

# KUANI GROUP

SINCE 1980

Power Tools

- Manufacturing

- Testing & Certification

Components

- OEM ODM



Kuani Gear Co.,Ltd

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kuani.com product channel

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# 8 BUSINESS DIVISION

## 3 MAIN SERVICES

**5**  **Production Facilities**

**400+**  **CNC Machines**

**200+**  **Patents**

**45000+**  **Power tools / month**

## ABOUT KUANI

KUANI was founded in 1980, and started out as a gears and components manufacturer. In 1985, the first impact wrench, model KI-851, was launched to the market. Since then KUANI has been growing and expanding its business.

Nowadays, KUANI owns production facilities that are 43,000sqm and above with more than 500 skilled staffs to meet each client's demand. Currently, KUANI Group has expanded its business units as a production chain system including metal processing, investment casting, forging, die casting, metal heat treatment, plastic injection molding, rubber molding, coating, and laboratory testing. As an Original Equipment /Original Design manufacturer with strength of vertical integration, KUANI offers total solution as one-stop shop provider.





# THE CHRONICLE OF KUANI

• Kuani Gear was established



• Kuani produced the KI-853, as second manufacturer in the world that make "Twin Hammer" air impact wrench



• Headquarters was set up in Taipei



• Guang-Zhou Kuani Trading Co Ltd was established



• Gihson Industry was established



• The You -San factory was established



• Kuani Die Casting Industry Co Ltd was established  
• Kuan-Chuan Forging Industry Co Ltd was established  
• Duns & Bradstreet certified member



• Kuani Plastic Injection Molding Department was established  
• Won the Taiwan Excellence Award



1980

1985

1989

1990

2000

2005

2006

2010

2011

2014

2015

2017

2018

2019

2020

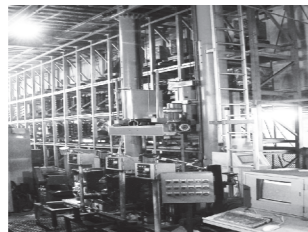
2021

2022

• Kuani produced first impact wrench KI-851



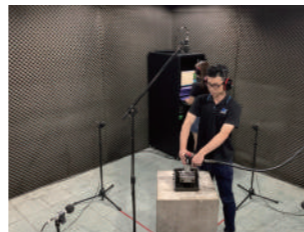
• The Miao-Li factory was established



• The You-Shi factory was established  
• Acquired of ISO 9001



• Kente Co Ltd was established  
• ISO 9001/17025 certification



• Kuani Precision Casting Industry Co Ltd was established



• Kuani Coating was established  
• Kuani's air Impact Wrench - KI-1480 awarded "THE NATIONAL BRAND YUSHAN AWARD (The Best Product)"



• KI-2325 awarded "The National Brand Yushan Award (The best product)"  
• Kuani Heat Treatment was established



• The You-Er factory was established  
• Won the Taiwan Excellence Award

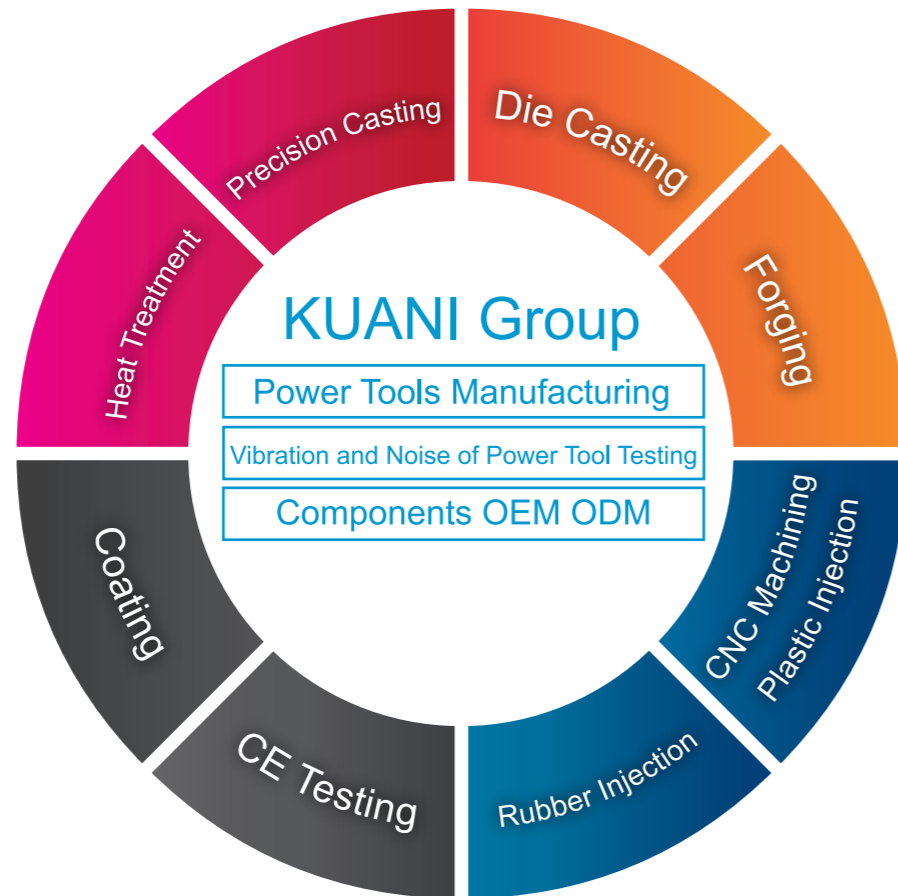


# OUR SUBSIDIARIES

2 PRODUCT LINES

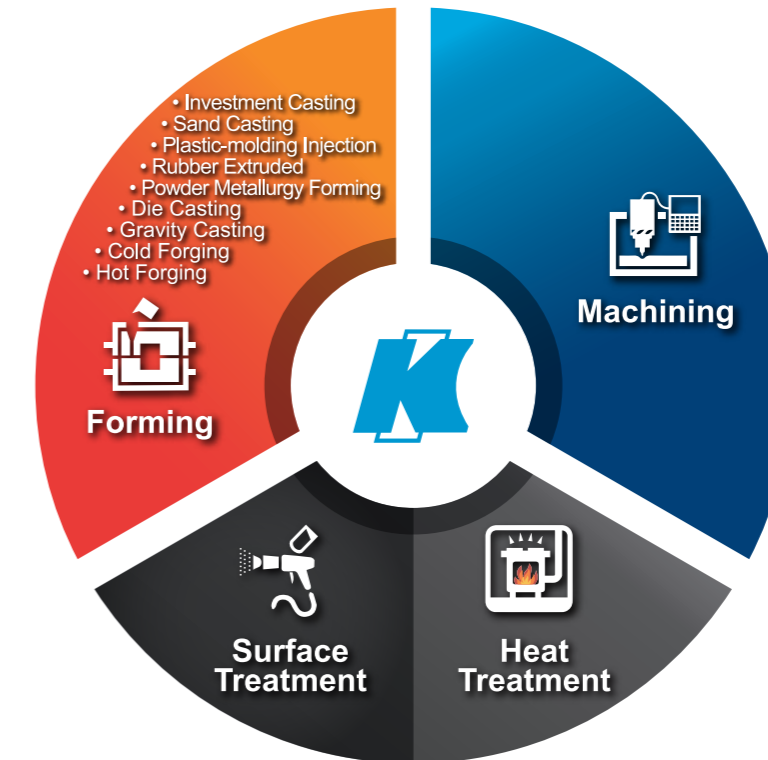
3 MAIN SERVICES

8 BUSINESS DIVISIONS



# RESOURCE INTEGRATION

Kuani Group contains 8 major business units and professional collaborating plants as a complete planet production system. Via effective source integration, Kuani provides variety of production services to reduce time consumption of out sourcing production. Moreover, it is more likely to reach client's demands of total quality control and satisfying lead time.







# QUALITY MANAGEMENT

Quality is the core of the product and the product presents company's identity. Kuani implants dual-system (ISO 9001 & IATF 16949). According to PDCA, the procedure starts from implanting pre-product planning to entering client's demand based on his/her request to run system flow chart. By implanting 5 core management tools ( APP-FEMA-SPC-MSA-PPAP) to monitor the uncertainty and the risk factor, it remarkably increases effectiveness and values of each process to meet client's satisfaction of high quality standard.







## KUANI GEAR - MANUFACTURING DIVISION OF POWER TOOL

As a market leader in the power tool industry for over 40 years, KUANI is specialized in manufacturing pneumatic, hydraulic, and cordless tools. With remarkable R&D engineers, advanced capabilities, and comprehensive quality management system, KUANI offers the best suitable and professional solutions to its clients worldwide.

### Advantage

#### High Ratio of Self-Manufactured Component

Over 85% of parts in all our products are made by KUANI's own supply chain. Core components are 100% made by KUANI Gear.

#### Monthly Capacity

45,000 power tools/month

#### Design & Patent

200 and above International Patents



# KUANI GEAR - MANUFACTURING DIVISION OF POWER TOOL

## Quality Management

### Quality Management System

ISO 9001:2015 Certification  
IATF 16949:2016 Certification

### Products Safety

Every tool from KUANI complied with the Machinery Safety Directive 2006/42/EC.

### Compliance with the Regulation of REACH and RoHS

All parts and materials processed for manufacturing in KUANI complied with the regulations of REACH and RoHS.

### Inspection Instrument

Torque Testing Machine  
Horsepower Testing Machine  
Air Flow Meter  
Tachometer



Digital Torque Testing Machine



Hydraulic Torque Testing Machine

# KUANI GEAR - MANUFACTURING DIVISION OF POWER TOOL

## Products

### Pneumatic Tools

- Thread Fastening Tool
- Cutting tool
- Riveting Tool
- Abrasive Tool
- Coating Tool

### Oil Pulse Tools

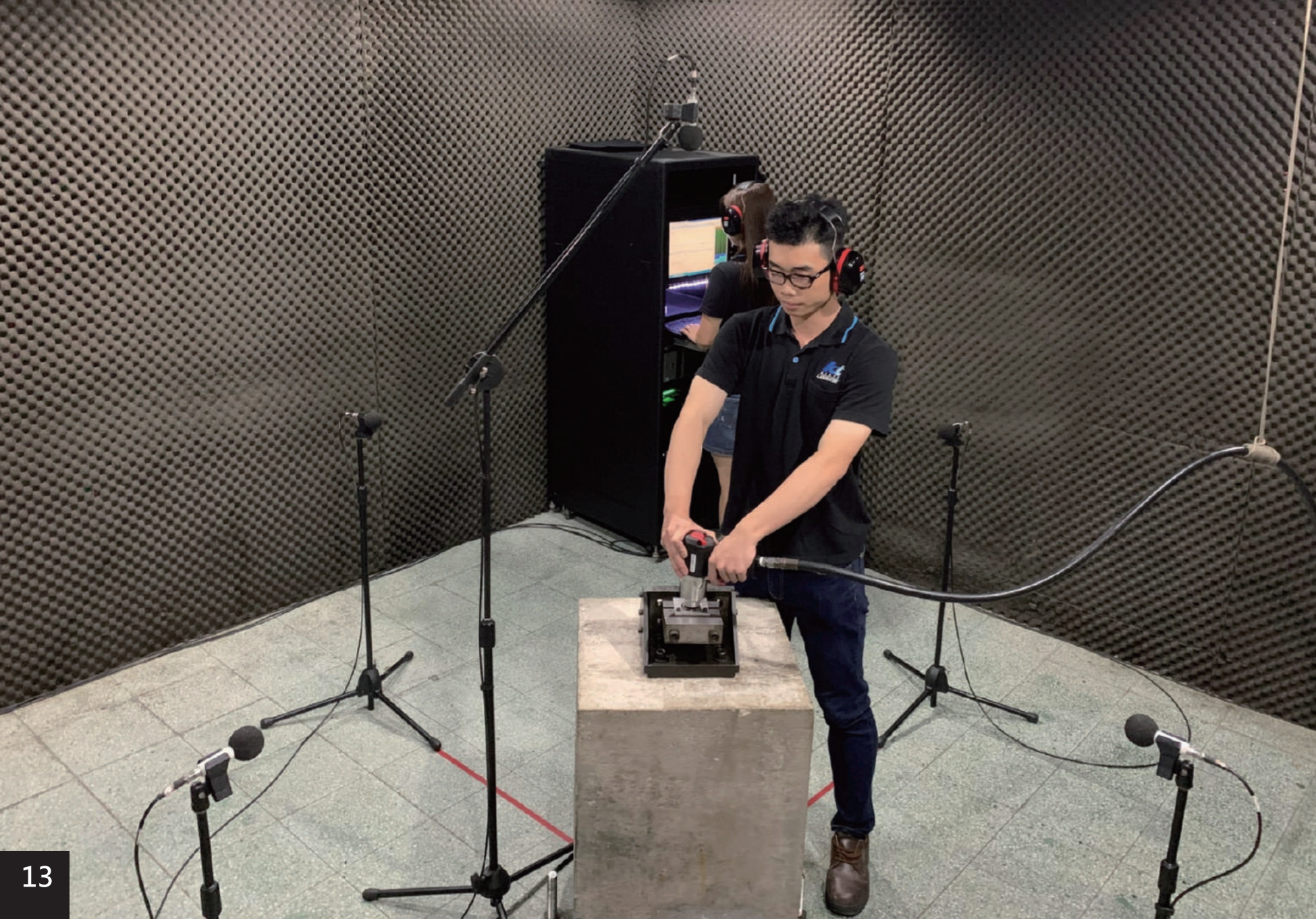
- Thread Fastening Tool

### Cordless Tools

- Thread Fastening Tool
- Cutting tool
- Riveting Tool
- Abrasive Tool







# KENTE CO LTD

Kente Co Ltd is the first Vibration and Noise of Power Tool Testing Laboratory (Accreditation No. 2411) in Taiwan and was established by KUANI Group in 2010. It complies with ISO/IEC 17025 that has been certified by Taiwan Accreditation Foundation (TAF) and ILAC Mutual Recognition Arrangement (ILAC-MRA) .



This laboratory is capable to assess vibration and noise level of portable power tools with following the 2006/42/EC Machinery Directive, ISO 11148, ISO 28927 and ISO 15744.

## Capability

In Taiwan, KENTE is the first certificated laboratory for conducting Vibration and Noise tests of Portable Power Tools with following the ISO standards indicated by CE machinery safety directive 2006/42/EC.

## Test Enviroment

The setup of KENTE laboratory test environment complies with

- The ISO 15744 for measuring the levels of noise
- The ISO 28927 series for measuring levels of vibration emission

## Instrument

To ensure qualified measurements, KENTE adopt the Brüel & Kjær instruments for measuring both sound and vibration. The instruments are annually calibrated by National Measurement Laboratory R.O.C (NML R.O.C.) and the calibration reports are properly filed for tracking.

## Accredited Scope of Testing Field

- ISO 8862-1 General
- ISO 15744 Hand-held non-electric power tools-Noise measurement code Engineering method
- ISO 28927-2 Wrenches, nut-runners and screwdrivers
- ISO 28927-12 Die grinder
- ISO 28927-1 Angle and vertical grinder
- ISO 28927-3 Polishers and rotary, orbital and random orbital sanders
- ISO 28927-9 Scaling hammers and needle scalers





## KUANI GEAR - DIVISION OF OEM COMPONENTS

With over 40 years of experience in mechanical engineering, KUANI can make and modify models, which can dramatically save costs. The process includes investment casting, plastic injection, rubber injection, die-casting, forging, precision CNC machining, coating, assembly, and packaging line.

We also have an advanced laboratory including both metallographic and geometrical feature examination which allows us to strictly control overall quality. As a vertically integrated OE and OD manufacturer, we always offer comprehensive solutions to our customers.

### Advantage

#### Prototyping & Modeling

KUANI has 3D Printer and CNC engraving machines in house for rapid prototyping.

#### Precision Machining

KUANI's component dept. utilizes over 400 CNC machines for various types of lathing, milling, grinding or other customer special requirements.

#### ISO 9001

KUANI is ISO 9001 certified factory to supply quality parts and components for various industries.



# KUANI GEAR - DIVISION OF OEM COMPONENTS

## Manufacturing Equipment

CNC Lathing Machine – around 70 units  
 CNC Milling Machine – around 180 units  
 CNC Grinding Machine – around 80 units  
 Single-Purpose Machine – around 70 units

## Quality Management

Offering various manufacturing processes per client's requirements. Each process follows SOP and SIP specified in ISO 9001:2015 quality management system.  
 Following ISO 9001:2015 and PDCA (Deming Cycle) workflow to offer quality parts for various industries, so that high reliability can be met.

## Inspection Equipment

Gear profile, 3D CMM, profile meter, 2.5D image measuring instrument, height gauge, Vicker's & Rockwell hardness testers, gear binding machine, surface roughness tester and Roundness Measuring Machine



M32 Sliding Head CNC Lathing



5-Axis Vertical Machining Center



Gear Profile Inspection Equipment



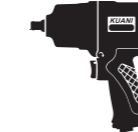
3D CMM

# KUANI GEAR - DIVISION OF OEM COMPONENTS

## Industry Application



Hand Tool



Power Tool



3C Electronics Parts



Parts for Tool Machines



Automotive and Motorcycle



Shipbuilding



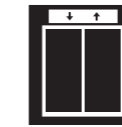
Precision Instrument



Medical Equipment



Heavy Industry



Electrical Engineering







# KUANI PRECISION CASTING INDUSTRY

KUANI PRECISION CASTING INDUSTRY Co. Ltd. (abbrev. as KPI) is a professional investment casting plant employing more than 20-year experienced technicians and qualified engineers in this field. Casting material includes carbon steel, alloy steel, stainless steel, and aluminum alloy. We can also design and make mold for clients. With most modern equipment and tool-making team, starting from raw material, various processes, to finished parts are all made in-house.

## Advantage

### With automatic wax injection machine

To reduce human factors and improve production yield to meet mass production needs.

### Providing after-processing service

We provide precision machining services for various types of castings to meet customers' needs.

## Manufacturing Equipment

### Wax Injection Machine:

Horizontal	2
Vertical	4
Watering Type	1

### Pouring Casting:

High Frequency Melting Furnace	2
Shell Furnace	2

### Shell Mold:

Slurry Dipping	5
Dry Room	6
Vacuum Slurry	1

### Others Equipment:

Vibration Machine	7
Sand Blasting Machine	1



Horizontal Wax Injecton Machine



Vertical Wax Injection Machine



Water Wax Injection Machine



Dry Room



# KUANI PRECISION CASTING INDUSTRY

## Quality Management

We prioritize quality control and continuously make improvements by following ISO 9001:2015 quality management system.

### Inspection Equipments

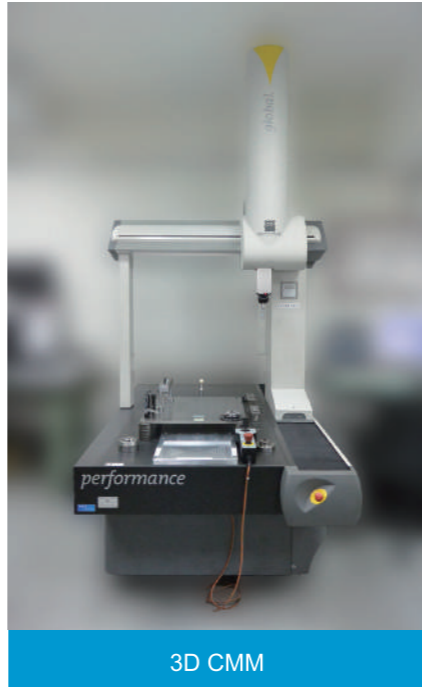
- 2D CMM
- 3D CMM
- Temperture Measuring for Furnace
- Optical Spectrometer
- Electronic Height Gauge
- Hardness Tester
- Universal Testing Machine



Optical Spectrometer



2D CMM



3D CMM

# KUANI PRECISION CASTING INDUSTRY

## Industry Application

Materials used: carbon steel, alloy steel, stainless steel, aluminum alloy



Hand Tool



Power Tool



Hardware



Valve



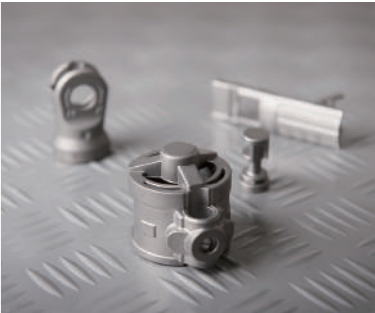
Automotive and Motorcycle



Fitness Equipment



Medical Equipment







TOSHIBA 1250 ton

# KUANI DIE CASTING INDUSTRY CO LTD

With over 30 years of well-experienced team, advanced Japan equipment, and professional know-how, KUANI die casting is one of the leading manufacturers, which serves a wide range of parts for various industries, including general hardware, automotive, and medical.

## Advantage

### Strict Quality Requirement

Use Static Spraying release agent to lower gas porosity and increase tool's lifetime

### Automation Machines

Japanese TOSHIBA die casting machines and FANUC robots

### Finished Part Availability

Combined with integrated processes in KUANI Group, we can offer finish parts

## Manufacturing Equipment

TOSHIBA Die Casting Machine

135 ton x 1 / 250 ton x 3 / 350 ton x 6 / 500 ton x 2  
650 ton x 1 / 800 ton x 3 / 1250 ton x 1

FANUC Robots

1500G Melting Furnace with auto dispensing system  
Suspended sand blasting machine



Melting Furnace



Fanuc Robot



Suspended Sand Blasting Machine



# KUANI DIE CASTING INDUSTRY CO LTD

## Quality Management

Continuously optimizing our quality management to serve our clients with quality products. Each process follows SOP and SIP specified in ISO 9001:2015 quality management system.

## Inspection Equipment

- Optical Spectrometer
- X-ray Analysis
- High Precision Granite Platform
- Height Gauge



X-ray Analysis



Optical Spectrometer

# KUANI DIE CASTING INDUSTRY CO LTD

## Industry Application



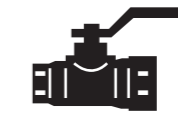
Hand Tool



Power Tool



Hardware



Valve



Automotive and Motorcycle



Bicycle



Agriculture Machinery



Medical Equipment



3C Electronics Parts



Communication Apparatus



Lighting System







# KUAN-CHUAN FORGING INDUSTRY CO LTD

KUAN-CHUAN Forging has more than 40 years of well-experienced team and consists of two professional hot forging production lines. Brand-new forging equipment for precision parts, which can fulfill customer's overall needs.

## Advantage

### One-Stop-Shop to lower cost

Material cutting→  
Heating→Rolling→  
Forging →Cut away  
excessive material

## Manufacturing Equipment

1000 tons X Type Forging Machines  
1300 tons X Type Forging Machines  
FANUC Robot Arms  
Other related production equipment

## Quality Management

ISO 9001:2015

### Inspection Equipments

3D CMM  
Optical Spectrometer  
Roundness Measuring Instrument  
Height Gauge



## Industry Application



Hand Tool



Power Tool



Hardware



Valve



Automotive and  
Motorcycle



Bicycle



Agriculture  
Machinery



Aerospace







# KUANI COATING INDUSTRY CO LTD

KUANI Coating is a professional coating factory with over 10 years of experience offering liquid painting production service. With high-quality coating material and advanced coating profession, KUANI is committed to offering the best solution to our customers.

## Advantage

**Automatic Powder Coating System**  
Follow standard operating procedures to ensure consistent quality, competitive cost, and shorten lead time








## Manufacturing Equipment

Auto Pretreatment Cleaning Equipment  
GEMA Static Powder Coating System  
Automatic Electrostatic Powder Coating Booth  
Disk Liquid Coating Booth  
250°C Thermostatic Furnace

## Quality Management

**Inspection Equipments**  
Cross-Cut method  
Film thickness gauge  
Colorimeter

## Industry Application

-   
Hand Tool
-   
Power Tool
-   
Hardware
-   
Automotive and Motorcycle
-   
3C Electronics Parts
-   
Bicycle
-   
Fitness Equipment







## KUANI GEAR - PLASTIC INJECTION MOLDING DIVISION

With years of experiences in plastic injection molding, Kuani Gear Plastic Injection Division offers professional plastic injection and mold development services. Our plastic injection department upholds the principle of quality as the first priority and follows the standard operation process of ISO 9001:2015 quality system to improve the operation efficiency and control the cost effectively, so as to achieve the maximum economic benefit and create more profit for our customers. The materials used include engineering plastics (PA, POM, PEEK) and soft plastics (TPR, TPEE).



### Advantage

- Insert Molding**  
 Reduce assembly procedures and increase component strength
- Precise Digital Control**  
 Reduce the impact of human factors, greatly improve product yield, and meet the stability requirements of mass production








### Manufacturing Equipment

Injection Machine			
ARBURG	50 ton	x 1	
ARBURG	100 ton	x 1	
ARBURG	150 ton	x 3	
Nan Rong	100 ton	x 1	
Victor Taichung	50 ton	x 1	

### Quality Management

- Inspection Equipments**
- 3D CMM
  - Roundness Measuring Machine
  - 2.5D Projector
  - Height Gage
  - Colorimeter

### Industry Application

						
Power Tool	Hand Tool	Automotive and Motorcycle	Bicycle	Fitness Equipment	Parts for Tools Machines	Lighting System





# GIHSON INDUSTRY

Gihson Industry has more than 11 years of experience. We provide tooling design and fabrication, rubber, molding services. Gihson Industry operates under the ISO 9001:2015 quality system and produces products that are inspected under rigorous testing, including sulfur analysis, tensile, and fatigue tests. We are committed to creating product diversity and continuously improving product quality by meeting the requirements of customized materials.

## Manufacturing Equipment

- Vertical Rubber Injection Machine  
200T x 1  
250T x 1
- Vacuum Compression Molding Machine  
250T x 1  
350T x1
- Rubber Compression Molding Machine  
100T x 1
- Rubber Mixer x 1
- Rubber Cutting Machine x 1

## Quality Management

- Inspection Equipment**
- Rheometer
  - Tensile Testing Machine
  - 2.5D Projector
  - 3D CMM
  - Durometer

## Advantage

- Material meets environmental and safety testing standards
- PAHS & REACH - 219 SVHCs
- Rubber bonded to metal and non-metallic products

## Industry Application







# KUANI METAL HEAT TREATMENT

With more than 30 years of experience, using Oriental's Manufacturing Equipment. Our professional manufacturing team establishes a production process that conforms to the international ISO 9001:2015 certification. With the one-stop-shop system of KUANI Group, we can reduce the time cost, enhance the price advantage, and fully control the quality, delivery, and schedule.

## Advantage

### Understanding the requirements of heat treatment in multiple industries

We specialized in automotive, bearing processing machines, textile machines, and machinery industries with the production knowledge of gears, rollers, shafts, knives, ball screws, slides.

### Providing a variety of comprehensive inspection instruments

Quality standards are tested according to the customer's requirement, and the test methods are in accordance with the hardness standards of various countries.

Rockwell hardness standard HRC, HRA, HRB, HR15N, HR30N, HR45N

Vickers hardness standard HV

Hardening depth E: effective hardening depth

Hardening depth T: full hardening depth

## Manufacturing Process

Feeding → Furnace loading → Cleaning → Carburizing and quenching → Cleaning → In-process Inspection → Tempering → In-process inspection → Quality inspection → Sand blasting → Shipment

## Manufacturing Equipment

Box Vacuum Carburizing Furnace	10
Vacuum Washing Machine	3
Endogas-type Carburizing	1
Tempering Furnace	12
Cooling Equipment	1



# KUANI METAL HEAT TREATMENT

## Quality Management

Our manufacturing process follows ISO 9001:2015 quality management system which providing consistently high quality products and enhancing production capability. With the manufacturing experience in multiple industries, our optimized supply chain management system allows us to establish global standard service.



Metallographic Microscopy



Grinder



Miniature Hardness Tester



Rockwell Hardness Tester

# KUANI METAL HEAT TREATMENT

## Industry Application



Hand Tool



Power Tool



Agriculture Machinery



Parts for Tool machine



Automotive and Motorcycle



Shipbuilding



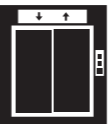
Precision Instrument



Medical Equipment



Heavy Industry



Electrical Engineering



Linear Slide



Food Machinery

