチングサイト

iPROS 製造業

Hotfrog

NC network

がんばれ製造業！

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

NC network
がんばれ製造業！ CCNET
Fact-Link JAPAN-THAILAND INDUSTRIAL DIRECTORY
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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- Thailand

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- Production Flowchart

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- Thailand
- Equipment List

Mitsuwa Chemical Co.,Ltd.
Contact in Japanese : +81(0)463-22-5286
Contact in English : +63(0)46-437-2216
Contact in Thai : +66(0)38-185195

Contact | Privacy Policy

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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.

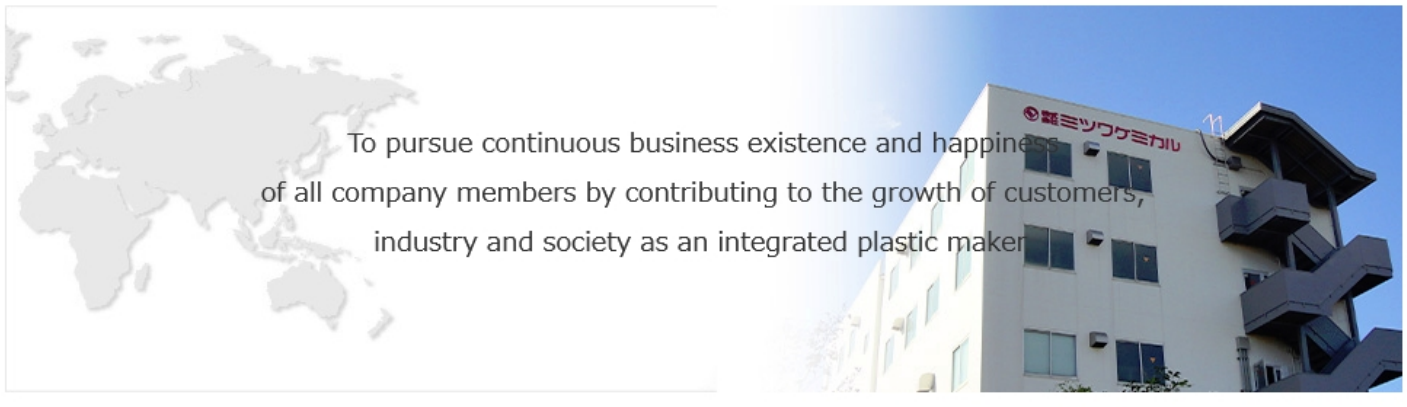
Mitsuwa Chemical Co.,Ltd.
Representative Director, President
Zen Jimbo

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 : 2,208.12m²、Building : 1,302.67m²、Floor Area : 4,416.00m²
Fiscal Term	March
Quality Standards	ISO9001:2015/JIS Q9001:2015 CERTIFICATE 710902
Employee	11 (Including Part Timer、Temporary Worker) (As of April 1, 2024)
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

Google map

Corporate Ethics



Corporate Philosophy

1 Business is Person

Ultimately, all results Its depend on the individual.

2 Always Step Forward

You will lose if you do not give up. Animus to complete no matter what, will bring the growth.

3 Challenge to Change

Holding status quo is the beginning of decline. The best way to defend is to attack.

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 Sengokukashi 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 (9,684.33 m²)

2016. Acguired 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. Acguired partial capital share of Xudong Mold (Thailand) Co.,Ltd. (XDMT)

2022. Acguired partial business of PTON Corporation

Production Base

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

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

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

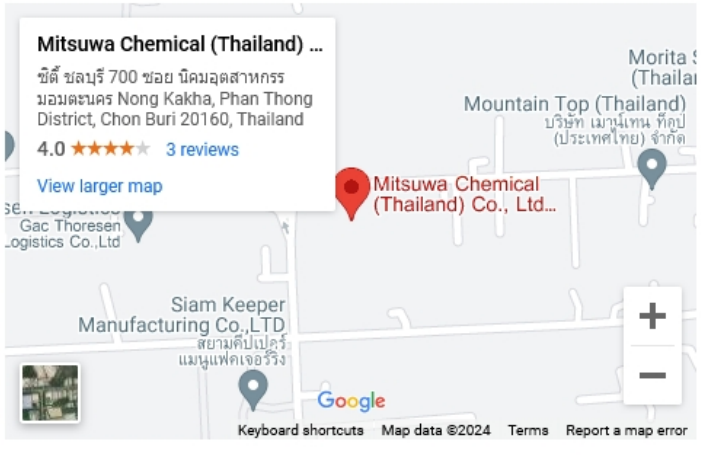
Philippines

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 : 15,045.50m²、Building ：8,874.93m²、Floor Area : 9,684.33m²
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	459 (Including Temporary Worker) (As of April 1, 2024)
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 : 16,996m²、Building : 3,251.60 m²、Floor Area : 4,226.20 m²
Fiscal Term	March
Quality Standards	ISO9001:2015 CERTIFICATE FM66181 IATF16949:2016 CERTIFICATE 660182 IATF Number 0333527
Environmental Standards	ISO14001:2015 CERTIFICATE EMS659260
Employee	194 (Including Temporary Worker) (As of April 1, 2024)
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.

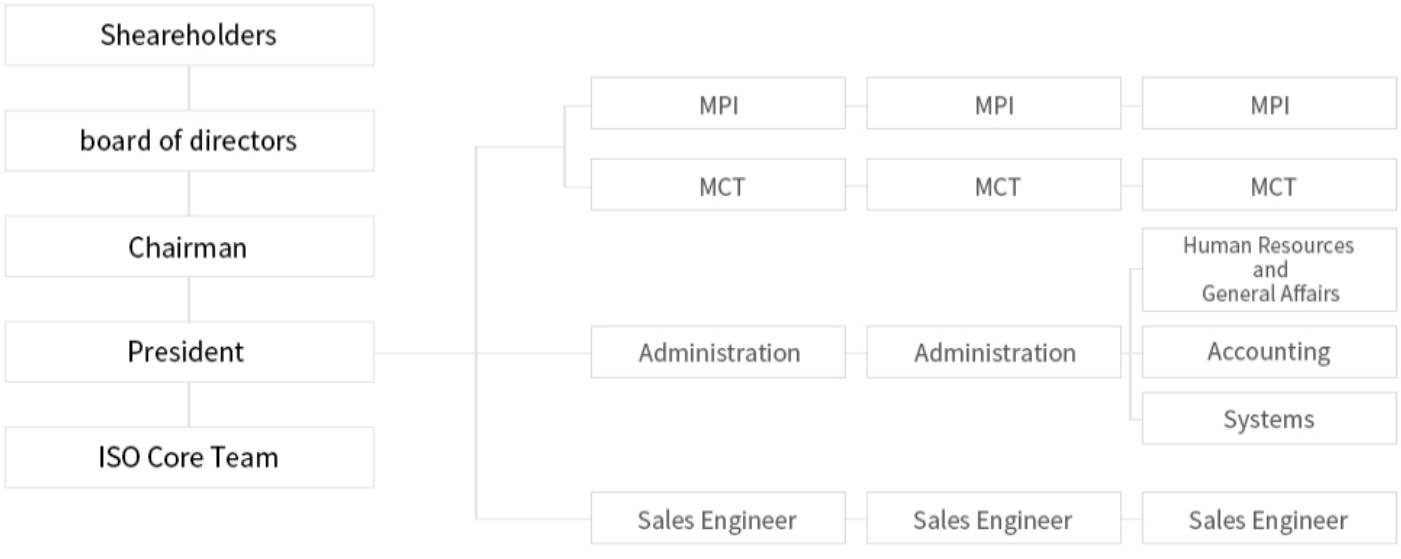
Xudong Mold (Thailand), Co.Ltd.

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



Engagement to Quality

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-

Engagement to Environment

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-

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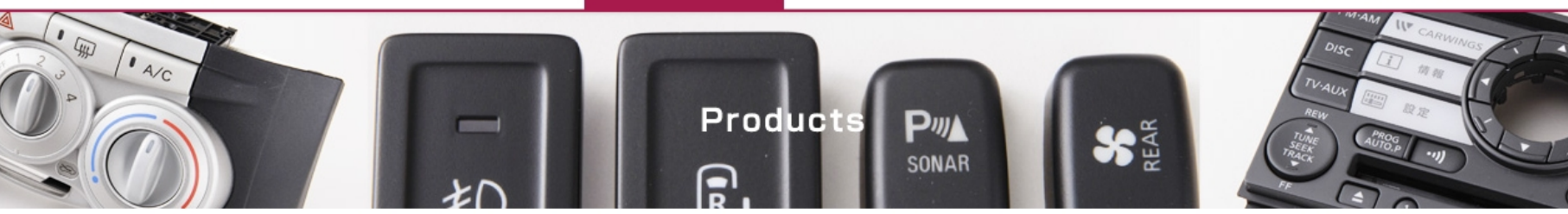


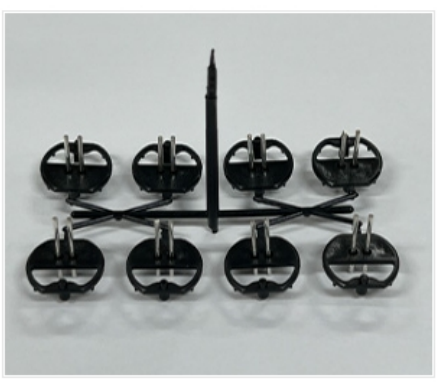
Wide variety of production achievements

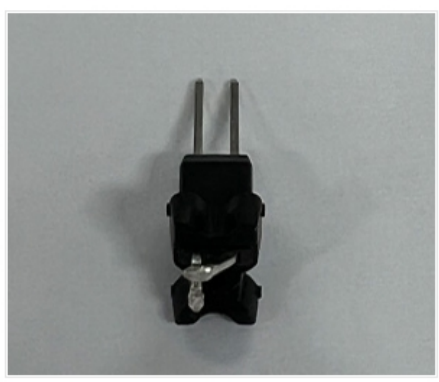
We are mainly producing plastic products for automobile industry and healthcare-related industry. We have established an integrated manufacturing system from designing and fabrication of molds, coating, printing, laser marking, assembly, and inspection. We will flexibly respond to the diversified demand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

Car Audio

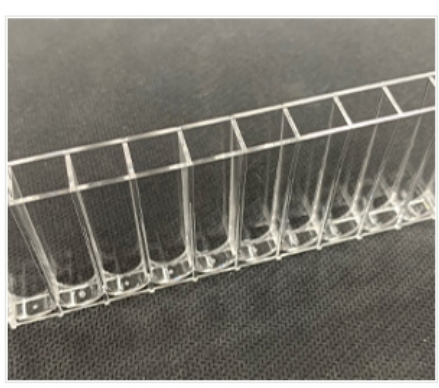
Car Navigation

Automotive Interior Trim

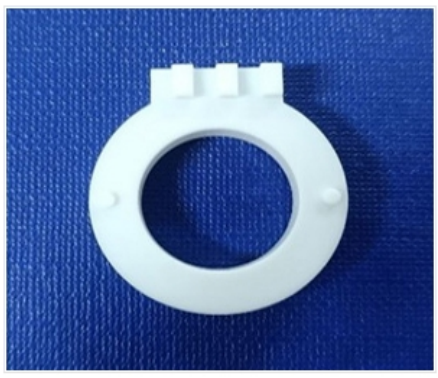


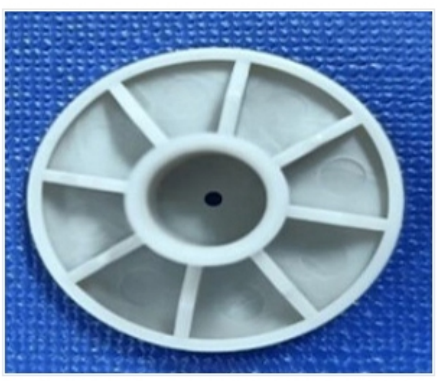


Medical Plastic



Others





Mitsuwa Chemical Co.,Ltd.
MCCL
Contact in Japanese : +81(0)463-22-5286
Contact in English : +63(0)46-437-2216
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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

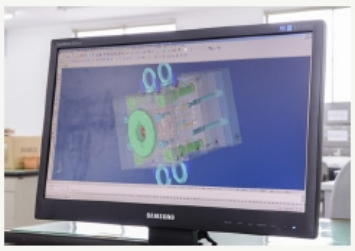
- **Pursue short turn around and high quality by "integrated production"**
  High quality products are supplied in short turn around in both domestic and overseas bases.

- **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.

Mitsuwa Chemical Co.,Ltd.

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Equipment Outline

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

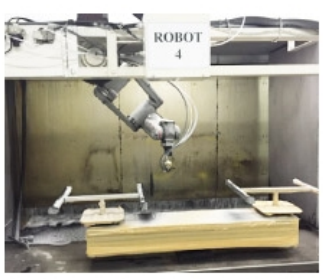
15t	5	30t	1
40t	1	50t	6
100t	11	150t	10
300t	2	Subtotal	36

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	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 microsope	-	-
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	-

Mitsuwa Chemical Co.,Ltd.

Contact in Japanese : +81(0)463-22-5286
Contact in English : +63(0)46-437-2216
Contact in Thai : +66(0)38-185195

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