

INNOVATIVE SOLUTION TO MAKE MANUFACTURING SIMPLIFIED

# PRECISION MACHINING

WSF Technology Co., Ltd. (Shenzhen)

M-one Products Ltd. (HongKong)

We are Someone whom you can go into Long Term Partnership as well as Someone who will learn your Business in order to Understand and Satisfy your Company's needs .



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



01

# ABOUT US

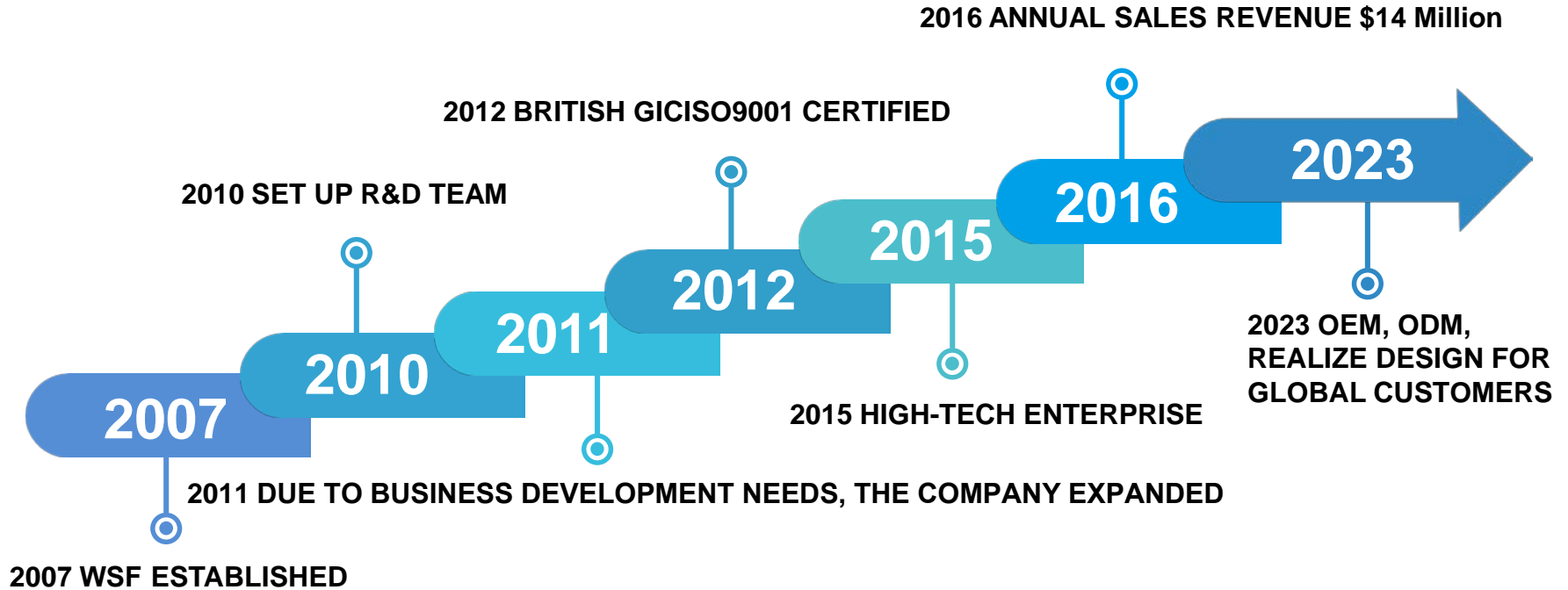


## OUR VISION

**To make manufacturing simplified.**

## OUR MISSION

**We make high-quality, custom metal and plastic parts, fast and simple for our customers.**





# WSF FACTORY





# WSF WORKSHOP





02

# PRECISION MACHINING

## **Procision Machine Plus Introduction**

**WSF precision machining center is a high-precision machining center specially designed by the group for supporting customers in USA/Europe. It now has more than 70 sets of various machining equipment, 60 + workshop technicians and operators, CNC (milling) station, lathe station, milling machine station, wire cutting position, grinder station, etc. the workshop has a perfect cost control system and process management System and quality control system.**



# Main Production Types

## CNC processing

All kinds of automatic parts, precision molds;  
Main processing raw materials: non ferrous metals, non-metallic, carbon steel, etc

## Turning processing

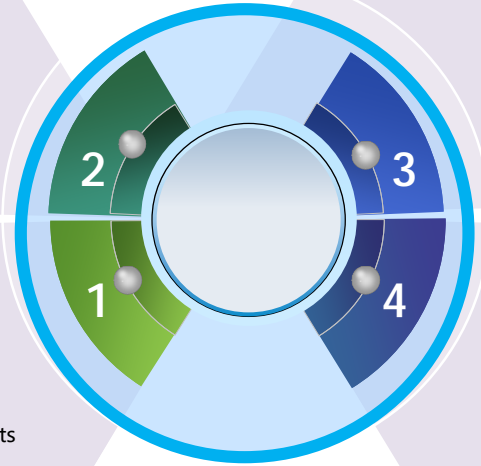
Processing of various shaft and hole parts  
Main processing raw materials: stainless steel, non-ferrous metals, etc

## Sheet metal processing

It mainly relies on laser cutting, numerical control punch, numerical control press, bending machine and other equipment for forming, processing and opening of sheet metal parts








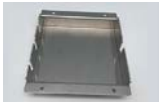
## Assembly and others

The company has a professional assembly team and independent assembly workshop  
The machining workshop can also carry out simple surface treatment processes such as sand blasting and wire drawing of parts



Material Science	To Subdivide
Aluminium	A1100-H24 / A1050 / A2011-T3 / A2017A / A2024-T4 / 2A12-T4 / A5083 / A5052-H32 / A5754-H22 / A6061-T6 / A6063-T5 / A6082 / ADC12 / A380/ A360 / A7075
Steel	1215 / CR12 / GCR12 / H13 / 16MnCr5 / SUJ2 / 100Cr6 / P20 / A2 / A3 / DH31 / Q345B / S35538Cr2 / 4140 / 4340 / SCM435 / S45C / 4J29(Kovar) / S50C / SKD61 / 8418 / SECC 1.0 / SPCC 0.8
Stainless Steel	1.4541 / SUS301 / SUS303 / SUS304 / SUS316 / SUS316L / SUS430 / SUS430F / SUS430FR / 440C / 4Cr13 / 17-7PH
Zinc Alloy	ZDC3 / ZDC5
Copper Alloy	PB102 / CuZn37 / CuZn39Pb3 / H59 / C360 / C3602 / C3604 / H62 / H59 / H59-1 / Hpb59-3 / H63 / CW508L / CW118C / CW403J / CW614N / Cu-OF / TU2 / Copper / C1100 / Copper T2 / QBe2 / CU2OW80 / QAL10-4-4
Plastic	PC / UHMW PE / PE WHITE / PP WHITE / TIVAR 1000 / ABS / PVC GREY / Bakelite Black / Bakelite Red / POM WHITE / POM BLACK / PMMA / PA66 / PA66+GF / G10 / PTFE T=10 / PEEK / PET 0.1 / PET P WHITE / PPS+30%GF

# Technology Selection

Photo	Process		Description	Example Materials	
	3D Printing	SLA	Stereolithography	Laser- cured photopolymer	Thermoplastic - like Photopolymers
		SLS	Thermoplastic - like photopolymers	Laser - sintered powder	Nylon, TPU
		DMLS	Direct Metal Laser Sintering	Laser - sintered metal powder	Stainless Steel, Titanium, Chrome. Aluminum, Inconel
		FDM	Fused Deposition Modeling	Fused extrusions	ABS, PC, PC, ABS, PPSU
	CNC		Computer Numerically Controlled Machining	Machined using CNC mills and lathes	Most commodity and engineering-grade thermoplastics and metals
	Vacuum Casting	Vacuum Casting	Elastomers use a vacuum to draw the liquid material into the mold	Rubber, ABS, POM, PC, PA66, PMMA	
	RT	Rapid Tooling	Unconventional tooling practices	Most of plastic materials	
	Sheet Metal	Sheet Metal	Cut and bent into a variety of shapes by machine	Different metals such as aluminium, brass, copper, steel, tin, nickel and titanium	



# Precision Machine Plus Layout



EQUIPMENT	BRAND	MODEL	QUANTITY
CNC Machining	VMC	540-1690	35
CNC Machining	YCM	CV56A	7
CNC Machining	OKUMA	MB-46VAE-R	8
Cut Machine	CHARMILLES	FI240LL	1
EDM Machine Tool	MAXSEE	P26+E75	1
Surface Grinding Machine	OKAMOTO	ACC-450A-V	3
CNC Milling Machine	HY FAIR	HBM-R4	3
High Speed Drilling Machine	CPD	SD216	1
High Speed NC WEDM Tool	DK	DK7735	1



**OKAMOTO**



**HARMILLES**



**MAXSEE**

	EQUIPMENT	PRICISION	MACHINING SIZE
<b>OKAMOTO</b>	Surface Grinding Machine	±0.003mm	450*150*205
<b>HARMILLES</b>	Cut Machine	±0.003mm	350x250x250mm
<b>MAXSEE</b>	EDM Machine Tool	±0.003mm	350x250x350mm

# Machining Equipment



**OKUMA**



**CITIZEN**



**CPD**

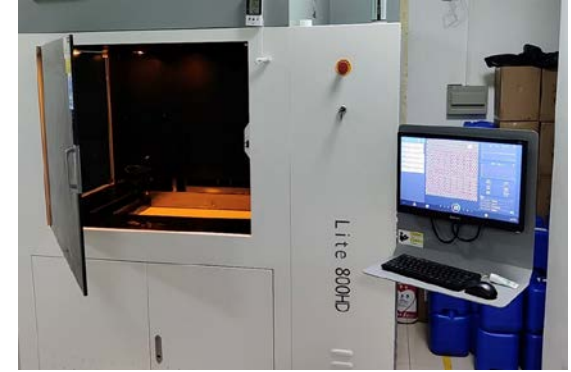
	EQUIPMENT	PRICISION	MACHINING SIZE
<b>OKUMA</b>	CNC Machining	±0.005mm	752*560*460mm
<b>CITIZEN</b>	CNC Lathe	±0.005mm	Φ25*100
<b>CPD</b>	High Speed Drilling Machine	±0.005mm	500*400*20mm



**TOPSEN**



**HGS**



**LITE**

	EQUIPMENT	PRICISION	MACHINING SIZE
<b>TOPSEN</b>	CNC Milling Machine	±0.01mm	800*900*1800mm
<b>HGS</b>	Laser Cutting Machine	±0.1mm	3000*5000mm
<b>LITE</b>	3D Printing	±0.15mm	500*500mm



# Main Measuring Equipment

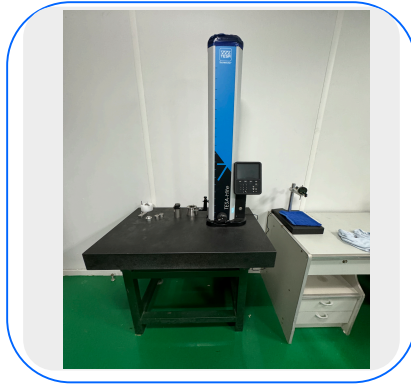
DEVICE TYPE	BRAND	MODEL	QUANTITY
CMM	Zeiss		1
Profile Projector	DT2.5T	VIP300CNC	1
Profile Projector	GT	VML300	1
Altometer	Profile Projector		3
Spectrum Analyzer	SPECTRO	XSORT spectrometer	1
<b>TATOAL</b>			<b>7</b>



# Main Measuring Equipment



1. CMM (Zeiss)



2. Altometer



3. Profile Projector

DEVICE TYPE	PRICISION	MEASURING SIZE
CMM (Zeiss)	1.9um+L(mm)/300	700X1000X600mm
Profile Projector	3.0um+L(mm)/50	250X150mm
Altometer	1.2um+L(mm)/100	0-600mm

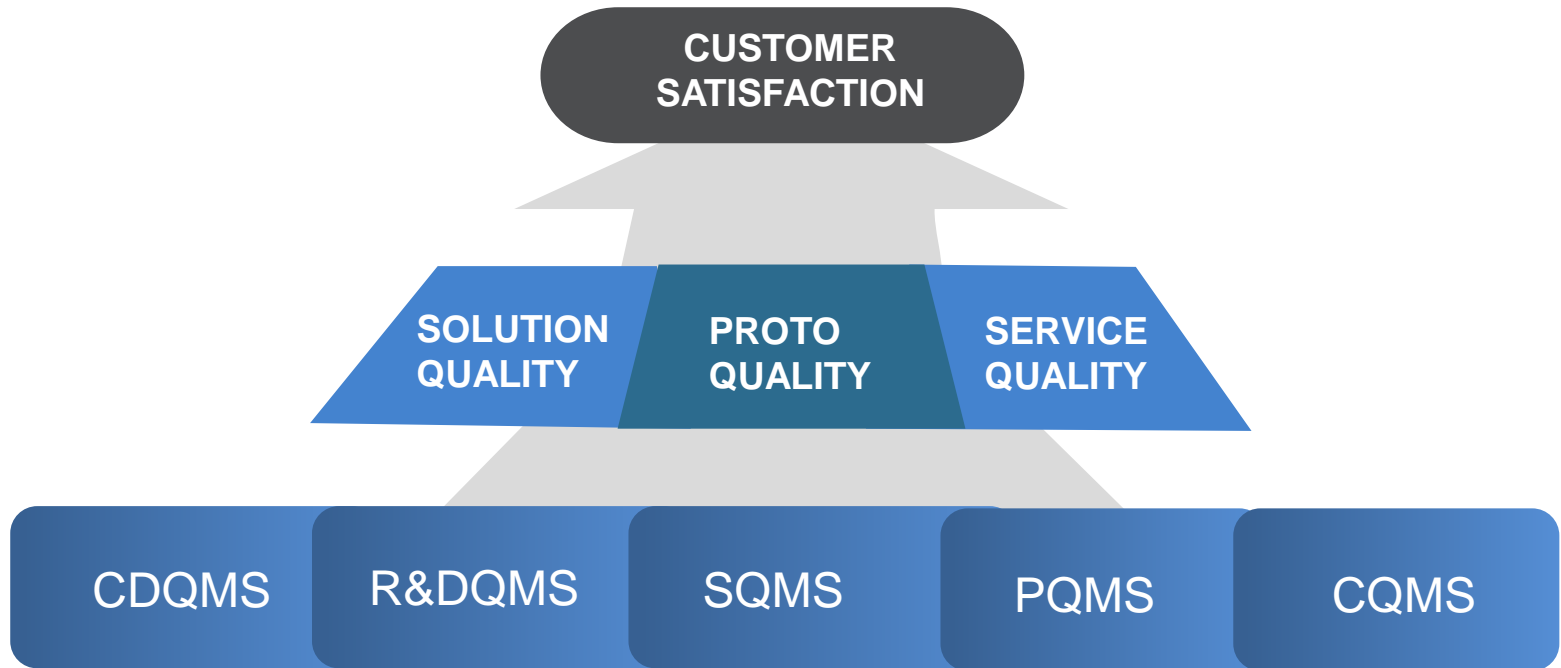
# Surface Treatment Capacity



Through years of cooperation with suppliers of surface treatment around Chengdu, a set of surface treatment quality standards applicable to customer quality standards has been improved  
Control process and quick response process



# Quality Assurance System





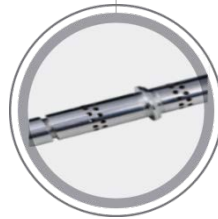
# Technician Allocation

Classification	Total	Sr. technician and above	Technician	Operator
STAFF	53			
CNC	57	7	21	29
Lathe	11	2	4	5
Miller / fitter	9	1	3	5
Quality Control	21	5	7	9
<b>Subtotal</b>	<b>151</b>	<b>15</b>	<b>35</b>	<b>48</b>

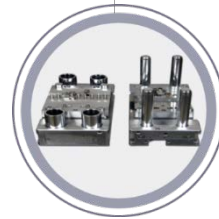
# High Precision Machining



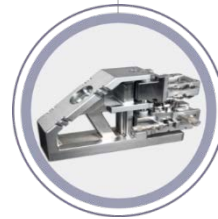
**CNC**



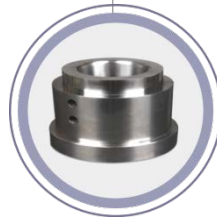
**Universal milling**



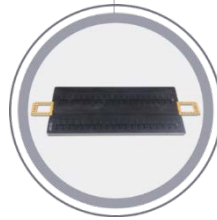
**Boring and grinding machine,  
Electric spark, Wire cutting**



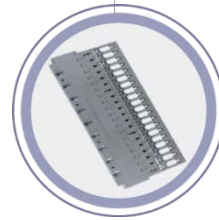
**CNC, Electric  
Spark, Wire cutting**



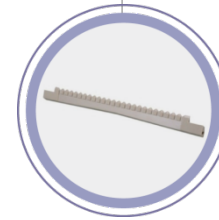
**CNC, Universal  
milling**



**CNC**



**High-speed CNC, Electric  
spark, Wire cutting**



**CNC**



Household appliance prototype



Household appliance prototype



Communication prototype



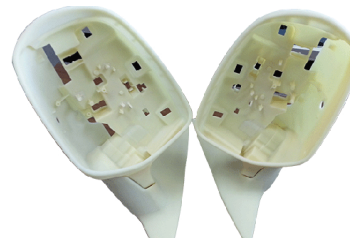
Communication prototype



Toy prototype



Toy prototype



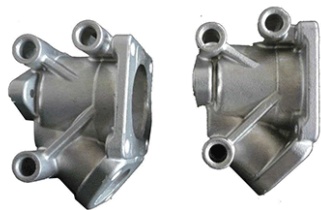
Auto parts prototype



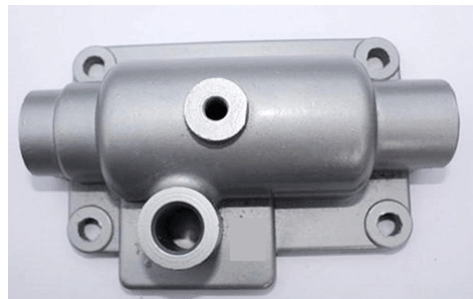
Auto parts prototype



Hardware parts prototype



Hardware parts prototype



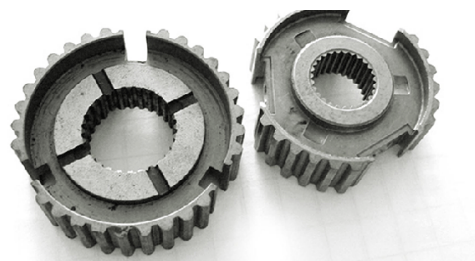
Auto parts prototype



Medical prototype



Hardware parts prototype



Auto parts prototype



Medical prototype



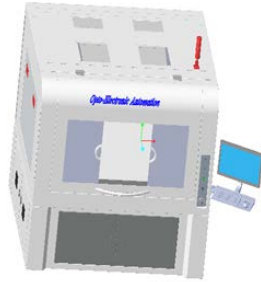
Medical prototype



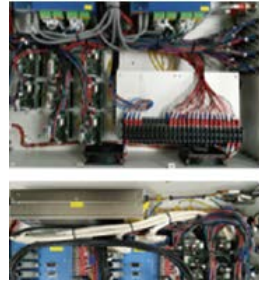
**Assembly capability: Including equipment/frame/electrical/cabinet/tooling/  
fixture & module**



**Equipment**



**Frame & Cabinet**



**Electrical Cabinet**



**Precision Stamping  
Tooling**



**Fixture & Module**



# Competitive Advantages



## Strategic Reliable Supply Chain

Long-term and stable suppliers (Raw material/anodizing/powder coating/plating/passivation, etc)



## High-precision process

Turning/milling/grinding/CNC/EDM/wire cutting (Full-process processing For Rack/Electrical Cabinet/Mold/Fixture/Module Assembly, the tolerance can meet +/-3um)



## Rich experience in machining

15+ years of precision machining experience on various materials (tungsten steel/stainless steel/aluminum/plastics/titanium/Kovar/graphite refractory/titanium-aluminium-vanadium alloy, etc.)



## Customized service system

Design—Process—Assemble—Test—After-sales service in the factory one-stop solution



## **End of presentation**

**We are looking forward to dealing  
with your company soon!**

**For more details, please contact our  
sales or visit our website.**

**Email: [info@wsfpm.com](mailto:info@wsfpm.com)**

**[www.wsfpm.com](http://www.wsfpm.com)**