

Dongguan Mission Gauge & Fixture Co., Ltd

— Your Reliable Supplier for Checking Fixtures and Welding Jigs —

www.missiongauge.com

- > Cubing (Car Cubing UCF PCF)
- Checking Fixtures for Automotives
- > Welding Automation Fixtures for Automotives

THE OWNER AND A DESCRIPTION OF A DESCRIP

> Non-standard Precision fixtures





Part 1 Company Overview



> 1.1 Company Introduction

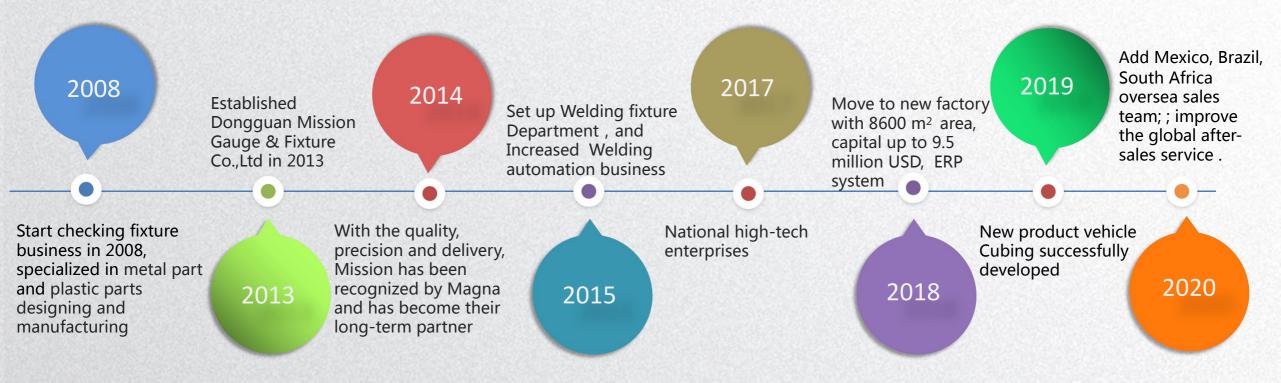


Start checking fixture business in 2008, registered on 2013, specialized in cubing, checking fixtures, welding jigs, welding line for automotive parts, and precision machining parts. Mission has become a well-known supplier at home and abroad.

- 8600m² plant area, 230 employees in total. Registered capital of 4 million USD, Annual turnover 17 million USD.
- > ISO9001:2015 certificated. State-level high-tech enterprise. 30 national patents.
- 6 sets of 5-axis CNC machines imported from Germany/Italy, 36 sets of 3-axis CNC machines from Taiwan 8 sets of CMM checking mechines. Industry-leading human and equipment resources, to ensure highy accuracy requirement, and to be the leader in the industry.
- Main Customer : Magna、Valeo、Yanfeng、Martinrea、Metalsa、Kirchhoff、Johnson Control、 Toyota、Honda、FAW Volkswagen、FAW CAR、Dongfeng Motor、Nissan、Geely、Ford、GAGC、 HAIMA、Xiaopeng、MITSUBISHI、Hong Qi、BJC、South-East、BYD etc.
- Mission policy" Customer First, Delivery on Time, Make Customer Satisfied", vision" To build Firstclass Enterprises and Achieve Positive Life".



> 1.3 Development History





> 1.4 Company qualification

ISO/IEC17025:2017 certified enterprise



ISO/IEC17025:2017 certified enterprise

相构注册号· CNAS L15514

ILAC-MPA/ONAS 标识和声明认可状态



50 National Patents



Guangdong Honest Enterprise



National High-tec Enterprise

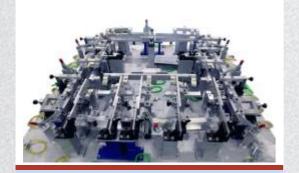


Contract abiding and honest enterprise

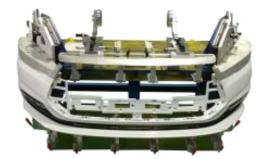




> 2.1 Main business-part 1



Gauge-Assy metal part



Gauge-Assy plastic part



Gauge-Single metal part



Gauge-Single plastic part





> 2.1 Main business-part 2





> 2.2 Market distribution

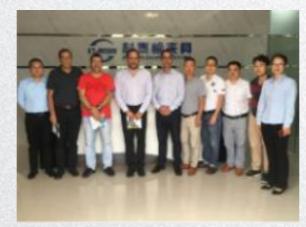




> 2.3 Customer visit pics



SMP group photo



PRD Customer group photo



JIC Group photo of customer's visit



FD Customer Visit



FD Customer visit



AAT General manager's visit

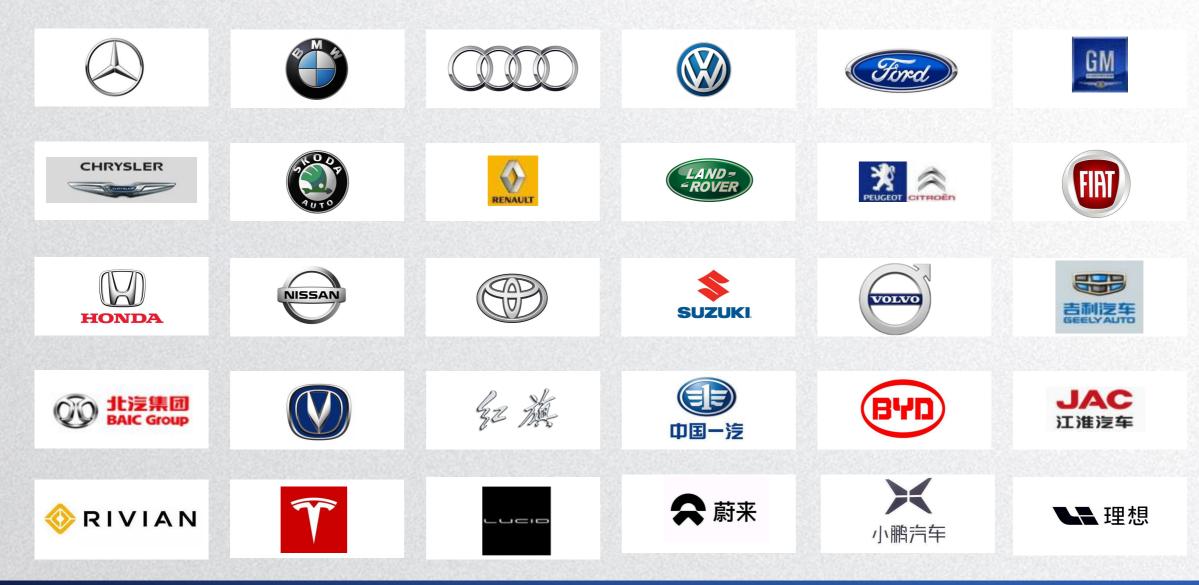


> 2.4 Direct customer





> 2.5 Major end customers



Part 3

Delivery Assurance > 3.1 Equipment Capability



Machining Equipment								
Machine Type	Parameter (mm)	Theoretical Accuracy	Actual Accuracy	QTY	Brand	Total	PIC	
5 axis Machine (Imported from German)	1250*700	0.005 mm	0.020 mm	2	DECKEL MAHO (DMU 60/80 Mono BLOCK)			
5 axis Machine (Imported from German)	1000*750	0.005 mm	/	2	DECKEL MAHO (DMU 95 Mono BLOCK)	6		
5 axis Machine (Imported from Italy)	3000*2000	0.005 mm	1	2	BRETON MATRIX 800			
ligh Speed CNC Milling Machine	2150*1500	0.010 mm	0.010 mm	2	HAITIAN			
3 axis CNC	4025*2400	0.010 mm	0.020 mm	2	AWEA LP-4025Z			
3 axis CNC	1000-1350*600	0.010 mm	0.020 mm	16	AWEA AF-1250	36		
3 axis CNC	800*600	0.010 mm	0.030 mm	10	MINGJIE/AWEA/DAWEI			
3 axis CNC	540*400	0.010 mm	0.020 mm	6	QIANGYANG			
WEDM-MS	500*350*270	0.010 mm	0.010 mm	9	FANUC/SUZHOUSANGUANG	9		

	Quality Assurance Equipment						
Machine Type	Parameter(mm)	Accuracy	QTY	Brand	Tota		
3D Programmable CMM	5000*2500*1800	0.012mm/M	1	HEXAGON			
3D Programmable CMM	3000*1500*1200	0.008mm	1	HEXAGON			
3D Programmable CMM	2200*1200*1000	0.003mm	1	HEXAGON			
3D Programmable CMM	1500*1000*800	0.003mm	1	Leader	9		
3D Programmable CMM	1000*800*600	0.003mm	2	WKM/Series			
3D Programmable CMM	800*600*600	0.002mm	1	HEXAGON			
Romer Absolute Arm	3500/2500	1	2	FARU/HEXAGON			



PIC



> 3.2 Engineering Capability

Main Model (Cubing UCF PCF) Plastic Part Gauge Metal Part Gauge Raster Holding Fixture

For checking fixture: 35 engineers in total, 20% are senior engineers, 50% are second class engineers. 45% engineers have 5 years work experience in this area.





3.2 Engineering Capability

Welding Work Station Welding Assembly Line Welding Jigs

For welding automation: 26 engineers in total, 20% are production engineers, 12% are electrical engineers, 68% are design engineers. 51% engineers have more than 5 years work experience in this area.

Design Simulation

- >According to static simulation based to ensure the design is feasible.
- According to dynamic simulation based on ensure the welding is feasible.

Electrical Capacity

>Have PLC programming capacity: MITSUBISHI/SIEMENS/OMRON/AB. >Have electric online debugging capacity.

>Have offline/online programming capacity.

Simulation Capacity

>Have robot offline programming capacity. >Have Cycle-time analyzing

capacity. >Have interference testing capacity.

Process Design Capacity

>Have RPS analyzing capacity. >Have panel processing capacity. Have spot processing capacity. >Have cycle-time design capacity. >Have capacity for choosing welding gun & robot.







Customer Standard

>Translate and Refine the standard, ensure gauge designing and building meet customers' requirements.



Software automation

Continuous investment in R&D costs. "automatic drawing " improve design efficiency by 40%.



Design simulation

>Simulate the floor activity mechanism by ensure the feasibility of the design.



> 3.3 Milling Horsepower



Equipment capacity

 Work in two shift to ensure max capacity

Monthly accuracy check to ensure quality

The fastest delivery:25days

OperProcess Standardizationational standardization

- Uniform processing, measuring, tool using mapping, bracket programming, base
- > programming and five-axis programming standards

Process Standardization

Process design review -Receive the following figure information-Making timing plan-allocating task -Main programming-Program audit-Delivery site manager - Delivery

Five-axis programming standards

Clamping-Trial knife -Medium light-Semi polishing-Polishing-Clearance angle - rework-holes



> 3.4 Alignment Ability

Mission has more than 30 assembly technicians, which 40% have more than 6 years' assembly experience in the same industry and 35% have 4-6 years' experience





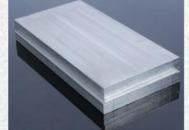
> 3.5 Project Management



PO Review



Design Review



Material Preparation



Machining



Delivery





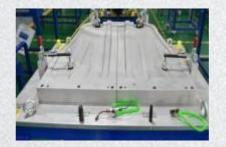
Assembly



3rd Party Certificate



Buy Off



Gauge Improvements



CMM checking



> 3.6 Total Quality Management(TQM)



9 Sets of CMM					
Brand :	HEXAGON、Series、leader				
Software :	PC-DMIS 2013MR1				
Max working platform :	5000X2500X1800 mm				
Highest accuracy :	0.012mm/M (5M of CMM)				

Quality Assurance

We has a strong testing capability, with 30 engineers, including 15 measuring engineers, 10 debugging engineers and 5 others. We can measure more than 300 sets fixtures per month

Material inspection, Equipment Calibration

- > Regular random inspection of raw materials ,
- > Regular proceed third party proofreading for CMM equipments

ISO17025 Laboratory Accreditation

ISO/IEC17025 certificate

Measuring Equipment

- 9 sets of CMM machine and most of them are HEXAGON brand with high accuracy. The biggest CMM machine's parameter up to 5 meters. The software we are using is PC-DMIS.
- Iset of FARU and HEXAGON Articulated Arm Flexible CMM for each and the software we are using is CAM. The biggest measuring parameter up to 3.5 meters.

Measuring Capability

We has a strong testing capability, with 20 engineers, including 15 measuring engineers, 8 debugging engineers and 5 measuring engineers for weldingautomation business unit.





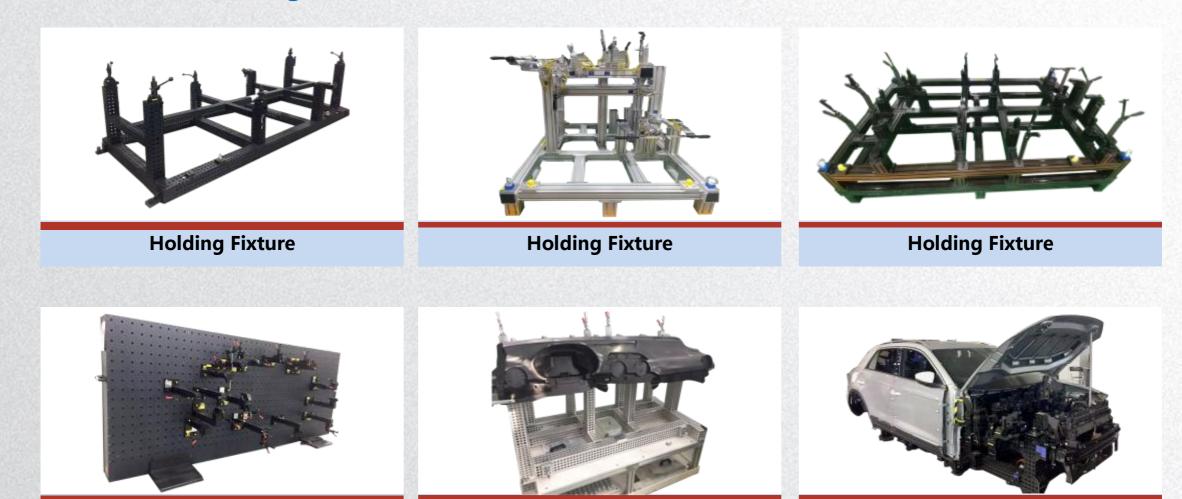
> 4.0 Cubing





Body Holding Fixture

> 4.1 Raster Holding Fixture



Flexible Combination

Flexible Instrument Panel Holding fixture

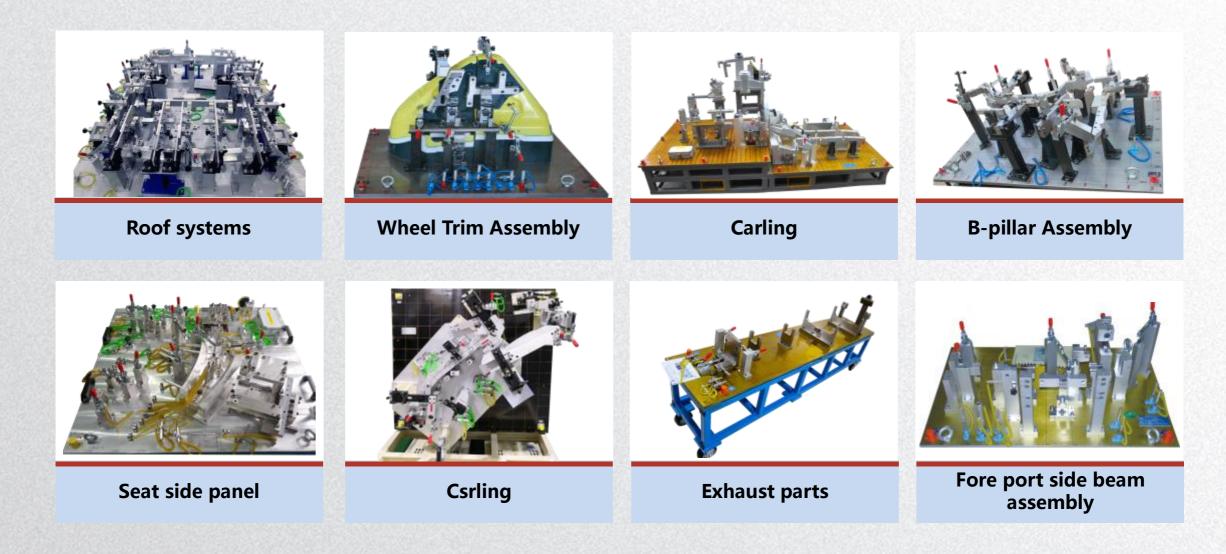


> 4.2 Assembly gauge





> 4.3 Assembly gauge

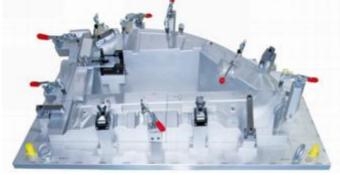




> 4.4 Single Part-metal



Wheel Trim Gauge



Stamping Part Gauge



Plastic Part Gauge



B-pillar Gauge



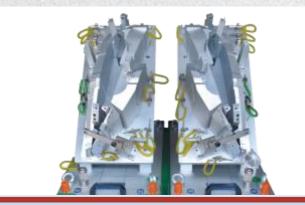
Floor crossbeam Gauge



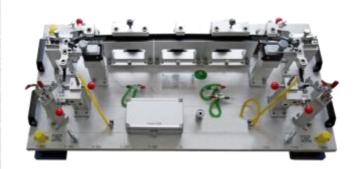
Wheel Trim Gauge



> 4.4 Single Part -Plastic Parts



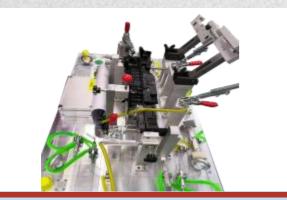
Single Plastic Part



Single Plastic Part



Single Plastic Part



Single Plastic Part



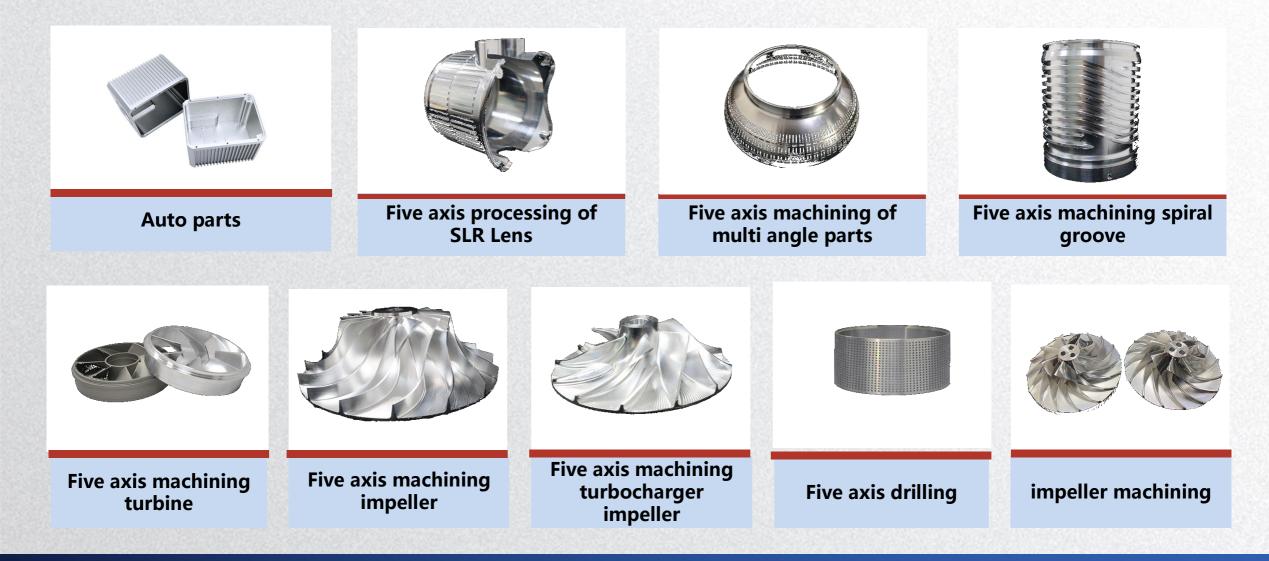
Single Plastic Part



Single Plastic Part



> 4.5 Precision machining



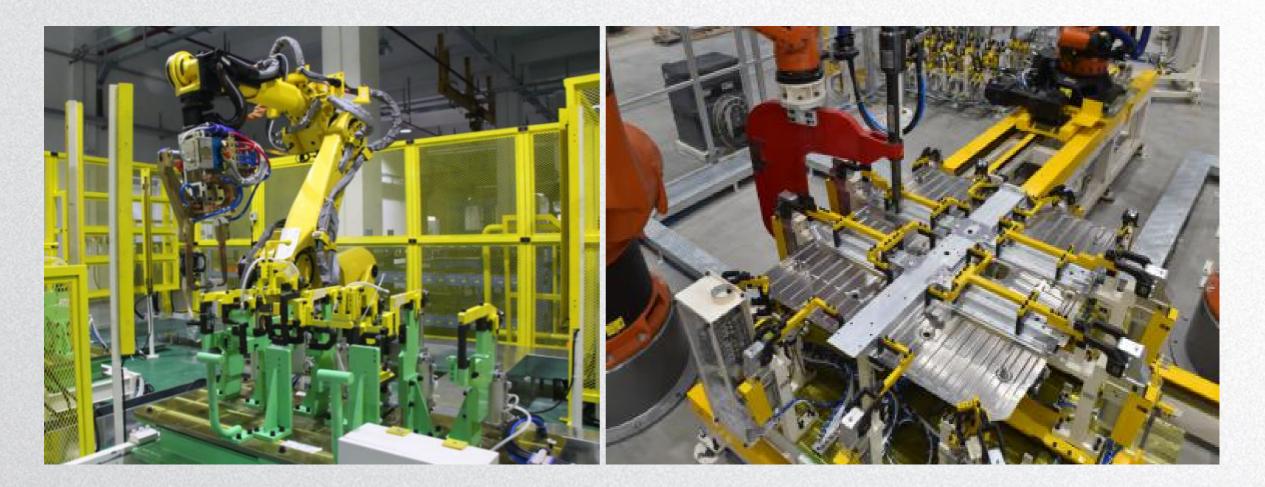


> 5.0 Line automation





> 5.1 System Workstation-Spot Welding



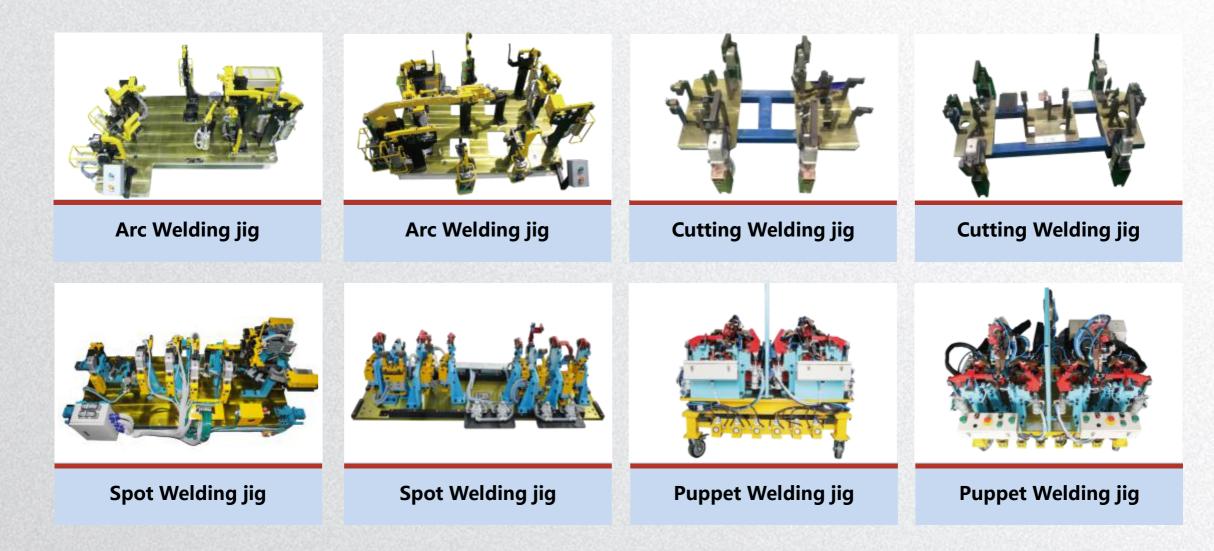


> 5.2 System Workstation-Arc Welding





> 5.3 Welding fixture





Welcome !





Dongguan Mission Gauge & Fixture Co., Ltd

Tel: +86-18822977874 / +86-769-38821737 E-mail: kt-1@missiongauge.com Website: www.missiongauge.com New Address:No.19 Hongmian Rd, Gekeng Industrial Park, Hengli Town, Dongguan City, China. Zip Code 523469