



Precision Wire Specialists  
Fastener Manufacturers 2025



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01

# Company Profile



## Ningbo PAL International Trading Co., Ltd. :

Ningbo PAL International Trade Co., Ltd. is a company established in 2008, primarily engaged in the import and export of goods and technologies, either as a self-operated business or as an agent. With annual sales ranging from 500 to 600 million RMB (70 to 85 million USD), the company has over 15 years of experience in exporting fasteners and metal wire products. Its products are sold to more than 150 countries and regions worldwide. The company has participated in numerous domestic and international trade exhibitions, earning a strong reputation among its customer base.

## OUR GOAL :

100% Satisfaction from customers ,the defectiverate of non-standard product is 100 PPM.



Ningbo Sunrise Refined Metal Wire Material Co., LTD, mainly engaged in wire restructuring, processing, finished wire sales, fastener production and sales.

Raw materials are provided by well-known steel mills such as Baosteel and Xingsteel, and can also be designated by customers. The materials are alloy steel, bearing steel, easy cutting steel, high-quality carbon structural steel, low alloy high strength structural steel and so on.

The company has introduced ten spheroidizing furnishing units from Taiwan, dozens of wire drawing equipment, and two advanced automatic phosphating pickling lines, and hired senior engineers from Taiwan.

Ningbo Sunrise can meet the high quality requirements of customers from raw materials to finished products.



Rooted in Ningbo, China's manufacturing heartland, Yonggang Fastener Manufacturing (formerly known as Xinxing Fastener) operates as a partner production facility of Ningbo PAL International Trading Co., Ltd. With over 20 years of expertise in R&D, production, and sales of high-end fasteners, we deliver precision-engineered standard and customized solutions to global industries including automotive, machinery, new energy, aerospace, and construction.

Equipped with fully automatic cold heading machines, multi-station precision processing lines, and intelligent heat treatment systems, achieving  $\pm 0.01\text{mm}$  tolerance control;

Proprietary ERP+MES integrated management system ensures end-to-end digital traceability and quality control from raw material procurement to finished product delivery.

Products comply with DIN, ANSI, JIS, and other international standards, meeting stringent requirements for automotive and renewable energy applications;



**FACTORY  
ACREAGE**



**ANNUAL  
PRODUCTION  
CAPACITY**



**ADVANCED  
EQUIPMENT**



**ONLINE  
SERVICE**



**PRODUCTION OF CUSTOMERS  
APPLICATION:**

The products mainly serve all kinds of fasteners, special-shaped parts, automotive fasteners, wind power, oil and other high-end fields.

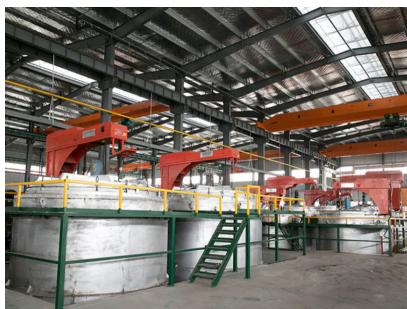
02

# Environmental Display

# Testing Equipment



# Production Equipment



03

# Products Display

# Wire Rod

## Material type:

Materials are alloy steel, bearing steel, free cutting steel, high quality carbon structural steel, low alloy and high strength structural steel.

## Industry application:

The products mainly serve all kinds of fasteners, special-shaped parts, automotive fasteners, wind power, oil and other high-end fields.



# Bolts and Nuts



## Definition:

Mechanical parts, cylindrical threaded fasteners for nuts.



In terms of size, we have a wide range of production sizes to meet the needs of a variety of different applications. Our advanced production equipment and technology ensure the dimensional accuracy and consistency of each bolt and nut, thereby increasing the reliability and efficiency of the connection.

In terms of grades, we produce bolts and nuts in a wide range of grades, including special grades such as high strength, corrosion resistance and high temperature resistance. Our bolts and nuts undergo strict quality control and testing to meet international standards and industry specifications to meet the requirements of a wide range of applications.

# Auto Parts

## ✓ **Definition:**

The individual units that make up the whole car and the products that serve the car.



## ✓ **Function:**

Different auto parts function is not the same and our company mainly manufactures and sells fasteners for vehicles. We can provide a PPAP certificate.



# Wood Screws

## Description:

Wood screw is a screw specially designed for wood connection. They usually have a larger head, which helps provide a better grip in the wood, and the nail body comes with a sharp tip for easy penetration of the wood..

Wood screws have thread diameters ranging from 1.6mm to 20mm, and the GB/T 922-1986 standard is used to ensure their performance.

**Furniture production:** Used to assemble a variety of wooden furniture, such as tables, chairs, cabinets and so on.

**Building decoration:** In the construction industry, wood screws are used to fix wooden structures, such as roof trusses, floors, doors and window frames.

**Decoration and repair:** For home improvement and decoration projects, such as hanging pictures, fixing skirting, installing wood trim, etc.

**Woodworking projects:** In woodworking DIY projects, wood screws are the basic tools to connect wood, such as making birdhouses, garden furniture, etc.



# Flat Washers



## Definition:

A thin, flat metal or plastic ring, usually used to disperse the pressure of a bolt or nut to prevent loosening or damaging the connecting parts.

## Function:

Reduce friction, prevent leakage, isolate, and prevent loose or dispersed pressure.

# Products Album



# Photovoltaic Bracket

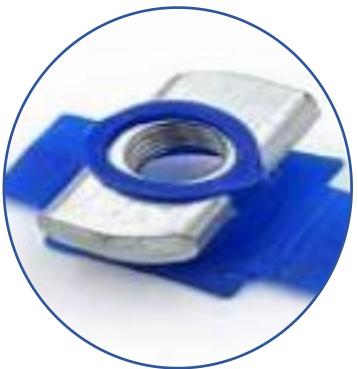
Photovoltaic bracket is an important part of photovoltaic power generation system, it is mainly used to fix and support photovoltaic panels, to ensure that the panels can be stably installed on the roof, the ground or the facade and other positions, and according to the best Angle towards the sun to obtain the maximum solar radiation energy. The design of photovoltaic brackets needs to take into account the installation safety, durability, maintenance convenience and cost effectiveness of photovoltaic modules.



## Advantages:

- Strong compatibility
- Humanized design
- Low cost wide
- Wide range of application
- Easy installation
- Environmental protection

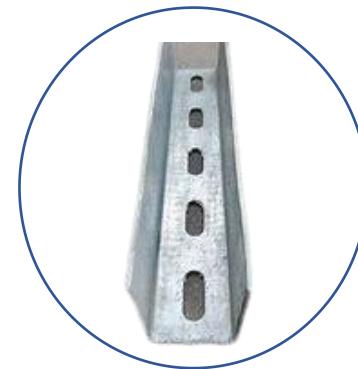




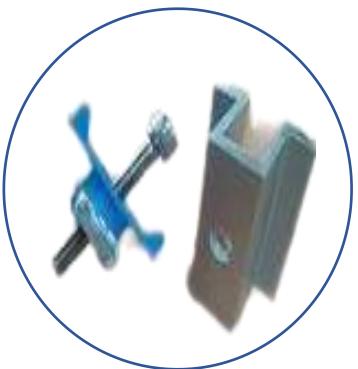
Plastic wing nut



Triangular member



direct connection



edge pressing block



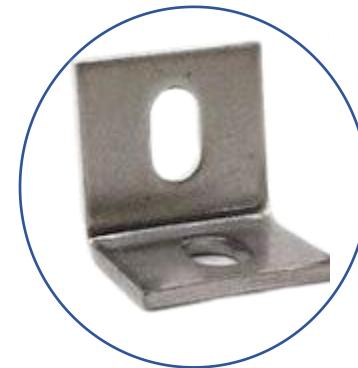
dual-hole base



Film block



medium pressure block



angle bracket



three-hole base

# Machining Parts



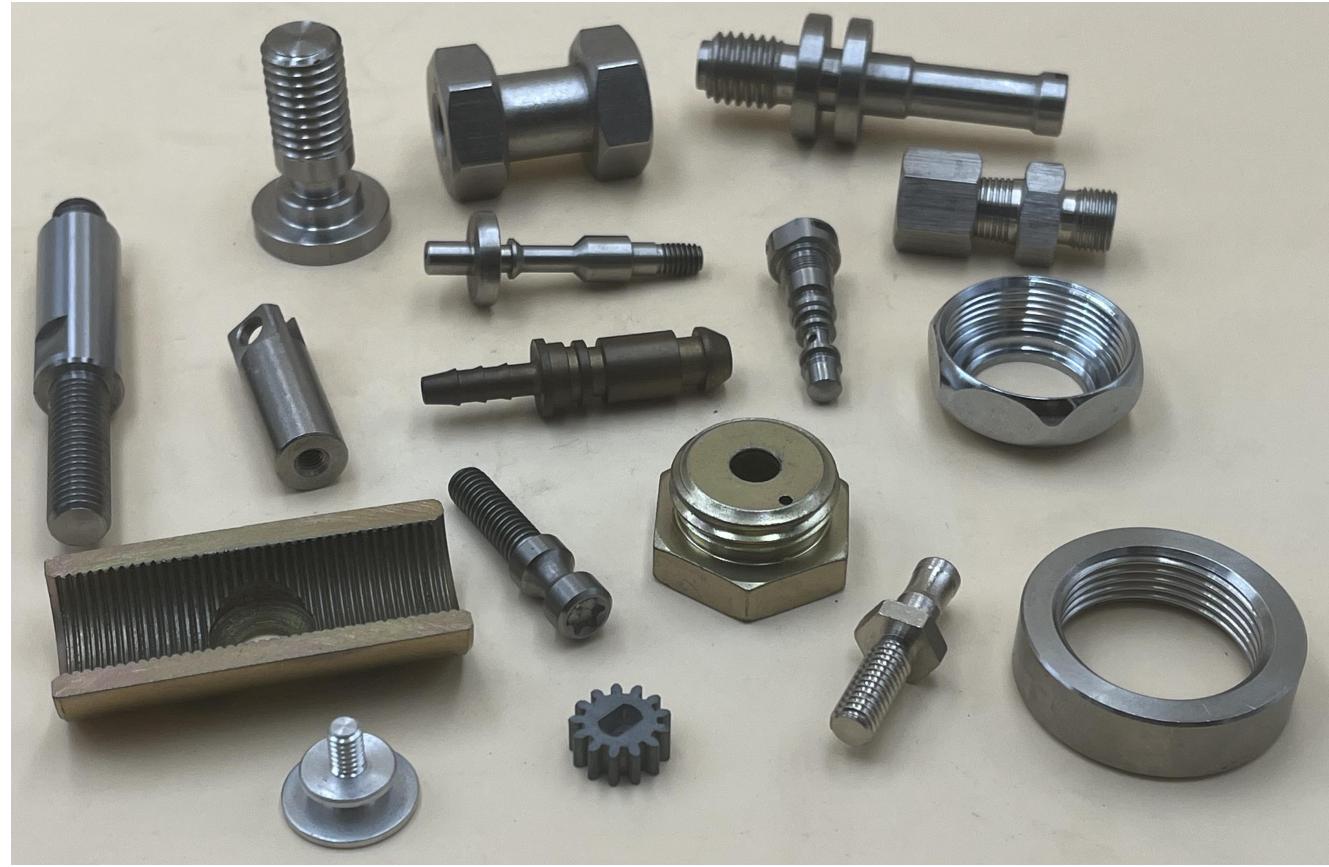
CNC machining is the abbreviation of Computer Numerical Control (Computer Numerical Control) machining, which is a technology that uses computer programs to control machine tools for processing. In CNC machining, the operator can precisely process the workpiece by writing or using the pre-programmed machining program and controlling the machining tool or other tools of the machine tool.

CNC machining can be used for many types of machine tools, including but not limited to milling machines, lathes, grinders, EDM machines, etc. CNC technology greatly improves machining accuracy and efficiency, reduces human error, and can perform well in the machining of complex shapes. Through the use of advanced CNC software, complex 3D shape machining and simulation can also be achieved.

CNC machining is widely used in various fields of manufacturing, including aerospace, automotive manufacturing, mold manufacturing, precision machining, etc., and is one of the indispensable technologies of modern manufacturing.

# Machining Products

(Specific products can be produced according to drawings)



# Product Category

## Grades for Bolts/Studs

IS/ISO/DIN : Grade 4.6, 4.8, 5.6, 5.8, 6.8, 8.8, 9.8, 10.9, 12.9

ASTM A 193 : Grade B6, B7, B7M, B16, B8, B8M, B8T

ASTM A 307 : Grade A and B

ASTM A 320 : Grade L7, L7M, L43

ASTM A 325/ A 490 : Type 1

## Grades for Nuts

IS/ISO/DIN : Grade 4, 5, 6, 8, 10, 12

ASTM A 194 : Grade 2H, 2HM, 6, 7, 7M, 8, 8M, 8T

ASTM A 563 : Grade A, B, C, D and DH

## Finished Wire

Category Steel

Carbon Steel SWRCH22A、08AL、SWRCH35K、  
SWRCH45K

Alloy Steel ML20CR、SCM435...

Boron Steel 10B21、50BV30...

Bearing Steel GCR15、GCR15-L

## Stainless Steel

304 304L

310 316

316L 321

410 420

## Surface Coating

Xylan/PTFE Zinc Plated

Hot Dipped Galavanised Phosphated

Molycoated Silver Plated

Ni-Cad Nickel  
Plated Plated

Why choose us ?

# Complete Industrial Chain



STPE.01  
Buying raw materials



STPE.03  
Drawing material



STPE.02

Material inspection before storage



STPE.04

Cold heading



STPE.05

thermal treatment



STPE.06

Pickling and Phosphate Coating



STPE.07

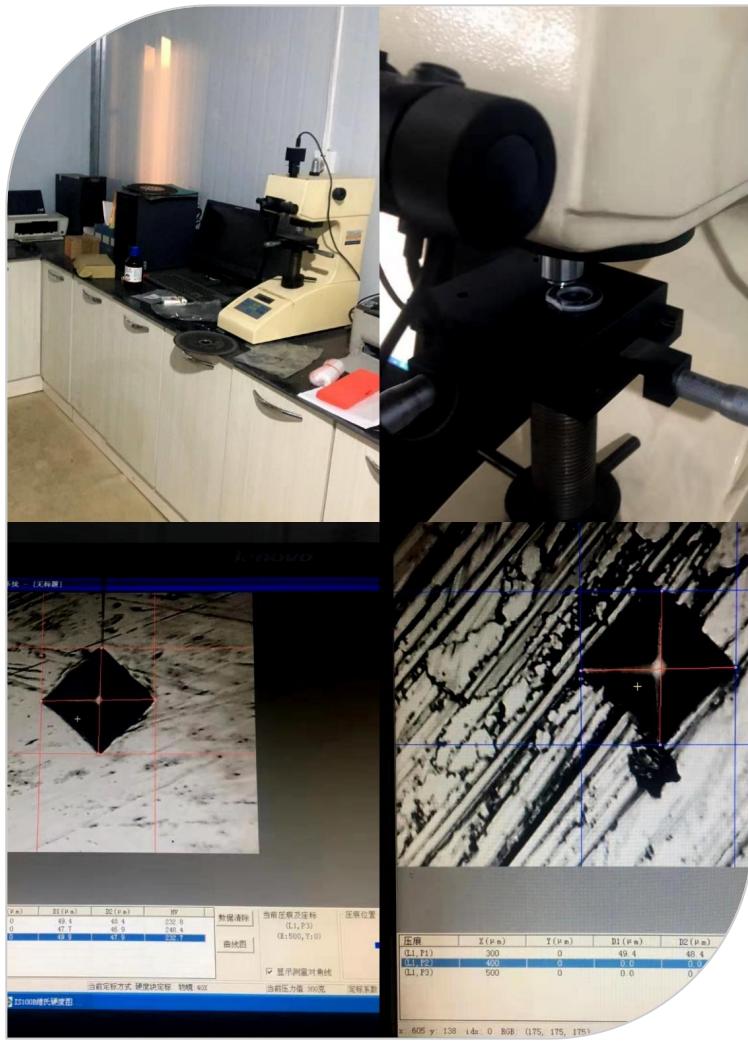
Packing



STPE.08

Transportation





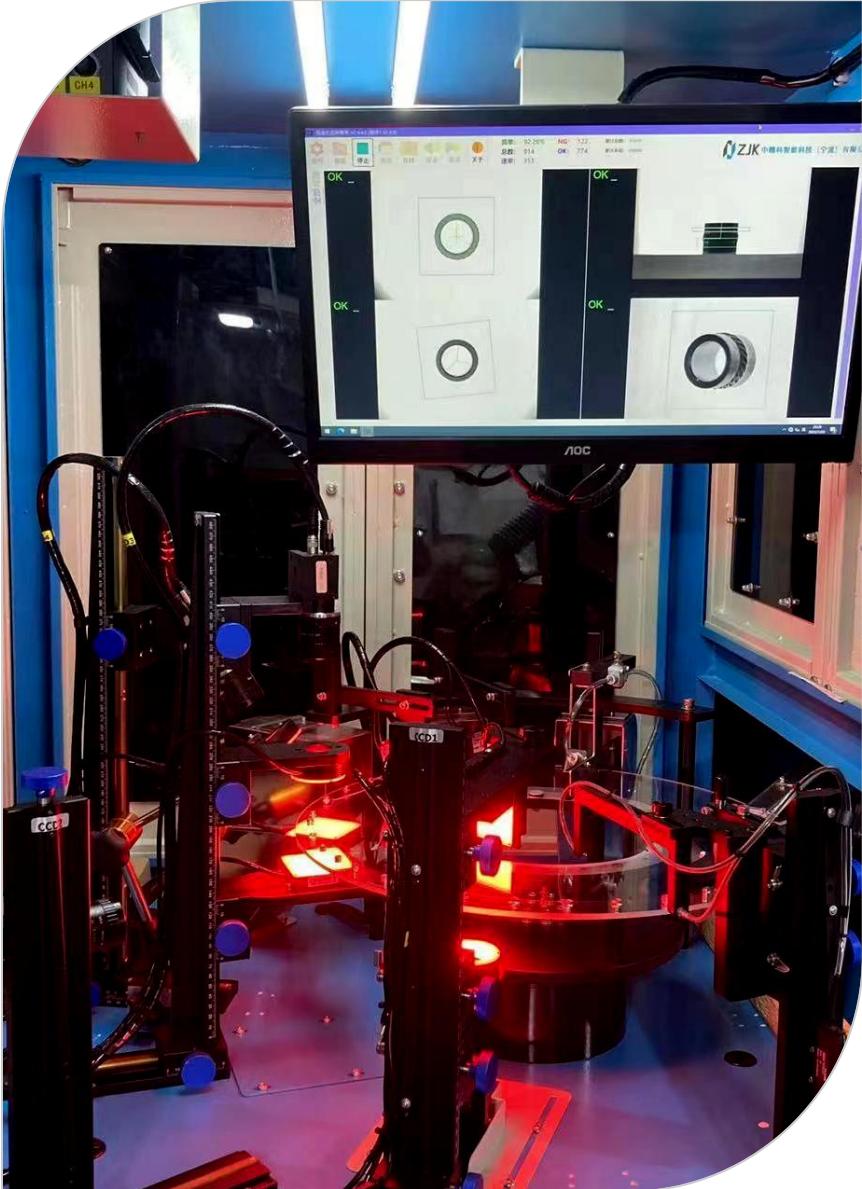
# Preliminary Process

## Raw material inspection:

All raw materials we purchase are strictly inspected to ensure that they comply with international and national standards. This includes a thorough examination of the material's chemical composition, physical properties and dimensional accuracy.

## Production process control:

In the production process, we implement the whole quality control. This includes the supervision and inspection of every production step to ensure that the process and operating procedures are strictly implemented. We use advanced production equipment and technology to reduce human error, and regularly calibrate and maintain the equipment.



# Late Process

## Finished product inspection:

All finished products will undergo comprehensive inspection before leaving the factory, including appearance inspection, dimensional measurement, functional testing, etc. We use high-precision testing equipment and instruments to ensure that the quality and performance of our products meet customer expectations.

# Intermediate Product Inspection:



At all stages of production, we carry out sampling and testing of intermediate products to ensure that they meet design specifications and quality requirements. Nonconforming products are isolated in a timely manner and analyzed and treated to prevent problematic products from flowing to the next stage.



**PALINT'L**  
派尔国际

## Production Environment

We attach importance to environmental protection and implement an environmental management system in accordance with international standards such as ISO 9001:2015. This helps us reduce our impact on the environment and promote sustainable development.

# Quality Restriction



→ **Quality Management System Certification:** Our quality management system is certified to international standards such as ISO 9001:2015 & IATF 16949:2016 . To ensure ongoing compliance and continuous improvement, we undergo rigorous audits conducted by independent third-party certification bodies.

→ **Product certification:** All our products can be customized according to client requirements, providing Material Certification, inspection documents for metal products compliant with EN10204-3.1 standards, and written documentation for the Production Part Approval Process (PPAP).



## Pre-sales Consultation

In the customer inquiry stage, our professional team will provide customers with detailed product selection advice and technical support. We will recommend the most suitable products and solutions according to the specific needs of customers to ensure that customers can get satisfactory service before purchase.



# After-sales Service

After the delivery of the product, our after-sales service team will provide customers with comprehensive technical support services. Whether it is a problem in the process of product use, or a problem in product maintenance and maintenance, our after-sales service team will respond in time to provide customers with professional solutions.



04

# Address Navigation

# Address Navigation



## Exporter:

Ningbo Pal International Trading  
Co.,LTD

Room 1103, Headquarters One,  
No. 555 Rili Middle Road,  
Yinzhou, Ningbo, China. 315199

TEL

0574-28878887

FAX

0574-28831777

## Email

pm@palinternation.com

xander@xinxingfastener.com

# Address Navigation



## Manufacturer:

Ningbo Sunrise Refined Metal  
Wire Material Co., LTD  
Xihe Village, Jiulonghu Town,  
Zhenhai District, Ningbo,  
Zhejiang, China, 315205

TEL:

0086-574-86537516

Email:

[pm@palinternation.com](mailto:pm@palinternation.com)

[xander@xinxingfastener.com](mailto:xander@xinxingfastener.com)

