

# Global Industry Partners, LLC: Company Overview

## Our History and Experience

Global Industry Partners, LLC has a proven track record of success with nearly thirty years of combined experience in automotive braking systems for light and medium-duty vehicles, the company took a strategic step in 2022 to leverage this expertise for commercial vehicle braking systems. This initiative involved forming a professional team of manufacturers, with whom we have collaborated over the years.

## Unified Approach and Professional Counsel

Our partner manufacturers decided to unite under one entity, establishing a council of professionals across various fields. This structure enables us not only to supply products but also to uphold high standards of quality, offer competitive pricing, and demonstrate resilience by continuously developing new applications.

## Innovation and Environmental Responsibility

Beyond product development, our group of experts is actively engaged in patent creation, sourcing new raw materials, and minimizing overhead costs. We are committed to operating our facilities in an environmentally friendly manner.

## Leadership and Commitment

Each leader from our manufacturing partners is dedicated to our company, bringing hands-on experience to the products they create. This focus distinguishes us as a genuine supplier, maintaining our commitment to our guiding principle: **“Your Business Is Our Business”**.

## Certifications

All necessary certifications have been obtained from our partner manufacturers, including IATF16949, ECE R90, ISO 9001:2015, ISO 14001, and others, ensuring compliance with industry standards.

## Logistics

We have partnered with a freight forwarder whose services we have relied on since 1999. Customers are welcome to deal directly with our forwarder if they find their pricing competitive.

## Our primary products

Air Disc Brake Calipers & Repair Kits, Hydraulic Brake Calipers & Repair Kits, Air Disc Brake Rotors, Heavy Duty Brake Drums, Air Disc Brake Pads (Copper-Free), Hydraulic Brake Pads, Brake Shoe Sets with Kit (Copper-Free), Brake Lining (Copper-Free), Brake Shoe Kits, Slack Adjusters (Automatic & Manual), Air Disc Brake Chambers, Spring Brake Chambers, Air Springs, Air Strut, Air Compressors and Diesel Engine Spare Parts.

# Our products

- ADB Calipers & Repair Kits
  - Hydraulic Brake Calipers & Repair Kits
  - Light Duty Brake Calipers & Repair Kits
  - King Pin Bolt Kit
  - ADB Brake Rotors
  - Hydraulic Brake Rotors
  - Heavy Duty Brake Drums
  - Brake Pads: Semi-Metallic, Carbon Ceramic, Fiber Ceramic  
ADB Pads (Copper-Free)
  - Heavy Duty Brake Lining (Copper-Free) Brake Shoe Sets with Kits
  - Air Disc Brake Chambers Spring Brake Chambers
  - Slack Adjusters (Automatic & Manual)
  - Air Springs (Bus, Public Transportation, School Bus)
  - Air Springs (Truck & Trailer)
  - Air Springs (Axle & Airlife Axle)
  - Air Springs (Cab & Cabin)
  - RV Application Field C / S & Z Series:  
Air Spring / Air Strut / Air Compressor / Distributing Valves
  - Industrial & Agricultural Machinery Applications B & C Series
- \* Diesel Engine Spare Parts with emphasis on Cummins Engines



## Air Disc Brake Calipers, Hydraulic Brake Calipers, and Repair Kits

### Company Overview

With over 20 years of industry experience, our company is equipped with advanced manufacturing and laboratory testing equipment. Our team consists of qualified engineering and technical professionals who have previously worked with renowned manufacturers worldwide. This extensive background enables us to deliver exceptional products and services to our clients.

### Manufacturing Capabilities

Our ductile iron casting facility is capable of producing up to 30,000 calipers per month, ensuring that we can meet large-scale demands efficiently and reliably.

### Materials and Quality

For our Air Disc Brake Calipers, we utilize high-grade ductile iron QT600-7, which is the same material used in the production of OEM Air Disc Brake Caliper Housings. For our Hydraulic Brake Calipers, we use high-grade ductile iron QT500-7. These material choices guarantee the strength and durability required for critical braking components.

### Global Reach

Our products are primarily exported to various regions, including Europe, North America, South America, Southeast Asia, the Middle East, Africa, as well as being distributed domestically. This wide market presence demonstrates the trust and recognition our products have earned globally.

### Customer Commitment

We prioritize our clients' needs by consistently supplying high-quality products, ensuring on-time delivery, and maintaining competitive pricing. Our commitment to customer satisfaction is at the core of our business philosophy.

### Product Development

Our company is flexible and possesses the expertise required to develop new products within record timeframes. This agility allows us to respond swiftly to market demands and client specifications.

### Quality Assurance

We operate in accordance with ISO IATF16949 Certification standards. Quality is our guiding principle, and we approach every project with a strong sense of responsibility and dedication to excellence.

**COMPARISONS**  
**QT500-7 (Hydraulic Calipers)**

1. CHEMICAL ANALYSIS (UNIT %)											
ELEMENT	C	Si	Mn	P	S	Mg	Cu	/	/	/	/
SPEC %	3.6-3.9	2.5-2.9	0.4	≤0.07	≤0.02	0.04-0.06	0.35				

**QT600-7 (Air Disc Brake Calipers)**

1. CHEMICAL ANALYSIS (UNIT %)											
ELEMENT	C	Si	Mn	P	S	Mg	Cu	/	/	/	/
SPEC %	3.6-3.9	2.5-2.9	0.5	≤0.07	≤0.02	0.04-0.06	0.45				

**PHYSICAL TESTS – MECHANICAL PROPERTIES – QT500-7 (Hydraulic Calipers)**

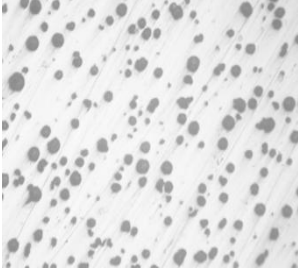
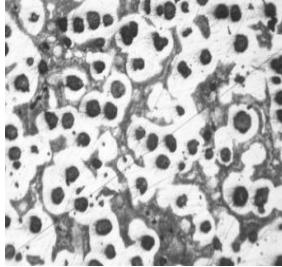
2. PHYSICAL TEST						
(A) MECHANICAL PROPERTIES						
ITEM	TENSILE TEST			HARDNESS	BLOW-TEST	
	(Mpa) TENSILE STRENGTH	0.2% (Mpa) YIELD SIRENGTH	(%) ELON GATION	Brine II (HB) – (ϕ10/3000)	(J) Impact Strength	
SPEC	500Mpa	320Mpa	7%	170-230	≥100J	30°C ≥ 70J

**PHYSICAL TESTS – MECHANICAL PROPERTIES – QT600-7 (Air Disc Brake Calipers)**

2. PHYSICAL TEST						
(A) MECHANICAL PROPERTIES						
ITEM	TENSILE TEST			HARDNESS	BLOW-TEST	
	(Mpa) TENSILE STRENGTH	0.2% (Mpa) YIELD SIRENGTH	(%) ELON GATION	Brine II (HB) – (ϕ10/3000)	(J) Impact Strength	
SPEC	600Mpa	370Mpa	7%	190-270	≥100J	30°C ≥ 70J

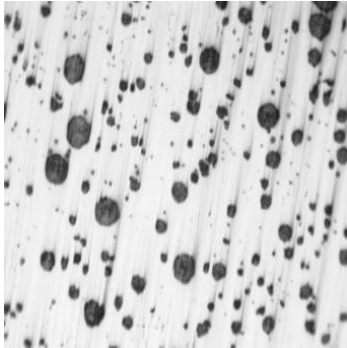
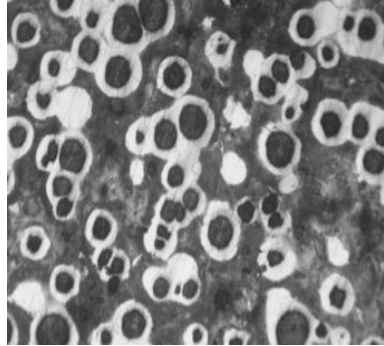
### MICRO – STRUCTURE TEST – QT500-7 (Hydraulic Calipers)

(B) MICRO STRUCTURE TEST			
GRAPHITE *100	(VI90%) ( / ) Spheroidizing: ( / )		
	Type Size SG	90%	/ /
MATRIX (%) *100	Ferrite ( / ) Pearlite (35%) Cementite ( / )		
	Ferrite + 1% Pearlite	0	
RESULT	OK		

### MICRO – STRUCTURE TEST – QT600-7 (Air Disc Brake Calipers)

(B) MICRO STRUCTURE TEST			
GRAPHITE *100	(VI90%) 尺寸 ( / ) Spheroidizing: ( / )		
	Type Size SG	90%	/ /
MATRIX (%) *100	Ferrite ( / ) Pearlite (55%) Cementite ( / )		
	Ferrite + 1% Pearlite	0	
RESULT	OK		

# 铸造设备

## Casting equipment



◀ FCMX modeling system  
FCMX molding machine auxiliary production line ▶



◀ Automatic batching system ▶



# 生产装配

## Production assembly



◀ Line assembly

Testing  
equipment ▶



◀ Processing  
equipment ▶



## Air Disc Brake Rotors

Prior to commercializing ADB Rotors, our previous market was light duty rotors, selling to the major and well-known brands, averaging a production and sales of 500,000 rotors per month: from 1994 – 2007. Thereafter, in 2008, we cooperated with a factory to run a quality control and packaging for a small ADB Rotor manufacturer as the first step, to become familiar with the products and its marketing, making improvements in the appearance of the products and how to differentiate with other local manufacturers.

In 2009, we moved to a manufacturing facility with a covered roof space of 8,240 sq. meters with one single line of machining equipment. By 2010, we had 3 production lines.

In 2011 the casting foundry was set up and started to develop our own molding workshop, laboratory and testing instruments making us an independent manufacturer enabling us to expand our business for the European and North American markets.

We currently have 4 1-ton steel shell electric furnaces with an annual production of 28,300 tons.

Our facility aims for completely and fully automated processing:

- The casting workshop added a fully automatic sand treatment line.
- Two fully automatic open casting production lines that includes the production process from quality control of casting's raw materials → material detection in the casting process → pre-furnace analyzer and spectrum inspection → tensile test to metallographic analysis and hardness test.
- The machining workshop we introduced an advanced vertical production equipment and fully automatic balancing machine and other fine testing processes.
- Added 3 high precision integrated coarse and fine vertical processing lines in 2020. With an output of 1,500 units per day. (20-30 tons)
- **In 2024**, we are planning to extend our machining plant next to our new plant of 20,000 sq. meters, increasing two new production lines transforming our production capability up at least 2 to 3 times than current output. (3,000 – 4,500 units per day).

Our coverage has approximately 300 applications for transit and trucks for the European Markets, 30 applications for the North American markets for trucks, trailers, transit, and coach. In 2024, we will reach a total of 40 applications. 100 applications for Asian markets that includes OEM.

Since 2017 to present we have been supplying the transit transportation for Beijing and Shanghai.

We follow the quality standards under the IATF16949 certification.







←  
成品库

→  
包装车间

## Passenger, Hydraulic and Air Disc Brake Pads

We are proud to partner with a manufacturer that we commonly share the same values of “**producing under the concept of cleaner production, resource conservation and environmental protection**”.

We have already surpassed 8 million sets of brake lining for passenger cars.

For our Hydraulic Pads, we have a full range for the European and North American Markets.

Technology innovation is what thrives us to constantly improving our products. Leading in technology is the benchmark of our industry.

Our product range consists of: Semi metallic Brake Pads, Carbon Ceramic Fiber Brake Pads, Ceramic Brake Pads, Off Road Brake Pads (Wind Turbine Brake Lining), Steel Backing Plates, Construction Equipment Brake Pads and Air Disc Brake Pads.

### **Air Disc Brake Pads**

Our specialty resides in the development of formulations for Commercial Vehicles with the following certifications: ISO IATF16949, OHSAS 18001, ISO 14001, ECE R90, FMVSS-121 and AMECA Notice of Equipment Compliance. We cooperate in technology and formulation with one of the world leaders in friction materials.

**The year 2024** is the year that our manufacturing process will become fully automated, as we perceived an increase in our sales volume in Europe as well as in North America.

No different to our other manufacturing facilities, we are striving as a team to support the business to major business players in each country. Our focus is to become a true partner with quality, on time delivery and price competitiveness and “**automation is our common denominator**”.

Environmentally friendly products are part of our mission.

At present our partner has 5 "utility model patents", 5 "invention patents"; 1 "invention patent" under application and has become a member of China Friction and Sealing Material Industry Association, China Automobile Brake Committee, and China Urban Public Member unit of the Material Work Committee of the Transportation Association; **member of the Shanghai New Energy Industry Association.**

Our brake lining for CV vehicles has black powder coating backing steel plate with a high retention system. Low metallic with proprietary technology with materials that increase friction and reduce wear and noise. and are “**Copper-Free**” for GAWR 23K, 26K & 28.5K

The ADB Pads for 28.5 GAWR for extreme service duty, with special black powder coating with high shear strength and with a stripe to seat the pad to the rotor to reduce the wear and noise.

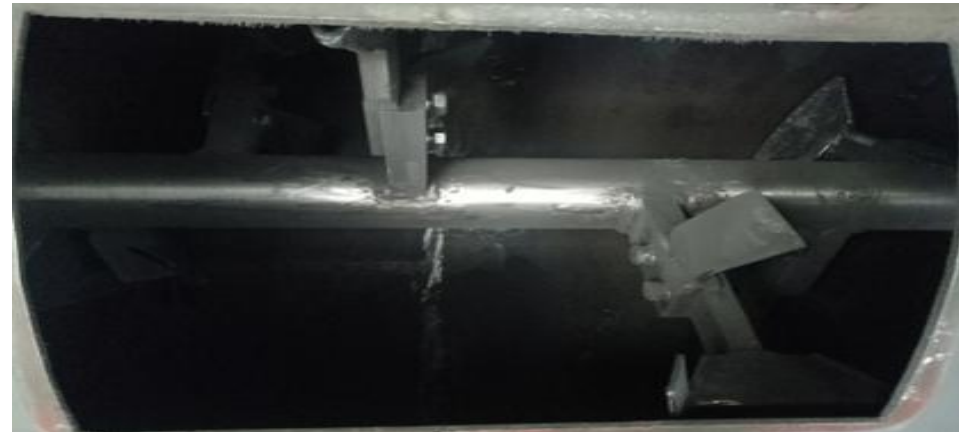
## Hot press automatic feeding devices



# Grinding Automation



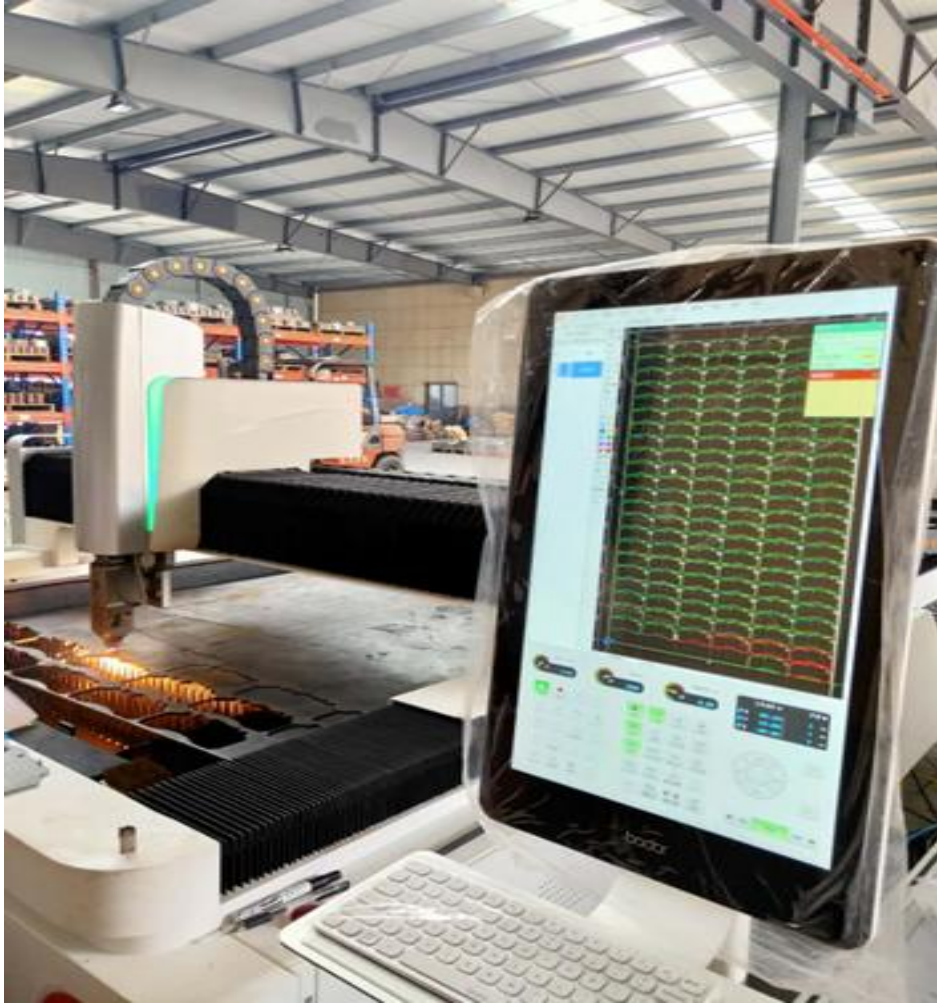
# Automatic Batching Machine



# Automatic Weighing Machine



# Laser Cutting Machine



## CV Dynamometer Test Machine Compressibility Test Machine



Chase Test Machine



Shear Strength Test Machine



## Premium Lining Brake Shoe Set W/Kit

Our manufacturer team of Brake lining, Metal Shoes, Brake Shoe Sets and Brake shoe Kits have a hands-on experience on technology, materials, formulations, and innovation. Their experience was acquired from working as engineers on leading international companies in friction materials.

This is an outright program in which we offer our products with no core returns.

The lining, metal shoes, and kits are manufactured in-house.

Our lining formulation for 23,000 Lbs. GAWR complies with the test description under the FMVSS-121 at Link laboratories.

Our formulation consists of non-metallic, non-asbestos with excellent performance and stability with ceramic, mineral fibers and **“Copper-Free”**.

For the aftermarket our 23K GAWR, we carry 2 formulations, both with perfect friction performance. However, the second formulation option is resistant at higher temperatures in which we use aramid and some special fibers. Both of our formulations are proprietary and have passed the tests at the Greening Testing Laboratories.

For our Brake Shoe welding: We use the Seam welding for most of our applications, except on applications where the rivets do not allow the seam welding process. Under these applications we use the Punch welding process.

We have supplied linings for Formar, BK, Indubal, as well as other OE Aftermarket customers. We have a full range of applications for the European and North American markets and carry the 3C Certification from China (China Compulsory Certification).

Our partner manufacturer is also an entity that produces environmentally responsibly, with certifications on ISO 14001, ISO IATF16949 and ECE R90.



## Spring Brake Chambers, Slack Adjusters & Camshaft Repair Kits

Our partner manufacturer has highly experienced professionals at researching and developing new products in time records, producing Spring Brake chambers, Slack Adjusters and Camshaft Repair Kits. With an active ISO IATF16949 certification and with several “Utility Patent Certificates”.

We have large-scale processing centers and numerically controlled machine tools as well as internationally advanced instruments and test equipment devices. Roughness tester, three coordinates measuring machine, ultrasonic metallographic phase tester, auto gap detection platform, torque adjustment detection platform, sand dust test chamber, salt spray test chamber, temperature, and humidity chamber and more.

Depending on our customer requirements we manufacture products with a warranty of 12 months or 24 months. If our client prefers a warranty of 36 months, we can offer it under the client material specifications on the springs and diaphragm.

Our Slack Adjusters 'rated working torque is between 20,000 – 23,000 in-Lb.



## Brake Drums for Commercial Vehicles

### Overview

Brake drums for commercial vehicles play a crucial role in ensuring reliable braking performance and long-lasting durability. Our drums are designed and manufactured to meet international metallurgical standards, providing consistent strength and efficient heat dissipation.

### Material and Standards

**GG25 Cast Iron:** Our drums are produced under the GG25 grade, a designation defined by the European Standard DIN 169. "GG" stands for Grauguss (German for Grey Cast Iron), while "25" indicates a minimum tensile strength of 250 MPa (N/mm<sup>2</sup>).

**Strength Characteristics:** GG25 cast iron offers high compressive strength, providing excellent resistance to crushing and deformation under load. The compressive strength is typically three to four times greater than its tensile strength.

### Technical Specifications

**Maximum Imbalance:** The maximum allowable imbalance for the brake drums is 1440g.cm , equivalent to 14,400 g.mm.

### Surface Treatment

**Painting:** The drums receive a black paint finish on the outside casting surface, followed by an application of antirust oil to provide additional protection after painting.

### Packing

**Packaging:** Drums are packed in bulk on plywood pallets and secured with steel belts to ensure safe transport and handling.

### Guarantee

**Warranty:** The brake drums are guaranteed for one year from the Bill of Lading (B/L) date or up to 50,000 kilometers, whichever comes first.



# AIR SPRING - AIR STRUT - AIR COMPRESSOR

## APPLICATION FIELDS

- COMMERCIAL VEHICLES
- PASSENGER CARS
- INDUSTRIAL & AGRICULTURAL EQUIPMENT
- RAIL TRANSIT
- MODIFIED CAR

OUR MARKETS: EUROPE, NORTH AMERICA, SOUTH AMERICA, ASIA



# Air Suspension System Overview

## Key Components of Air Suspension Systems

Air Springs, Air Struts, and Air Compressors

## Manufacturer Quality and Certifications

Our manufacturer partner has developed a rigorous quality control system, achieving several certifications: IATF 16949 for quality management, ISO14001 for environmental management, clean production certification, and GB/T 29490-2013 for intellectual property management. Recognized as a national high-tech enterprise and a national intellectual property demonstration enterprise, the company also serves as an electronic control air shock absorption engineering technology research center. It holds over 100 patents, six international trademarks, and eight domestic trademarks.

## Advancing Air Shock Absorption Technology

We are dedicated to promoting the widespread use of air shock absorption products across multiple industries.

### PRODUCT TESTING



MTS Mechanical Property Test



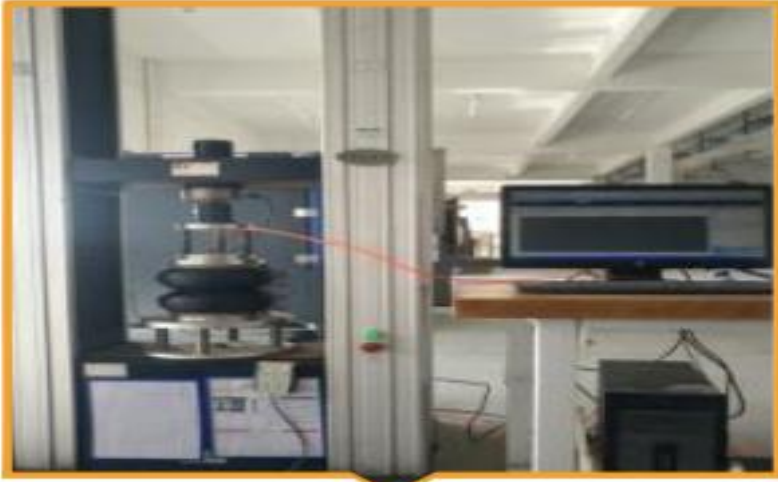
Fatigue Test



Static & Dynamic Load Test



Blasting Test



Stroke test



Dimensional metrology  
test



Flexibility test



Indication  
characteristic test



Conducting various tests to measure the tensile strength, tear strength, and elongation at break of air springs



Conduct accelerated weather resistance testing on rubber materials



Measure the density of rubber material



Measure the moisture content of the curtain cord



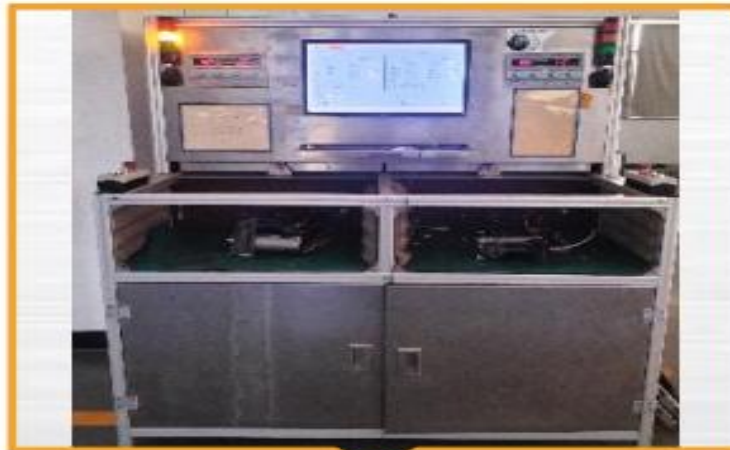
Fatigue test of air spring under simulated high and low temperature environments



Salt spray test



Accurately simulate complex natural environments Conduct durability testing on such as low temperature, high temperature, high temperature and high humidity, and low temperature and low humidity electronic air pumps



## Global Industry Partners: Diesel Engine Spare Parts Distribution

For more than ten years, Global Industry Partners has worked closely with a supplier specializing in diesel engine spare parts, with a particular focus on distributing Cummins parts. Our strategic location in Wuhan City, Hubei Province, enables us to effectively serve our customers in the region. We have developed and maintained strong partnerships with both OEM and aftermarket manufacturers of engine components, ensuring access to a wide range of quality products.

### Warehouse Operations

Our warehouse, which covers 5,000 square meters, serves as the central hub for consolidating products from customer orders. From this facility, we dispatch orders to various countries, supporting our clients' global needs. Additionally, we offer the capability to prepare orders using our customers' own packaging, upon request, providing flexibility to meet specific requirements.



# DIESEL ENGINE SPARE PARTS

**We specialize in supplying OEM and Aftermarket Cummins Parts**

- Upper & Lower Engine Gasket Sets
- Rear Crankshaft Seal Kit
- Water Pump
- Thermostats
- Salvage Sleeve
- Intake & Exhaust Valves
- Connecting Rod Bearing Kit
- Connecting Rod Cap Screw
- Vibration Damper
- Cooler Core
- Camshaft
- Seal Kits
- Valve Tappet
- Valve Spring
- Valve Stem Guide
- Valve Cover Gasket
- Oil Seal
- Oil Pan
- Rocker Lever
- Flywheel Ring Gear
- O Ring Seal
- Pin Dowel
- Fuel Filter Head
- Crankshaft Gear
- Engine Block
- Cylinder Head Gasket
- Pistons
- Piston Rings
- Injectors
- > Engine Crankshaft
- > Crankcase
- > Integrated Wiring Gasket
- > Fuel Transfer Pump
- > Belt Tensioner
- > Connecting Rod
- > Connecting Rod Bolt
- > Bearing Set
- > Rubber Vibration Damper
- > Wear Sleeve Kit Rear Seal
- > Camshaft Gear
- > Hex Flange Head Cap Screw
- > Tappet Guide
- > Valve Stem Seal
- > Valve Insert
- > Valve Cover Gasket
- > Oil Pan Seal
- > Push Rod
- > Gear Housing
- > D Ring Seal
- > Rectangular Ring Seal
- > Retainer Ring
- > Oil Filter Head
- > Cylinder Kit
- > Cylinder Head
- > Cylinder Liner Kit
- > Oil Pump
- > Turbocharger
- > Electronic Parts



**Manufacturing Unity under an Environmentally Friendly Production is Our Priority.  
Thanks for the Opportunity to Serve You!  
Global Industry Partners, LLC.**