

KUANI GROUP

SINCE 1980

Power Tools

- Manufacturing
 - Testing & Certification
- Components
- OEM ODM



Kuani Gear Co.,Ltd

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product channel

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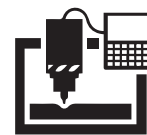
8 BUSINESS DIVISION

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









- Kuani produced first impact wrench KI-851



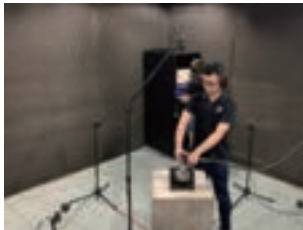
- The Miao-Li factory was established




- 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

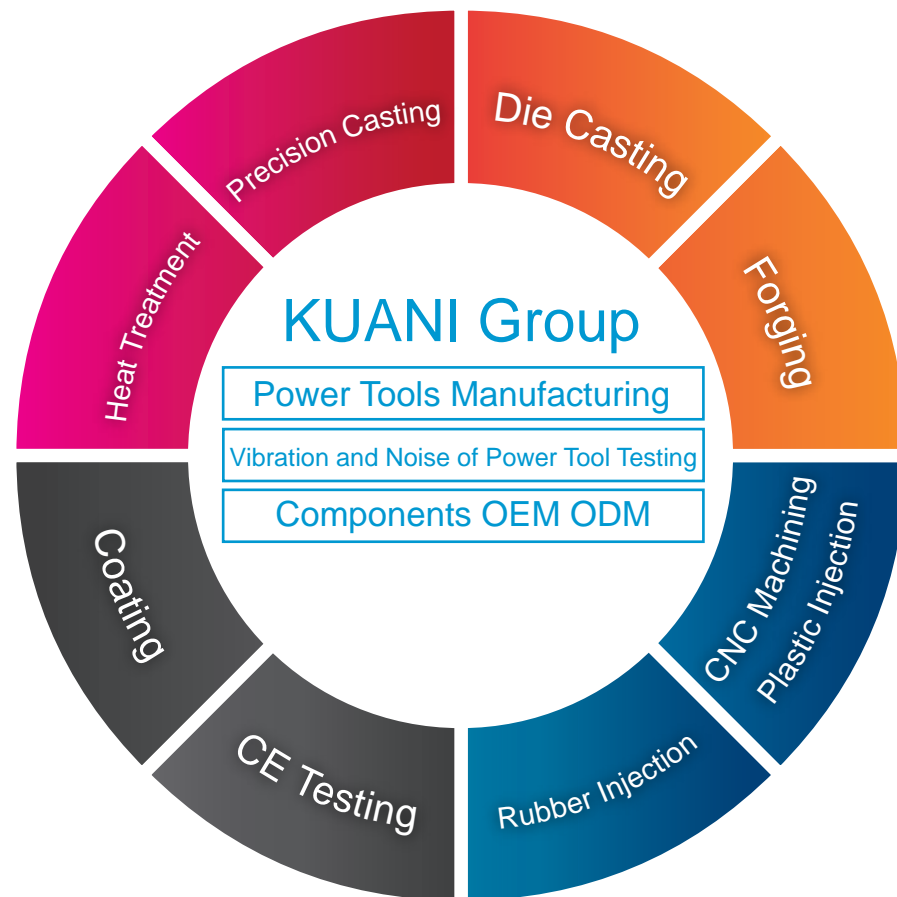


OUR SUBSIDIARIES

2 PRODUCT LINES

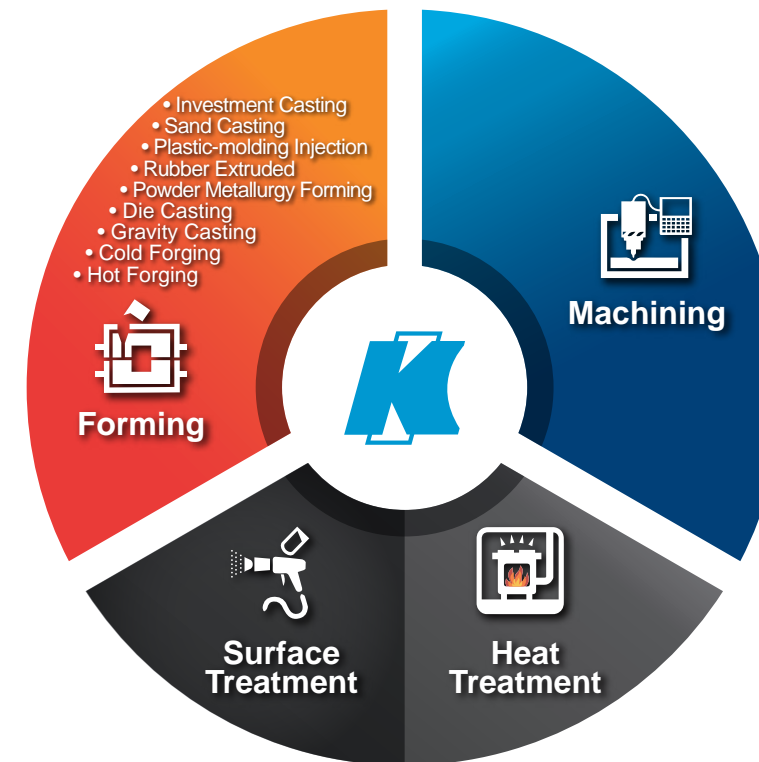
3 MAIN SERVICES

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). 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

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

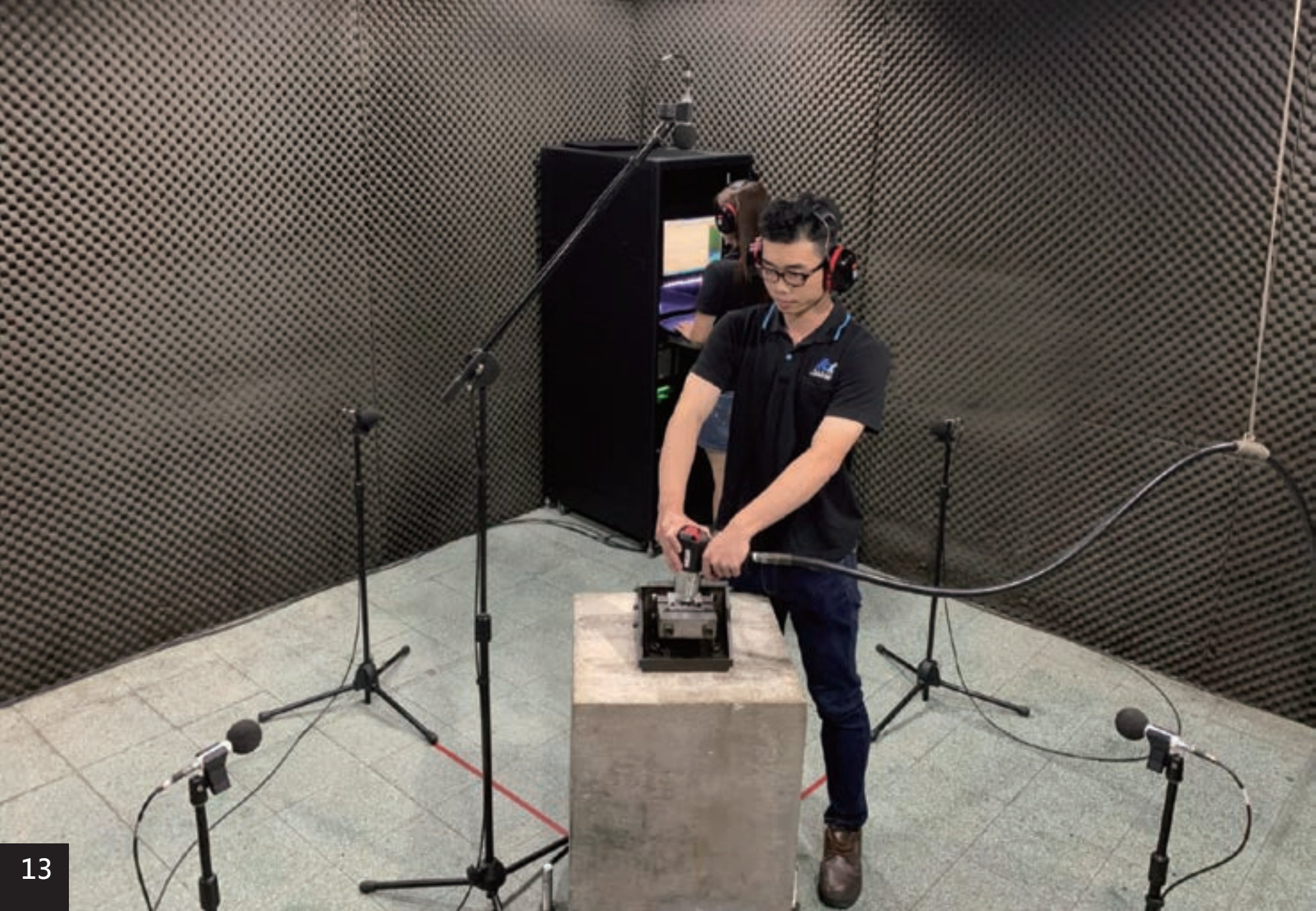
Oil Pulse Tools

- 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 28927-12
Die grinder | • ISO 28927-1
Angle and vertical grinder |
| • ISO 15744
Hand-held non-electric power tools-Noise measurement code Engineering method | | • ISO 28927-3
Polishers and rotary, orbital and random orbital sanders |
| • ISO 28927-2
Wrenches, nut-runners and screwdrivers | | • 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



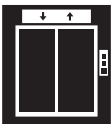
Precision Instrument



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
- Vertical
- Watering Type

Pouring Casting:

- High Frequency Melting Furnace
- Shell Furnace

Shell Mold:

- Slurry Dipping
- Dry Room
- Vacuum Slurry

Others Equipment:

- Vibration Machine
- Sand Blasting Machine



Horizontal Wax Injection 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

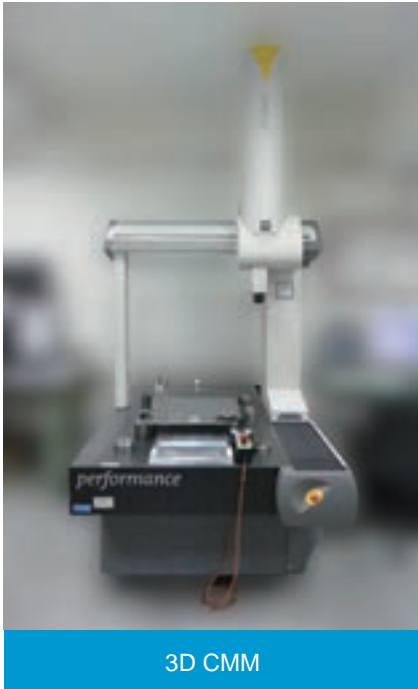
- 2D CMM
- 3D CMM
- Temperture Measuring for Furnace
- Optical Spectrometer
- Electronic Height Gauge
- Hardness Tester
- Universal Testing Machine



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



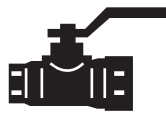
Hand Tool



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 x 1
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



Automotive and
Motorcycle



3C Electronics
Parts



Bicycle



Power Tool



Hand Tool



Agriculture



Parts for
Tool Machine



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



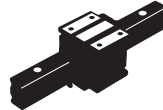
Medical Equipment



Heavy Industry



Electrical Engineering



Linear Slide



Food Machinery

