



A RESPECTED NAME IN
**HIGH QUALITY
FORGING PARTS**





PT. INTERMESINDO FORGING PRIMA



Head Office and Factory:

Address: Jl. Pajajaran Raya No. 3, Jatiuwung Cibodas, Tangerang-Banten, Indonesia

Phone: +62-21-55657279

Fax: +62-21-55657216

Land & Building Area:

Land Area: 10883 m²

Building Area: 7200 m²

Office Area: 336 m² x 2 floor



Corporate Core Value:

- To provide the best service in order to satisfy customers' needs.
- To provide assurance to customers' needs with our products.
- To become a profitable company with social responsibility and to create value for all personnel who bear their responsibility within the company.

Corporate Vision:

Firstly, to become a reputable and established forging part manufacturer in Indonesia, secondly, to expand to the Middle East, and finally to be a global player.

Corporate Mission:

- Producing the best quality products to fulfill customers' needs.
- Providing low cost, yet high quality forging parts.
- Becoming a trustworthy company that keeps the secrecy of our customers' products.





Well-planned Forging Plant, Integrated Production System

Over the years, INTERMESINDO has gradually increased its market share. This achievement comes from its efforts in helping customers to meet their requirements for high-quality forging parts with competitive prices. To this end, INTERMESINDO has constantly invested in its production facilities. Currently, INTERMESINDO has introduced a wide range of forging machines and related equipments in its forging plant. With the integrated production process, INTERMESINDO is able to shorten lead time, lower production costs and ensure quality.

Forging Production Flow Chart:

Forging Machines :

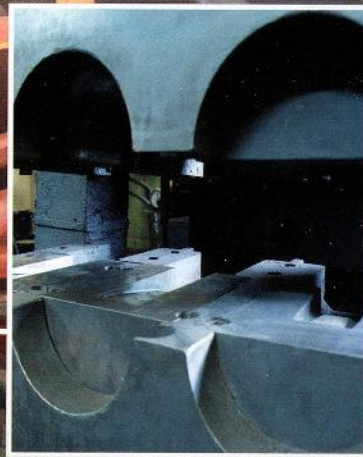
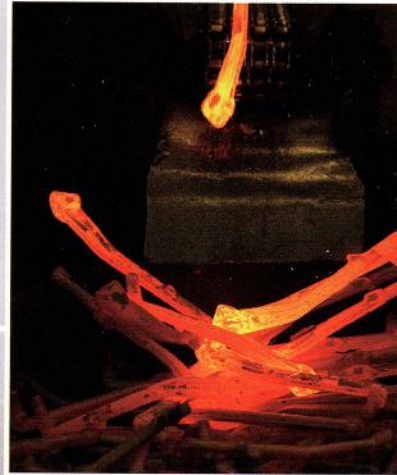
- 1000 ton press forging machine (2 units)
- 600 ton press forging machine (4 units)
- 500 ton press forging machine (1 unit)
- 400 ton press forging machine (1 unit)
- 1 ton hammer forging machine (1 unit)
- 1.3 ton hammer forging machine (1 unit)
- 2 ton hammer forging machine (1 unit)
- CHK100 (4 ton) Hydraulic Hammer (1 unit)
- 320 ton upsetter forging machine (1 unit)
- 630 ton upsetter forging machine (1 unit)
- Trimming machine (25 units)

Cutting Machines :

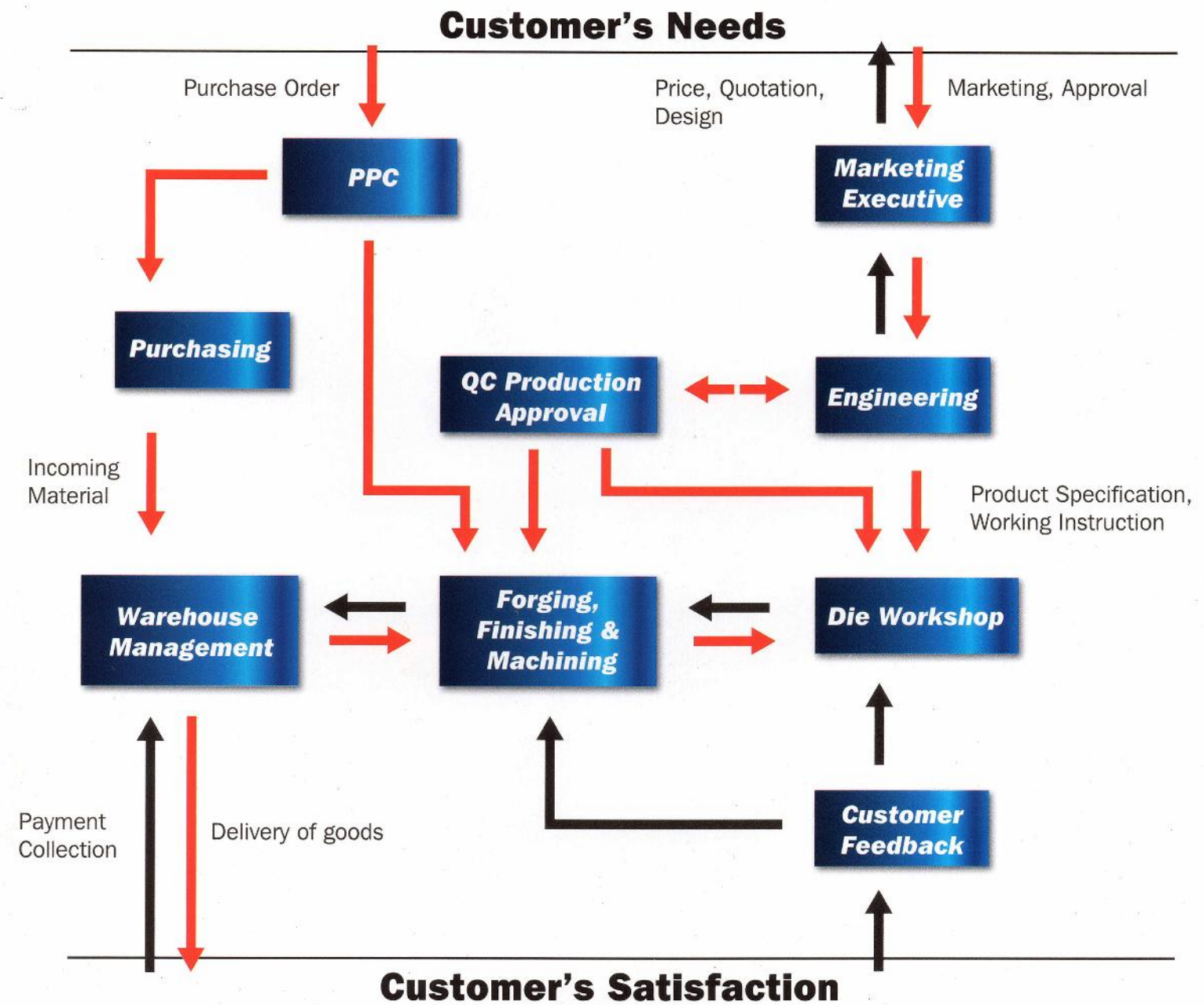
- Steel bar-cutting machine for Ø32mm or below (1 unit)
- Steel bar-cutting machine for Ø55mm or below (2 unit)
- Steel bar-circular saw cutting machine (2 unit)

Heating Ovens :

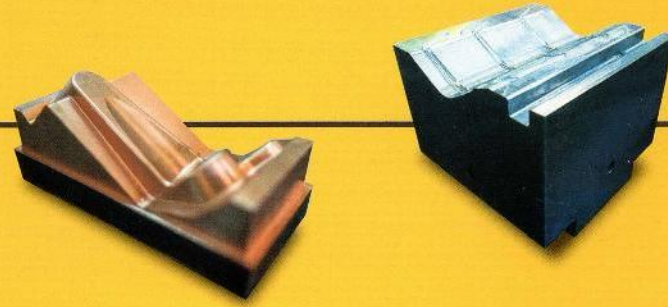
- 500 kW induction heating oven (3 units)
- 400 kW induction heating oven (2 units)
- 300 kW induction heating oven (3 units)
- 250 kW induction heating oven (1 unit)
- 350 kW induction heating oven (1 unit)
- 40 kW induction heating oven (1 unit)



Product Realization



Die Design



All our forging dies are designed and manufactured in house. Our die design engineers use the advanced CATIA CAD/CAM software for simulating the forging process in order to accurately control product's various specifications.

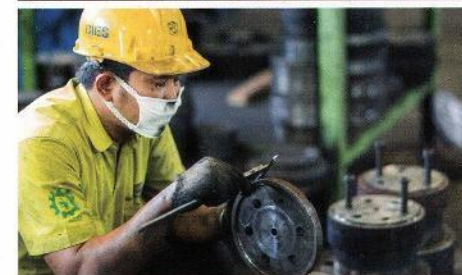
Die Making Workshop

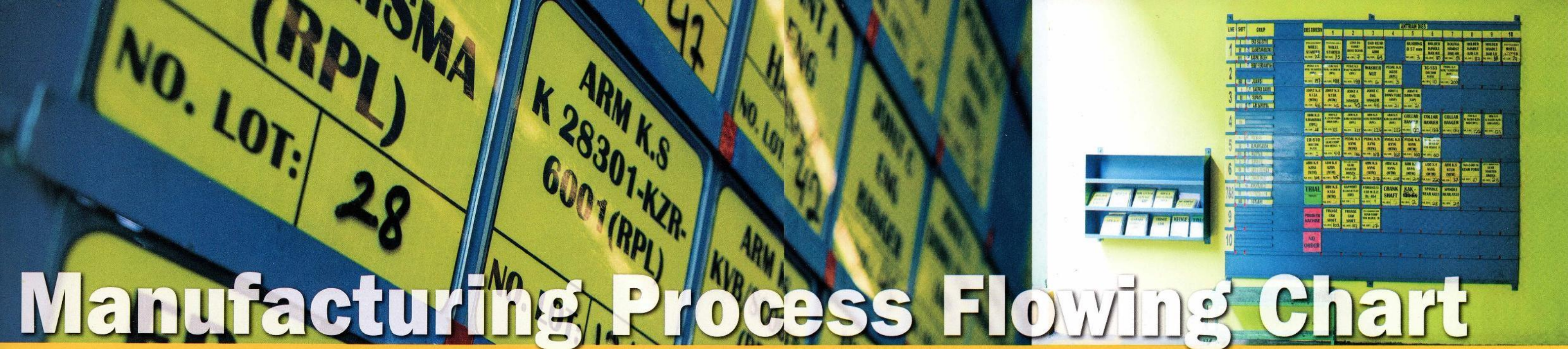
Our die making workshop is fully equipped with a wide variety of high precision machining equipments, allowing us to produce dies with the expected performance. Besides, die refinement and assembly are conducted by our highly skilled technicians. Their fine craftsmanship will ensure high product quality and accuracy when each die is utilized for forging operation.



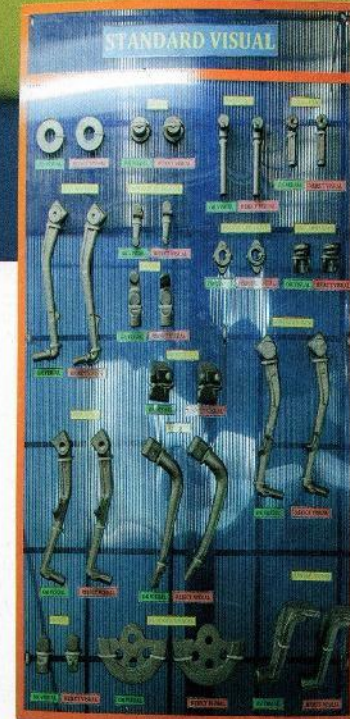
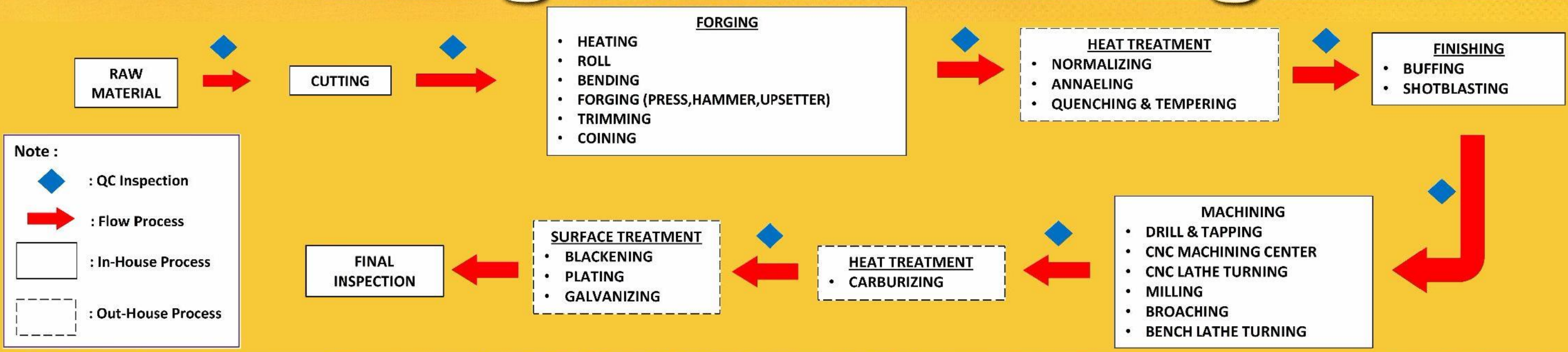
Machining Equipment in Die Workshop

- CNC machining centers (800 mm) x 2
- CNC machining centers (1200 mm) x 1
- CNC machining centers (1000 mm) x 1
- CNC machining centers (610 mm) x 2
- EDM machines x 14
- Milling machines
- Lathe machines
- Sawing machines
- Grinding machines
- Plano miller CNC machine (1000 mm) x 1
- High Speed CNC machine (650 mm) x 1
- Wirecut machine x 2





Manufacturing Process Flowing Chart



Modern Production Management

In order to improve the company's operation management so as to achieve higher efficiency and better service to our customers, INTERMESINDO has implemented the ISO 9001 quality management system and has enhanced it by implementing technical specification, ISO ITS 16949, the automotive-specific standard.





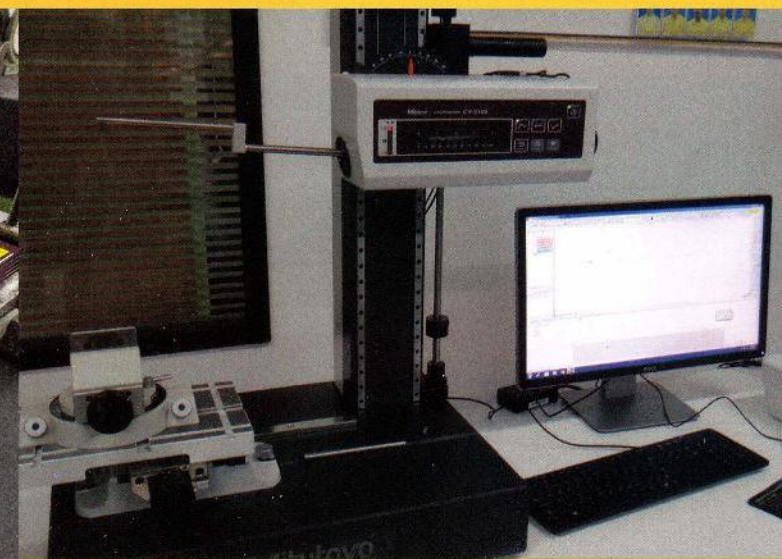
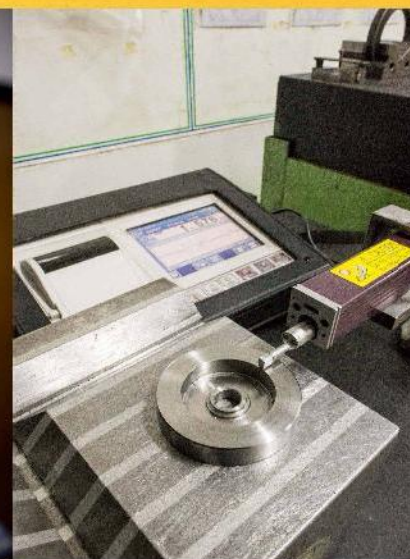
In-process Inspection

INTERMESINDO'S quality control system not only enhances self-inspection for every employee at his working station, but also includes in-process inspection. We conduct rigorous quality control throughout the entire production process, and thus are able to reduce the defect percentage to a minimum.

Rigorous Quality Control Using High-Precision Instruments

Committed to offering the dependable quality of forging parts has been INTERMESINDO'S philosophy. To respond to this commitment, INTERMESINDO has a specialized quality control room, fully equipped with various high-precision inspection instruments. Besides, quality inspection is controlled by our well-trained Q.C. personnel to ensure each forging part from INTERMESINDO meets the highest level of quality.

Quality Assurance Department



Testing Tools

- Rockwell Hardness Testing Machine by Mitutoyo
- Surface Roughness Tester by Mitutoyo
- Contour Measuring System (Contracer) by Mitutoyo
- Coordinate Measuring Machining (CMM) by Mitutoyo
- Computer Servo Hydraulic Universal Testing Machine by Hung Ta Instrument
- Magnetic Particle Machine Detector (Magnaflux) 2 Unit by Promag

Measuring Tools :

- | | |
|--|---|
| • Digital Vernier Caliper
Accuracy : 0.01mm | • Digital Outside Micrometer
Accuracy : 0.001mm |
| • Manual Vernier Caliper
Accuracy : 0.05mm | • Manual Outside Micrometer
Accuracy : 0.01mm |
| • Digital Height Gauge
Accuracy : 0.01mm | • Digital Three Point Inside Micrometer
Accuracy : 0.001mm |
| • Manual Height Gauge
Accuracy : 0.05mm | • Manual Three Point Inside Micrometer
Accuracy : 0.005mm |
| • Digital Depth Gauge
Accuracy : 0.01mm | • Dial Indicator
Accuracy : 0.01mm |



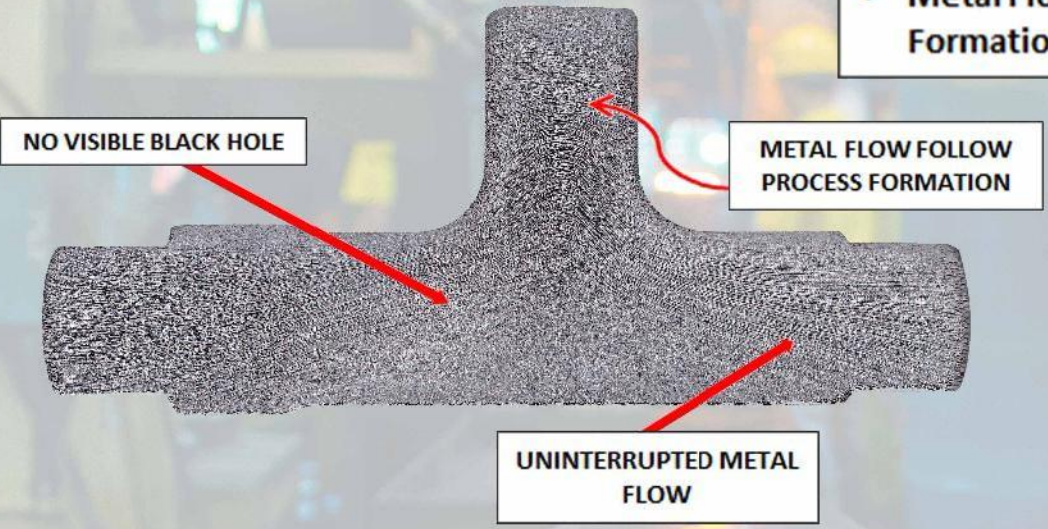
Checkpoint Quality

1. Check Visual Metal Flow

A). Balancer

STANDARD VISUAL METAL FLOW

- Uninterrupted Metal Flow
- No Visible Black Hole
- Metal Flow Follow Process Formation



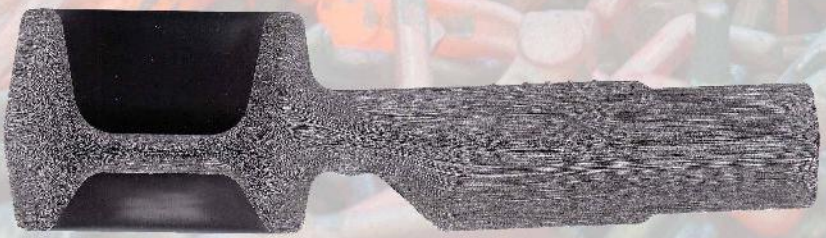
B). Gear



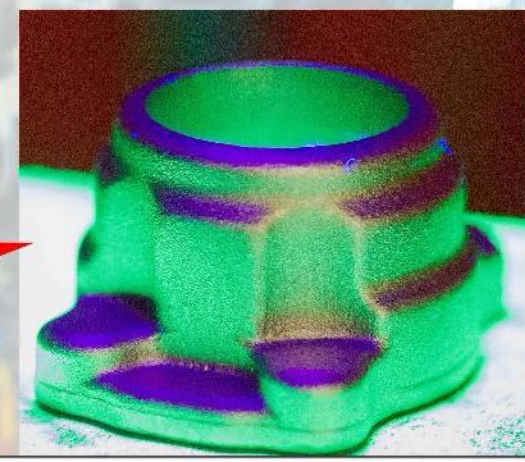
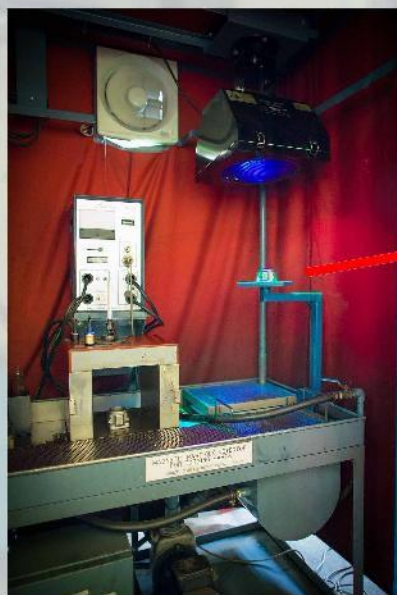
C). Metal Core



D). Socket Forging



2. Magnetic Particle Detector



Standard Visual Magnetic Particle Detector

- No Visible Crack & Lapping
- Visible Crack & Lapping appear as white line under UV Light

3. Check Visual Part Forging



Standard Visual

- No Dent
- No Crack
- No Underfill
- No Burry

4. Dimension

By Jig Inspection

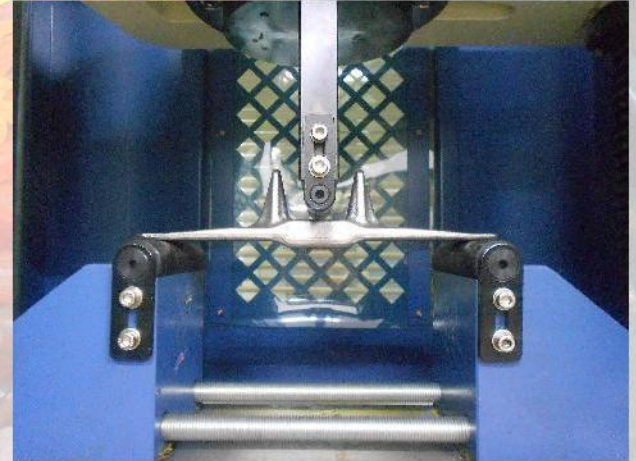


Standard Jig Go No Go

- Part OK must passed Jig inspection
- Part not passed considered NG/Reject

5. Part Forging Test

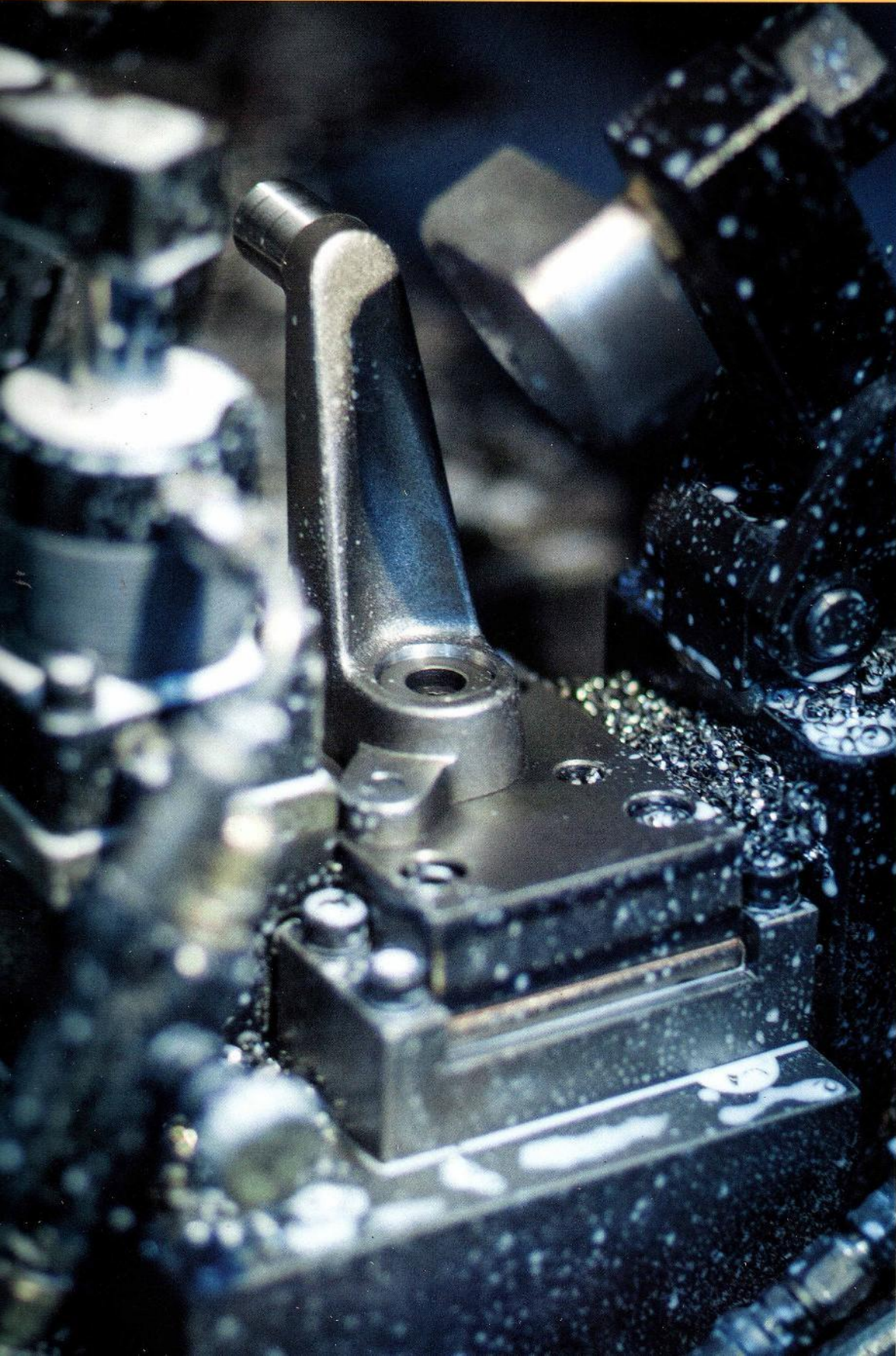
By Testing Tool



Standard 3-Point Bending Flexural Test

- Testing Break
- Testing Deflection

Machining Department



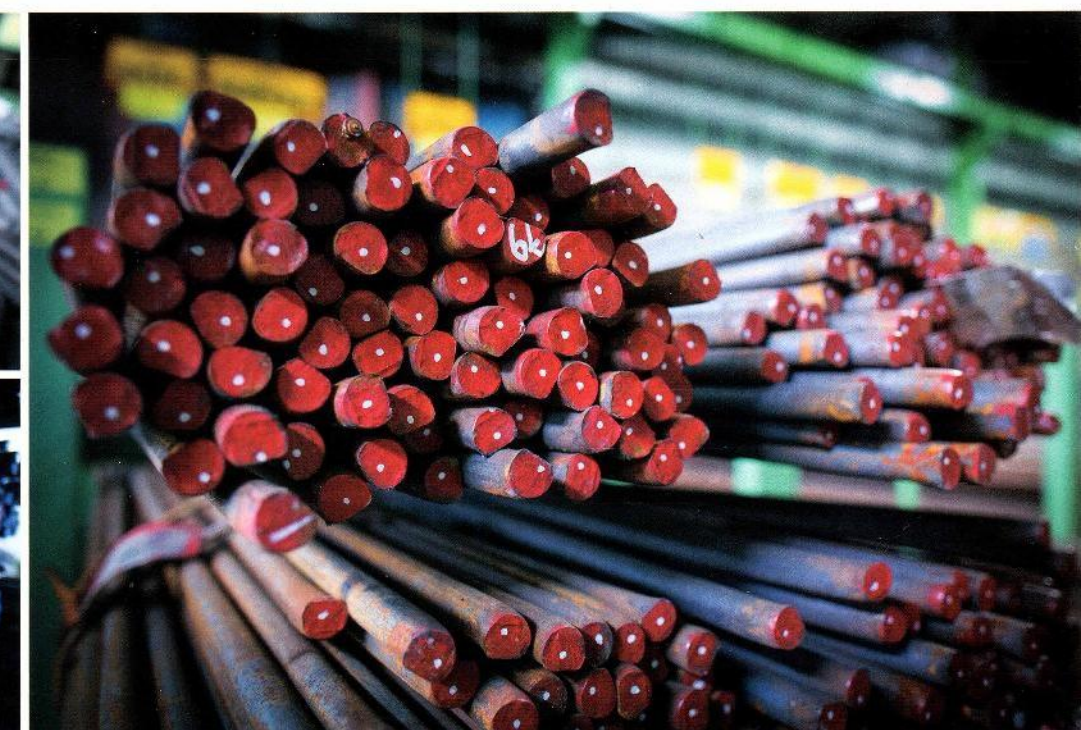
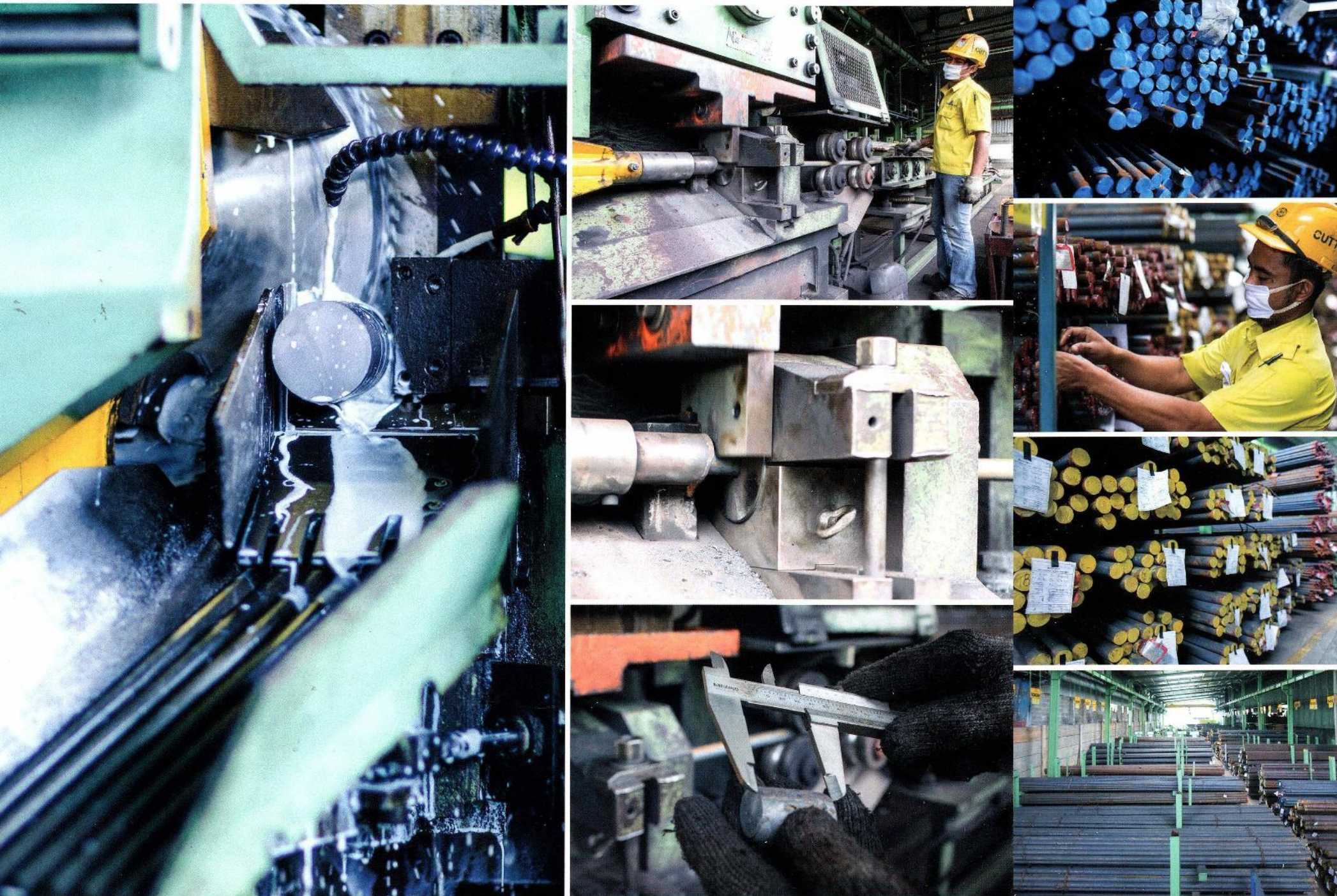
With the intention of providing finished products from forged parts, INTERMESINDO have also invested heavily in introducing a wide range of high-precision machining equipment. Once forging parts are finished, they are directly moved to our machining department for machining. This integrated machining service gives increased competitiveness for INTERMESINDO and its customers.

Machining Equipment in Machining Department

- Drilling Machine (36 Unit)
- Bench Lathe Machine (3 Unit)
- CNC Milling Machine (10 Unit)
- CNC Lathe Machine (12 Unit)
- Milling Machine Semi Auto (10 Unit)
- Hydraulic Machine (3 Unit)
- Tool Sharpener Machine (5 Unit)

Well-Managed Raw Material Inventory

INTERMESINDO implements a well-managed inventory system for high-quality raw material imported from Japan, Taiwan, China and Korea.



Raw Material Suppliers

Japan: Nippon Steel Co., Ltd.
Kobe Steel Co., Ltd.
Daidoo Steel Co., Ltd.
Aichi Steel Co., Ltd.
Sanyo Steel Co., Ltd.

Taiwan: China Steel Co., Ltd.
Feng Shin Iron & Steel Co., Ltd.

China: Daye Special Steel Co., Ltd.
Shijiazhuang Steel Co., Ltd

Korea: SeAH BeSteel Corp.

Outstanding Custom Manufacturing Capabilities

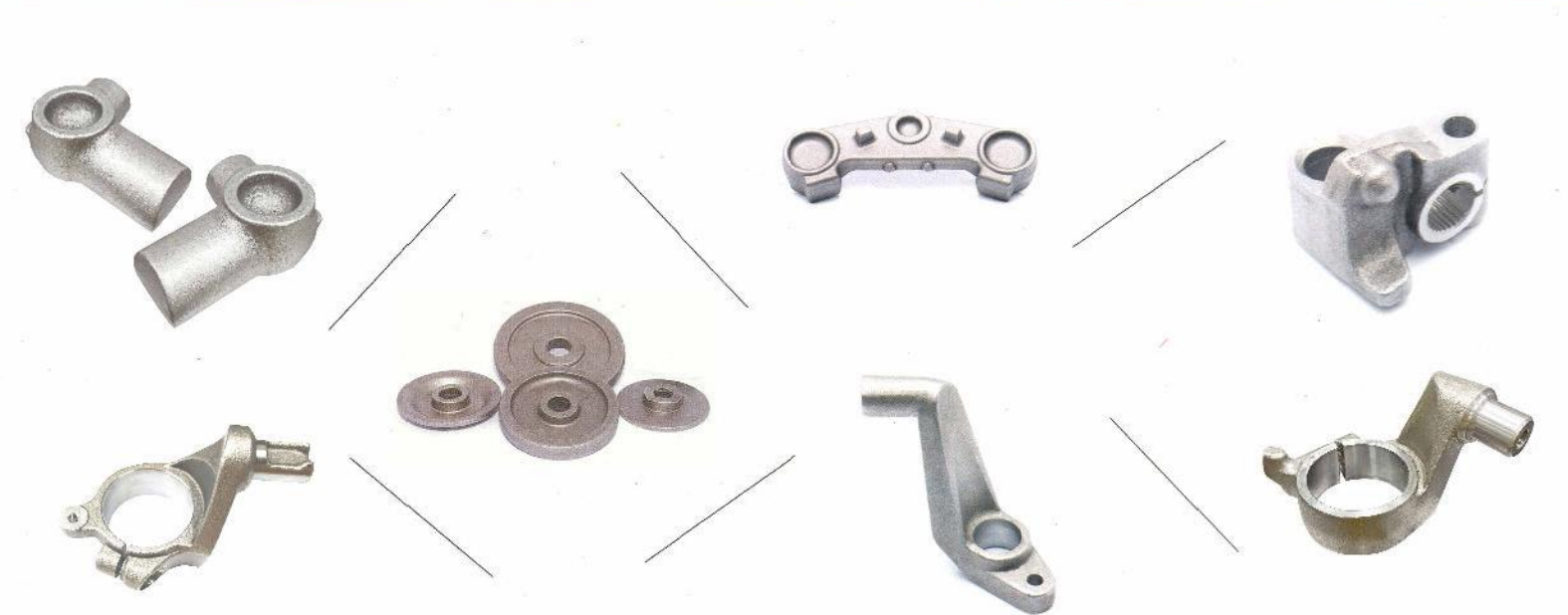


INTERMESINDO, with its outstanding resources, is capable of producing the most comprehensive range of forging parts to serve a wide variety of industries. The parts shown below are only a small portion of INTERMESINDO'S product range. In fact, INTERMESINDO is capable of product forging parts according to the drawings or samples offered by customers.

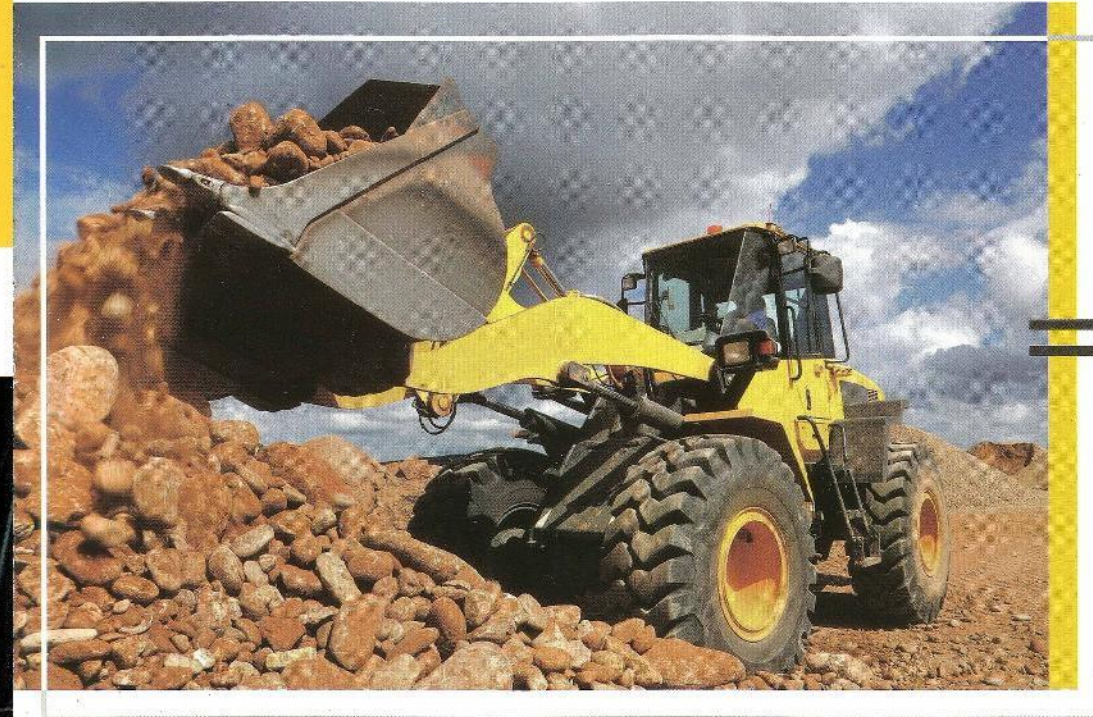
Serving a Wide Range of Industries:

- Construction parts
- Construction machine parts
- Automobile parts
- Motorcycle parts
- Forging parts for other industries

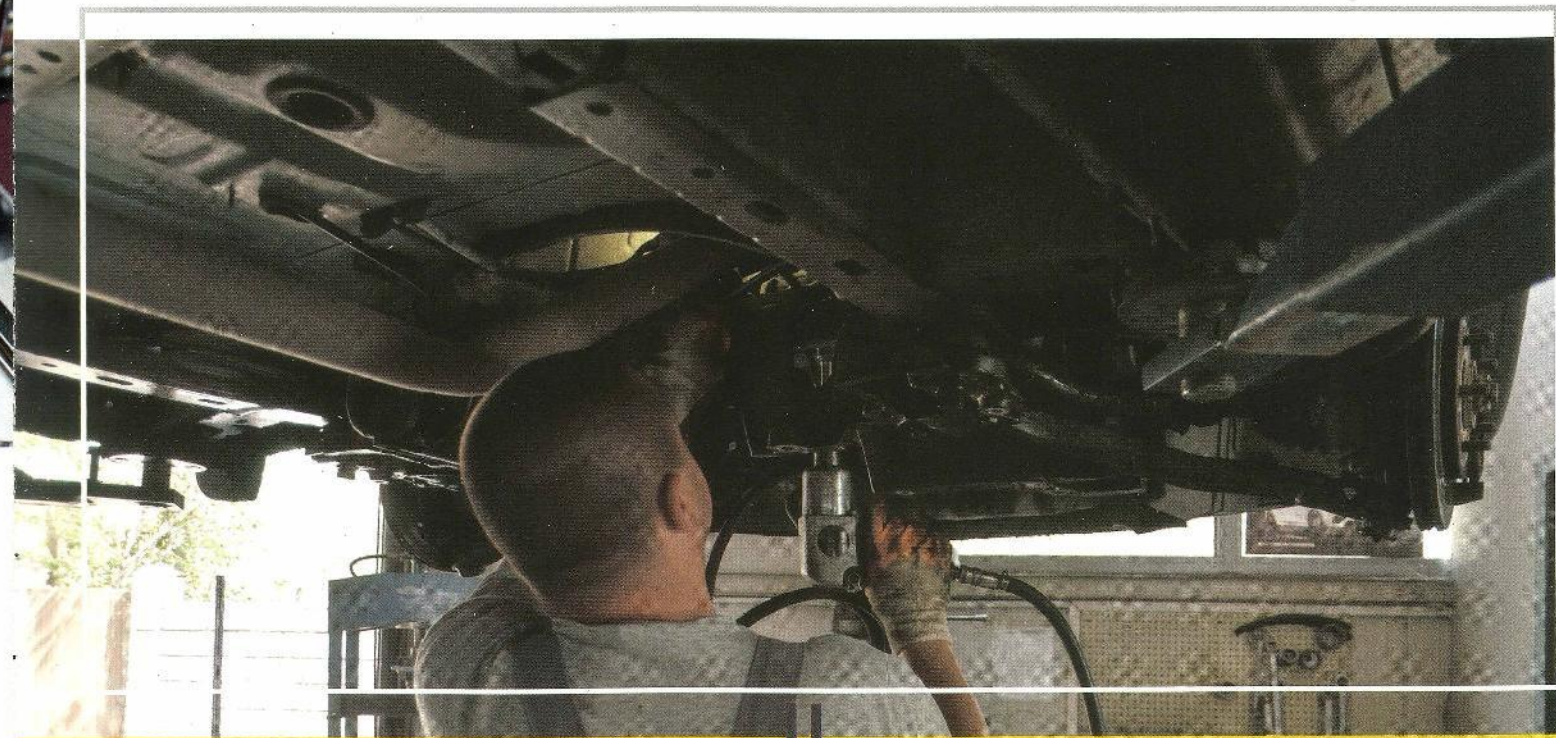
Motorcycle Parts



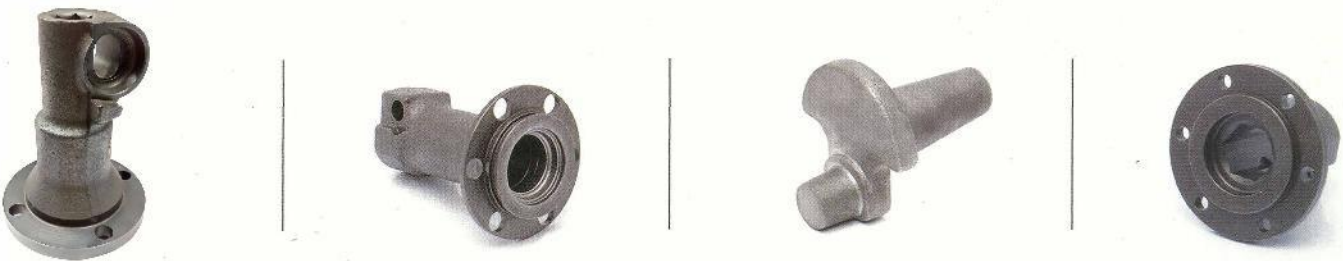
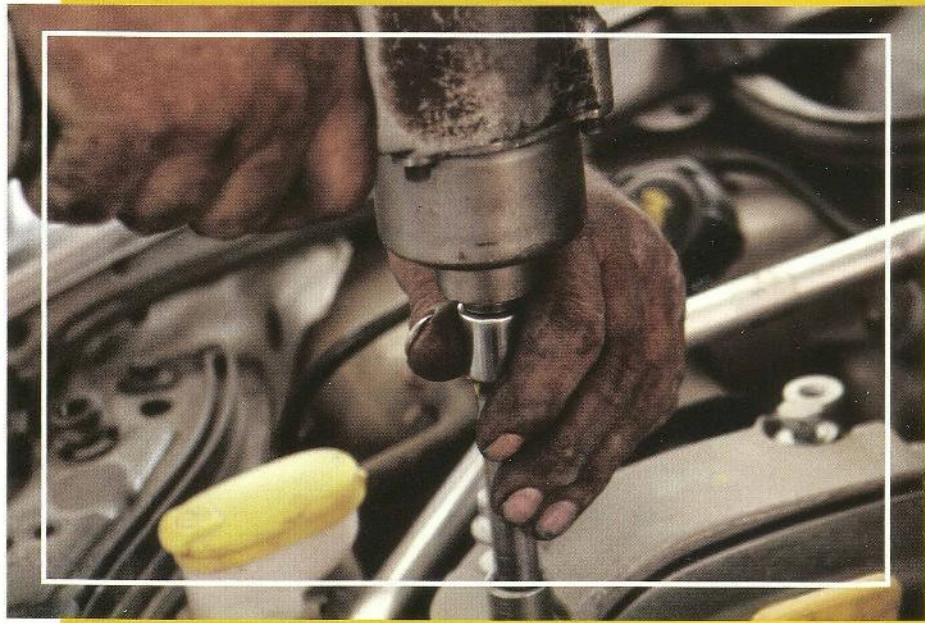
Construction Machine Parts



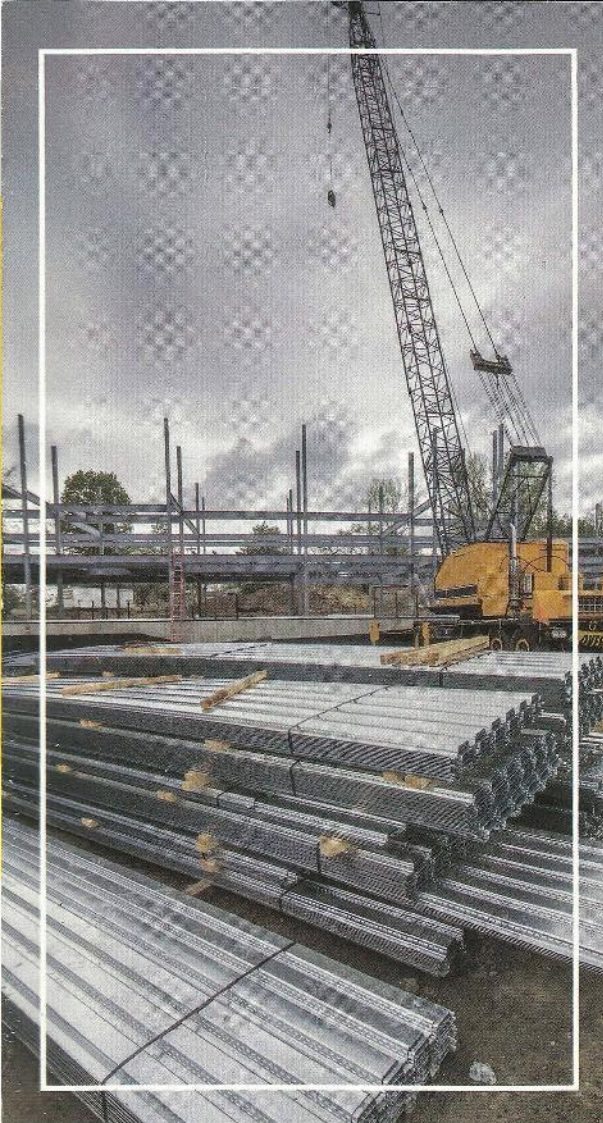
Automotive Parts



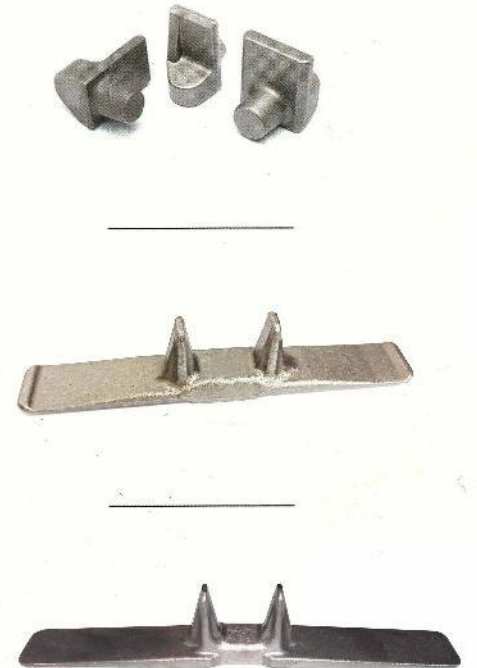
Power Tools



Forging Parts for Other Industries



Construction Parts



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