










**Better Quality  
Brighter Future**



### *The advantages of forged aluminum wheels*

-  Have lighter weight about 1/2 as much as steel wheels.
-  Fuel economy. Forged aluminum wheels are lighter in weight, which, easily increase accelerating performance and decrease braking energy demand, and correspondingly save fuel.
-  can reduce tire wear. Quicker heat dissipation disables aging of brake drum and tyre, increase their longevity and reduce the possibility of tyre burst.
-  Can reduce the maintenance cost of brake. Forging aluminum wheels are characteristic of quick heat dissipation, so can well protect braking system and parts which are made of materials not quite resistant of high temperature, hence greatly reduce the maintenance cost of brake system.
-  Higher loading capacity. Compared with steel wheels, forging aluminum wheels have higher loading capacity five times as much., thus enable more steady running.
-  Can expand the engine longevity. Forged aluminum wheels can reduce engine load, and correspondingly reduce breakdown and can ensure better contrabability.
-  Have a higher strength of resistance. When under the same impact of external force, forged aluminum wheels suffer far less damage than steel wheels.



# USE SUPERIOR QUALITY TO CREATE OUR FUTURE.

We focus on enthusiasm and advanced technology  
To produce more safe, comfortable,  
and environmentally-friendly aluminum wheels.  
New galloping, new trend!



of Dicastal Hongxin's products, the 225/62R16S truck wheel had successfully passed the test held by SMITHERS SCIENTIFIC SERVICES in USA. Starting from 2008, to become a wheel supplier for the U.S OEM market is Hongxin's second goal. By keeping good relationships with our valued customers to expand the worldwide marketing development, Dicastal Hongxin wheels now has been sold to North & South America, Europe, Australia, Africa, and Etc..

- With sincere promise and considerate service, Dicastal Hongxin would like to co-operate with the experts from different aspects in able to create a bright future and establish the business relationships with the customers.



[www.dicastal.com](http://www.dicastal.com) | 400-818-1004

# Production Process



Good works come from good attitude

## 1 Raw Material Cutting



Material Used: alloy aluminum 6061

## 2 Material Preheating



Automated pre-heat billet system

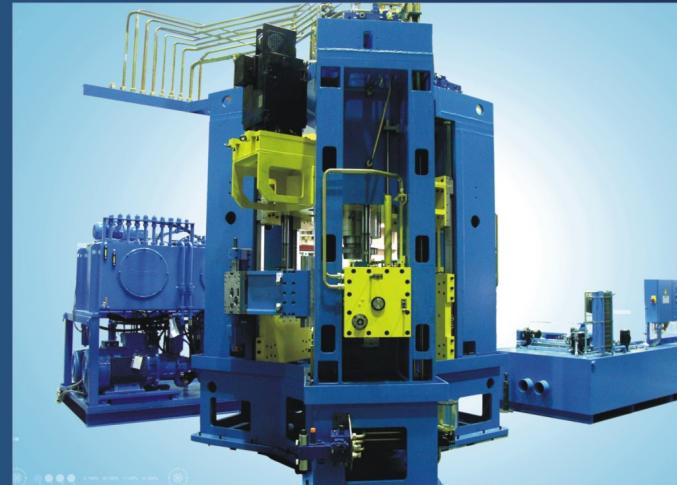
## 3 Rotary forging machine

Having same effect as press machine with 8000-ton press of material

- Cycle time:
- Car wheel: 60s/PC
  - Truck wheel: 70-80S/PC



## 4 German vertical flow forming machine



- 3 rollers with 25-ton press for each



Product after Flow Forming

- Cycle time:
- Car wheel: 90s/PC
  - Truck wheel: 70-75S/PC

## 5 Heat Treatment



T4 & T6 Heat Treatment System

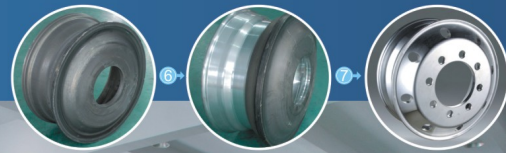
# Production Process



## POWERFUL ADVANCED TECHNOLOGY



Our company owns high-precision numerical control machine tools and processing centers, advanced equipments and detectors, superior crafts and strict and sound quality management system. We also assemble a group of professional technique elites and leading scientific and technological personnel, making full use of the new technology, new crafts and new materials to ensure the stability and reliability of our products.



### Computer-controlled machining Equipments

- Are capable of processing 26-inch wheels

© Dynamic Radial Load Endurance Tester

© 30° Impact Resistance Tester

© 13° Impact Resistance Tester



© Dynamic Cornering Fatigue Tester

## CURRENT TESTING EQUIPMENT

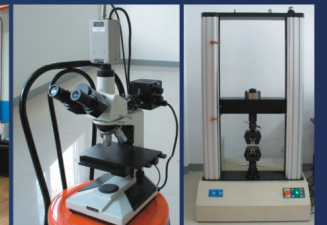
- In accordance with VIA(Japan), SFI(USA), ISO Standards
- Approved by VIA Japan, SFI(USA), and TUV
- Automatic control, High precision



ARL 3460 optical emission spectrometer



XYZ Shadowgraph



Met allographic microscope Materials tensile testing equipment