



Contact Us



+86 134 124 20118



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



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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

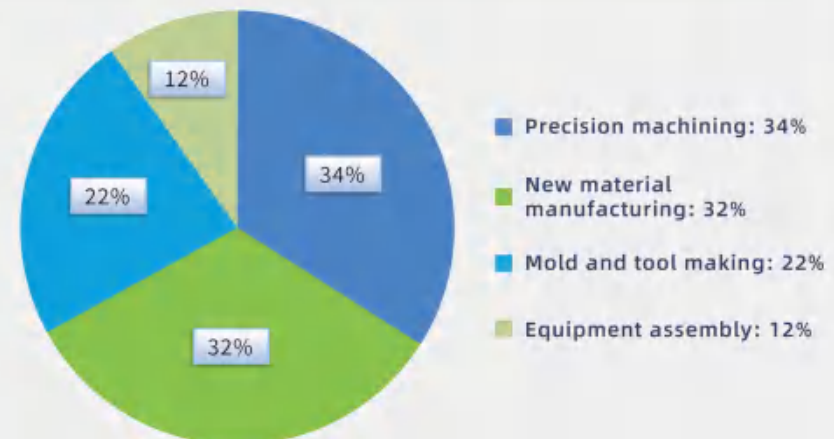


SALES AND DISTRIBUTION



■ 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.



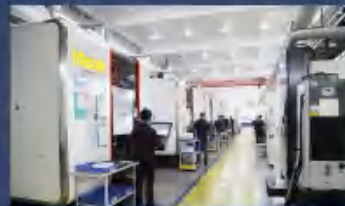
HARDWARE FACILITIES



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



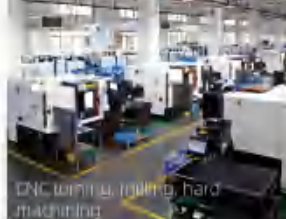
CNC grinding machine
KELLERBERGER



Vertical grinding machine
KOLY



Three-axis
coordinate measuring



CNC turning, milling, hard
machining

TYPICAL PRODUCTS



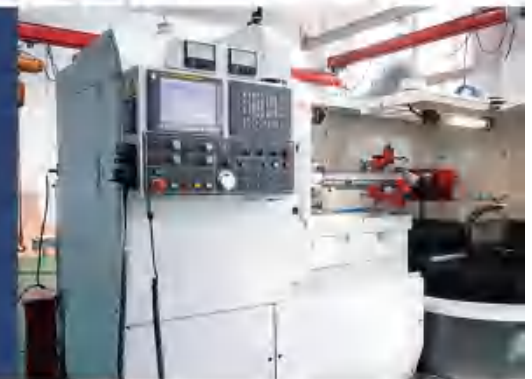
Precision grinding in one plant. We have extensive experience in CNC grinding processes and system assembly in machine tool, hydraulic, automotive, military, sheet metal, plastics and medical applications.



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.

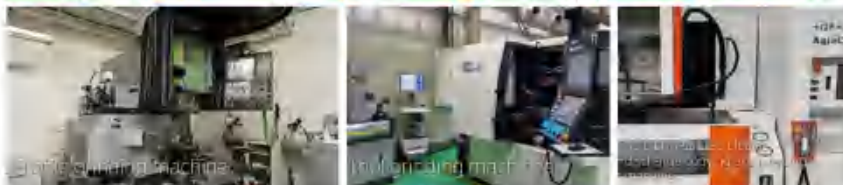
Dedicated technical engineers carry out the design and commissioning of molds through to large-scale production in a controlled ISO 9001 production facility.

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



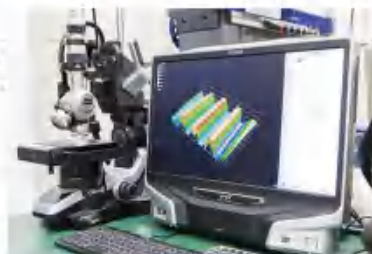
Contour gauge



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)

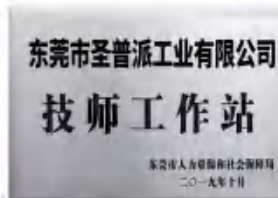
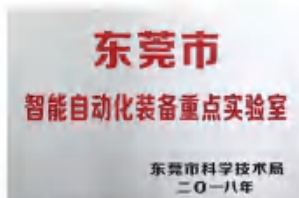
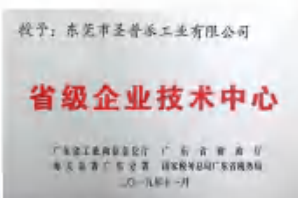
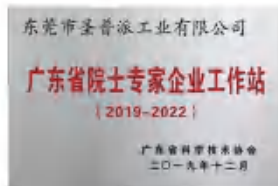
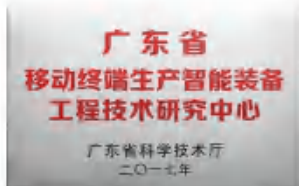
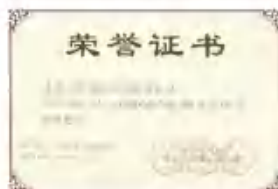
Each of our production sites has several modern, high-precision 3D measuring machines, some of which have large travel paths. They are housed in temperature-controlled, air-conditioned measuring rooms to maintain constant

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



PRODUCT CATALOG



We offer precision machining of various materials with extremely high economic efficiency. We provide precision machining of complex shaped parts made of various materials. With our advanced process planning capabilities and large-scale universal precision machining solutions, high productivity and enormous economic benefits can be achieved.



CNC TURNING PARTS, MILLING PARTS, PRECISION STRUCTURAL PARTS

Typical applications:

- Semiconductor
- Industrial robots
- Life sciences and medicine
- Aerospace industry
- Automotive industry
- Energy-saving technology



Consumer and electronic sector

- Pneumatic system
- Measuring tool
- Casting equipment
- Plant cultivation
- Hydraulic mechanisms



Medical



Lenses and optics

- Marine technology
- Printing equipment
- Agricultural machinery
- Construction equipment
- Hydraulic housing and pump casing



Measurement and analysis instruments

- Internal combustion engine
- Control system
- Textile equipment
- Engine manufacturing
- Nuclear equipment

LARGE-SIZED PARTS, FORGINGS, OR CASTINGS MACHINED ON CNC MACHINES

Products:

Gearbox

Gears, gears and shafts, mechanical transmissions, gearboxes, gearbox housings, housings, planetary holders.

Hydroelectric power station

Turbine shafts, generator shafts, pump shafts, impact and Francis runners, hubs, crossheads, blade rods, piston rods.



High power engine

Forgings, castings, crankshafts, casings, housings.

Marine industry

Propeller shaft, intermediate shaft, fin shaft, steering gear shaft, hub, joint, crankpin plate, steering tube.

Metallurgy

Mandrels, long shafts, rollers, stands, gears, necks, cylinders, pistons, rods, clamps, clamping levers.



Production of cast iron and steel

Tungsten carbide rolls, wire drawing dies, rolls for welded pipes, mandrels, and shafts.

Mining industry

Crusher shafts, rotary kiln shafts, piston rods, and hubs.



Marine shore and seabed

Crane parts, clamps, sockets, pulleys, winch parts.

Oil and natural gas

Blowout preventers, pipelines, casings, special flanges, valve bodies, flow parts, and risers.



Generating electricity

Rotor shaft, motor shaft, pins, and compressor housing.

Press machine

Column, cylinder, piston, beam, eccentric shaft, and clamp.

Pulp and paper

Shaft neck, rolling roll, shaft, roller, and housing.

Hydraulic system and pump casing

Shaft, pump housing, cylinder, valve housing, special flange, and cylinder block.



GEARS AND TRANSMISSION COMPONENTS



Gears and splined shafts for gearboxes, hydraulic systems

- Transmission for heavy-duty conditions
- Diesel engines
- Vehicles
- Heavy construction equipment
- Mining industry
- Oil and natural gas
- Generator
- Pneumatic drive
- Gearbox



- Reducer
- Agriculture
- Transport
- National defense
- Machine
- Hydraulic
- Piston and gear pumps
- Transmission system
- Various other transmission applications



Gears for agricultural machinery production



Gears and shafts for heavy construction equipment



Spare parts for power tools, hydraulic components



Gears for oil and gas



Transmission parts for agricultural and construction equipment



Spare parts for power tools, hydraulic components



Key components for cars, motorcycles, outboard motors, etc.

CRANKSHAFT, CAMSHAFT, ECCENTRIC SHAFT, AND CAM MACHINING

Typical areas of application:

- Cars (diesel and electric)
- Construction equipment
- Motorcycles
- Air compressor
- Agricultural machinery
- Off-road vehicles
- General equipment
- Outboard motor
- Rotary engine
- Light aircraft or drone
- Snowmobiles
- Compressor
- Forestry equipment
- Food and packaging equipment
- Medical equipment, etc.



Crankshaft



Camshaft



Eccentric shaft



Camshaft



ROLL PRODUCTION

We manufacture rolls, roll tools, rollers, cleaning tools, molding tools, rolling tools, wire dies, etc., for use in cold and hot rolling and other steel molding processes.

We are also an OEM manufacturer of shafts for the rubber and plastic industries, as well as the paper and food industries.

Material selection:

Tool steel, high-speed steel, ductile iron, appropriate casting, forged steel, hard alloy.

Supported coating services:

PVD coating, tungsten carbide spraying, ceramic spraying, and other wear-resistant coatings.

Rolling mill application



Work roll



Support roller



Carbide roll



Casting roller

Cold-rolled and hot-rolled tools



Carbide rolls for hot rolling



Carbide rollers for hot rolling

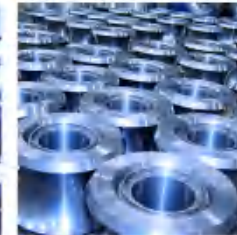


Tungsten carbide rolls for rebar forming

Rolls for welded pipes



Rolls for welded pipes



Rolls for welded pipes



Rolls for seamless pipes



Cold rolling rolls

Other Rolls



Rolls for the rubber and plastic industries



Rolls for the paper industry



Rolls for the food industry

DETAILS OF THE HYDRAULIC SYSTEM AND PUMP HOUSING

Product cover

Spools and bushings, seats, sealing elements, valve bodies, manifolds, gear shafts and bushings, housings, control panels, covers, flanges, cylinders, pistons, and bushings.

Hydraulic component



Deburring technology



Hydraulic housings, shafts, and forgings



Hydraulic spool and bushing



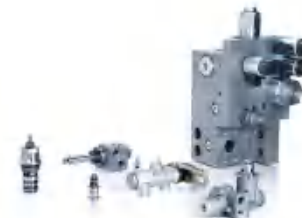
Hydraulic and pneumatic valves OEM parts



Valve blocks, manifolds, and collectors



CNC turned parts for the hydraulic system and pump housing



Hydraulic components and assembly



Hydraulic parts, casting

Hydraulic jack parts



Hydraulic cylinder parts



Hydraulic cylinder parts

AUTOMOTIVE PARTS AND COMPONENTS



Drive system components



Other automotive parts



Gear shift mechanism



Engine-related parts

TOOLS FOR COLD AND HOT FORGING

Products include:

- Cold heading die
- Carbide die
- Carbide and steel tools
- Extrusion die
- Inserts
- Trimming die
- Carbide punches
- Threading and rolling tools
- Marking punch
- Extrusion punch
- Taptite insert
- Torx and Torx Plus inserts
- Strux tools
- Magform tool
- Dies and punches
- Bushings
- Trimming dies
- Thread rolling
- Milling cutter
- Nut forming tools
- Steel and carbide extruded pins
- Feed rollers
- Machine parts
- Wear-resistant coating
- Screws
- Plum-shaped punches, etc.

Material selection:

Tool steel: 1.2379, M2, SKD-11, SKD-61.

High-speed steel: 1.3343, SKH-51, SKH-59, M42.

Powder steel: ASP-23, ASP-60.

Carbide, tungsten carbide, etc.

