



**Leading in technology  
prioritizing quality  
Customer first  
integrity foremost**

**HUBEI SANJIANG BOLI  
INTELLIGENT EQUIPMENT CO.,LTD  
湖北三江博力智能装备有限公司**

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**PRODUCT  
MANUAL**



Hubei Sanjiang Boli Intelligence Equipment Co., Ltd. (formerly Hubei Sanjiang Aerospace Coating Equipment Engineering Co., Ltd.) is a nationally recognized "Little Giant" enterprise specialized in innovative and advanced technologies, a national high-tech enterprise, and a national science and technology-oriented small and medium-sized enterprise. The company's main products include shotblasting/painting robots, waste gas treatment systems, shot blasting equipment, coating production lines (paint powder), welding fume dust removal, and other products.

The company currently holds 60 patents (including 8 invention patents). In 2010, it was awarded the Wuhan Municipal Technology Innovation Fund Project Award; in 2011, it won the Ministry of Science and Technology Innovation Fund Project Award; in the same year, it was awarded the title of National High-Tech Enterprise; in 2014 and 2018, it was awarded the Wuhan Huanghe Talent, Industry Leader, Hubei Province Outstanding Contribution Young and Middle-aged Expert Talent Enterprise; from 2017 to 2022, it was awarded the Wuhan City Contract-abiding and Credit-worthy Enterprise; in 2022, it was selected as an enterprise entering the standards in Jiang'an District, Wuhan City, and awarded the title of Hubei Province's specialized, refined, and new "Little Giant" enterprise; in 2023, it was awarded the title of national-level specialized, refined, and new "Little Giant" enterprise. The company holds qualifications for environmental engineering general contracting, steel structure construction general contracting, mechanical and electrical installation professional contracting at the third level, fire protection facility engineering professional contracting at the second level, and ISO9001, ISO1400, ISO18001 management system certification.

## MULTIPLE WELL-KNOWN CLIENTS

The company has established partnerships with well-known customers such as CRRC Corporation, China Railway, China North Industries Group Corporation, China Aerospace Science & Industry Corporation, Aviation Industry Corporation of China, China State Construction Engineering Corporation, Shanghai Electric Group, Hangzhou Oxygen Plant Group Company Limited, China National Nuclear Corporation, China Shipbuilding Industry Corporation, China Changsha Zoomlion Heavy Industry Science & Technology Development Co., Ltd., China FAW Group Corporation, China Petroleum & Chemical Corporation, China National Petroleum Corporation, China Hengtian Group, Shanxi Provincial Communications Construction Group Co., Ltd., Anhui Construction Engineering Group Co., Ltd., Zhejiang Communications Construction Group Co., Ltd., Beijing Mining and Metallurgy, China National Materials Group Corporation, China National Chemical Corporation, China Three Gorges Corporation, Huainan Mining Group, and others.

Looking ahead to the future, the company sees past achievements as a new starting point. We will vigorously explore, innovate continuously, enhance product technology, improve product quality, optimize product structure, attract outstanding talents, and meticulously build the Sanjiang brand to be refined and strengthened. We strive to become a world-class supplier of shotblasting equipment.

## OUR CLIENTS



## SJMAN SERIES SHOTBLASTING ROBOTS

### REASONS FOR CHOOSING SJMAN SERIES shotblasting ROBOTS



The shotblasting robots are equipped with single or dual shotblasting guns with a diameter of 16-19mm and a pressure of up to 10 bar. They can operate continuously for 24 hours, with a single-gun shotblasting efficiency of 160-220m<sup>2</sup>/h, which is several times higher than traditional manual shotblasting.



Each SJman series shotblasting robot is customized according to the user's different workpieces. By adjusting the robot's shotblasting angle and air pressure, it consistently achieves the ideal surface cleanliness and roughness, ensuring high-quality shotblasting operations.



The SJman series shotblasting robots have excellent dust and projectile impact resistance. They require only simple maintenance by operating personnel during use.



Manual shotblasting operations involve high labor intensity and pose risks such as silicosis. Shotblasting robots can comprehensively minimize the safety risks of manual shotblasting operations, significantly enhancing the safety of shotblasting operations.

## 8-AXIS OVERHEAD CRANE SHOTBLASTING ROBOT(MODEL: SJMAN-20C)

This shotblasting robot can move throughout the entire shotblasting chamber, with movement primarily including longitudinal, transverse, vertical, rotational, and swinging motions.

The shotblasting robot is a customized product tailored to the specific requirements of the customer's workpieces. By selecting different telescopic rods and rotary arms, various applicable operating combinations can be achieved. It is suitable for large locomotives, containers, large structural components, and castings, among others. The system is used with single or dual shotblasting guns with a diameter of 16-19mm and a pressure of up to 10 bar.

### TECHNICAL PARAMETERS

AXIS NAME	RANGE OF MOTION	MOVEMENT SPEED
Axis 1: Lengthwise movement	Chamber length	0-10m/min
Axis 2: Movement of the gantry	Chamber width	0-10m/min
Axis 3: Arm rotation	±180°	0-30°/s
Axis 4: Telescopic arm lifting	Determined by the height of the workpiece	0-8m/min
Axis 5: Swing of the main arm	170°	0-21.5°/s
Axis 6: Swing of the sub-arm	220°	0-20°/s
Axis 7: Swing of the arm head	±180°	0-180°/s
Axis 8: Swing of the shotblasting gun	270°	0-215°/s

## WALL-MOUNTED SHOTBLASTING ROBOT (MODEL: SJMAN-16B)

This shotblasting robot moves along the side walls of the shotblasting cleaning workshop, with movement primarily including longitudinal, vertical, rotational, and swinging motions. It is available in both seven-axis and four-axis configurations.

The shotblasting robot is a customized product tailored to the specific requirements of the customer's workpieces. By selecting different telescopic rods and rotary arms, various applicable operating combinations can be achieved. It is suitable for wind power towers, containers, large structural components, castings, and more. The system is used with single or dual shotblasting guns with a diameter of 16-19mm and a pressure of up to 10 bar.

### TECHNICAL PARAMETERS

#### 1) 7-AXIS WALL-MOUNTED ROBOT (MODEL: SJMAN-16B-I)

AXIS NAME	RANGE OF MOTION	MOVEMENT SPEED
Axis 1: Lengthwise movement	Chamber length	0-10m/min
Axis 2: Arm rotation	±180°	0-30°/s
Axis 3: Telescopic arm lifting	Determined by the height of the workpiece	0-8m/min
Axis 4: Swing of the main arm	170°	0-21.5°/s
Axis 5: Swing of the sub-arm	220°	0-20°/s
Axis 6: Swing of the arm head	±180°	0-180°/s
Axis 7: Swing of the shotblasting gun	270°	0-215°/s

#### 2) 4-AXIS WALL-MOUNTED ROBOT (MODEL: SJMAN-16B-II)

AXIS NAME	RANGE OF MOTION	MOVEMENT SPEED
Axis 1: Lengthwise movement	Chamber length	0-10m/min
Axis 2: Swing of the main arm	170°	0-21.5°/s
Axis 3: Swing of the arm head	±180°	0-180°/s
Axis 4: Swing of the shotblasting gun	270°	0-215°/s



## INTERNAL CHAMBER shotblasting ROBOT (MODEL: SJMAN-40N)

This shotblasting robot is specifically designed for shotblasting operations inside cylindrical workpieces. It moves axially along the inner axis of the workpiece, with movement primarily including axial, vertical, and swinging motions.

The shotblasting robot is a customized product tailored to the specific requirements of the customer's workpieces. It is suitable for applications such as wind tower cylinders and cylindrical containers. The system is used with single or dual shotblasting guns with a diameter of 16-19mm and a pressure of up to 10 bar.

### TECHNICAL PARAMETERS

AXIS NAME	RANGE OF MOTION	MOVEMENT SPEED
Axis 1: Lengthwise movement	Determined by the length of the workpiece	0-10m/min
Axis 2: Telescopic arm lifting	Determined by the height of the workpiece	0-8m/min
Axis 3: Swing of the shotblasting gun	270°	0-215°/s



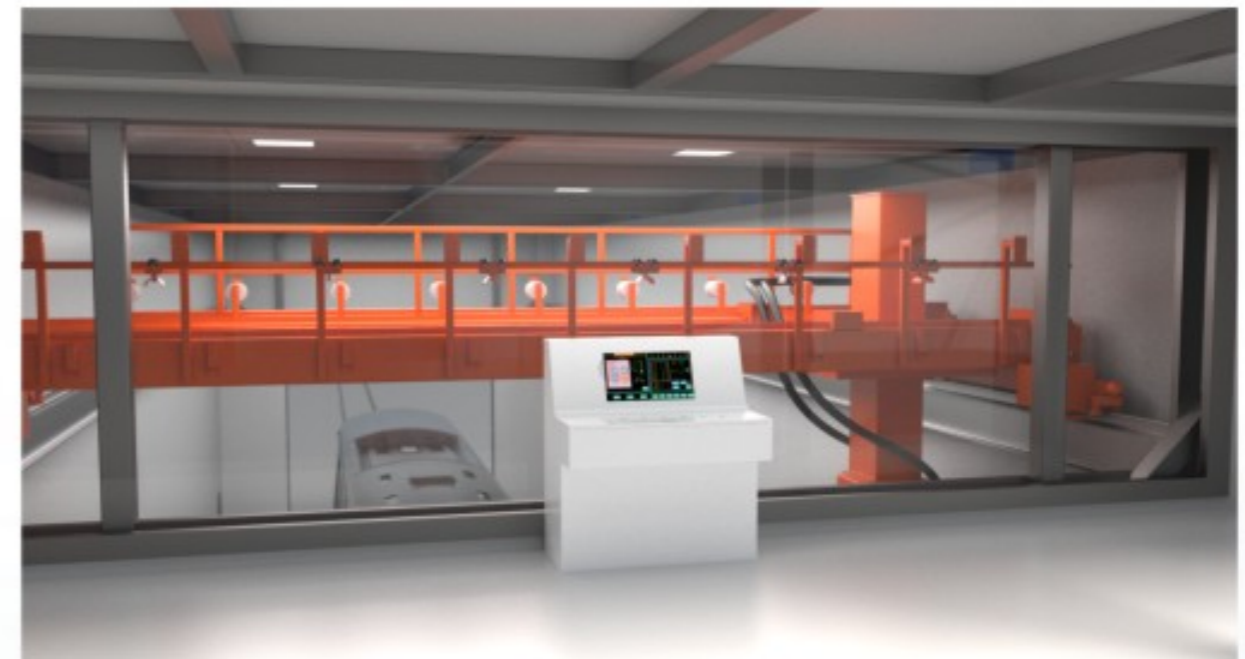
## SHOTBLASTING ROBOT MAIN UNIT



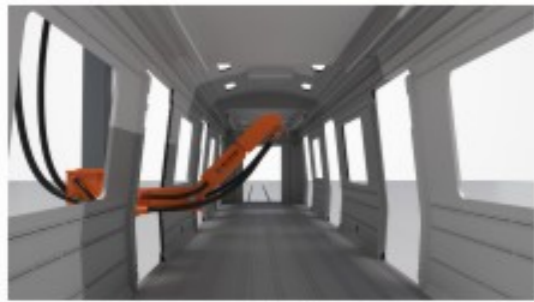
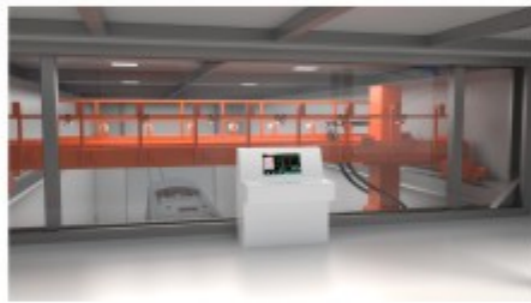
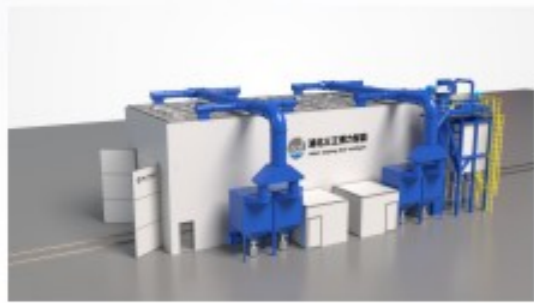
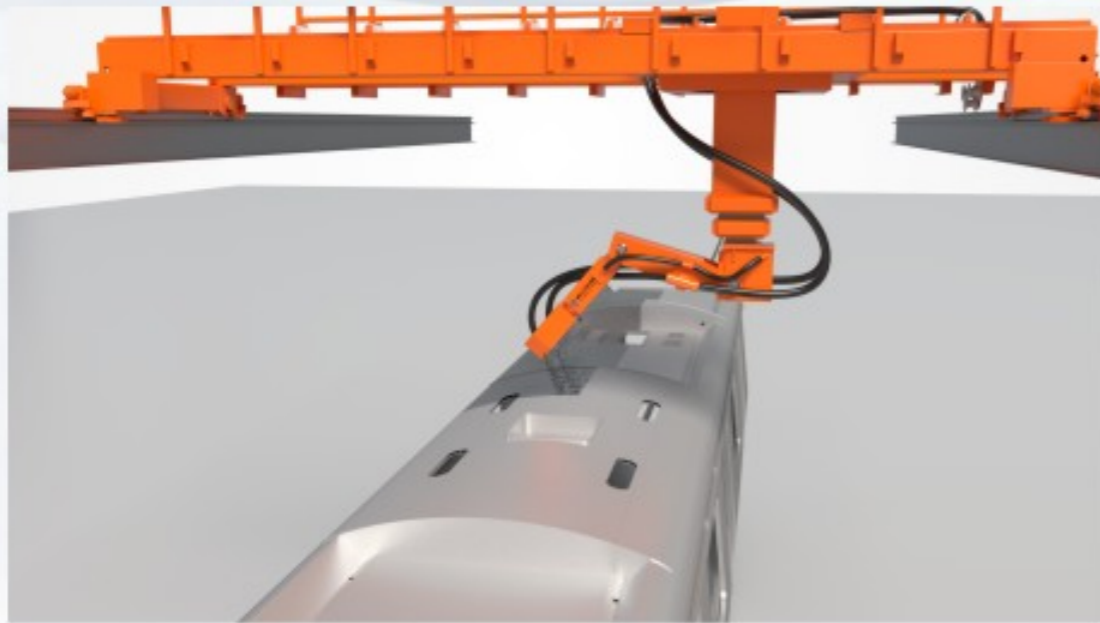
The dedicated shotblasting main unit for shotblasting robots adopts patented technology and features high sand output, stable sand ejection, and continuous operation without interruption.

## ROBOT CONTROL ROOM

The robot control room allows real-time monitoring of equipment status, archiving of shotblasting data and alarm information, and the creation of report systems for easy querying and analysis.



# SHOTBLASTING ROBOT 3D ILLUSTRATION



# 8-AXIS OVERHEAD CRANE SHOTBLASTING ROBOT



## 01 PRODUCT INTRODUCTION COATING PRODUCTION LINE CASES



Wind Generator Tower Coating Production Line



Wind Generator Tower Coating Production Line



Tank Coating Line



Chemical Container Coating Line



Locomotive Coating Line



Reciprocating Ground Rail Coating Line

## 02 PAINT BOOTH CASES PRODUCT INTRODUCTION



Ground Chain Conveyor Coating Line



Rail Vehicle Paint Booth



Chemical Container Paint Booth



Chemical Container Paint Booth



Telescopic Mobile Paint Booth



Integrated Mobile Paint Booth

### 03 PRODUCT INTRODUCTION

#### CASES OF ORGANIC WASTE GAS TREATMENT EQUIPMENT



Rotary wheel zeolite adsorber + RTO



Rotary wheel zeolite adsorber + RTO



Rotary wheel zeolite adsorber + RTO



Activated Carbon Adsorption + CO



Activated Carbon Adsorption + CO



Activated Carbon Adsorption + CO

### 04 PRODUCT INTRODUCTION

#### SHOTBLASTING BOOTH CASES



Vehicle Maintenance Shotblasting Booth



Pneumatic abrasive recovery shotblasting Booth



Scrap Recovery shotblasting Booth



Chemical Container shotblasting Booth



Railway Locomotive shotblasting Booth



Railway Locomotive shotblasting Booth