PDMA Inc.

Philippine Die & Mould Association, Inc.

SUBCON THAILAND 2015
13-16 May 2015
Bangkok, Thailand
Outline of Presentation

- About PDMA, Inc.
- PDMA’s major activities in 2014
- PDMA’s 2015 Plans & Programs
- Overview of the Philippine Die and Mold Industry
About PDMA, Inc.

- The PDMA, Inc. is a non-stock, non-profit association registered with the Securities and Exchange Commission (SEC) of the Republic of the Philippines.

- PDMA stands for Philippine Die and Mould Association.

- **Purpose:** To catalyze the mobilization of all possible resources, people, materials, technology and information, in order to promote the rapid modernization of the Philippine die and mould industry.
PDMA, Inc. Thrusts

1. Policy Advocacy & Support with the Philippine government

2. Industry Consolidation and Network Building with local and foreign entities engaged in tool and die

3. Information Dissemination through sharing of information, technology and best practices among members

4. Improving Technical Capability of institutions engaged in human resource development related to tool and die

5. Establishment of Common Research Technical Facility and Creating a Pool of Technical Consultants
The PDMA, Inc. is composed of seven (7) sectors, each represented by elected Trustees. These sectors are the following:

<table>
<thead>
<tr>
<th>Sector</th>
<th>No. of Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Die Casting and Forging</td>
<td>5</td>
</tr>
<tr>
<td>Electronics &amp; Semiconductor Tooling</td>
<td>14</td>
</tr>
<tr>
<td>Government</td>
<td>2</td>
</tr>
<tr>
<td>Metal Stamping</td>
<td>22</td>
</tr>
<tr>
<td>Plastic, Rubber &amp; Packaging</td>
<td>14</td>
</tr>
<tr>
<td>Technological Resources; and</td>
<td>60</td>
</tr>
<tr>
<td>Machining and Fabrication</td>
<td>10</td>
</tr>
</tbody>
</table>
PDMA’s major activities in 2014

1. Implementation of the Die and Mold Solution Center

- In partnership with the Metals Industry Research and Development Center (MIRDC)
PDMA’s major activities in 2014

Training on Die and Mold Making

No. of Graduates: 20  (17 males/ 3 females)
Duration: 6 months (June - December 2014)

Curriculum:  
I. Technical Drawing & Geometrical Dimensioning and Tolerance  
II. Die Design, Safety, Repairs and Maintenance  
III. Plastic Mold Injection Design  
IV. CAD Fundamentals  
V. CAD: Die Design Solution and Simulation  
VI. CAD: Mold Design Solution and Simulation  
VII. Heat Treatment  
VIII. Machine Shop Operation (Grinding)  
IX. CNC Turning and Milling  
X. CNC EDM Wirecutting  
XI. CNC EDM Sinking  
XII. CAM/NC Solution (Die/Mold Making)  
XIII. Group Project: Actual Die/Mold Design, Fabrication, Assembly, Trial
PDMA’s major activities in 2014

Mr. Eichii Ogihara, President, Ogitech Corporation, talking to our die and mold making trainees
PDMA’s major activities in 2014

2. Investments Priority Plan (IPP) 2014-2016

- Recommended by PDMA as part of its Roadmap which provides entitlement to incentives and tax holidays to those who will invest in tool and die in the Philippines
- Guidelines for Implementation Approved by the President of the Philippines on October 28, 2014

Companies engaged in manufacturing tool and die as follows:

a. simple, compound or progressive dies for metal stamping or metal forging
b. molds for die casting, plastic injection, blow molding, glass blow molding, forging, encapsulation molds
c. jigs an fixtures for metal cutting and metal forging
PVMA’s major activities in 2014

3. Expansion of the Die and Mold Solution Center

- Acquisition of equipment and facilities for stamping, Laser CMM, die spotting, etc.
- Scholarship program for a 6-months training in die and mold making. Trainees also receive daily subsistence allowance.
- Common Service facilities for industry’s use
1. Training Course for Die and Mold Making

- 80 Graduates for 2015
- 6 months training duration
- Stipend of PhP400/day ($9/day)
2. 7th Philippine Die & Mould Machineries and Equipment Exhibition (PDMEX 2015)

- A biennial event hosted by the PDMA
- incorporated allied exhibits namely: AUTOCOR, MACHINE TOOLS, METFIN, METROLOGY, OUTSOURCING & ENGINEERING, PHILPLAS, PHILWELD & SHEET METAL
PDMA’s 2015 Plans and Programs

3. PDMA Technical Scholarship Program

- A partnership of PDMA with the Metals Industry Research and Development Center (MIRDC)
- Provides **free** technical training to employees of PDMA member firms.
- Technical training programs offered:
  
4. Memorandum of Agreement with MIAP and SPRCNHS

- Partnership for the establishment of machining training courses at a technical high school (San Pedro Relocation Center National High School [SPRCNHS]).

- Metalworking Industries Association of the Philippines (MIAP) and PDMA, Inc, will provide machineries, raw materials and resource speakers for special topics to SPRCNHS.
Overview of the
The Philippine Die and Mold Industry

- Contribution of the Tool and Die industry to the Philippine economy is still small.
- Only about 200 companies engaged in Tool and Die. The smallest number among FADMA members.
- Supports mainly the automotive and electronics manufacturing sector, and to a lesser extent, the semiconductor industry.
## Overview of the The Philippine Die and Mold Industry

<table>
<thead>
<tr>
<th>Area</th>
<th>No. of Shops</th>
<th>% Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCR</td>
<td>52</td>
<td>43</td>
</tr>
<tr>
<td>Region III</td>
<td>7</td>
<td>6</td>
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<tr>
<td>Region IV</td>
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<td>36</td>
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<td>Region VII</td>
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<td>13</td>
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<tr>
<td>Region XI</td>
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<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>121</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: The Philippine Tool and Die Industry A 2006 Study
Overview of the
The Philippine Die and Mold Industry

Philippine Export Data (2000-2013)

Source:
Foreign Trade and Statistics of the Philippines, NSO
Overview of the
The Philippine Die and Mold Industry

Philippine Import Data (2000-2013)

Source: Foreign Trade and Statistics of the Philippines, NSO
Overview of the
The Philippine Die and Mold Industry


Source: Foreign Trade and Statistics of the Philippines, NSO
Overview of the
The Philippine Die and Mold Industry

Challenges and Industry Concerns

1. Industry Costs
   - Retraining costs due to high turnover of die and mold maker
   - High cost of inputs, power, capital equipment

2. Technical
   - Operation of advanced machines for improved productivity
     (high speed machining, multi-axis, etc.)
   - Lack of engineering services and support infrastructure

3. Market
   - Domestic market for tool and die is small
   - Procurement decisions for die and mold are decided outside the country
Thank you.