

# Global Review Overview of P/M Industry in Asia

**WORLDPM2016**  
congress and exhibition  
Hamburg • Germany • 9 - 13 October 2016



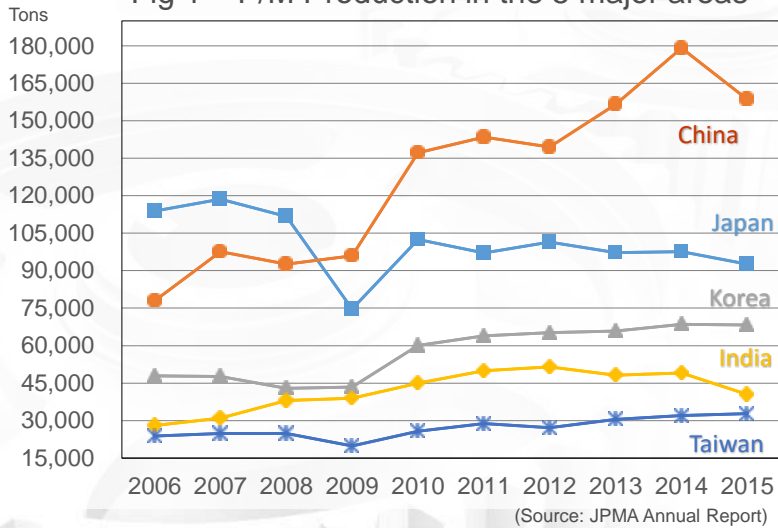
Takashi Saito  
Executive Director  
Japan Powder Metallurgy Association

## Outline

- Statistics of Asia
- APMA Activities
- Statistics of Japan
- Trend of PM Technologies in Japan
- JPMA Activities
- Next World Congress

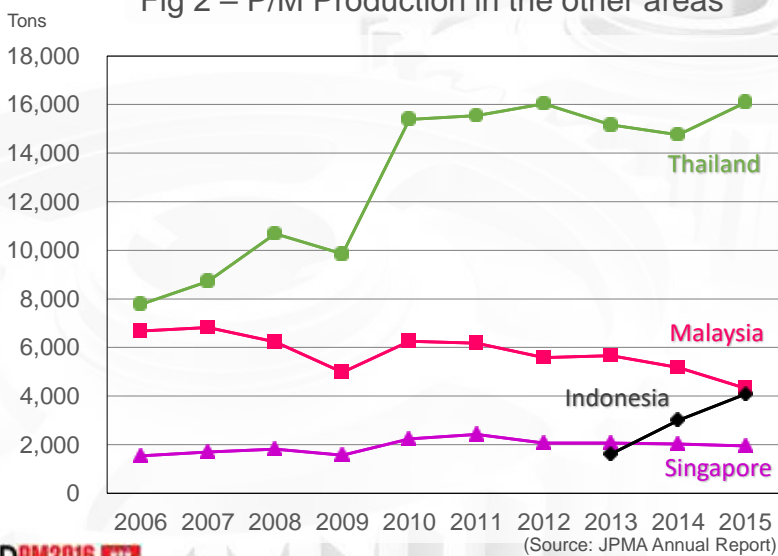
## P/M Production in Asia 1

Fig 1 – P/M Production in the 5 major areas



## P/M Production in Asia 2

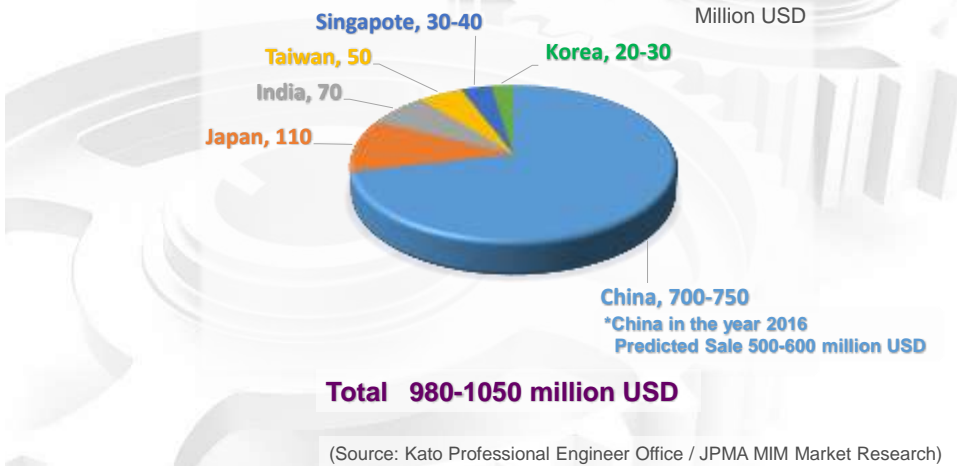
Fig 2 – P/M Production in the other areas





## 2015 MIM Sales in Asia

Fig 3 – 2012 MIM Sales



## Activities of APMA

- 2011 1st APMA Conference Jeju, Korea  
Participants : 358
- 2013 2nd APMA Conference Xiamen, China  
Participants : 516
- 2015 3rd APMA Conference Kyoto, Japan  
Participants : 439

## Next APMA Conference



2017 4th APMA Conference Hsinchu, Taiwan  
Conference Venue Sheraton Hotel  
Conference Date April 9-11, 2017

Organizer

Co-organizers



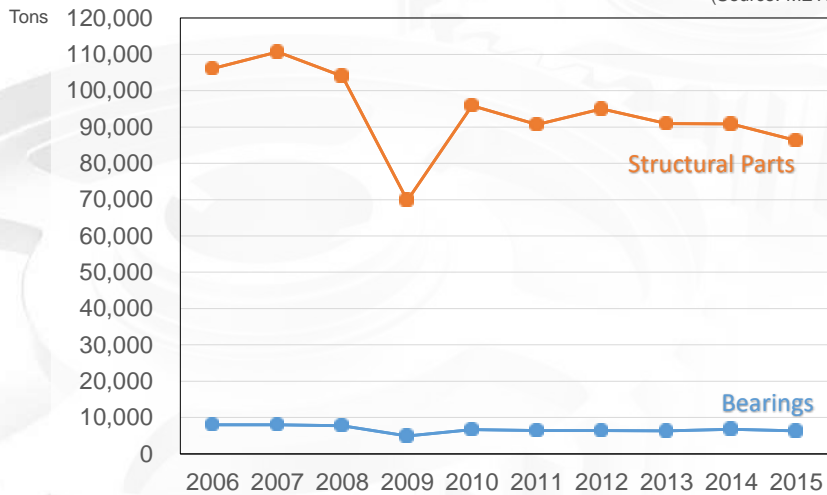
TAIPEI 國立臺北科技大學  
TECH National Taipei University of Technology



## PM Production in Japan

Fig 4 – Production Weight Machine Parts & Bearings

(Source: METI)

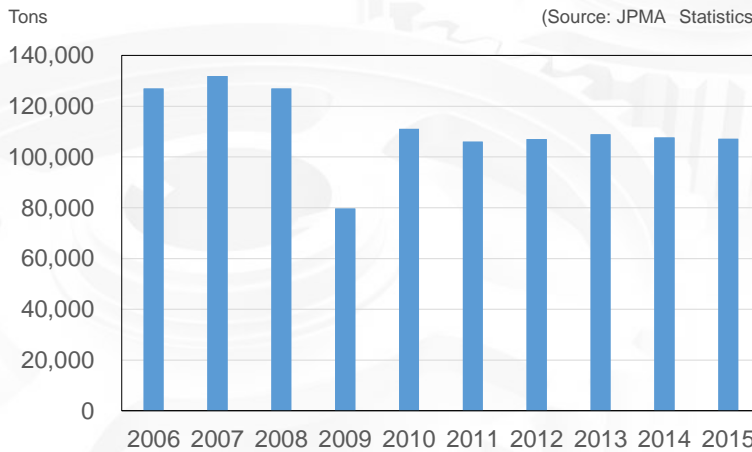


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## PM Production in Japan

Fig 5 – Shipment of Iron Powder for PM Use

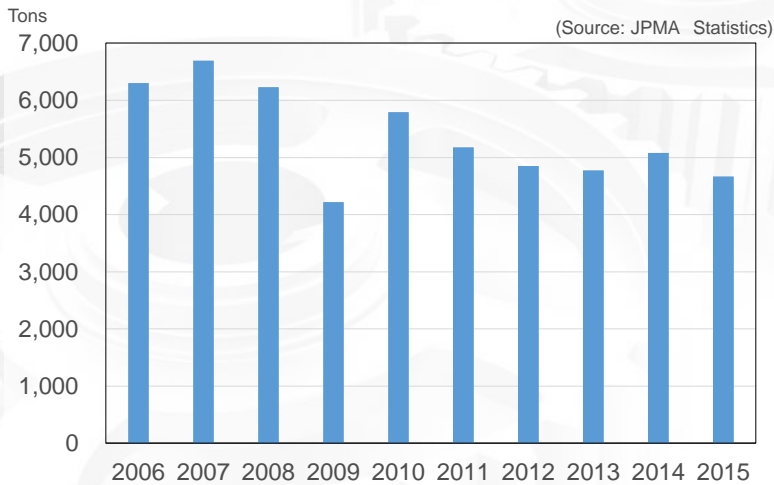
(Source: JPMA Statistics)



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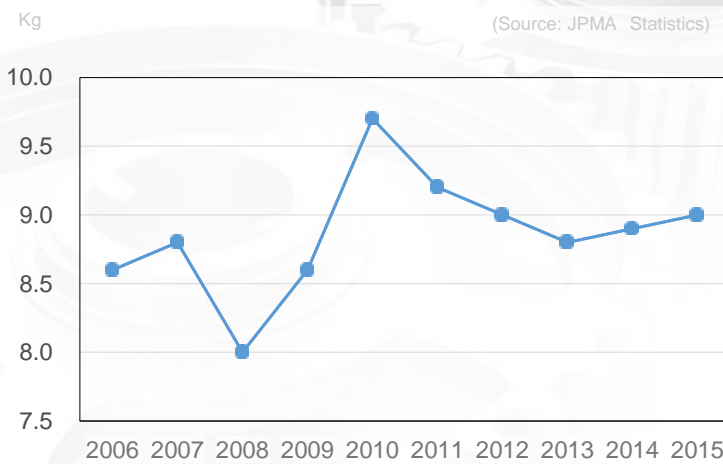
## PM Production in Japan

Fig 6 – Shipment of Copper Powder for PM Use



## PM Production in Japan

Fig 7 – The weight of PM Parts in 4 Wheel Vehicle



## Trend of PM Technologies in Japan

2015 New Design

Development of the soft magnetic composite core for high-power output and rectangular-shaped ignition coil

\*Prize Company SUMITOMO ELECTRIC INDUSTRIES, LTD.



Change from Electromagnetic Steel Sheet to Soft magnetic composite core



Ignition coil

## Trend of PM Technologies in Japan

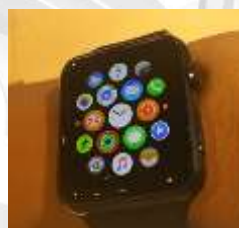
2015 New Design

Development of bearing for linear vibration actuator to be used in wearable device

\*Prize Company PORITE CORPORATION



Ultraminiature Bearing  
OD:  $\phi 1.4 \sim 1.9\text{mm}$ ,  
ID:  $\phi 0.5 \sim 0.8\text{mm}$   
L:  $0.6 \sim 0.8\text{mm}$



Wearable Watch

## Trend of PM Technologies in Japan

### 2015 New Powders (Effort Prize)

**Partially Alloyed Bronze Powder with High Compactibility Suitable for High Sintered Density**

**\*Prize Company Fukuda Metal Foil & Powder Co., LTD.**



Bronze powder is partially alloyed to electrolytic copper powder  
It achieved high compactibility and high strength

### 2015 JPMA Awards

>>> Exhibition to Awards Showcase the Exhibition Area



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## JPMA Activities

### Development of young employees

**Committee for Metal Injection Molding  
8th Opinion Exchange Meeting among  
Young employees of MIM Affiliate Company**



**Sub-Committee for Public Relations  
4th Human resources development seminar**



**Committee for Sintered Friction Materials  
2nd Opinion Exchange Meeting among  
Young employees of Sintered Friction  
Materials Company**



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## JPMA Activities

60th Anniversary Ceremony and Party

- \* April 27, 2016, PALACE HOTEL TOKYO
- \* 213 participants
- \* Special commendation  
Prof. Ryuzo Watanabe, Adviser of JPMA



60 Anniversary Issue

## Next World Congress

WORLD PM2018

September 16 (Sun) – 20 (Thu), 2018  
Beijing, China

