35th Anniversary Thai Mitsuwa ~Over the Centuries~

Welcome to Mitsuwa Group in Thailand







- Corporate Profile -

As of April 30, 2024

Topics

- 1. Corporate Profile
- 2. Production Line
- 3. Corporate Social Responsibility(CSR)



Paid Capital

History of Mitsuwa

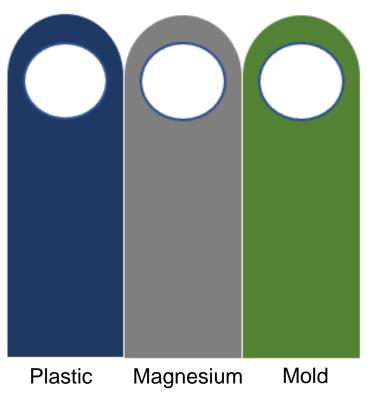
We, Mitsuwa, our business was founded in Osaka, Japan in 1959. We currently operate four factories in Japan and Thailand, with Mitsuwa Electric Industry being the main shareholder of Thai Mitsuwa.



- Employees : Consolidated 2,261 (Pathumthani 1,169, Korat 1,819)
- Stock Market : The Stock Exchange of Thailand (code: TMW), Oct, 2003 Listed on mai



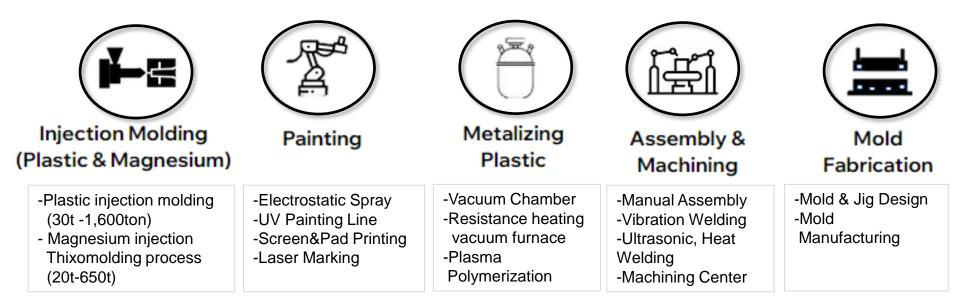
<u>Thai Mitsuwa</u> <u>Three Core Pillars</u>



At Thai Mitsuwa, we operate three core businesses: Plastic, Magnesium, and Mold, forming the foundation of our operations.









Plastic Injection Product Line



Ling <u>Injection Molding Production Line</u>



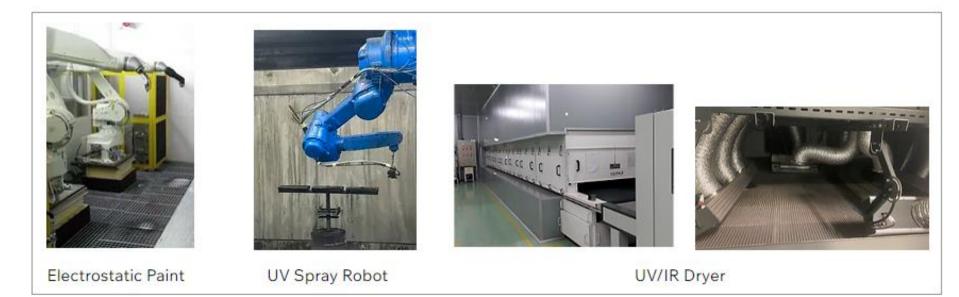
Normal Inj	Qty	
30t	3	850
50-150t	39	130
160-250t	26	160
300-360t	10	
450-460t	16	
650-660t	3	

	850t	3
	1300t	2
	1600t	1
1		

<u>2k lnj</u>	Qty
120-140t (2k)	8
Heat & Cool Inj	Qty
130-280t (H&C)	3
450t (H&C)	9
650-660t (H&C)	5
850t (H&C)	1



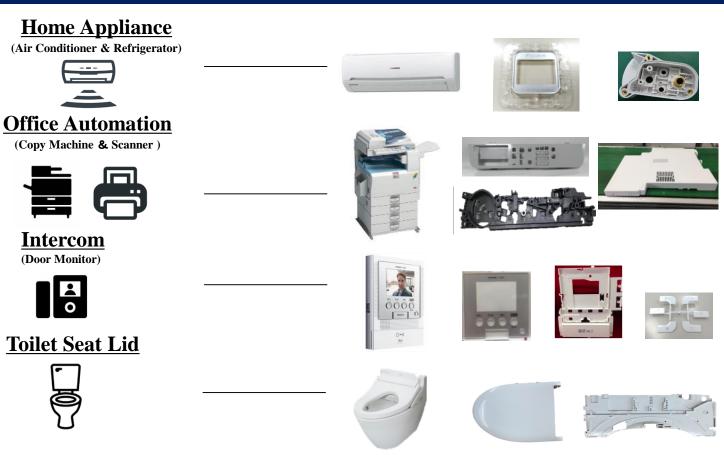




At our company, we offer a range of painting solutions, from manual to robotic, backed by numerous facilities and sufficient production capacity. We are your trusted partner for all your painting requirements.

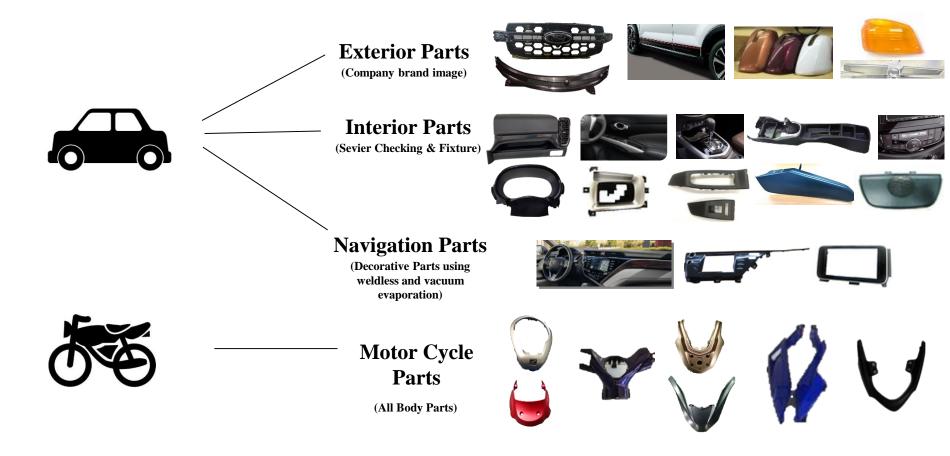


Plastic Business (Electric Appliances)



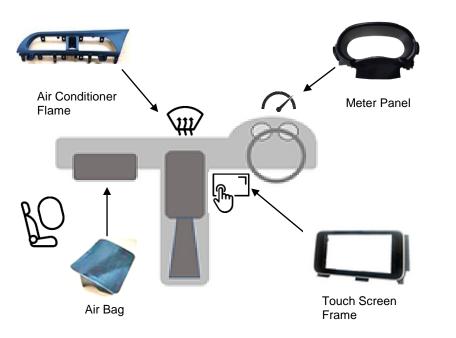


Plastic Business (Automotive Parts)





Plastic Business (Cockpit Module Sub-Parts Assembling Line)

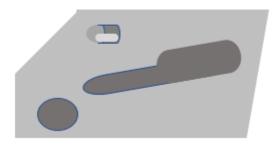








Plastic Business (Door Trim Parts)





Assembling



















Plastic Business (Exterior Parts)



























Plastic Business (Bottom and Exhaust Parts)





Secondly Processing Line

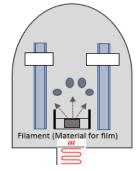


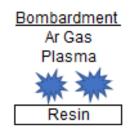




Metalizing Plastic -Resistance heating-based -Plasma Polymerization







SiOx (Top)

Al SiOx (Under)

Resin

Plasma Polymerization











PET Film or PC Color Coating (Collaboration with Vacuum Evaporation by AI, In, etc)







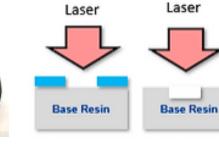
Laser Marking -Resistance heating-based -Plasma Polymerization











Paint peeling

ng Surface layer peeling





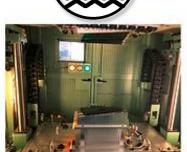






Vibration Welding











Automatic Heat Welding and Pokayoke





Manual Assembling



Box G-Box Assy







Plastic Business (Inspection Tool and Equipment)

Inspection: Tool, CF Jig & Pokayoke







CMM

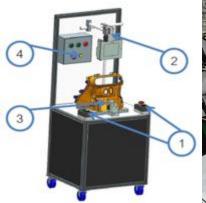
Micro Scope



Position Checker



UV illuminance Meter











Magnesium Injection Product Line





Injection Molding Production Line (





STR. 17 Str. The Contraction 2nd Korat Magnesium Factory



MG Injection (280t~650t)

Machine Size	Qty	Location
MG Injection Machine 650t	1Set	Japan Factory
MG Injection Machine 280t	15Set	JPN Factory 6Set • THI Factory 9Set
Machining Center	221Set	JPN Factory 31Set • THI Factory 190Set







Home Appliance Reflex Camera etc...)











Camera Frame (360 Spherical Camera)







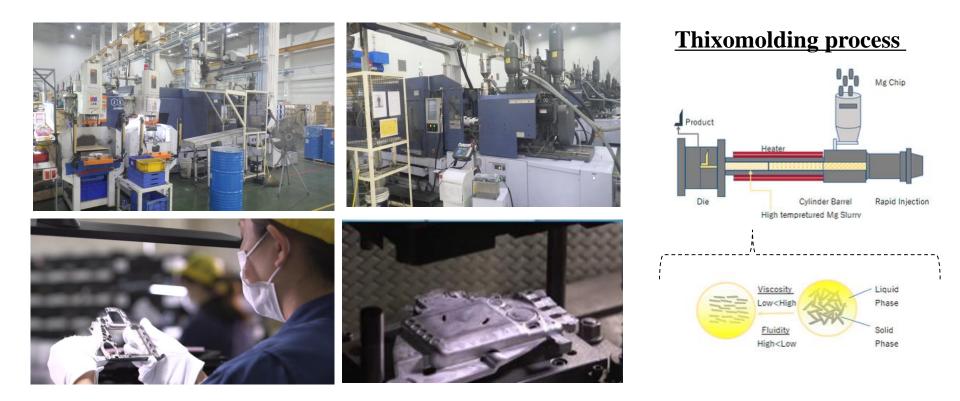




(Head Up Display Frame)



Mitsuwa is one of the leading suppliers of magnesium injection parts and has been operating the Thixomolding process in Japan and Thailand since 1998. We manufacture various mass-produced items and prototypes for electronic and automotive parts.



Magnesium chips are fed into a heated barrel (approximately 560 to 630 degree) for creating a thixotropic slurry. The slurry is injected into a preheated mold without touching the atmosphere.



Advantage of using Magnesium

	Lighter	Weight reduction of the current using metal products.	Only two-thirds the weight of aluminum and one-quarter the weight of iron.
R.J.	Superior strength	Engine Cover and Safety Sheet Products.	Specific strength is higher than aluminum, and making thiner design without reducing the strength as well as resin product.
-> 》)	<u>Absorb vibrations</u>	Wheel, steering, speaker vibration and noise absorption Insulator.	Advantage of adsorb vibration and dent impact compare with iron. Good machinability and excelent design creativity.
<u></u>	High heat radiation	Electrical equipment housing and parts.	Good thermal transmission ratio of 150W/mk and efficiently radiate heat generated inside equipment into the outside.
X	Electromagnetic shielding	Counter measures against electromagnetic interference in next- generation automobiles	High-speed and highly reliable network is required due to the increase in the amount of control system data.

Magnesium thixomolding can create products that are lighter, stronger, and have high heat radiation and electromagnetic shielding capabilities. These unique characteristics make it an excellent material for current metal parts used in automotive products.









Robot Drill







Consolidated Employee 1,819 in Korat



Thixomolding Injection M/C 280t - 650t in Korat and Japan



Touch up for Paint Masking

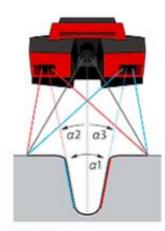


Mg Paint Line



Magnesium Business (Advanced Inspection Tool)

TMW can conduct variety of inspections to ensure conformity of product specification and quality.





ATOS Industrial Non-Contact 3D Scanners (Scanning phase shift & plate thickness)



Position Logo Checker with using Camera and digital censor



CMM





Mold & Jig Fabrication



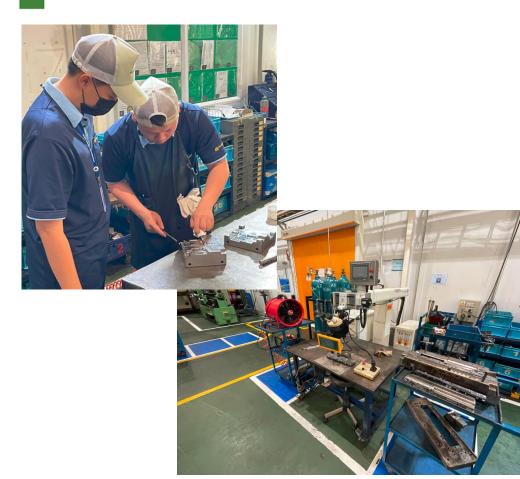




Mold & Jig Fabrication (Injection Molding, Check and Fixture Jig, Assembling Jig)

Mold Fabrication and Maintenance





MACHINE		SETS
1. WIRT CUT MACHINE		
SP43	MAKINO	1
2. MACHINING CENTER		
V33	MAKINO	1
V33I	MAKINO	1
F3	MAKINO	1
MCV-560	окк	1
KE-55	MAKINO	1
3. EDM MACHINE		
AQ35L	SODICK	1
AG60L	SODICK	1
4. RADIAL DRILLIN		
NSR-1260D	NAMSUN	1
5. LATHE MACHINE		
NARA4311	NAMSUN	1
6. MILLING MACHINE		
NSM-4	NAMSUN	1
7. PRECISION SURFACE GRINDIN		
ACC-350	ΟΚΑΜΟΤΟ	1
63ST	ΟΚΑΜΟΤΟ	1
ACC105DX	ΟΚΑΜΟΤΟ	1
8. ARGON MACHINE		
SW9800	SANWA	1
9. LASER WELDING MACHINE		
SWA150	SISMA	1
CAD/CAM UNIGRAPHICS	5	
MICROSCOP MITUTOYO		1
TOTAL		22





Mold & Jig Fabrication (Injection Molding, Check and Fixture Jig, Assembling Jig)

Mold Fabrication and Maintenance











EDM

Wire Cut

R

CMC



Corporate Social Responsibility(CSR)











A certified green label (Green Label) study and analysis of product life cycle (LCI-LCA) to reduce pollution and reduce greenhouse gas emissions. With the aim of reducing CO2 emissions, TMW has installed solar panels and storage batteries on the rooftops of the office and factories in 2018.





Corporate Social Responsibility(CSR)

Community Engagement and CSR Initiatives



At Thai Mitsuwa, we're dedicated to giving back. Our CSR program focuses on two core projects: supporting local schools with essential stationery supplies and providing everyday essentials to nearby temples. These initiatives create a positive impact on education and community well-being. Through these efforts, we aim to foster a sense of belonging and mutual support. These projects represent a snapshot of our ongoing commitment to being a responsible corporate citizen.

A THAI MITSUWA PUBLIC CO.,LTD

CORPORATE PHILOSOPHY

Corporate Philosophy We manage our operations by:

Aiming at capital accumulation, and sound management with proper pride.

Taking care not to cause any inconvenience to others with our operations, and aiming for mutual prosperity.

Keeping harmony in mind with each other in management.

Thank you...