



Mektec Precision Component (Thailand) Ltd.



Location



Mektec Precision Component (Thailand) Ltd.

**189, 198, 296 Moo 16, Bangpa-in
Industrial Estate, Udomsorayuth Rd.,
T. Bangkrasan, A. Bangpa-in,
Ayutthaya 13160 Thailand**

Tel: +66 3525 8666

Fax: +66 3526 0000

Website: www.mpct.mektec.co.th

Global Company



NOK

- Est. : 1939
- Capital : US\$233M
- Oil seal for automotive industry



Oil Seal O-Ring, Gasket




Eagle Industry

- Est.:1964
- Capital:\$105M
- Metal Seal




MEKTEC CORPORATION

- Est.:1969
- Capital:\$50M
- FPC, FPCA
- Precision Component




NOK Klueber

- Est.:1976
- Capital:\$1M
- Lubricant




Unimatec

- Est.:2002
- Capital:\$4M
- Poly Urethane
- Rubber Material



Synz Tech

- Est.:2007
- Capital:\$4M
- Rubber for Office
- Industrial Equipment



Mektec Thailand

**Mektec Manufacturing
Corporation (Thailand) Ltd.**



MMCT

FPC All Process

**Mektec Precision Component
(Thailand) Ltd.**



MPCT

Precision Component(PC)

Company Profile



Established March 27th, 2001
Start Operation April 1st, 2002
Registered Capital 360 Million Baht
Share Holder Mektec Corporation 100%

BPI Land Area Land : 46,400 m²(29.0 Rai)
- MPCT1 Production Area : 5,000 m²
- MPCT2 Production Area : 8,700 m²
- MPCT3 Production Area : 5,000 m²

Clean Room Class 100K up to 100

Employee Status 517 persons (as at November 2024)
Outsource Worker 119 persons

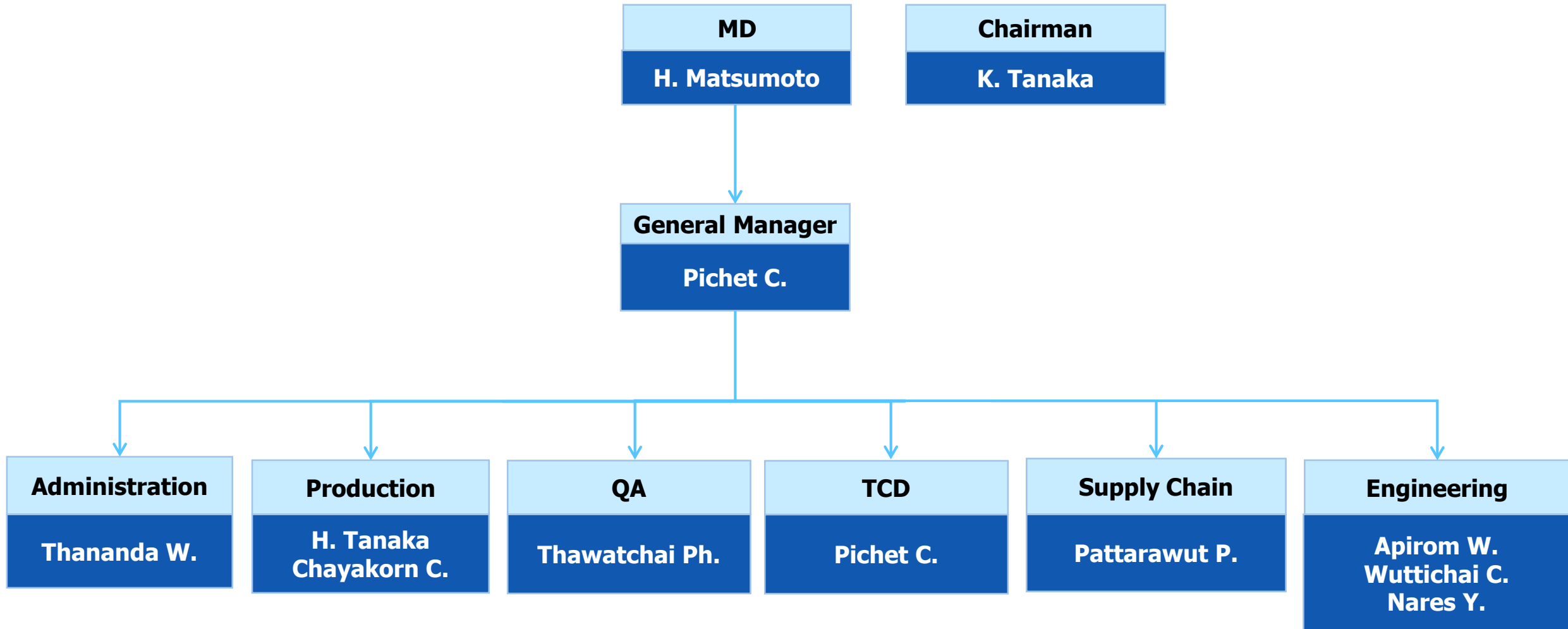
Main Product Plastics Molding Parts for Hard Disk Drive,
Electronic Precision Part
FPC Assembly with Gasket Rubber Dustproof, Waterproof

BOI Privilege Management Since November 21st, 2001
Mr. Kunio Tanaka (Chair man) Japan
Mr. Takashi Sato (Director) Singapore
Mr. Hiroki Matsumoto (Managing Director)



Organization

(As of 1 November 2024)



Manufacturing Capability

HDD



Storage Device

Mobile/Other

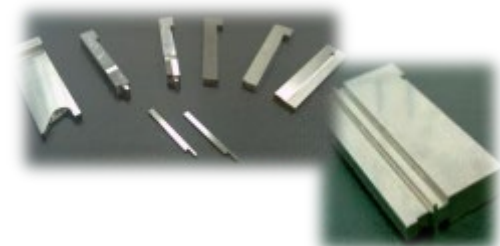


Waterproof / Dustproof for Component in Electronics Device

Mold Fabrication



04/02/2018



Automotive

Waterproof / Dustproof Device



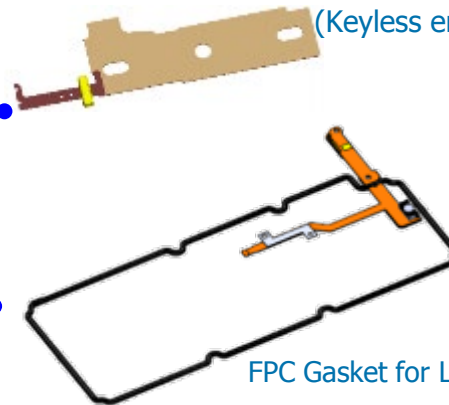
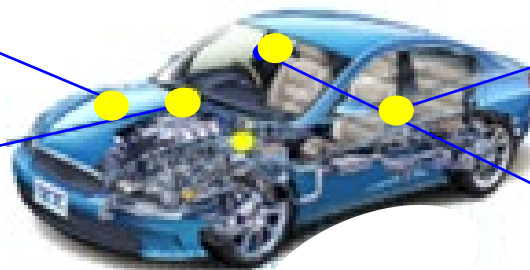
Powertrain



Plastic Stiffener

FPC

Pressure Sensor FPC Module



NFC door antenna (Keyless entry)

FPC Gasket for LiDAR

HDD Components

Spoiler

- Thin fin area
- Precise dimension
- Complicated design
- Material : PEI, PC



Stopper



Latch



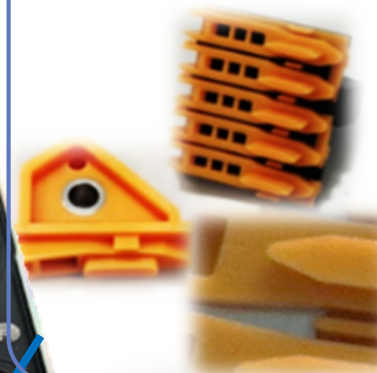
Gasket

- High performance seal by gasket lip design
- Low out-gassing material, not bad influence to the disk media
- Material : NOK TPE, EPDM



Ramp

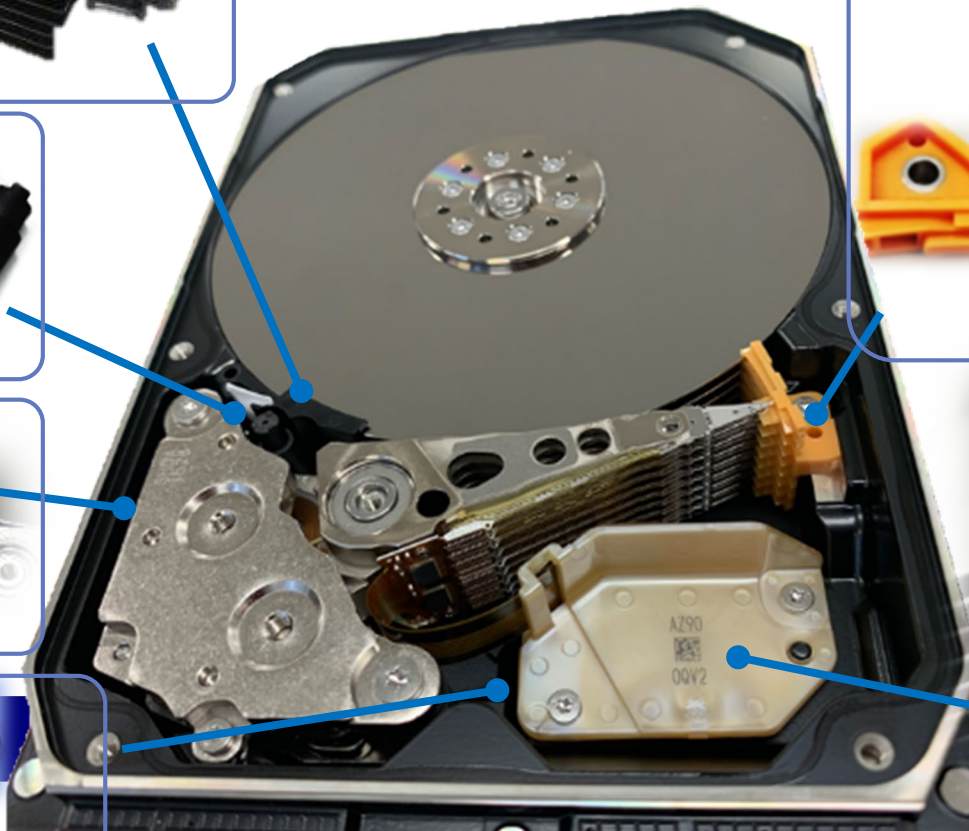
- Good anti-wear performance and can keep initial condition
- High performance for abrasion resistance property and realized low dust



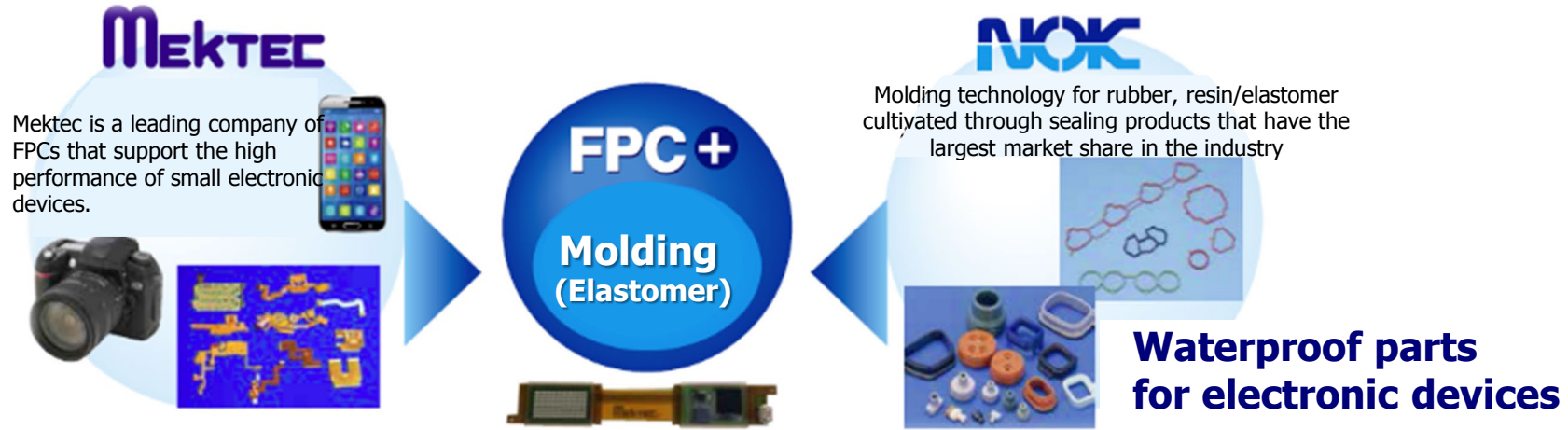
- Precision injection molding mold
- Metal plate insert
- 2 color material
- Material : NOK POM

Bracket

- Can Apply Laser Marking
- Precise dimension
- Complicated design
- Material : PEI, PC



Rubber Integrated with FPCA



Features

- Create added value by integrating rubber, resin/elastomer and FPC
- Keep reliable sealing for FPC
- Utilizing molding know-how cultivated through products for small devices

Application Examples

Rubber/Elastomer seal

Covering protection (Simultaneous molding with sealing part)

Rubber Molded IC Tag

FPC antenna with Rubber Molded Gasket

Thermistor Thermally Conductive Rubber Molded FPC

Plastics Connector Rubber Molded Gasket

Automotive Components

Features

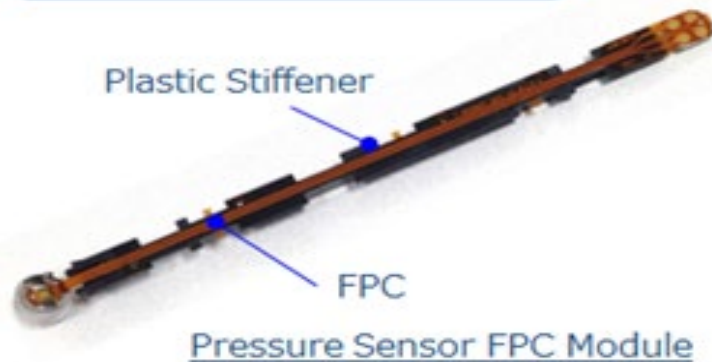
- Guide for FPC setting, Stiffener
- Stick with FPC by applying adhesive

Application

- For Sensor, For Gearbox



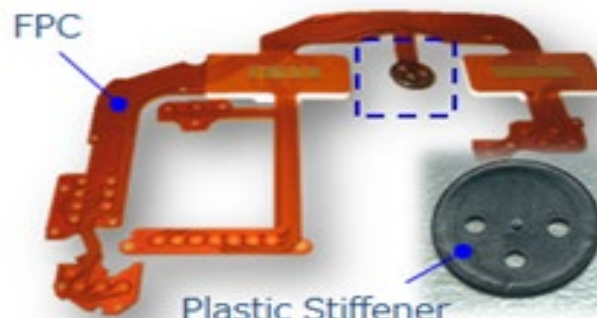
Sensor



Pressure Sensor FPC Module

[Material] : PPA+GF
[Characteristics]
Stiffness under high temperature

Gear Box



Gear Box FPC Module

[Material] : PA+GF
[Characteristics]
Stiffness under high temperature

Equipment



Keyless Entry

[Material] : TPU
[Characteristics]:
Water proof/ Dust proof



Cover module assembly

[Material] : PA+GF
[Characteristics]:
Water proof/ Dust proof

Capability and Technology Roadmap

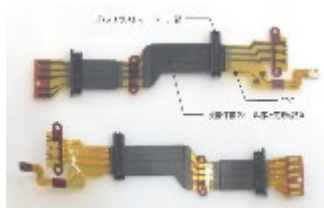


2020 → 2024

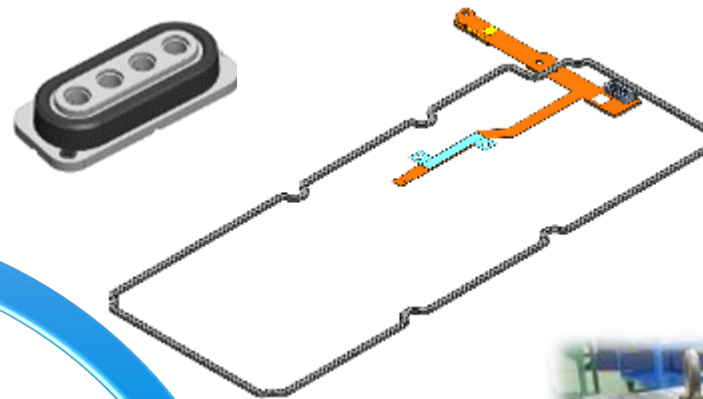
2025

	Category	Capability	Machine/Equipment	Expansion
Plastics Molding	<ul style="list-style-type: none"> 1 material 2 material Metal insert 	250 x 280 x 13 mm. 20 x 60 x 12 mm. 20 x 60 x 22 mm.	<ul style="list-style-type: none"> 7-220 tons 60,140 tons 18,20 tons 	Higher machine large size. --350tons
Rubber Molding Rubber Over Molding	<ul style="list-style-type: none"> LIM Rubber EPDM(Ethylene propylene diene monomer) 	280 x 460 x 15 mm. 260 x 100 x 5 mm.	<ul style="list-style-type: none"> 100 tons 150 tons 	With Module assembly complete set
Design/ Fabrication	<ul style="list-style-type: none"> Product/Process Design Mold Design Mold Fabrication 		<ul style="list-style-type: none"> Uni-graphic NX Solidwork2023 Mold flow analysis 	
AOI Inspection	<ul style="list-style-type: none"> Accuracy Speed Pixel 	<ul style="list-style-type: none"> 30 Micron 1.5 second 5.0 M pixel 	<ul style="list-style-type: none"> Basler 	<ul style="list-style-type: none"> 15 Micron 1.5 second 20 M pixel
Module Assembly	<ul style="list-style-type: none"> Plastics attached PSA for Auto Pickup Assembly M/C 	<ul style="list-style-type: none"> Accuracy\pm0.1mm. Pitch 16 mm. 	<ul style="list-style-type: none"> Customize machine 	

Category



Rubber Molding

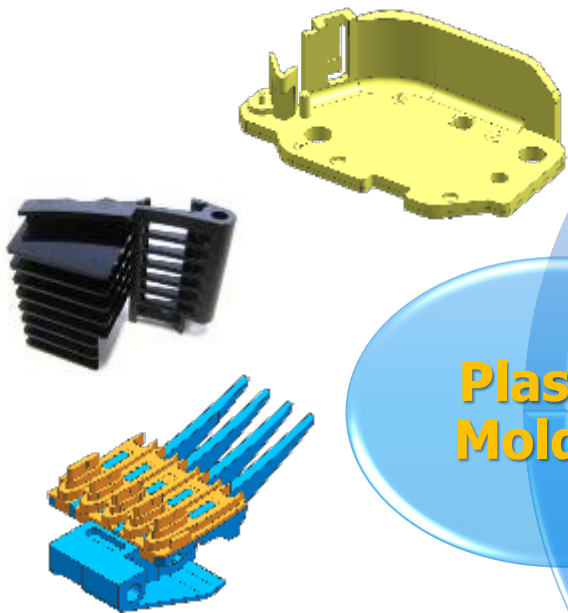


Mold / Tooling fabricate

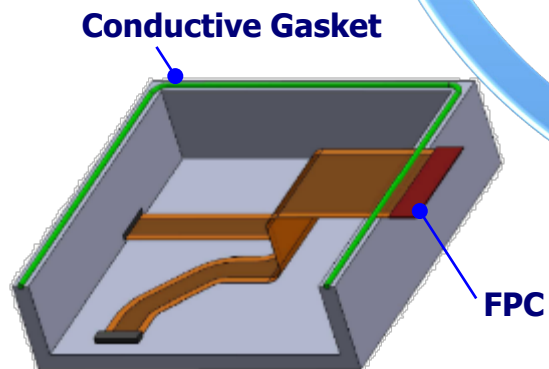


MPCT

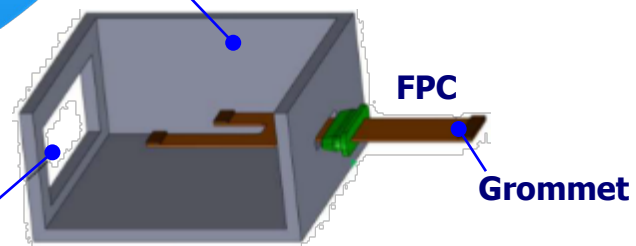
Plastics Molding



Module Assembly



Camera, Sensor, etc.



Production in Clean Environment

We can provide suitable environmental area to meet the needs

*Clean room
Class 100K ~ 100*

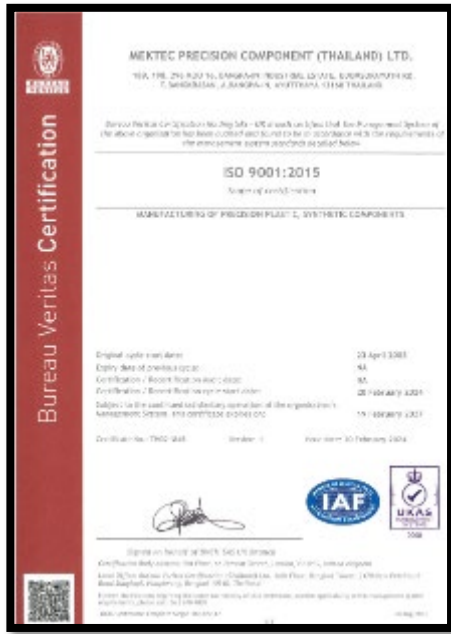


We can evaluate product cleanliness by ourselves

*In-house LAB
(LPC, IC, Out-gassing)*



Certified Standard



ISO 9001:2015



IATF 16949:2016



ISO 14001:2015



ISO 45001:2018




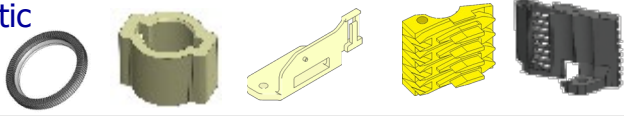

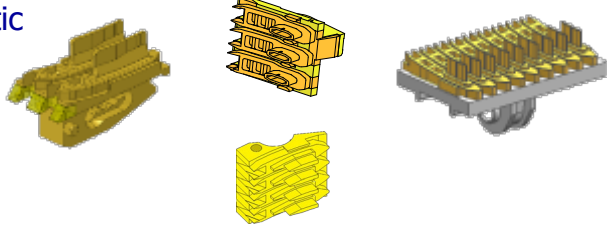



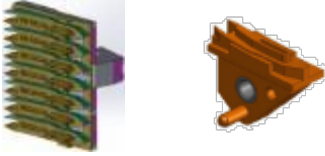



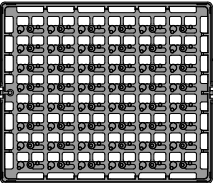

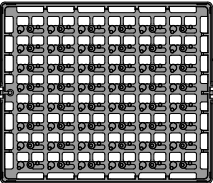
ISO 22301:2019




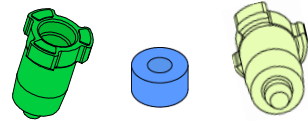

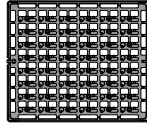

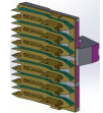



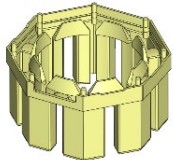

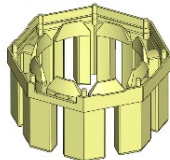
RBA Certificate [PLATINUM]

CONFIDENTIAL

Machine Capacity


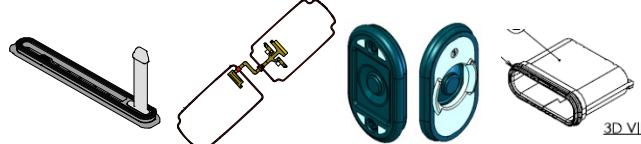

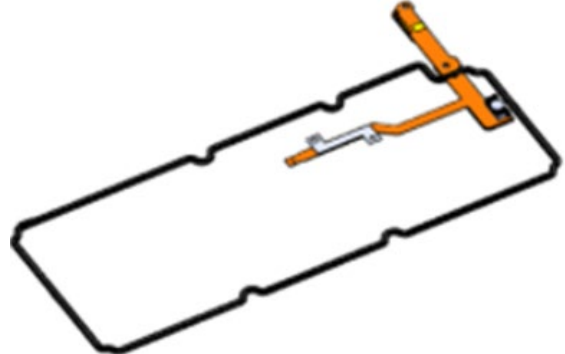
Maker	Type	Unit	Capacity	Application
NISSEI 日精 7~180ton	NEX-50/500 	18	1.4 MShot/Month (refer CT 25 s / 24 H / 25 D / 90%)	1Material Plastic 
	DC60 2color Injection 	14	1.1 MShot/Month (refer CT 25 s / 24 H / 25 D / 90%)	2Material Plastic 
	DCE140 2color Injection 	1	78 KShot/Month (refer CT 25 s / 24 H / 25 D / 90%)	
	ST20 Vertical Injection TNS30 Vertical 	8 2	520 KShot/Month (refer CT 30 s / 24 H / 25 D / 90%)	Metal Insert Plastic Small Size Plastic 
	NP7 	4	520 KShot/Month (refer CT 15 s / 24 H / 25 D / 90%)	
	NEX-80 	3	233 KShot/Month (refer CT 25 s / 24 H / 25 D / 90%)	1Material Plastic with metal insert 
	FNX180/ 220 	2	49 KShot/Month (refer CT 40 s / 24 H / 25 D / 90%)	Tray , Big size plastic 

Machine Capacity

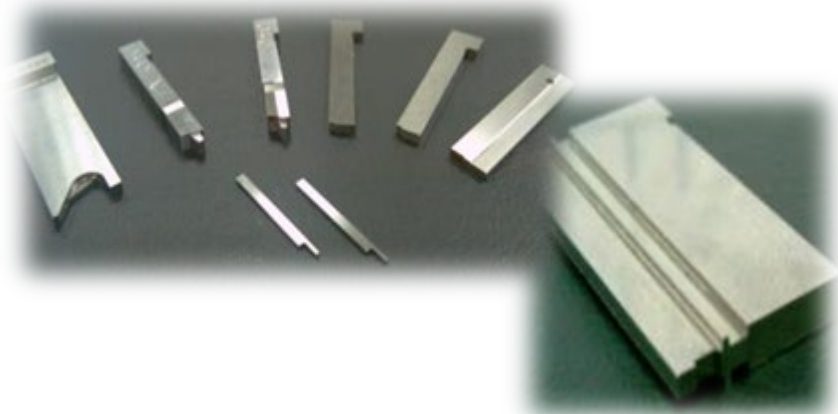
Maker	Type	Unit	Capacity	Application
TOYO 東洋 50ton	SI50 	15	1.1 MShot/Month (refer CT 25 s / 24 H / 25 D / 90%)	Stopper, Plastic 
SUMITOMO 住友 18-180ton	180t High Speed 	1	49 KShot/Month (refer CT 40 s / 24 H / 25 D / 90%)	Tray, Big size plastic 
	SV18M Vertical Injection 	19	1.4 MShot/Month (refer CT 27 s / 24 H / 25 D / 90%)	Metal Insert Plastic 
	SE30 2 color Injection 	2	155 KShot/Month (refer CT 25 s / 24 H / 25 D / 90%)	2Material Plastic 
	SE18 	1	194 KShot/Month (refer CT 10 s / 24 H / 25 D / 90%)	Plastic 
Sodick	LD30 	1	195 KShot/Month (refer CT 10 s / 24 H / 25 D / 90%)	Plastic 

Machine Capacity



Maker	Type	Unit	Capacity	Application
MATSUDA 松田 100ton	LIM Injection 	11	178 KShot/Month (refer CT 120 s / 24 H / 25 D / 90%)	Rubber , Metal insert , Plastic insert 
SIM	SIM150 	2	8 KShot/Month (refer CT 234 s / 24 H / 25 D / 90%)	Molding with FPCG. 

Mold / Tooling Fabrication



Mold / Tooling Fabrication

Process Capability

Milling

▮ Support all roughing / sizing to expedite finishing process

Grinding

▮ Able to produce insert with complex profile

Able to achieve +/- 1 micron accuracy

CAM

▮ CAM Programming are supported with Unigraphics (2) and Camtool (2)

CNC

▮ Able high speed machining with good surface finishing on both electrode and steel
(Max spindle is 40,000 rpm) , Able to achieve accuracy of between 5 ~ 8 micron

EDM

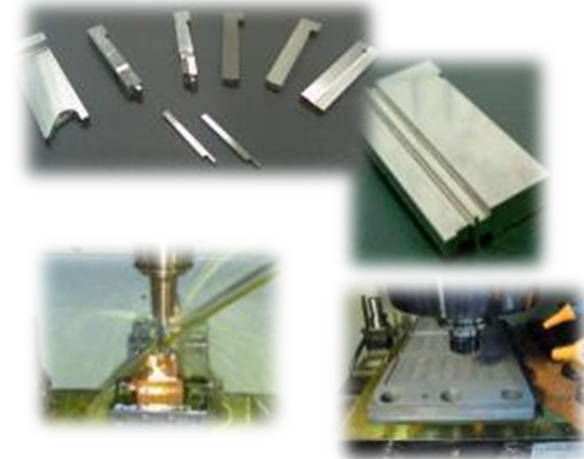
▮ Able to achieve sparking accuracy of **+/- 3 micron**

Able to achieve EDM "R" of **< R0.03**

Able to achieve surface roughness s of **RA < 1 micron**

WEDM

▮ Support all complex 2D and 2.5D profile cutting with accuracy of **+/- 3 micron**



Mold / Tooling Fabrication



CNC Mitsubishi V1



CNC Makino V33i



CNC Fanuc Robodrill



CNC Hass VM3



EDM Mitsubishi EA8PV



**Wirecut Mitsubishi
NA2400**



**AutoLathe Cincom
A20II**



**Grinding Okamoto
ACC515DXCL**

Mold / Tooling Fabrication



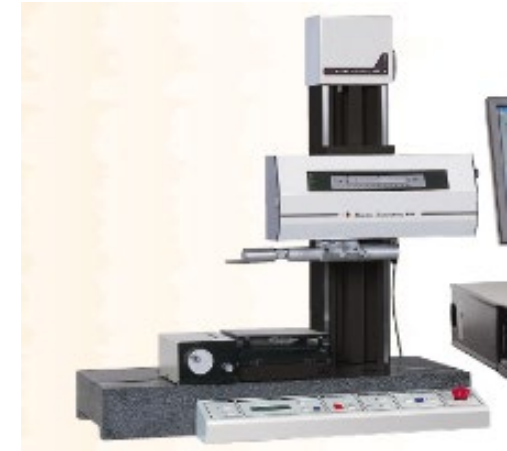
LKV 8.7.6 (Tripod stand)
LK CMM 8.7.6



NIKON TMM MM800



**Future tech
Hardness FR-1E**



**Kosaga Roughness
SE3500**



**Mitutoyo height
gauge LH600**



NIKON Digimatic MF-501

The background of the slide is a blue-tinted image of two hands shaking in a firm grip, symbolizing agreement or partnership. The text 'Thank You for Attention' is centered over this image in a large, white, bold, sans-serif font.

Thank You for Attention