





Dongguan World Precision Manufacture Co., Ltd.

Content

01 Company Profile

02 Business Growth

03 Production Capacity

04 Quality Guarantee

05 Honor and Qualification

Company Profile







- Established in 2003, registered capital of 280 million CNY, a plant area of 200,000 ㎡.
- Headquartered located in Wanjiang District, Dongguan City, the world's manufacturing center innovation city.
- There are more than 3,000 employees.
- Specializing in precision mechanical parts machining, sheet-metal working and module.
- Since 2016, it has been assessed as National High-tech Enterprise
- From 2020 to 2021, the company was recognized as one of the top 500 manufacturing enterprises in Guangdong Province.
- Passed ISO9001, ISO13485, ISO14001, AS9100D quality and environmental management system certifications.

World Precision Vision

Becoming a leading intelligent equipment solution provider

World Precision Mission

Excellent wisdom makes a better world

Company History and Planning

2003 — Established
Start from scratch, focus on precision parts processing business

2007 — Wuxi World established
Expanding business in East China, it has become an automation equipment company with 310 employees and 6500 square meters plant area

2010 — Kind Precision established
Focus on electronics industry non-standard automation, it has developed into an automation company with 325 employees and over 200 million yuan turnover

2014 — WP moves into new location
Moved into a new site of 80,000 square meters, precision parts and non-standard automation have become two important business areas

2015 — US office established
The first overseas office, serving local automation and precision component customers, currently has 5 professionals

2017 — Thailand, Philippines Office established
Nearby service customers, 30 professionals , serving for WD 150+ line set up, on-site maintenance and other services and serve for other customers

2019 — Sheet metal factory established
Supporting automation equipment sheet metal business

2019 — Malaysia Office established
Nearby service customers, 50+ automated lines, 4 local after-sales personnel

2020 — Groundbreaking for World's new headquarters & put into use
March , World Automation Division moved to new headquarter (planned) with 90,000 square meters of assembly plant, 30,000 square meters of office space and 20,000 square meters of other supporting plants

2021 — New energy equipment Business division established
February , the new energy equipment division was established, and the R&D engineering team has recruited 287+ people

2022 — German office established & German company planning
May , a German office will established (in progress) to provide service and support to European customers. Simultaneously plan to establish a German company, expand the European market, and operate locally .

2024 — US branch established
Serving local automation and components customers (planning)

Location Scale



Location	DG Former Headquarter	WX	KS	DG New Industrial Park	Total Area(㎡)
Area（㎡）	80,000	6,500	4,500	110,000	201,000

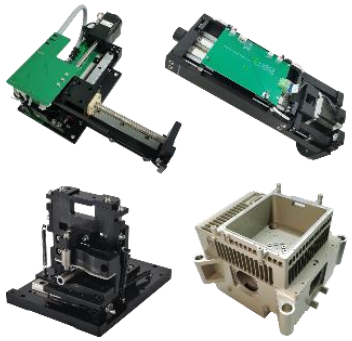
Product Development History

After nearly 20 years of development, WP gradually formed 2 major business groups!

Precision parts processing







Non-standard automation equipment



Precision Componen t

Sheet Metal Part

Precision modules

Non-standard Automation

Industry Area



Medical instruments



Automation



Aerospace



Semiconductor



Consumer Electronics



Optoelectronics Industry



Automobile components

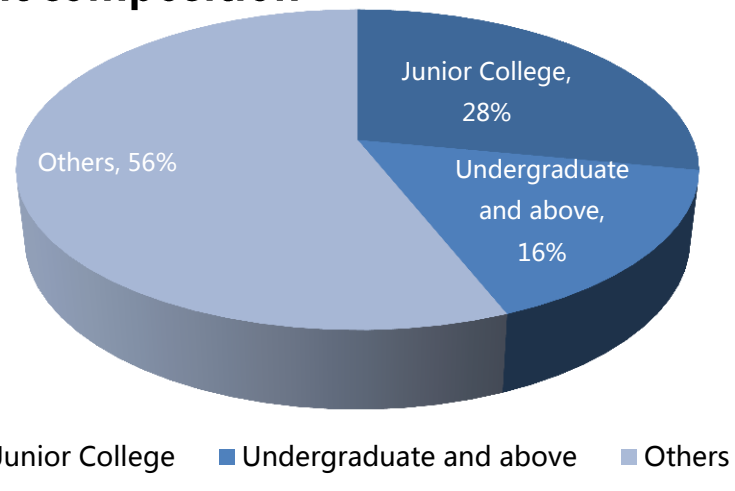


Emerging Energy

Organizational and Talent

- Board of directors
  - Investment and Financing Department
  - President's Office/Secretary to the Board
  - Finance & Purchasing Department
  - Human Resources Department
  - Business group management center
    - Intelligent Equipment Development Center
      - IDC-BU1
      - IDC-BU2
      - IDC-BU3
      - IDC-BU4
      - Assembly and After-Sales Department
    - Intelligent Manufacturing Center
      - Precision Manufacturing Department
      - Intelligent Technology Department
      - Quality Department
      - PMC Department
      - Sheetmetal Department
      - Precision Module Department
    - Dongguan Kind Precision
    - Wuxi World Precision
    - Kushan World Precision
  - Comprehensive service department
  - Marketing Department

Talent composition



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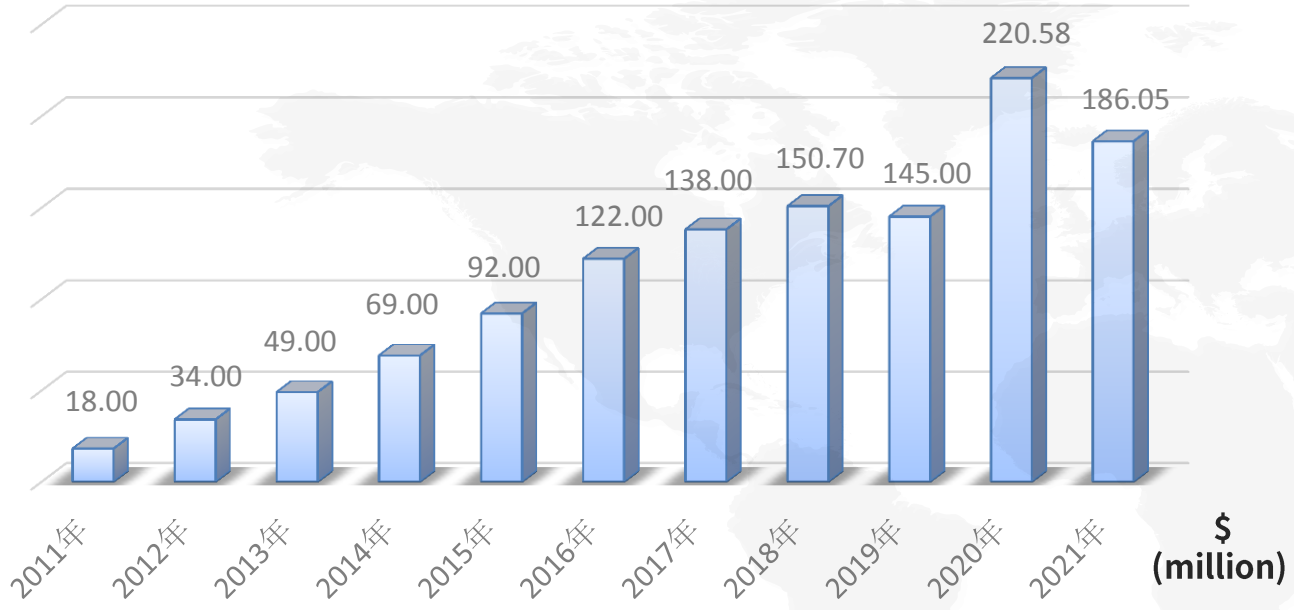
Sales and Distribution

Sales Turnover



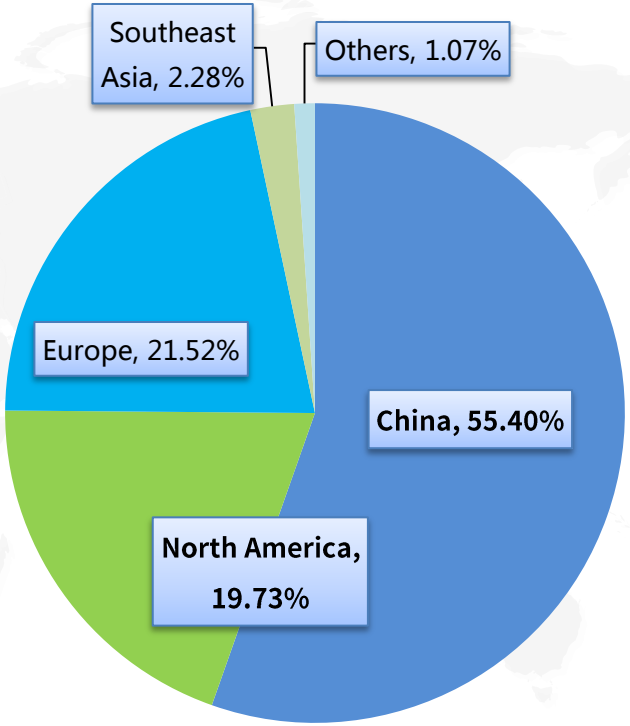
34% Precision Machining

66% Automation System

2021 Overall Sales

$186,050,000

Market Share



Major Clients

Knorr-Bremse Group

The world's leading rail vehicles and commercial vehicle brake system manufacturers

US Wabtec Company

Global leader in railway equipment and services

US Danaher Group

Leading the industry in life sciences, medical diagnosis, etc

Mazak Machinery

A world-renowned machine tool manufacturer in Yamazaki, Japan

French ECA Group

Professional robotics, automatic system development technology and simulation technology

Canadian ATS Company

The world leader in advanced automation solutions

Axcelis Technology Co., Ltd

Leader in ion implantation technology

HIWIN Technology Co., Ltd

Worldwide transmission control products and professional manufacturer of system technology products

US Dover Group

A world-renowned diversified industrial product manufacturing company

Japan Denso

The world's top global supplier of automotive technology, systems and parts

Other Clients









































International Vision



GERMANY

HANNOVER MESSE
MOTEK
SPSIPCDRIVES



U.S

ATX East
IMTS
ATX West
PACK EXPO
INTERNATIONAL



EUROPE

UK SUBCON
FRANCE AEROMART
TOULOUSE



JAPAN

TOKYO M-TECH
OSAKA M-TECH

In order to expand international horizon, World Precision not only built up branch in US but also actively participate in different exhibitions all over the world including: Germany, US, UK, Japan, Singapore, Thailand, Vietnam, France etc.

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Precision Machining Capability

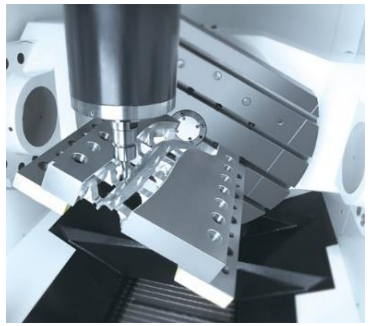
Dongguan World Precision MFG has introduced a large number of high-end precision five-axis, horizontal, turning-milling composite and advanced testing equipment from Germany and Japan; a leading role in the global precision processing industry in term of the product precision machining and processing capabilities.



- Raw material inspection： Material composition analysis, ensure high-quality product materials
- Heat treatment workshop： Improve the mechanical properties of materials, eliminate residual stress and improve metal machinability, increase material hardness, abrasion resistance, mechanical properties such as strength, ensure product stability and service life
- Processing workshop： Have the ability to complete the complete process of precision parts processing
- Test Equipment： Ensure product quality meets customer standards
- Assembly workshop： All parts of the product are assembled strictly according to customer and industry requirements, connect, and carry out precision, stability and life testing, ensure product quality









Machining Center

Five-axis High-precision Machining Center

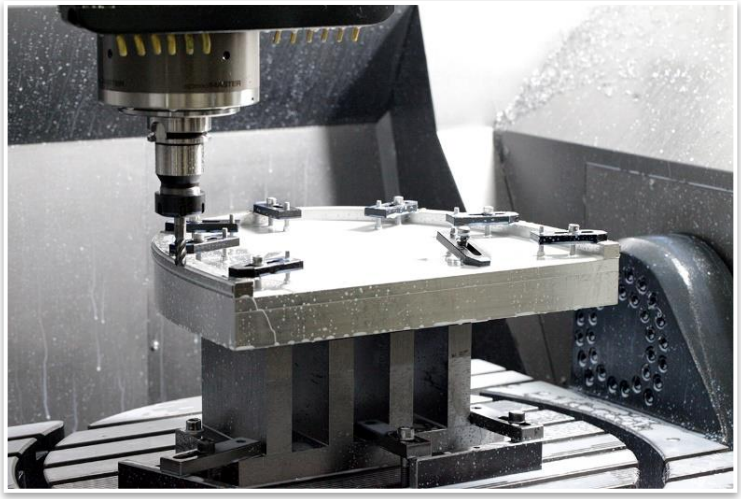
- Able to perform pentahedron processing in one positioning
- Surface processing, hollow processing
- Precision accurary±0.005mm
- Surface finish can reach micron level











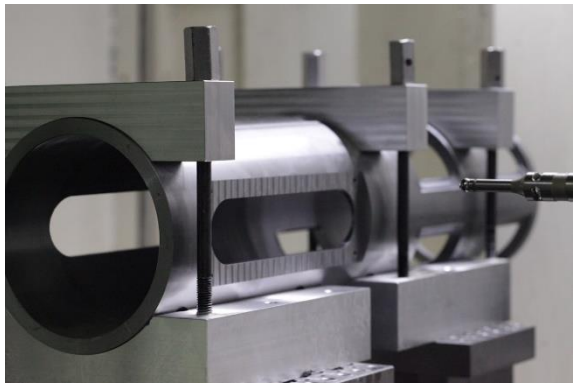
Machining Center

Four-axis Machining Center

- One-time loading, multi-sided processing
- Stopping the machine is not required to change module, high efficiency
- Suitable for complex structure workpieces
- Precision accuracy ±0.002mm



Four axis horizontal machining center







Four axis vertical machining center

Machining Center

Three axis machining center

- Capable of batch processing
- Possesses multi-variety and small-batch processing capabilities





CNC milling machine

CTX gamma TC

Precision Turn Milling Compound Center

- Multifunctional turning and milling
- One-time processing and forming
- Precision accuracy ±0.002mm







Precision Machining Capability

CNC Precision Automatic Lathe

- It can complete compound processing of turning, milling, drilling, boring, tapping, engraving and other combinations at the same time
- Mainly used in batch processing of special-shaped non-standard parts such as precision hardware and shafts
- Bidirectional high processing efficiency



CNC Precision Automatic Lathe

Precision Machining Capability

EDM（Electrical discharge machining）



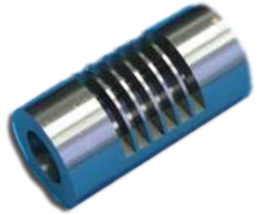
- Suitable for materials that are difficult to process with traditional processing methods
- Special and complex shape parts can be processed
- Can change part’ s processing route

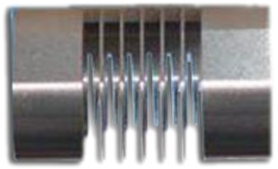


Precision Machining Capability

Wire Cutting: Slow/Medium/Fast wire

- Suitable for ordinary machining methods that are difficult to process, complex shape, high hardness, high precision accuracy requirements, conductive materials
- Precision accuracy : 0.002 mm













Precision Machining Capability

Heat Treatment

- Vacuum heat treatment can be performed in the factory headquarters
- Annealing, normalizing, carburizing, nitriding and other processes



Lon nitriding furnace



Vacuum quenching furnace



Other Common Processing



Lathe Machine



Milling Machine



Grinding Machine



Pincers Fitter

Sheet Metal Center

Sheet Metal Factory

- Bystronic laser cutting machine, can process copper plate, aluminum plate, thick stainless steel and other conventional materials, processing thickness of 0.5-20mm
- Japan Amada turret CNC punch, high processing accuracy, stable processing quality.
- CNC punch cutting precision, small burr, workpiece flatness is good, forming quality is high, the number of punching processing accuracy can reach 0.1mm, size consistency is good, suitable material thickness 0.5-2.5mm
- Japanese Amada CNC bending machine, high precision, stable processing performance, accuracy ±0.1mm
- The company is certified by CWB of Canadian Welding Bureau, and t welding workers is over 60%
- We have 20 Panasonic welders and a THREE-DIMENSIONAL welding platform for all kinds of welding processing requirements









Laser Cutting

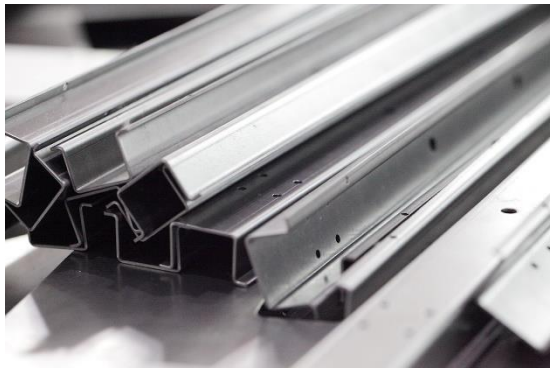
Automatic Fiber Laser Pipe Cutting Machine

- CCD pipe section identification system is adopted
- Automatic baling feeding system
- Automatic sorting system for finished pipe fittings
- Pipe floating trusteeship agency
- Intelligent remote monitoring system
- Tube-plate length automatic measurement system, etc



Device Category	Raw Material	Thickness (mm)
Laser cutting	Steel	~ 12
	Aluminum	~ 3
Bending	Stainless Steel	~ 6
	Low carbon steel	~ 6
	Aluminum	~ 3





Precision Machining Products

Machined parts

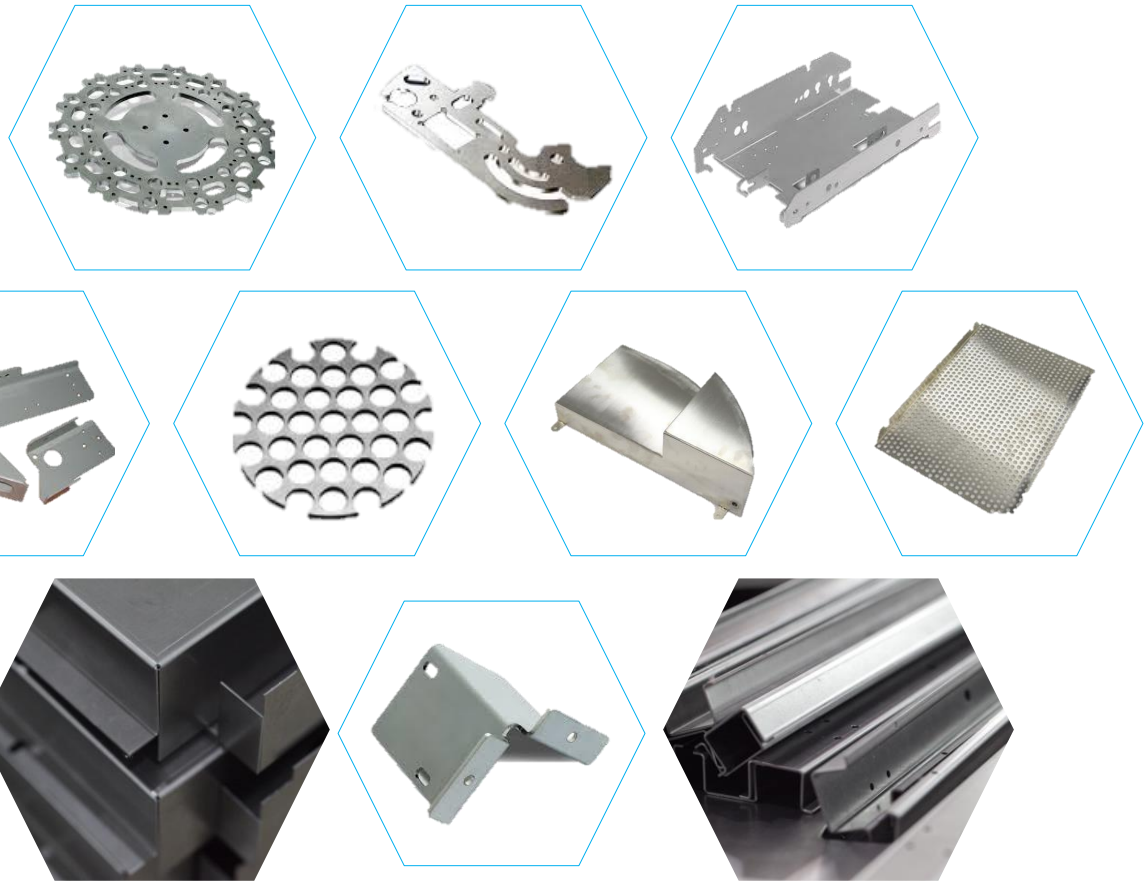
Can meet customers' different order needs:

- Many varieties and small batch
- Large batch



Precision Machining Products

Sheet Metal Parts



The Welding Parts

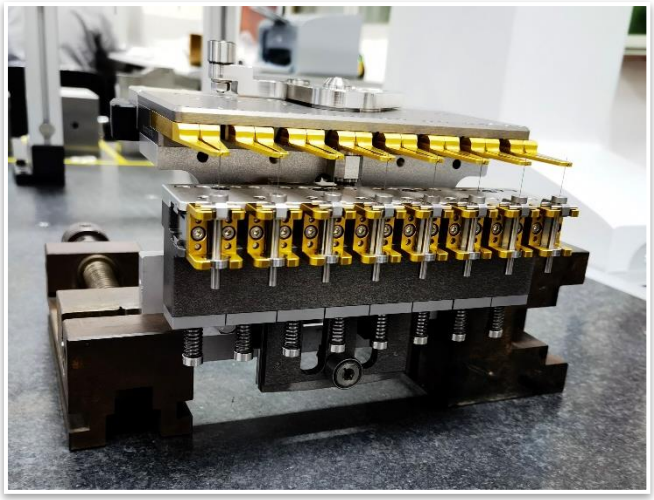


Precision Module

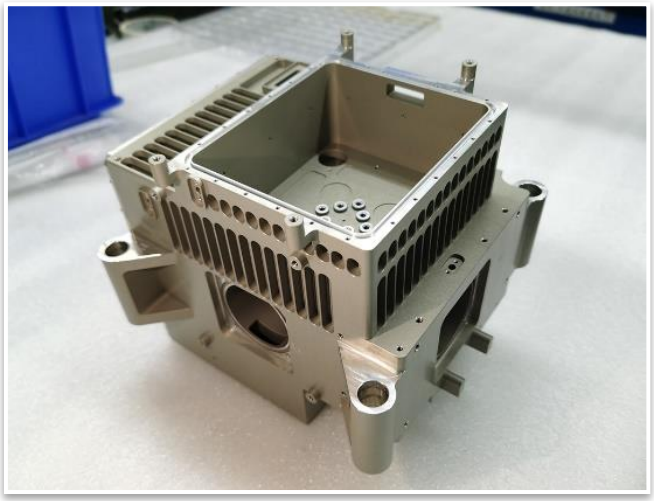
Precision Modules

- FA & SOP operation process support
- Electrical engineering
- SupportAnnual output value of more than 30 million









Equipment List

Product Name	Brand	Made in	Degree of Precision	Quantity
5-axis CNC machining center	DMG	Germany	0.005mm	11
	MAZAK	Japan	0.005mm	5
Horizontal CNC machining center	LG Mazak	Japan	0.002mm	2
	DMG	Germany	0.005mm	4
CNC turning milling compound machining center	LG Mazak	Japan	0.002mm	2
	DMG	Germany	0.002mm	1
Vertical CNC machining center	Haas	USA	0.005mm	1
	Chang ZHUN	Taiwan	0.01mm	111
	Feeler	Taiwan	0.005mm	40
	DMG	Germany	0.005mm	2
	MAZAK	Japan	0.003mm	13
	HARDINGE	USA	0.005mm	56
	MAKINO	Japan	0.003mm	6
Cnc lathe	Feeler	Taiwan	0.002mm	3
	MAZAK	Japan	0.002mm	4
	TAKISAWA	Japan	0.002mm	6
	STS	China	0.01mm	14

Product Name	Brand	Made in	Degree of Precision	Quantity
Slow- feeding wire cut machine	SODICK	Japan	0.002mm	5
High speed NC WEDM tool	San Guan/Gao Cheng	Taiwan	0.01mm	10
CNC milling machine	Joint	China	0.01mm	1
Milling machine	GENTIGER	China	0.01mm	50
Lathe	Nan Fang/San huang	China	0.01mm	14
Grinding table	Jian De	Taiwan	0.003mm	3
Surface grinding machine	Wang Pan / Yu Qing	China/Taiwan	0.002mm	15
	NAGASHIMA	Japan	0.001mm	5
Outside and inside diameter grinding machine	NAGASHIMA	Japan	0.001mm	1
Large CNC	CHANGZHUN	China	0.002mm	2

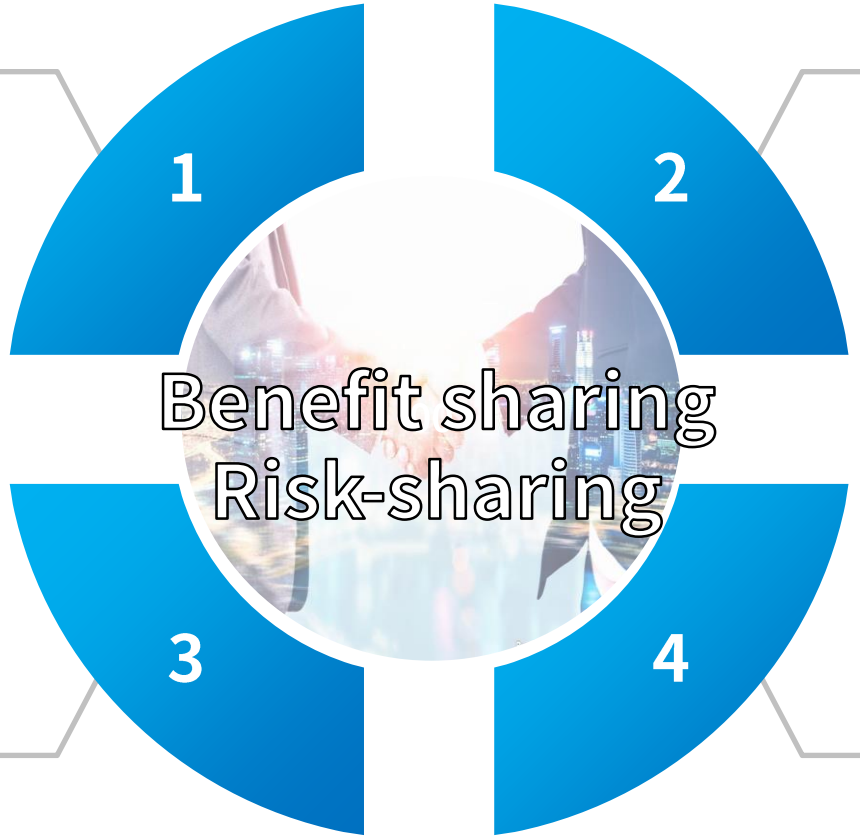
Sheet Metal Equipment

Product Name	brand	Made in	Degree of Precision	Quantity
Welding Machine	Rui Ling	China	N/A	8
Laser Marking Machine	Hans laser	China	N/A	2
Bending Machine	Amada	Japan	N/A	6
CNC Laser Cutting Machine	Bystronic	Switzerland	0.15mm	3
Punching Machine	Amada	Japan	N/A	1
Automatic Laser Tube Cutter	Songu	China	0.03mm	1

Supply Chain Management

New supplier development, Evaluation and selection

Supplier review and training



Supplier daily quality management

Supplier performance Management

Supply Chain Management

External Negotiation Surface Treatment Capability

- ISO9001, IATF16949 and other certification
- Quality control through ward quality system









External negotiation process Capability

Efficient to Provide a Variety of Customized Process Type Services

Type of surface treatment	Function	Thickness (um)	The layer appearance	Suitable material
Anodize	Oxidation resistance, wear resistance and decorative surface	5～12	White, yellow, black	aluminium alloy
Hard anodizing	Oxidation resistance, wear resistance and decorative surface	25～35	Grey, black	aluminium alloy
Chemical nickel-plating	Oxidation resistance, wear resistance and decorative surface	3～42	Yellow light,	Steel, aluminum alloy and copper alloy
Black oxide	Oxidation resistance and decorative surface	0.5～1	Black, black	Ferrous stainless steel
Passivation	Oxidation resistance and decorative surface	0.05～0.1	gray	stainless steel
Electropolishing	Surface roughness improvement and surface decoration	2.5～10	bright white	stainless steel
galvanize	Oxidation resistance, wear resistance and decorative surface	8～12	According to Customer requirements (white, color)	steel
chromeplate	Oxidation resistance, wear resistance and decorative surface	3～12	Bright gold, bright white	steel
tri-valent chromate	Corrosion resistant, Rohs compliant	3～12	Bright silver, blue	steel
xylan	Reduce friction, improve wear resistance, non – stick	20~50	Grey, black	steel
Polane T (S. Williams) Low gloss black finish	Chemical and water resistance, wear resistance, adhesion	3~4	black	Aluminum, steel, plastic

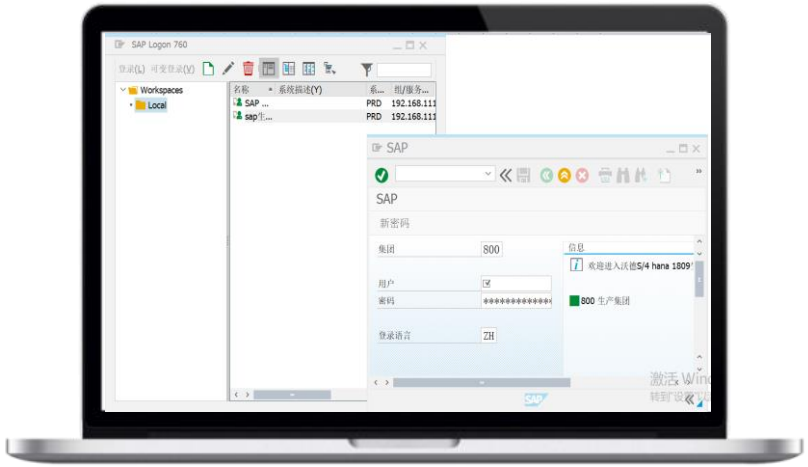






Information Management

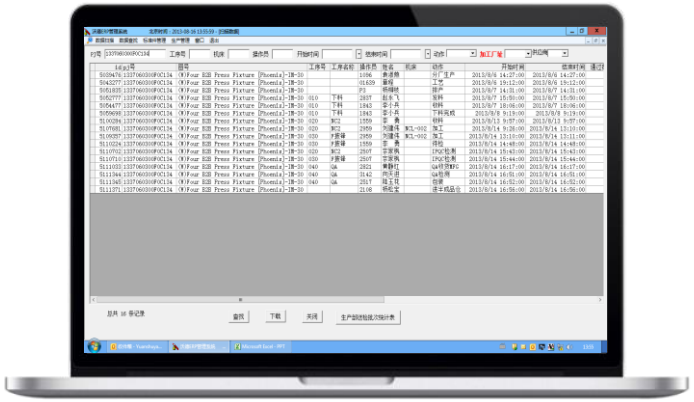
SAP system/Bar code



SAP



Bar Code



SAP

- Material and drawing information
- PMC plan
- Process the data
- Recording the production process

- The order information
- Quality inspection information
- Customer complaint traceability
- Track the steps

Use of Raw Materials

Metal Material

Some common raw materials we can supply for aviation industry applications include:

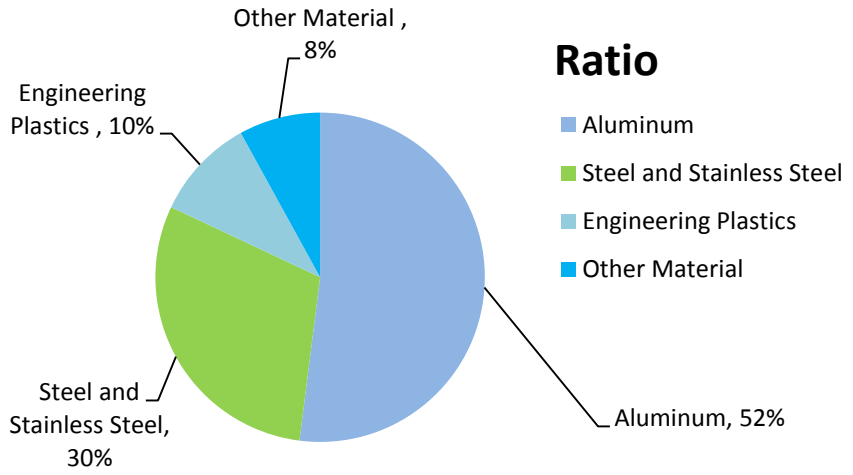
- Titanium, AMS 4902, AMS 4905, AMS 4911, CP class 1, CP class 2;
- Aluminum 7075, AMS-QQ-A-250, aluminum 6061 T6, T651, AMS4027, etc.;
- Chromium molybdenum alloy steel, AISI4120, 4150, etc.

Metal Material	China（GB）	USA（ASTM）	Japan (JIS)	Germany（DIN）
Rolled steel for common structures	Q235A	A36	SS400	1.0040
Rolled steel for welded structures	Q235B	A283M Gr.D	SM400B	1.0042
Carbon steel for mechanical structures	45	1045	S45C	1.0503
Manganese steel for mechanical structures	40Mn	1039	S40C	1.1157
Chromium steel for mechanical construction	40Cr	5140	SCr440	1.7035
Chromium molybdenum steel for mechanical construction	30CrMo	4130	SCr430	1.7220
Manganese chromium steel for mechanical construction	20CrMn	5120	SMnC420	1.7147
Corrosion-resistant stainless steel	0Cr18Ni9	AISI 304	SUS304	1.4301
Nickel-chromium superalloy	GH4169	Inconel718	-	Mo3
alloyed tool steel	Cr12Mo1V1	D2	-	1.2379
Corrosion-resistant stainless steel	0Cr19Ni10	AISI 304L	SUS304L	1.4306
Corrosion-resistant stainless steel	0Cr17Ni12Mo2	AISI 316	SUS316	1.4401
Corrosion-resistant stainless steel	0Cr17Ni14Mo2	AISI 316L	SUS316L	1.4435
Corrosion-resistant stainless steel	9Cr18	AISI 440C	SUS440C	1.4125
Aluminum and aluminum alloy sheet, plate and strip	6A02	6061	A6061P	3.3207
Aluminum and aluminum alloy rod, rod, wire	LD6061	6061	A6061BE	--
Aluminum and aluminum alloy rod, rod, wire	2A12	2024	A2024BE	3.1355
Aluminum and aluminum alloy rod, rod, wire	7A04	7075	A7075BE	3.4365
copper bar	H70	C2600	C2600BE	2.0265
Copper sheet, copper plate and copper strip	H90	C22000	C2200P	2.0230
Copper and copper alloy bars	HPb61-1	C36000	C3604BE	2.0401

Use of Raw Materials

Engineering Plastics

Engineering Plastic Materials	Chemical Name
Delrin	Acetal Resin
ESD225	Static electricity dissipates polyacetals
ESD420	Electrostatic dissipation polyacetal electrostatic dissipation polyimide
ESD520	Electrostatic dissipation enhances polyimide
TEFLON	Polytef
NYLON	Perlon
501CDR6	Electrostatic dissipated monomer cast nylon
PEI	Ultem1000
Peek1000	Polyether-ether-ketone
Peek450	Polyether-ether-ketone
ACRYLIC	PAA
PC	Polycarbonate fibre
PP	Polypropylene
BAKELITE	Phenolic resin
Zr02	Ceramics



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Quality and Environment Certification



ISO 9001:2015
Quality Management System Certification



ISO 13485:2016
Medical Parts Manufacturing Certification



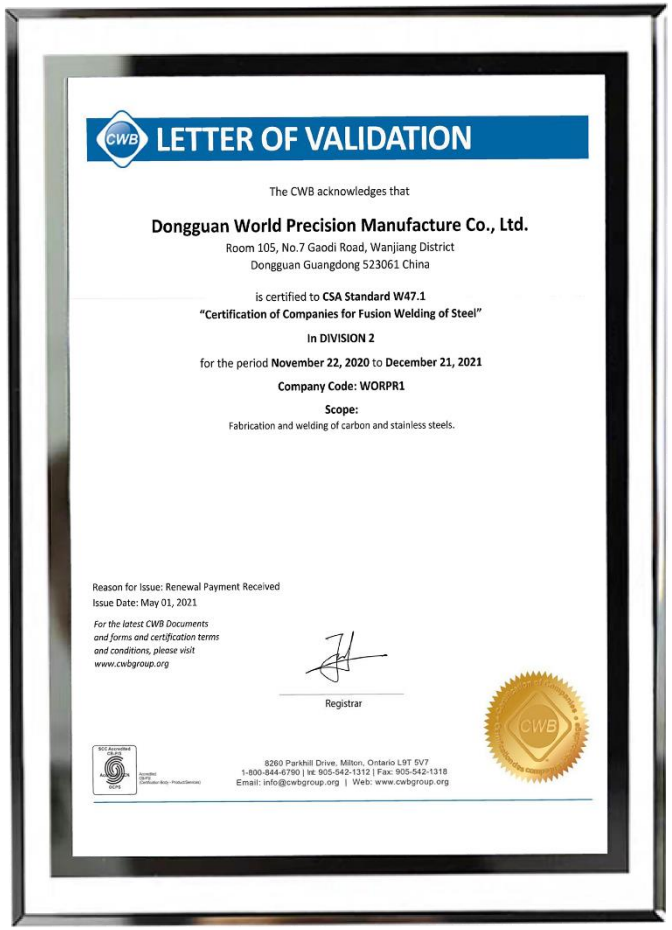
ISO 14001:2015
Environmental Management System Certification



AS 9100D
Aerospace Industry Manufacturing Certification

Excellent quality system support IQC, IPQC, FQC, OQC

Technical Certificate



LETTER OF VALIDATION

The CWB acknowledges that

Dongguan World Precision Manufacture Co., Ltd.

Room 105, No.7 Gaodi Road, Wanjiang District
Dongguan Guangdong 523061 China

is certified to **CSA Standard W47.1**
"Certification of Companies for Fusion Welding of Steel"
In DIVISION 2
for the period **November 22, 2020** to **December 21, 2021**
Company Code: WORPR1
Scope:
Fabrication and welding of carbon and stainless steels.

Reason for Issue: Renewal Payment Received
Issue Date: May 01, 2021

For the latest CWB Documents and forms and certification terms and conditions, please visit www.cwbgroup.org

Registrar

8260 Parkhill Drive, Milton, Ontario L9T 5V7
1-800-844-6790 | Int 905-542-1312 | Fax: 905-542-1318
Email: info@cwbgroup.org | Web: www.cwbgroup.org



CANADIAN WELDING BUREAU

The CWB acknowledges that

World Precision Manufacturing Co., Ltd.

8 Chuangye Gongye Road, Xinhe Zone, Wanjiang District , Dongguan, Guangdong 523061 China

is Certified to CSA Standard W47.1
Certification of Companies for Fusion Welding of Steel
In the DIVISION 2
INITIAL CERTIFICATION DATE: March 13, 2017
Scope: Fabrication and welding of carbon and stainless steels.

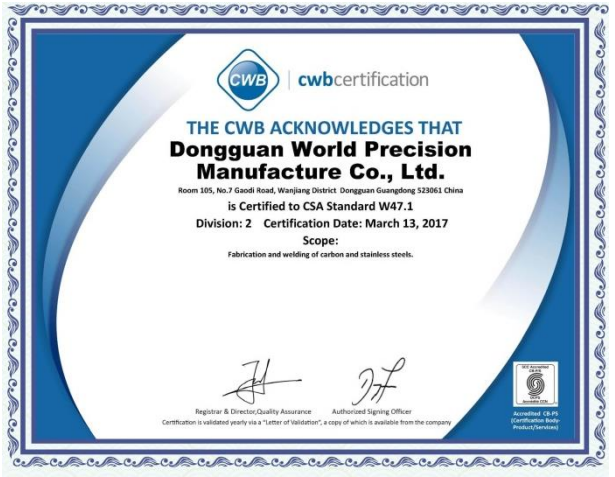
Registrar & Manager Q.A.
Authorized Signing Officer

Certification is validated yearly via a "Letter of Validation", a copy of which is available from the company

Accredited
CB-PS
(Certification Body-Product/Services)

The Canadian Welding Bureau is accredited by the Standards Council of Canada

The product certification system operated by the Canadian Welding Bureau most closely resembles that described ISO/IEC 17067:2013, Conformity assessment -- Fundamentals of product certification and guidelines for product certification schemes, System 6.



cwbcertification

THE CWB ACKNOWLEDGES THAT
Dongguan World Precision Manufacture Co., Ltd.
Room 105, No.7 Gaodi Road, Wanjiang District Dongguan Guangdong 523061 China
is Certified to CSA Standard W47.1
Division: 2 Certification Date: March 13, 2017
Scope:
Fabrication and welding of carbon and stainless steels.

Registrar & Director,Quality Assurance
Authorized Signing Officer
Certification is validated yearly via a "Letter of Validation", a copy of which is available from the company
Accredited CB-PS (Certification Body-Product/Services)



Canadian Welding Bureau Certification (CWB)

Standardized Quality Inspection

The company promises to meet customer requirements and other applicable requirements' quality products and services



Respond quickly and deliver on time when responding to customer needs

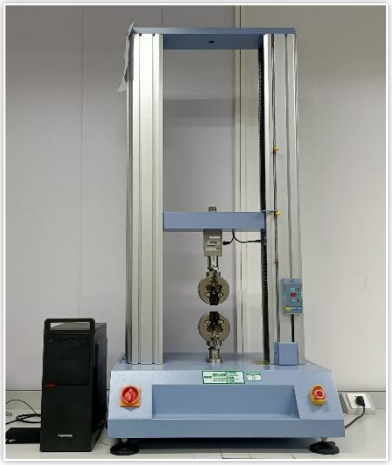
Continuously innovate, continuously improve the company's quality management system and performance, enhance customer satisfaction



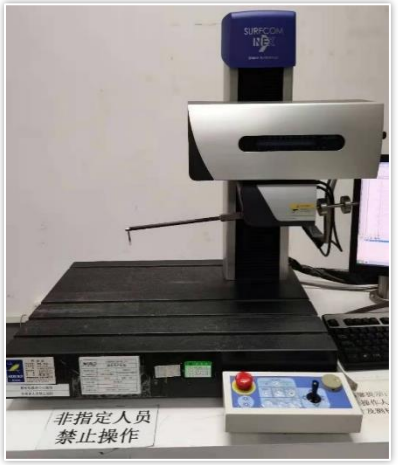
Roundness Measuring Instrument



Hardness Tester



Tensile Testing Machine



Profile Measuring Instrument



Altimeter



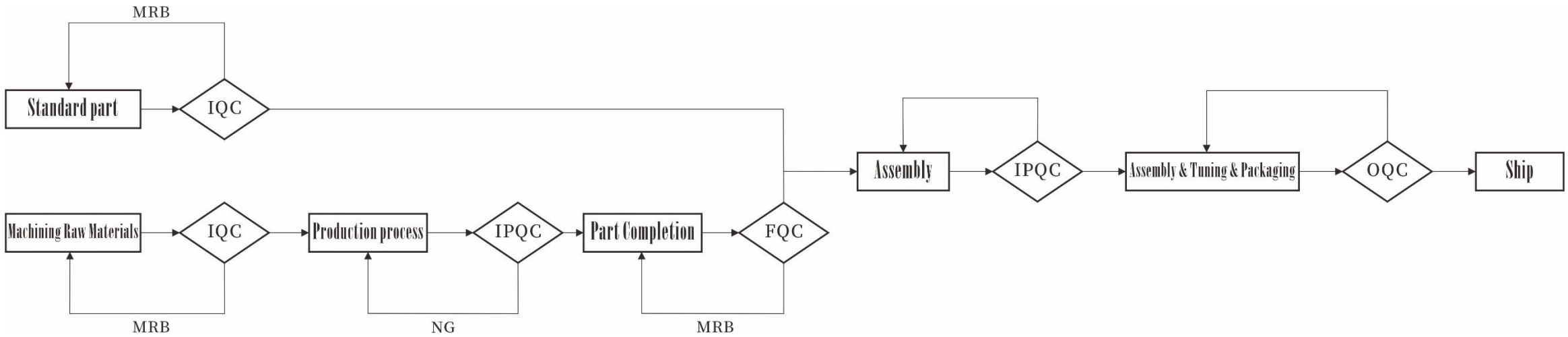
Coordinate Measuring Machine

List Of Inspection Instruments

Product Name	Brand	Made in	Degree of Precision	Quantity
CMM	ZEISS	Germany	0.0015mm	2
	HEXAGON	Sweden	0.0015mm	4
MRS	GNR	Italy	N/A	1
Projector	MITUTOYO	Japan	0.003mm	1
Contourgraph	TOKYO	Japan	±(1.5+|2H|/100)um	1
Roughness Tester	MITUTOYO	Japan	Ra0.05～Ra32	1
Rockwell Hardness Tester	Yong Feng	China	N/A	1
Marble Platform	XINLEI	China	Grade 000	6
Altimeter	TRIMOS	Switzerland	3+L(mm)/300um	15
	TESA	Switzerland	2.5+4L(m)um	
Microscope	EASSON	Taiwan	0.003mm	4
Coating Thickness Tester	FISCHER	Germany	±1um	1
MRS	XoS	USA	1mm	1

Product Name	Brand	Made in	Degree of Precision	Quantity
Visual System	T-King	China	±3um	11
Auto Vision System	Zhi Tai	China	3+L/200	1
Hardness Testing Machine	LAIZHOULAIHUA	China	N/A	3
Tension Tester	AI GU	China	±0.2% F.S.	1
Rubber Hardometer	HAIBAO	China	0.02mm	2
Electron Microscope	STILL	China	N/A	5
Surface Resistance Tester	TALOS	China	±10%	2
Marble Terrace	XINLEI	China	0.007mm	19
Charpy Tester	Kunlun	China	N/A	1
Electronic Hydraulic Meter	MITUTOYO	Japan	0.005mm	4
Callipers	MITUTOYO	Japan	0.02mm	272
Micrometer	MITUTOYO	Japan	0.001mm	57

Quality Control Flow Chart



Dept	Doc Description	Reference Document
PUR	BOM	• Table
QA	IQC report	• Standard part IQC report example • Machining part IQC report example • MRB slip example
MFG	SOP	• Machining part processing station SOP
IPQC	IPQC report	• Machining part processing IPQC report example
PMC	BOM	• Table

Dept	Doc Description	Reference Document
QA	FQC report	● Machining part processing PQC report example
IE	SOP	● Machine type assembly station SOP
IPQC	IPQC report	● Machine type assembly IPQC Report
IE	SOP	● Machine type functional test station’ s SOP ● Machine Type packaging guidelines
QA	OQC report	● Machine type OQC Report example
PMC	Notice	● Internal order shipping information

Content

01 Company Profile

02 Business Growth

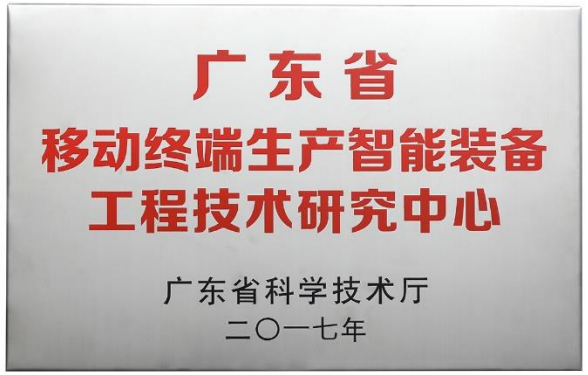
03 Production Capacity

04 Quality Guarantee

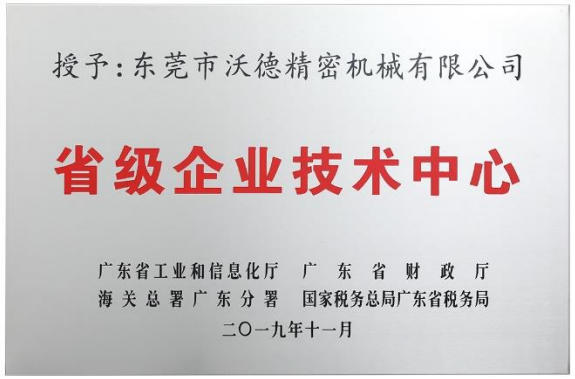
05 **Honor and Qualification**

Company Honor

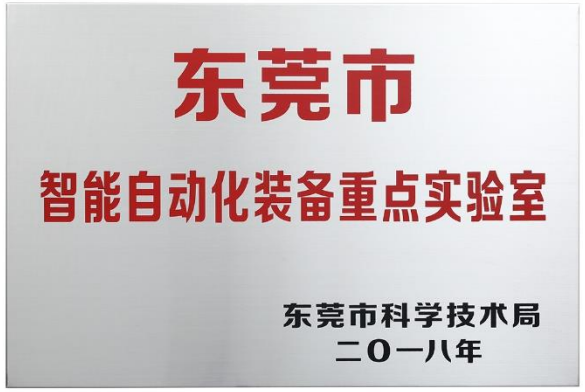


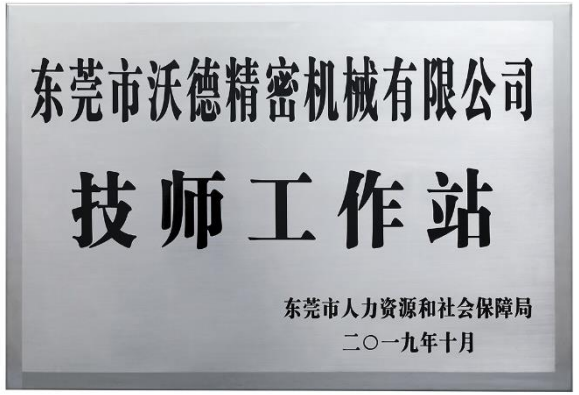














Honorary Patents

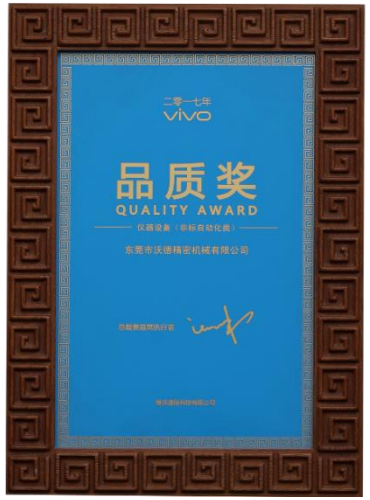
















Staff Presence

Staff outdoor development









The company party









Evaluation and recognition











THANKS!