

What are you looking for?



Search

Deliver to:



US



Create account

≡ All categories   Featured selections   Order protections

Buyer Central   Help Center   App &amp; extension   Sell on Alibaba.com

Electronic Components, Accessories &amp; Telecommunications &gt; Sensors &gt; Motion &amp; Position Sensors

**BWS688B High-Shock-Resistant Motion & Position Sensor Designed for Precise Navigation & Dynamic Control of Moving Carriers**

No reviews yet



Wuxi Bewis Sensing Technology Llc 11 yrs CN



Photos Attributes

**Other recommendations for your business**

BW-D65-B Series Six-Axis Force Sensor Motion &...	BW-5122 High-Precision Modular Navigation Syste...	Durable BWS460 Industrial Inertial Navigation System...	BW-VG55R Low-Cost CAN Dynamic Inclinometer...
<b>\$399-450</b> MOQ: 1 set	<b>\$4,000-5,000</b> MOQ: 1 set	<b>\$4,000-5,000</b> MOQ: 1 set	<b>\$200-300</b> MOQ: 1 set



**Supplier highlights:** This supplier is both a manufacturer and trader, exporting mainly to South Korea, the UK, and Spain, with a positive review rate of 100.0%.

Attributes   Reviews   Supplier   Description

**Key attributes**

Mounting Type	vertical and horizontal	Model Number	BWS688B
Type	Inertial Measurement Unit	Brand Name	BWS688B
Usage	industry	Description	High-shock-resistant Device Designed for Precise
Place of Origin	Jiangsu, China	Series	BW
Output	SPI	Description	BWS688B
Shock Resistance	2000 g	Temperature Compensation...	-40°C ~ +85°C
Gyroscope	±450°/s range, 1.2°/h Allan variance bias stability	Accelerometer	±18g range, 20µg Allan variance bias stability
Dimensions	47mm (L) x 44mm (W) x 14mm (H)		

**Packaging and delivery**

Selling Units	Single item
---------------	-------------

[Show less ^](#)

Minimum order quantity: 1 set

**\$1,000-5,000****Quantity** 0 **Shipping****\$50 off first shipping order**

Ocean freight via Maersk

Shipping fee: starts from US \$0.84/kg (min. 50kg), subjected to final delivery

Transit time: Est. 17-24 days

[Get quote](#)

Or, chat with the product supplier for more shipping options.

Item subtotal **\$0.00 - \$0.00**Shipping total **To be negotiated****Subtotal** **\$0.00 - \$0.00**[Send inquiry](#)[Chat now](#)

4 interest-free payments with

**Alibaba.com order protection** **Secure payments**

Every payment you make on Alibaba.com is secured with strict SSL encryption and PCI DSS data protection protocols

**Money-back protection**

Claim a refund if your order doesn't ship, is missing, or arrives with product issues

Only orders placed and paid through Alibaba.com can enjoy free protection by



**Lead time**

Quantity (sets)	1 - 15	> 15
Lead time (days)	15	To be negotiated

^

**Ratings & Reviews**

Product reviews (0)

**Store reviews (48)****5.0**
 **Very satisfied**  
 Based on 48 reviews for verified purchases 

Supplier service	5.0
On-time shipment	5.0
Product quality	5.0

 All

With photos/videos (1)

Rating ▾

 United States (4)

↓ Sort by: Most relevant ▾

Show reviews that mention:

Good service (1)

Good order (1)

Fast delivery (3)

 Showing all reviews in your chosen language [Show original](#) J\*\*\*n South Africa Verified purchase

Product is as promised, functions well and is good quality. Product support is also superb!

Aug 5, 2025

 BW-VG55R Low-Cost CAN Dynamic Inclinometer Motion & ... [See product details >](#)

\$200-300

 Helpful (1) p\*\*\*e France Verified purchase

The product is super very precise and works very well very good quality.

Jun 23, 2025

 Supplier's reply: Dear Poulin, Thank you for your support and trust in us, ... [Show all](#)[See product details >](#)

\$320-345

 Helpful (0) C\*\*\*n South Africa Verified purchase

Great product. Will order again soon! Very professional service and assistance

Jun 6, 2025

 Supplier's reply: Dear Christo, Thank you for your support and trust in us... [Show all](#)[See product details >](#)

\$250-299

 Helpful (0)[Show all](#)**Know your supplier****Wuxi Bewis Sensing Technology Llc**

Manufacturer, Trading Company 11 yrs on Alibaba.com

④ Located in CN

**Company overview**

On-time delivery rate

**100.0%**Online revenue  ⓘ**US\$ 30,000+**

Response Time

**≤6h**[Company profile](#)[More products](#)**Product descriptions from the supplier****Warning/Disclaimer**California Proposition 65 Consumer Warning [View more](#)

## Product Description

### Key Specifications

Triaxial Gyroscope: Measurement range  $\pm 450^\circ/\text{s}$   
 Triaxial Accelerometer: Measurement range  $\pm 18\text{g}$   
 Triaxial Magnetometer: Measurement range  $\pm 8$  gauss  
 Digital Barometer: Measurement range 300 mbar ~ 1100 mbar  
 High Bandwidth: 400Hz  
 Factory-Calibrated Temperature Compensation: Bias stability, linearity, and cross-axis error calibration  
 Temperature Compensation Range:  $-40^\circ\text{C} \sim +85^\circ\text{C}$

Communication Interface: SPI

Integrated Temperature Sensor

Power Supply Range: 3.0 V ~ 3.6 V

Shock Resistance: 2000 g

Compact Design: Lightweight and miniature form factor

Compatibility: Matches ADIS16488A

Application Fields

Industrial Vibration Resistance & Attitude Control

Automated Machinery

Robotics Control

Platform Stabilization & Control

Instrumentation Systems

Product Description

The Inertial Measurement Unit (IMU) is a compact, high-shock-resistant device designed for precise navigation, control, and dynamic measurement of moving carriers. It integrates a triaxial MEMS gyroscope and triaxial accelerometer with advanced error compensation algorithms (including temperature, installation misalignment, and nonlinear corrections). Processed data is output via a customizable SPI interface, while built-in sensors (magnetometer, barometer) enable comprehensive environmental sensing.

### Core Features:

#### High-Precision Sensors

Gyroscope:  $\pm 450^\circ/\text{s}$  range, 1.2°/h Allan variance bias stability  
 Accelerometer:  $\pm 18\text{g}$  range, 20 $\mu\text{g}$  Allan variance bias stability

Magnetometer:  $\pm 8$  gauss range for yaw angle accuracy

#### Robust Environmental Adaptability

Operates in  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$  with factory-calibrated temperature compensation.  
 Survives 2000g shock and vibration-intensive industrial environments

#### Compact Integration

Dimensions: 47mm (L)  $\times$  44mm (W)  $\times$  14mm (H)

#### Weight:

Optimized for drones, robotic arms, and portable instrumentation.

#### Data Output & Compatibility

SPI interface supports high-speed data streaming (up to 2000Hz).

Compatible with industrial standards

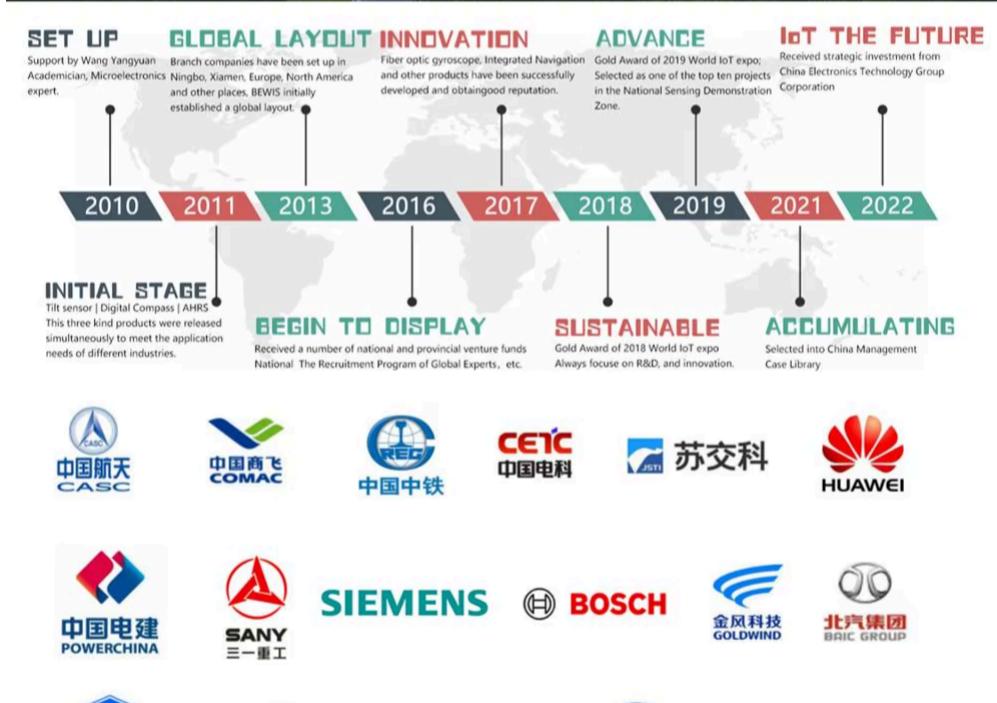
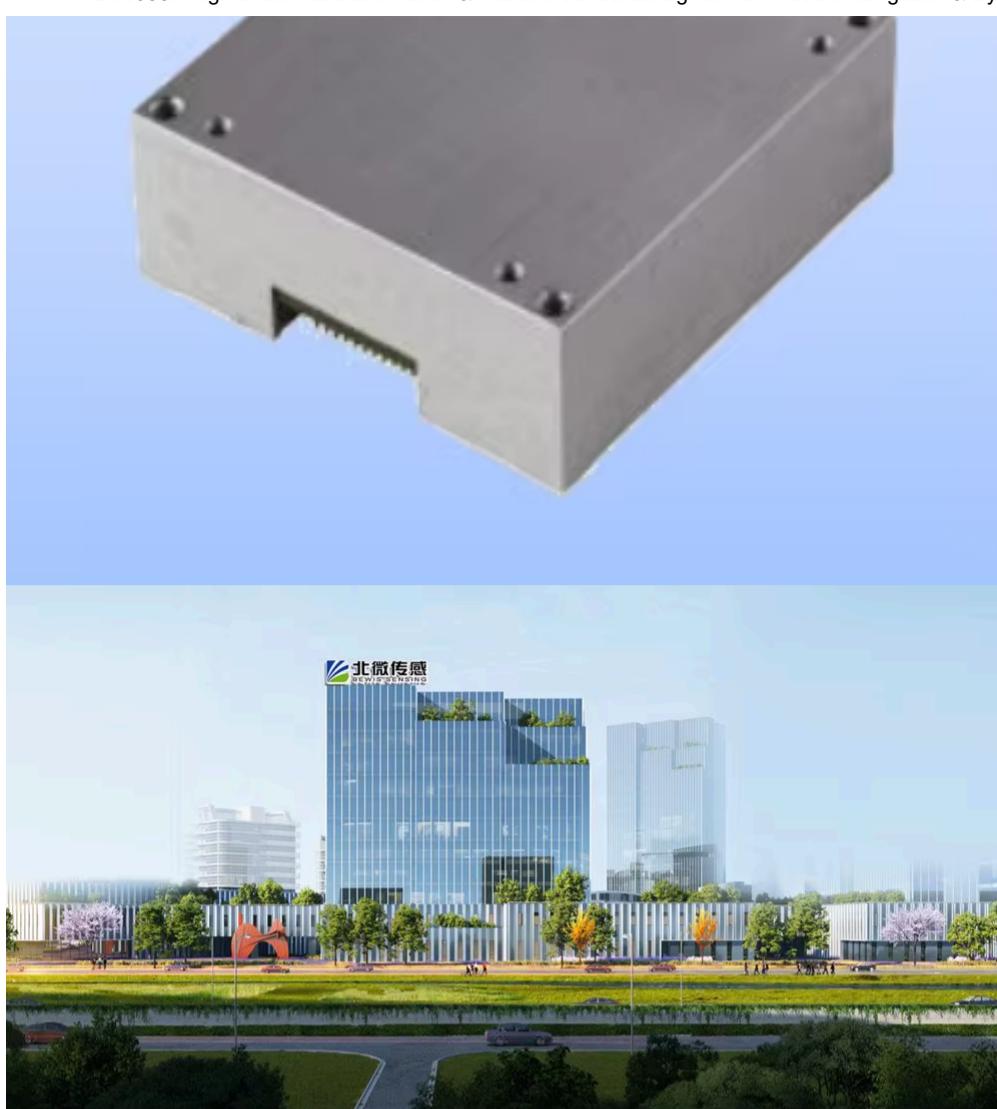
#### Competitive Advantages

Cost-Effective Industrial Solution: Balances MEMS performance with reliability for harsh conditions.

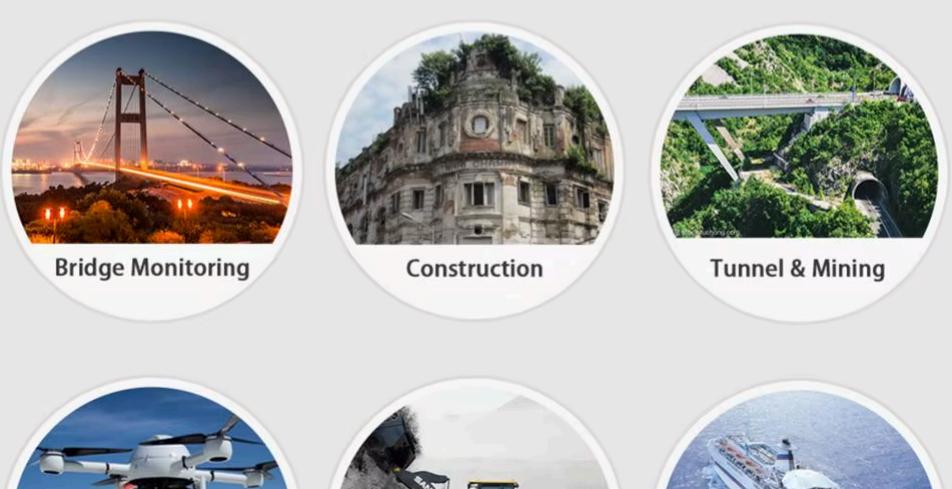
Multi-Sensor Fusion: Integrated magnetometer and barometer enable 10-axis sensing

Low Power Consumption: Efficient 3.0–3.6V power design extends battery life in mobile applications.





### • Hot solution







## Specification

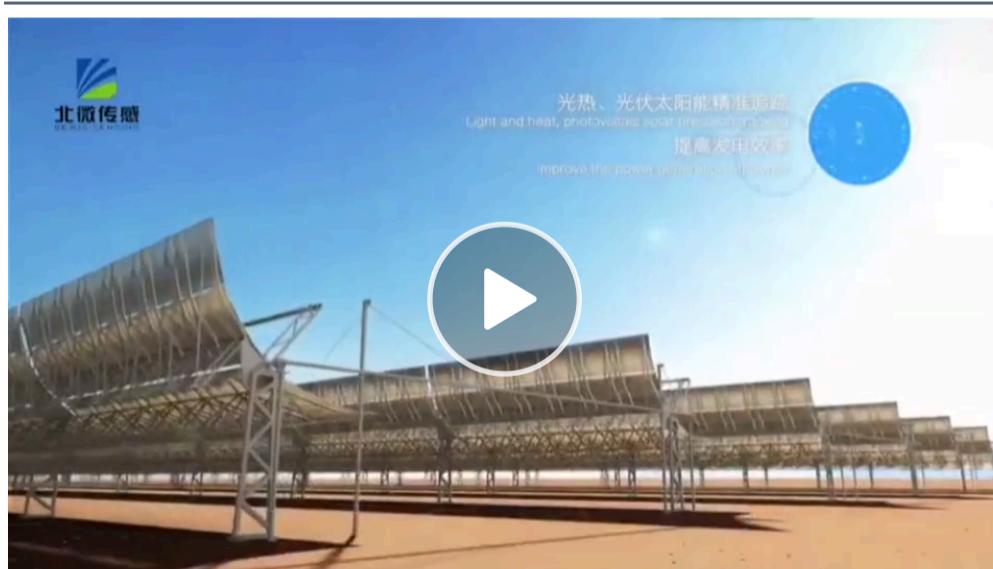
item	value
Mounting Type	vertical and horizontal
Description	High-shock-resistant Device Designed for Precise
Model Number	BWS688B
Type	Inertial Measurement Unit
Use	industry
Series	BW
Place of Origin	China
	Jiangsu
Brand Name	BWS688B
Theory	
Output	SPI
Description	BWS688B
Shock Resistance	2000 g
Temperature Compensation Range	-40°C ~ +85°C
Gyroscope	±450°/s range, 1.2°/h Allan variance bias stability
Accelerometer	±18g range, 20µg Allan variance bias stability
Dimensions	47mm (L) x 44mm (W) x 14mm (H)

## Packing & Delivery



To better ensure the safety of your goods, professional, environmentally friendly, convenient and efficient packaging services will be provided.

## Company Profile



Bewis Sensing is currently the largest, most powerful high technology company which professionally specialized in R&D, production, sale and system integration on hundreds of models of inclinometer sensors, digital compasses, accelerometer, navigation attitude system, fiber-optic gyroscope and Inertial navigation etc. Our company with the basic business philosophy of specialization and marketization is based on technical work and sensor market services, including many countries such as Europe and United States. As the important part of Cyber Physical System, our products play an important role in Smart Factory, improving the level of automation and protecting the safety of our users. We are committed to "the Fourth Industrial Revolution (Industrie 4.0)" and provide inertial attitude control sensing technology. Currently Bewis with its leading position in R&D capability and technical level, has finished its strategic layout in in Munich, Hong Kong, Wuxi, Dalian, Shaoxing, Ningbo, Xiamen, etc. International staff from the United States, Hong Kong, Japan account for 10% of the total employee, Master and Doctor Degree over 50%, R&D and technical staff reaching 70%. The Bewis Sensing brings together the technical team IEEE FELLOW, Chinese Academy of Sciences "Hundred Talents" selected candidates, 973 chief scientist and two candidates from thousand experts, etc. Bewis charges with major projects, including Science and Technology Innovation Fund, Jiangsu Province Science and Technology Support Program, National Scientific and Technological Project, China's high-tech Research and Development Program (863 Program), the Hong Kong Research Grant Council (RGC) General Research Fund, etc.



Kong Innovation and Technology Project (ITF-UIM-151), Semiconductor Particles (National plan), National Natural Science

Foundation,etc.

The Bewis Sensing establishes long-team cooperation relationship which aims to do cutting-edge technology research and Cultivate talents with Peking University, University of Arkansas, City University of Hong Kong, Zhejiang University and Xiamen University.What's more, Bewis and Zhejiang University train the Postdoctoral in MEMS sensors with one Doctor Candidate right now.

## FAQ

### 1. who are we?

We are based in Jiangsu, China, start from 2010,sell to Western Europe(20.00%),North America(20.00%),South America(10.00%),Eastern Europe(10.00%),Northern Europe(8.00%),Mid East(8.00%),Africa(6.00%),Southeast Asia(5.00%),Southern Europe(5.00%),South Asia(3.00%),Central America(2.00%),Oceania(2.00%),Eastern Asia(1.00%). There are total about 101-200 people in our office.

### 2. how can we guarantee quality?

Always a pre-production sample before mass production;  
Always final Inspection before shipment;

### 3.what can you buy from us?

inclinometer,tilt switch,digital compass,Fiber Optic Gyroscope,accelerometer

### 4. why should you buy from us not from other suppliers?

BEWIS sensing is the manufacturer of inertial sensors in China with our own R&D-FACTORY-SALES team the products including Inclinometer Sensors/IMU/Attitude and Heading Reference System (AHRS), Digital compass, and Fiber-Optic Gyroscopes(FOG) etc..

### 5. what services can we provide?

Accepted Delivery Terms: FOB,EXW;  
Accepted Payment Currency:USD,EUR,HKD,CNY;  
Accepted Payment Type: T/T;  
Language Spoken:English,Chinese,German

## Frequently bought together



3 in 1 Soil Sensor with WiFi EC Conductivity Temperature an...	BWSENSING 2D Digital Magnetic Compass BW-LEC2...	Single Axis Inclinometer BWK210 High Accuracy 0.2...	BWSENSING BWL310 Analog Voltage Output Single Axis...	BWSENSING BWM418 Single Axis Inclinometer High...	BWSENSING Dual-axis Digital Dynamic Inclination Sensor...	BWSENSING Hig MEMS acceleror...
<b>\$100-200</b> MOQ: 1 set	<b>\$20-43</b> MOQ: 1 set	<b>\$49.99-59</b> MOQ: 2 pieces	<b>\$20-80</b> MOQ: 1 set	<b>\$20-137</b> MOQ: 1 set	<b>\$20-411</b> MOQ: 1 set	<b>\$281-390</b> MOQ: 1 set

## Supplier's popular products

BWSENSING BWM417 Single Axis Digital Inclinometer 0.01 Degree Accuracy RS23...	BW-B80-B Series Six-Axis Force Sensor B80-B Series Motion Position Sensors fo...	BWSENSING Digital Output Dual Axis Inclinometer BW-VG200 RS485 RS232...	Single Axis Fiber Optical Gyro (FOG) High Accuracy 0.05 Deg Per Hour Bias...	BWSENSINGIMU Digital Output IMU100 Accurate 2 Deg MEMS Sensor RS232...
<b>\$138</b> MOQ: 1 set	<b>\$200-240</b> MOQ: 1 set	<b>\$20-411</b> MOQ: 1 set	<b>\$2,000-9,299</b> MOQ: 1 set	<b>\$87-143</b> MOQ: 1 piece

BWSENSING BMR3000 3D Digital Compass RS232 RS485 TTL Optional...	BWSENSING Dual Axis Dynamic Inclinometer VG400C dynamic accuracy...	BW-C50-B Six-Axis Force Sensor for Humanoid Robot Wrist Motion & Position...	BWSENSING Dual-Axis Inclinometer BWS4000 Accuracy 0.003 Deg Digital...	AS400S Series High-sensitive Low Zero Drift 3-Axis Accelerometer
<b>\$500-1,396</b> MOQ: 1 set	<b>\$200-1,200</b> MOQ: 1 set	<b>\$320-400</b> MOQ: 1 set	<b>\$200-705</b> MOQ: 1 set	<b>\$290</b> MOQ: 1 unit



BWSENSING BWS5000E Dual Axis Digital Output Inclinometer 0.001 Deg Accuracy...	BWSENSING Dual Axis Inclinometer BWS2700 Accuracy 0.001Deg Modbus...	BWSENSING Integrated Navigation System with GI320 Sensor Motion &...	BWSENSING BWH526 Dual Axis Digital Output Inclinometer RS485/232 TTL...	BW-TM16P 640*512 uncooled infrared thermal imaging network core
<b>\$500-1,293</b> MOQ: 1 set	<b>\$200-705</b> MOQ: 1 set	<b>\$1,500-7,699</b> MOQ: 1 set	<b>\$320-400</b> MOQ: 1 set	<b>\$950-1,500</b> MOQ: 1 piece

BWSENSING BWS5700 Dual Axis Inclinometer Modbus Digital Output RS2...	384*288 Uncooled Infrared Thermal Imaging Network Core	High-Performance Dual-Axis Compensation MEMS Navigation System...	HEC365 3D Electronic Compass High-tech Electronic Components	High-Precision MEMS Navigation System for Autonomous Drone/UAV GNSS/INS...
<b>\$500-1,293</b> MOQ: 1 set	<b>\$600-965</b> MOQ: 1 piece	<b>\$1,450-1,550</b> MOQ: 1 set	<b>\$400-500</b> MOQ: 1 piece	<b>\$2,580-2,680</b> MOQ: 1 set

## Related searches

- [jelq device](#)
- [walking assist device](#)
- [neck traction device](#)
- [acupressure device](#)
- [rotation device](#)
- [medical device](#)
- [anti snoring device](#)
- [lumbar traction device](#)
- [network interface device](#)
- [new electrical devices](#)
- [input and output devices](#)
- [sequential compression device](#)
- [handheld medical devices](#)
- [pain relief device](#)
- [patient lifting devices](#)

[Report abuse](#)

### Get support

- [Help Center](#)
  - [Live chat](#)
  - [Check order status](#)
  - [Refunds](#)
  - [Report abuse](#)
- Payments and protections**
- [Safe and easy payments](#)
  - [Alibaba.com Business Edge Credit Card](#)
  - [Money-back policy](#)
  - [On-time shipping](#)
  - [After-sales protections](#)
  - [Product monitoring services](#)

### Source on Alibaba.com

[Request for Quotation](#)

[Membership program](#)

[Sales tax and VAT](#)

[Alibaba.com Reads](#)

### Sell on Alibaba.com

[Start selling](#)

[Seller Central](#)

[Become a Verified Supplier](#)

[Partnerships](#)

[Download the app for suppliers](#)

### Get to know us

[About Alibaba.com](#)

[Corporate responsibility](#)

[News center](#)

[Careers](#)

### Stay Connected



Add [Alibaba Lens](#) to Chrome



Trade on the go with the [Alibaba.com app](#)



[AliExpress](#) | [1688.com](#) | [Tmall Taobao World](#) | [Alipay](#) | [Lazada](#) | [Taobao Global](#) | [TAO](#) | [Trendyol](#) | [Europages](#)

[Policies and rules](#) · [Legal Notice](#) · [Product Listing Policy](#) · [Intellectual Property Protection](#) · [Privacy Policy](#) · [Terms of Use](#) · [Integrity Compliance](#)

© 1999-2026 Alibaba.com. 版权所有：杭州阿里巴巴海外信息技术有限公司 增值电信业务经营许可证：浙B2-20241358 浙公网安备33010002000366 浙ICP备2024067534号-3

