

IR DAY 2020

**MinebeaMitsumi**  
*Passion to Create Value through Difference*

# Operations in Cebu

---

December 3, 2020

Yoshihiro Sakanushi

CEBU MITSUMI, INC.  
President



## **1** Philippine Operations and Cebu Factory Overview

---

## **2** Outline of Parts Processing

---

## **3** Camera Actuator Overview

---

## **4** Production Equipment Development

---

# **1** **Philippine Operations and Cebu Factory Overview**

---

- **Information on 3 factories in the Philippines**
- **Advantages of business operations in Philippines and Cebu**
- **Overview of Cebu Factory**
- **COVID-19 Control Measures**

## Information on 3 factories in the Philippines



### **MITSUMI PHILIPPINES, INC.**

(Bataan Factory)

Founded : 1980

Manpower : 3,751 pax. November 2020

Products : Coil, AC adapter,  
High frequency module, etc.



### **MINEBEA PHILIPPINES, INC.**

(Batangas Factory)

Founded : July 2015

Manpower : 935 pax. November 2020

Products : Various electronic motors



### **CEBU MITSUMI, INC.**

(Cebu Factory)

Founded : January 1989

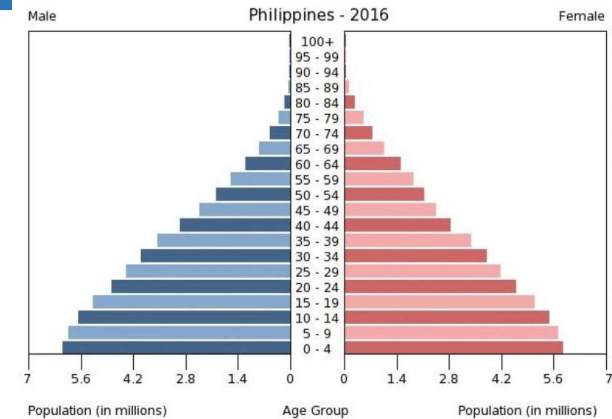
Manpower : 19,908 pax. November 2020

Products : For mobile phone cameras  
Actuators, connectors  
Semiconductor package



## Business benefits in the Philippines

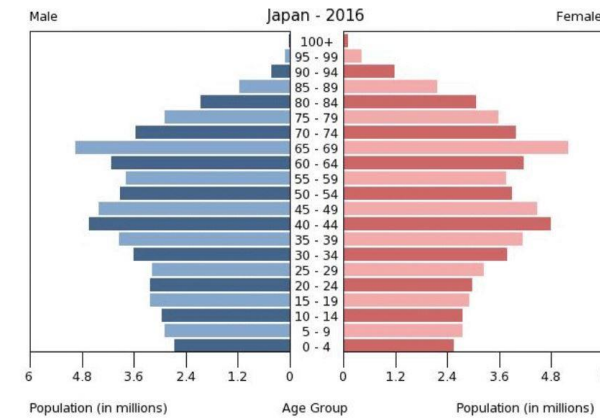
1. Young and excellent workforce can be acquired.
2. Cheaper Labor.



Population composition by age (Philippines)

## Business benefits in Cebu

1. Location where it is easy to acquire employees.
2. Stable production is possible with low turnover rate and absenteeism rate.
3. Easy access to international airport/port.



Population composition by age (Japan)

## Overview of Cebu Factory



## New Coronavirus Measures

Prevention of infected person inside the factory



3 x Body temperature checks

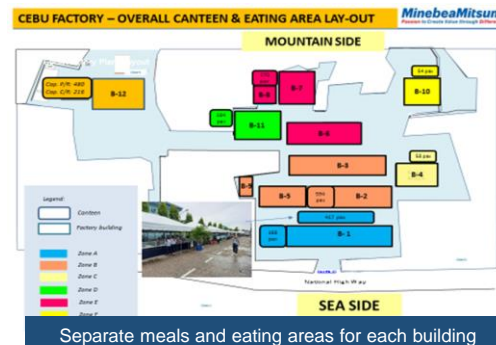


Introduction of process partition



Disinfection of the toilet every 2 hours

Prevention of congestion



Separate meals and eating areas for each building



Special rest area after meal



Securing social distance by assigning Marshal

Community contribution activities, etc.

**MinebeaMitsumi supports PH government amidst COVID-19 crisis**

Donation of N95 masks and daily necessities



Community awareness activities



Set up and operate a dedicated clinic

## **2** Outline of Parts Processing

---

- **Main Production Equipment**
- **Continuous Efforts to Improve Productivity**
- **In-house Parts production for Major Products**



## Main Production Equipment



High-speed press line for actuators



Molding line for actuators



Barrel plating line for actuators



Insert molding line for connectors



Molding line for connectors



Hoop plating line

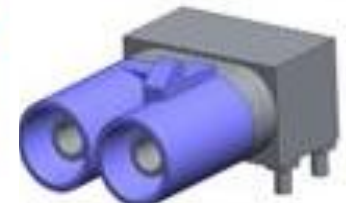
## In-house Parts production for Major Products

Increase the in-house production rate of parts then contribute to the product division on cost and quick delivery

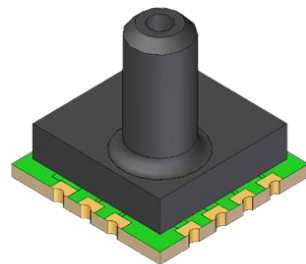
Camera actuator parts



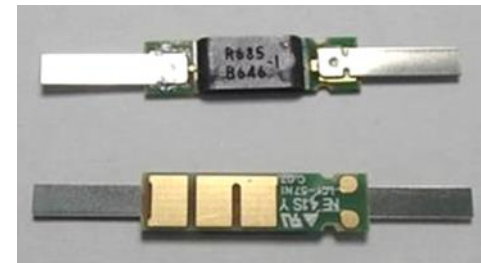
Parts for connectors



MEMS Sensor parts



Battery module parts

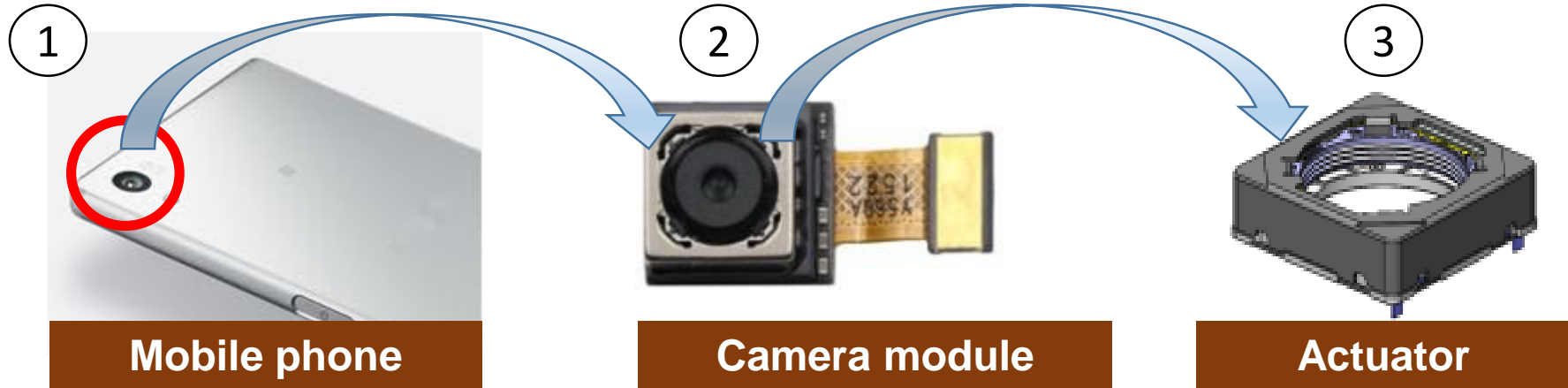


## **3** Camera Actuator Overview

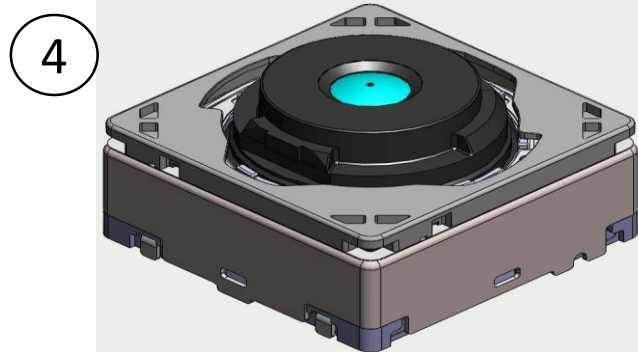
---

- **Camera Actuators**
- **Production Method**
- **Future Trends**

## Camera Actuators

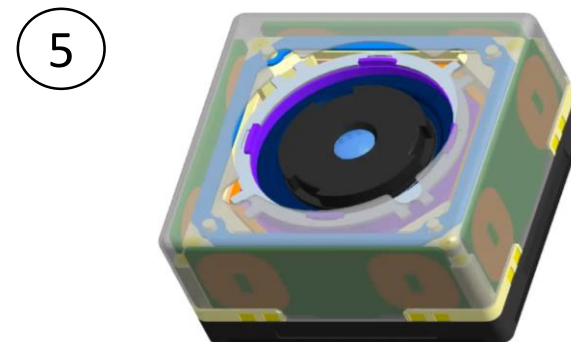


Auto focus (AF)



Z Direction movement

Image stabilization (OIS)



X,Y,Z Direction movement

## Future trends

- 1 . Expand orders by improving productivity and increasing capacity.
- 2 . Loss reduction by maximizing the utilization of manufacturing resources.
- 3 . Continued expansion of production at the Cambodia factory.
- 4 . Continue develop new products that meet market requirements.
- 5 . Further improvement of market portfolio to increase sales and profits next fiscal year.



## **4** Production Equipment Development

---

- **Production Equipment Development Team**
- **Our Goal**

## Overview of Equipment Development Team

- In 2020, 60% of the newly introduced and modified equipment will be in-house developed and assembled in the factory.
- The equipment developed and assembled in-house are inexpensive, high-quality and can be delivered in a short time.
- The equipment development team flexibly responds to frequent model/product changes and upgrades assets with minimal waste.

Equipment development team. Total 80 engineers.

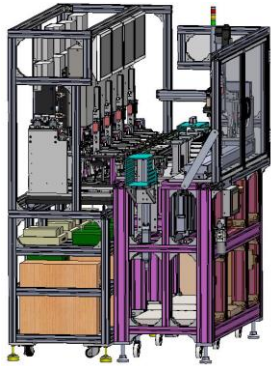
FIELD	FUNCTION
Software Engineers	System software development Image processing software development, etc.
Mechanical Engineers	Structural design Housing design
Electronics Engineers	Measurement and Control system circuit design Interface design



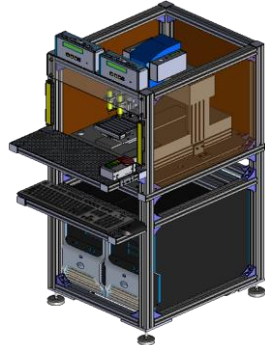
Equipment development assembly area

## Equipment introduction examples and future direction

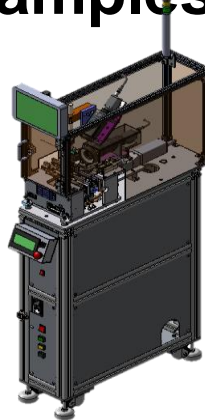
### Equipment introduction examples



Parts pick and place machine



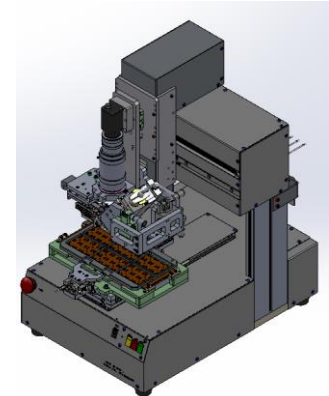
Electrical characteristic testing machine



Visual inspection equipment



Laser printing device



Resin Apply device (module)

### Our goal

- Aim 90% or more of new equipment made in-house.
- In-house development of automated visual inspection process, which relies on workers, at lower cost.
- Going beyond the development of production equipment, we aim to build an optimal manufacturing execution system for our own factory.





Any statements in this presentation which are not historical are future projections based on certain assumptions and executive judgments drawn from currently available information.

Please note that actual performance may vary significantly from any particular projection due to various factors.

Factors affecting our actual performance include but are not limited to: (i) changes in economic conditions or demand trends related to MinebeaMitsumi's business operations; (ii) fluctuation of foreign exchange rates or interest rates; and (iii) our ability to continue R&D, manufacturing and marketing in a timely manner in the electronics business sector, where technological innovations are rapid and new products are launched continuously.

All the information in this document is the property of MinebeaMitsumi Inc. All parties are prohibited, for whatever purpose, to copy, modify, reproduce, transmit, etc. this information regardless of ways and means without prior written permission of MinebeaMitsumi Inc.