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# CASTING & FORGING

Casting Services

Forging Services



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PT Pindad - Persero



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# CASTING SERVICES

## FACILITIES

PT Pindad has various casting processes in responding to all customer's requirements. A series of processes from melting to casting is arranged from the viewpoints of human engineering. The most advanced plants have also been installed with optimum working environment.

The Casting Services provide best facilities including melting facilities, finishing facilities and quality control equipment.

### Melting Facilities

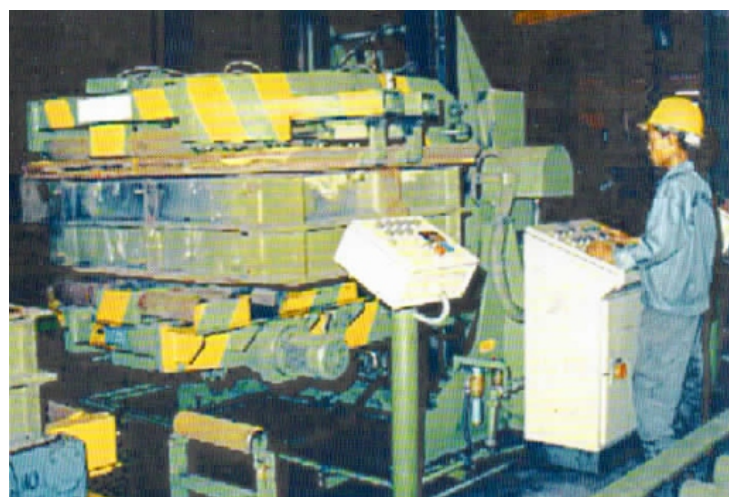
- 3 units of Induction Furnace MF 2000 with 2 units Power Track of 2 tons/hour capacity
- 1 unit of Induction Furnace MF 375 with capacity of 375 kg/hour
- 1 unit of Induction Furnace MF 500 with capacity of 500 kg/3 hours
- 1 unit of Induction Furnace MF 15 with capacity of 15 kg/2 hours
- 1 unit of Non-Ferrous Induction Furnace with capacity of 140 kg/hour
- 1 unit of Non-Ferrous Oil Furnace with capacity of 200 kg/2 hours



**Induction Furnace**

### Moulding Facilities

- 1 Line Disamatic Moulding Machine with capacity of 200 mould/hour
- 1 Line Furan Moulding Machine with continuous mixer of 10 tons/hour
- 2 Line Jolt Squeeze Machines with capacity of 15 mould/hour
- 2 Line Shell Moulding Machines (Resin Coated Sand Process) with capacity of 10 mould/hour
- 2 Core Making Machines (Cold Box) with capacity of 16 L and 25 L
- 2 Core Making Machines (Hot Box) with capacity of 25 blows/hour
- 1 unit Gravity Die Casting Type DC45 with capacity of 30 pouring/hour



**Furan Line**

### Finishing Equipment

- 1 unit of Shot Blasting Machine Hanger with capacity of 2 tons
- 1 unit of Shot Blasting Machine Barrel with capacity of 0,75 tons

# CASTING SERVICES

## FACILITIES

For pattern making, we are supported by engineering design and the usage of modern facility as well as skilled labor and assisted by professional quality control to meet customer's specification

### Quality Control Equipment

- Spectrometer
- Sand Moulding tester
- Hardness tester
- Digital CE Meter
- Microstructure tester
- Universal Strength Machine

### Quality System

- QMS ISO 9001
- OHSAS 14001
- 2000/SNI 19
- 9001 - 2001 from B4T

### Quality of Standard Material

- JIS Standard
- DIN Standard
- ASM/ASTM
- etc.



**Disamatic Line**



**Pouring Process**



# FORGING SERVICES

## FACILITIES

PT Pindad's forging facilities have been in operation since 1983. To meet the requirements of technological development, Pindad has expanded and increased the capacity by adding forging machines as well as dies making machines and quality control equipment. With the capability of skilled personnel and adequate facilities, we serve our customers with high quality product, timely delivery and competitive price.

### Forging Facilities

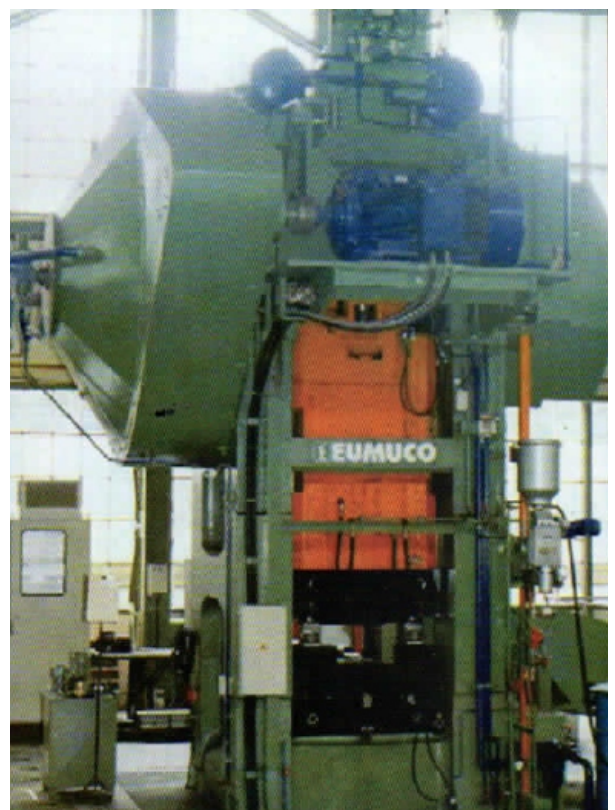
- Mechanical Press 1600 tons
- Roll Press Forging
- Mechanical Press 315 tons
- 1 unit Screw Press 300 tons
- Drop Hammer Press (800, 1250 and 1600 ton)
- Eccentric Press (100, 70 and 40 tons)
- Hydraulic Press 60 tons (6 units)
- Hydraulic Press 630 tons
- Induction Heating

### Stamping Facilities

- 3 units Eccentric Press 60 tons
- 4 units Eccentric Press 60 tons komatsu OBS-60-SL
- Eccentric Press 250 tons
- Eccentric Press 100 tons
- Double Eccentric Press 80 tons
- Tapping & Drilling Machine
- Hydraulic Press 40 - 300 tons
- Lathe Machine
- Milling Machine
- Rolling Machine
- Bending Machine
- Shearing Machine
- Drilling Machine
- Grinding Machine
- Scraping Machine
- Injection Moulding Machine

### Finishing Equipment

- 1 unit of Shot Blasting Machine Hanger with capacity of 2 tons
- 1 unit of Shot Blasting Machine Barrel with capacity of 0,75 tons



# FORGING SERVICES

## FACILITIES

For dies making, we are supported by engineering design and the usage of modern facility as well as skilled labor and assisted by professional quality control to meet customer's specification

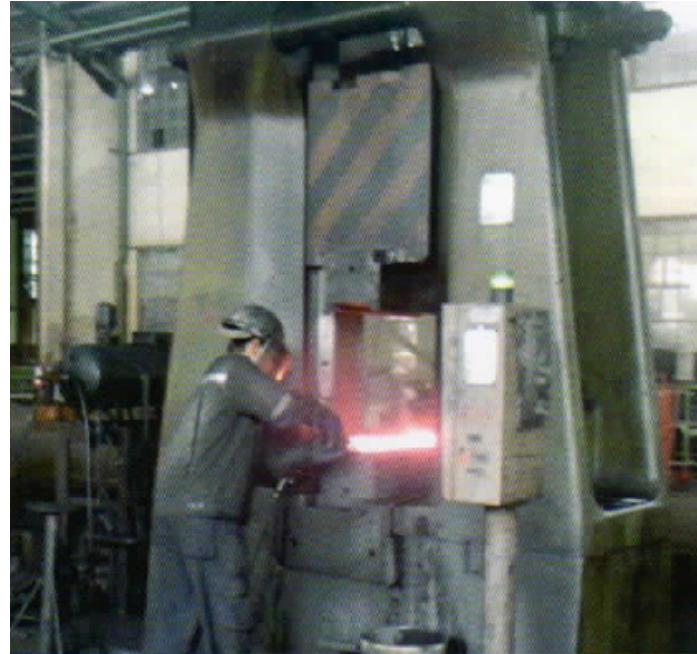
### Quality Control Equipment

- Spectrometer
- Hardness tester
- Microstructure tester
- Universal Strength Machine

### Quality Management System

The certificate of Quality Management System has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standard :

- > QMS ISO 9001 : 2008



### Management System

The certificate of Environmental Management System has been approved by Lloyd's Register Quality Assurance to the following Environmental Management System Standard :

- > OHSAS ISO 14001 : 2008



### Quality of Standard Material

- JIS Standard
- DIN Standard
- ASM/ASTM
- etc.



# CASTING SERVICES

## PRODUCTS

### Casting Products

- Casting : gray cast iron, spheroidal graphite cast iron, alloyed cast iron, malleable cast iron, cast steel
- Casting parts for :
  - > Automotive industry
  - > Electrical industry
  - > Petrochemical industry
  - > Mining industry
  - > Machine tools industry
  - > Etc.
- Capacity : 3.500 tons/year/shift



**Mining Pump**



**Bracket KE**



**Hanger Bracket**



**Counter Weight**



**Crank**



**Ejector**



**Crawler Link**



**Shoulder for E-Clip**

# FORGING SERVICES

## PRODUCTS



**Connecting Rod & Gear Blank**



**OMB Valve**



**Swink Link**



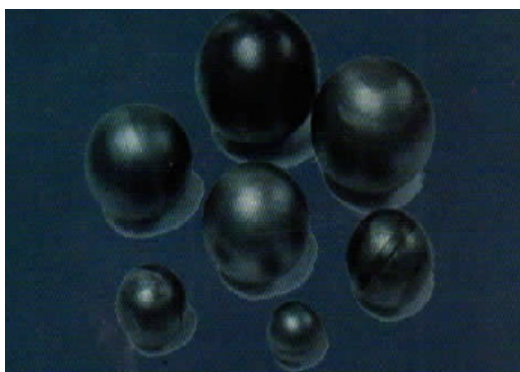
**Chemical Fertilizer Plant Components**



**Chain Conveyor**



**Automotive Parts**



**Grinding Ball**



**LPG Cylinder 3 kg**