



## Contact Us



+86 134 124 20118



[info@sppcncmachining.com](mailto:info@sppcncmachining.com)



No. 2, Hengyi Road, Jiatian,  
Xiniuipo, DalangTown, Dongguan, G  
uangdong



**DONGGUAN SPP INDUSTRYA CO., LIMITED**  
**DIXIN TECHNOLOGY (GUANGDONG) CO.,LTD**

[www.sppcncmachining.com](http://www.sppcncmachining.com)



# CATALOGUE

## Company Profile

|                                  |    |
|----------------------------------|----|
| Enterprise Profile               | 03 |
| Development History and Planning | 05 |
| Product Development History      | 06 |

## Business Growth

|                           |    |
|---------------------------|----|
| Sales and Distribution    | 08 |
| International Perspective | 09 |

## Hardware Facilities

|                        |    |
|------------------------|----|
| Dongguan Headquarters  | 11 |
| Sheet Metal Processing | 13 |
| Precision Assembly     | 14 |
| Dalian Factory         | 15 |
| Suzhou Factory         | 17 |
| Chengdu Factory        | 19 |
| Qingdao Factory        | 21 |
| Chongqing Factory      | 23 |

## Quality Assurance

|    |
|----|
| 25 |
|----|

## Honors and Qualifications

|    |
|----|
| 27 |
|----|

## Product Catalog

|                               |    |
|-------------------------------|----|
| Precision Machining Solutions | 30 |
| New Material Solutions        | 46 |
| Mold and Tooling Solutions    | 69 |
| Mounting Solutions            | 81 |

## OEM Equipment

|    |
|----|
| 89 |
|----|



# COMPANY INTRODUCTION

## COMPANY PROFILE

- Founded in 1994
- Headquartered in Dongguan City, Guangdong Province, China
- There are over 700 employees, with engineering and technical personnel making up more than 70%
- Established divisions for precision machining, advanced materials manufacturing, mold and tool manufacturing, and precision assembly
- Certified under ISO9001, ISO13485, ISO14001, AS9100D quality and environmental management systems
- Has applied for a total of 488 patents, with 297 granted



“

### Our Vision:

To invigorate the global manufacturing industry through our work.

”



## CULTURE AND VALUES

- Quality assurance and performance
- Continuous innovation
- Consistency and reliability
- Excellent partnerships
- Customer satisfaction
- Solving complex problems
- Unmatched professionalism
- Employee-centered environment



# DEVELOPMENT HISTORY AND PLANNING



## 1994

SPP INDUSTRY was established.

## 1998

Factories opened in Chongqing and Foshan.

## 2001

Mold and tool manufacturing department was established.

## 2005

SPP INDUSTRY moved to a new address.

## 2008

German office was established.

## 2011

Factory opened in Chengdu.

## 2014

Factory opened in Dalian.

## 2015

Offices established in Thailand and the Philippines.

## 2017

Malaysian office and sheet metal factory were established.

## 2019

Suzhou factory was established.

## 2021

Factory started in Qingdao.

## 2022

Russian office was established.

| LOCATIONS | Headquarters in Dongguan | Chongqing | Chengdu | Dalian | Suzhou | Qingdao | Overseas factories | Total scale |
|-----------|--------------------------|-----------|---------|--------|--------|---------|--------------------|-------------|
| SCALE     | 340000                   | 15500     | 11500   | 16400  | 8500   | 12000   | 13000              | 110900      |

# PRODUCT DEVELOPMENT HISTORY

Over nearly 30 years of development, SPP INDUSTRY has gradually formed four major industrial pillars:

## Precision machining



## New material manufacturing



## Mold and tool manufacturing



## Equipment assembly

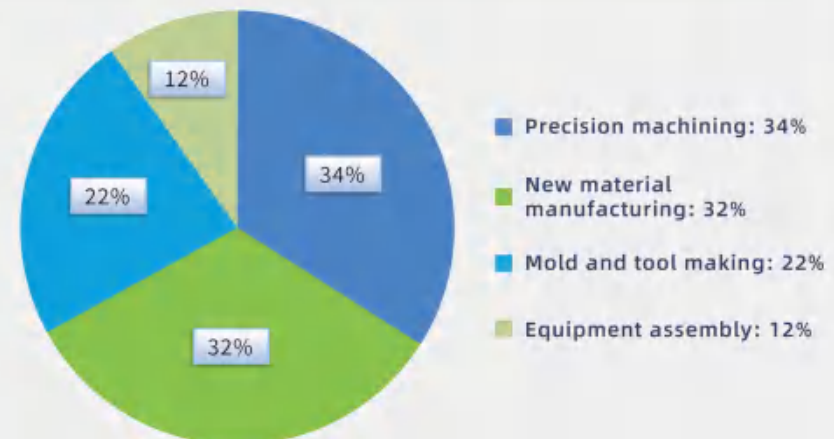


## SALES AND DISTRIBUTION



■ 2021 sales:

**\$ 86,050,000**



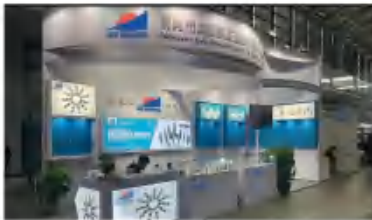
## BUSINESS GROWTH



## INTERNATIONAL PERSPECTIVE

In order to expand its international horizons, SPP INDUSTRY not only established a branch in Germany, but also actively participated in different exhibitions around the world.

Including: Germany, the United States, the United Kingdom, Japan, Singapore, Thailand, Vietnam, France, etc.



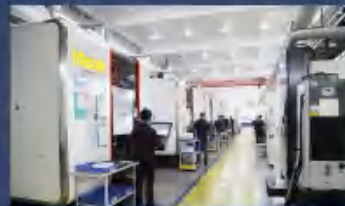
## HARDWARE FACILITIES



## DONGGUAN HEADQUARTERS

**High precision**  
**High complexity**  
**Performance critical**

SPP INDUSTRY is a leading global manufacturer of high-precision, high-complexity and performance-critical components for a wide range of end-use applications.



## Turn your ideas into reality

State-of-the-art equipment combined with experienced engineers. Therefore, we shape your workpiece 1:1 according to the instructions in the drawing!

Material selection: steel, carbide, ceramic, aluminum, plastic, copper, gemstone, titanium, stainless steel, cast iron, special steel or nickel-based alloy

- 3/4/5 axis CNC machining
- Turning and milling
- Grinding
- Spark machine and wire cutting
- Heat treatment
- Deep hole drilling and gun drilling
- Surface treatment
- Cleaning, quality control and measurement



## SHEET METAL PROCESSING

Modern and efficient sheet metal processing from start to finish - all from one source!

We support you in the design and manufacture of sheet metal parts and welded assemblies as individual or series parts.

- CNC laser cutting/CNC punching/laser cutting and welding
- Bending/forming technology
- Welding, riveting, gluing and riveting technology
- Laser engraving



## PRECISION ASSEMBLY

In our headquarters factory in Dongguan, we customize suitable non-standardized equipment, hydraulic equipment, reducers and other machines for customers.

We use an integrated quality control system from machining to assembly, performance testing and painting to provide our customers with the best solutions.





# DALIAN FACTORY

In our factory in Dalian, we are mainly engaged in parts manufacturing services for large-scale CNC machining, forgings and castings.



## Large and precise:

To machine large workpieces with the highest precision, you need not only the right modern technology, but above all a lot of experience and expertise. We have them.

- Vertical CNC turning and large parts processing
- CNC gantry milling machining center
- Large-scale turning and milling compound machining center/roller lathe
- Large grinding machine/large crankshaft grinding machine
- Forged parts and cast parts
- Customization of welded structural parts



# SUZHOU FACTORY

In our factory in Suzhou, we are mainly engaged in the manufacturing of gears, splines and transmission components.

We cover various manufacturing process technologies for external gears, internal gears and splines for the production of toothed components.

The manufacture of high-quality gears and keyways is part of our service portfolio - keeping your gears turning.

- Gear hobbing/gear milling/gear shaving/gear grinding technology
- Heat treatment/nitriding furnace
- Precision grinding/spline grinding/worm gear grinding machine tools
- Keyway/Broaching machine
- CNC turning and milling
- Gear measuring instrument/meshing instrument



## REPRESENTATIVE PRODUCTS

We also design, repair and manufacture gearboxes at our Suzhou factory.

We have over 20 years of experience in manufacturing OEM and ODM gearboxes and components for the wind, hydro, oil and gas, mining, nuclear, precision engineering and other industries.



# CHENGDU FACTORY

In our factory in Chengdu, we are mainly engaged in precision grinding and honing CNC machining services.

## The Art of Grinding - Precision Determines

Versatile facilities and technical expertise to meet the most diverse customer needs.  
Tolerances up to 0.0005.

### Material selection:

steel, carbide, ceramic, aluminum, copper, gemstone, titanium, stainless steel, cast iron, special steel or high-temperature alloy



Universal CNC grinding machine  
STUDER  
Five-axis CNC grinding  
MAZAK

- CNC internal cylindrical grinding/external cylindrical grinding/surface grinding
- Surface grinding
- Non-circular grinding/eccentric grinding and crankshaft grinding
- Ultra-fine grinding/profiling grinding
- Mirror reflection
- Honing and CNC Honing
- CNC universal grinding and tool grinding

CNC honing Hardings



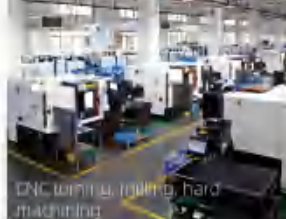
CNC grinding machine  
KELLERBERGER



Vertical grinding machine  
KOLY



Three-axis  
coordinate measuring



CNC honing, grinding, hard  
machining

## TYPICAL PRODUCTS



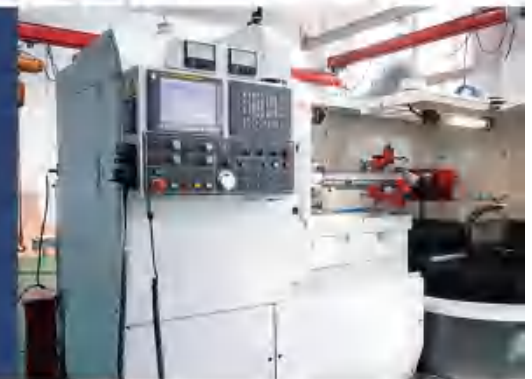
Precision grinding in one plant. We have extensive experience in CNC grinding processes and system assembly in machine tool, hydraulic, automotive, military, sheet metal, plastics and medical applications.



In the constant temperature and humidity spindle assembly store and tool magazine assembly center, we complete the process of measuring, testing and assembling the spindle.

### Advantage:

- Experience in development and customization
- Modern factory
- Long-term cooperation; up to 10 years of strategic cooperation with major manufacturers in the machine tool industry
- After-sales service: a professional team of engineers provides local solutions, commissioning and spindle service worldwide.



# QINGDAO FACTORY

In our Qingdao factory, we are mainly engaged in mold and tool manufacturing business.

From the production of mold parts to the assembly of the mold - all from a single source.

Manufacture mold accessories, molds and tools according to customer drawings.

- High speed milling/CNC hard turning and milling
- 5-axis CNC machining center
- Electric spark machine and wire spark machine technology
- Stamping mold
- Injection mold
- Die casting mold
- Hot runner system/blow mold



## TYPICAL PRODUCTS STAMPING COMPONENTS



We are the world's leading manufacturer of molds and tools. Ready-to-install replacement parts are available for each mold.

We have extensive experience in manufacturing molds for daily packaging, metal forming, metallurgy, medicine, cosmetics, automotive, semiconductor and other fields.

Dedicated technical engineers carry out the design and commissioning of molds through to large-scale production in a controlled ISO 9001 production facility.

# CHONGQING FACTORY

In the Chongqing factory, we mainly engage in the manufacturing of new materials and precision machining services.

Introducing new materials into the industrial era — successfully thinking ahead.

Single-source new material solutions — starting from billet manufacturing.



From the production of blanks to high-precision final products. With many years of experience and extensive industry knowledge, we are your forward-thinking partner.

- Carbide wear parts
- Technical ceramic structural components
- Components made of industrial precious stones (primarily ruby/sapphire)
- Quartz glass
- Engineering plastics
- Special alloys
- Technology of mixing, sintering, and pressing



# QUALITY ASSURANCE

To ensure that our production consistently maintains high quality standards, we use specialized methods of measurement and testing.

**Confidence is good, control is better.**



Gear measuring instrument



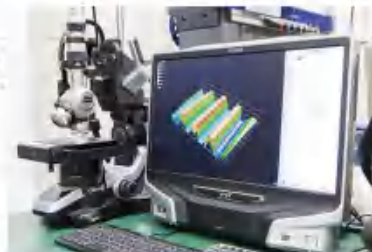
Contour gauge



Gear testing machine



Roundness tester



Projector



Measuring device for  
cams and crankshafts

Measurements on a CNC machine ensure 100% quality and full traceability, allowing your parts to reach final assembly quickly and without errors.



Hardness Tester



Coordinate Measuring Machine  
(CMM)

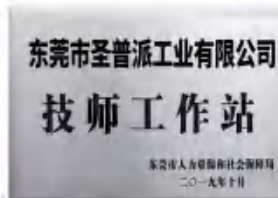
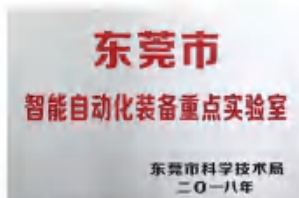
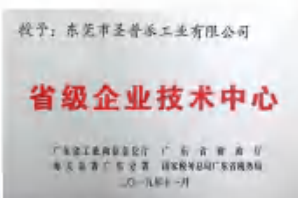
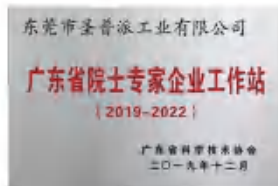
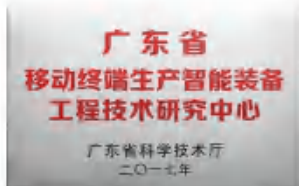
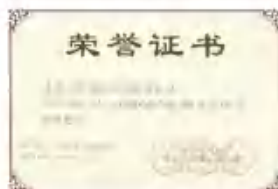
Each of our production sites has several modern, high-precision 3D measuring machines, some of which have large travel paths. They are housed in temperature-controlled, air-conditioned measuring rooms to maintain constant

Measurement processes are defined and implemented in close coordination with quality requirements and customer needs. Measurement protocols form the basis for achieving consistently high quality.

- Process control
- Measurement techniques (magnifying glass, profilometer, three-dimensional coordinate measuring device)
- Surface testing/material identification
- X-ray examination, dye penetrant testing, pressure testing
- High-pressure and ultrasonic cleaning



# HONORS AND QUALIFICATIONS



# PRODUCTS

## 1. Blanks

### Products:

Tungsten carbide profiles, cores, rings, plates, strips, blades, corrosion blocks, rods, nozzles, joints

### Typical applications:

Plant construction and mechanical engineering, construction equipment, tool and die manufacturing, steel production and cold rolling, wire and tube forming, etc.



## 2. Structural Elements

### Products:

Rings, barrel sleeves, teeth, carbide wear parts, cutting tools, stamping punches, guide rollers, bushings, molds, guides, seats, nozzles

### Typical applications:

Most industries requiring wear-resistant, corrosion-resistant, and vulnerable parts in working environments



## 3. Mechanical Parts

### Products:

Shafts, bearing bushings, guide rollers, feed rollers, drive wheels, forming rollers, rollers

### Typical applications:

High-load components in mechanical engineering.



## 4. Cutting Tools

### Products:

CNC turning knives, milling knives, forming knives, slitting knives, disc knives, shears, rotary knives, granulating knives, chopping knives, cutting knives, perforating knives, special purpose knives

### Typical applications:

Paper and printing industry, machine tool manufacturing, sheet metal production, plastics manufacturing, food industry, hygiene industry, glass industry, woodworking industry, tobacco industry, textile industry, medical and hygiene sector



## 5. Oil, Gas, and Petrochemicals

### Products:

Valve parts, teeth, radial bearing bushings, rotors and stators, fluid control components, pistons, complex structural components for extreme operating conditions, WMD (Wireline Measurement While Drilling) and LWD (Logging While Drilling) components

### Typical applications:

Drilling drives, throttle valves, control valves, shut-off valves, processing systems, onshore and offshore operations, mining operations





## 6. Pumps, Valves, and Compressors

### Products:

Valve seats, valve cones, valve balls, sealing rings, dosing needles, pistons, sleeves, sliding bearings, stationary and rotating rings, thrust bearing rings, shafts

### Typical applications:

Flow regulators and shut-off valves, pumps, sealing elements



## 7. Crushing, Grinding, Granulating, Processing

### Products:

Grinding bowls, grinding rings, milling discs, impact bars, pestles, crusher rolls, crusher jaws and plates, sieve rings, pins, knife strips, strippers, perforated plates

### Typical applications:

Pin mills, laboratory mills, conical mills, hammer mills, pulverizers, granulators, jaw crushers, impact mills, roller crushers



## 8. Transportation, Mixing, and Extrusion Fields

### Products:

Extruder screws, augers, mixer blades, liners, bushings, perforated and multi-perforated plates, screw segments, forming rollers, guides, molds

### Typical applications:

Technical ceramics, paints and coatings, tiles, concrete industry, food industry, composites, etc.



## 9. Powder Pressing, Tableting, and Pharmaceutical Industry

### Products:

Press tools, dies, punches, inserts, stamping dies, powder metallurgy dies, mandrels, mold bushings

### Typical applications:

Pharmaceutical industry, powder metallurgy, chemical industry, sintered metal production, magnet manufacturing, dental technology, industrial and technical pressing, fire protection industry



## 10. Tools for Sheet Metal Processing, Packaging, and Canning

### Products:

Cutting rings, cutting punches, compression rings, central block tension rings, beading rollers, button inserts, calibration punches, slitting knives, necking rings, seam areas, deep drawing dies and punches, beading punches, edge rings, and wall iron molds

### Typical applications:

Packaging production, cans and lids manufacturing, stamping and forming technology



## 11. Bending and Forming Technology, Cold and Hot Forging

### Products:

Cutting plates and bushings, reduction dies, first and second punches, extrusion dies, tungsten carbide punches, trimming dies, thread forming dies, hexagonal and segmental tools, clamping and cutting jaws, straightening rollers, wire feed rollers, coiling mandrels, wedges, wire guides, wire rollers



### Typical applications:

Screw, bolt, and rivet manufacturing, bearing industry, chain and spring manufacturing, automotive and aerospace industry, fastener production

## 12. Wire and Tube Forming, Die Drawing



### Products:

Drawing rings, mandrels, plugs, rollers, rotating mandrels, drawing jaws, straightening tools, feeding tools, seam removal inserts, forming tools, sizing rollers, flat rollers, shaping rollers, guides, expansion pins

### Typical applications:

Tube and rod drawing, cold rolling technology and process, steel and metal production

## 13. PVD and CVD Coatings, Carbide and Ceramic Coatings

### Products:

We offer various coating and titanizing services that can significantly improve the hardness and wear resistance of carbide or hardened steel tools.

### Examples of Coatings:

TIN, TICN, TIALN, DLC, Carbide Coating, Ceramic Coating

# CERAMIC COMPONENTS

## Ceramic Structural Parts

Let us turn your ideas into reality

Together, let's build the future

Let's make the impossible possible

Since our founding in 1994, we have been a learning organization. We constantly acquire new knowledge and use it wisely. After so many years, ceramics hold almost no secrets for us. Combined with our drive to move forward, this almost automatically leads to innovation, especially when it comes to mechanical processes. We believe that knowledge and innovation always find solutions, even if they initially seem impossible.



# OUR CERAMIC PRODUCTS

Ceramics have a wide range of applications, and our products are extensively used across various industries.

- Machinery and Equipment Manufacturing
- Mechatronics and Semiconductors
- Water Pump Production
- Automobiles
- Food and Pharmaceuticals
- Energy Technologies
- Chemicals and Petrochemicals
- Medical Technologies
- Aerospace Industry
- Offshore/Marine, Oil and Gas, Fluid Control, etc.



Ceramics in Military and Bulletproof Applications



Ceramics for Medicine



Ceramic Jewelry



Ceramic Tableware



Ceramic Crafts



Ceramic Components in the Semiconductor Industry



Ceramic Consumable Parts for the Optoelectronics Industry



Ceramic Parts for Optoelectronics



Ceramic Bearings



Hydraulics and Pumps



Microporous Ceramics, Vacuum Suction Cups



Ruby Structural Parts



Extrusion Nozzle



Ceramic Coating



Ceramic Wear Parts



Sapphire Structural Parts

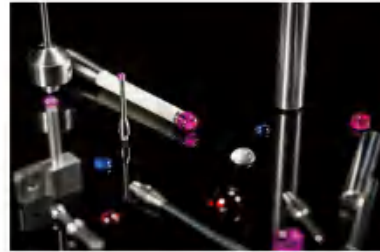


Special Structural Parts

# RUBY AND SAPPHIRE

## Sapphire

Sapphire is a single crystal of aluminium oxide, which is undoubtedly the second hardest material after diamond.



## Applications:

Medicine, implant technology, optical glass, surface glass, cabochons, surgical materials, implants, pistons, prisms and lenses, tubes and test tubes, windows, high-pressure applications, etc.



## Ruby

Ruby consists of single crystals of aluminium oxide and chromium oxide, a material with high hardness and excellent chemical resistance.

## Applications:

Measuring ball heads, sealing valves, balls, plungers, plug pins, bearings, wear parts, decorative cabochons, etc.

