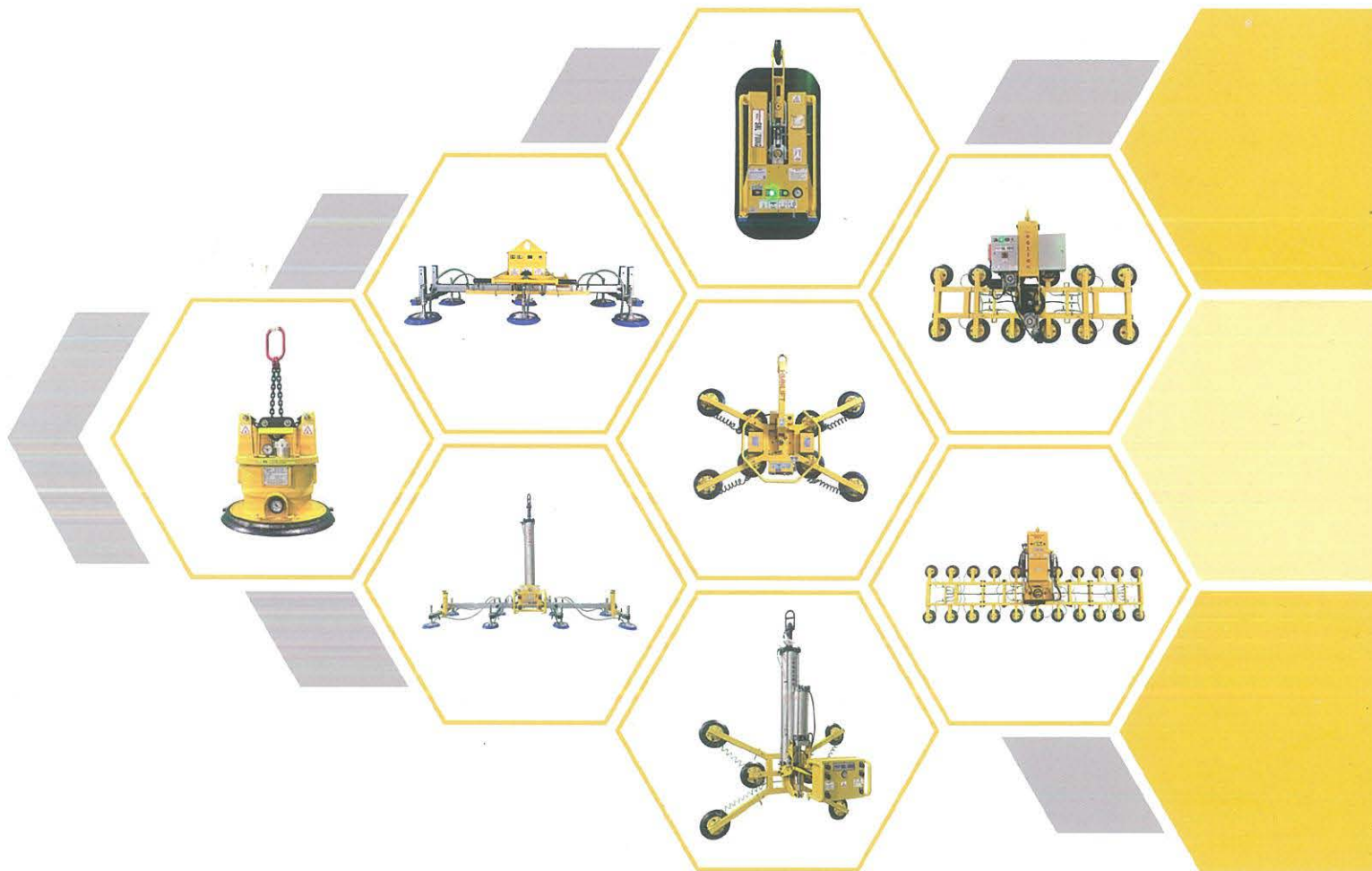




HMN.2025

Intelligent Vacuum Lift Equipment Manufacturer and Service Provider



Shanghai • China

Provide Professional Solutions for Industrial Intelligent
Lifting and Vacuum Technology

COMPANY PROFILE

Shanghai Harmony Automation Equipment Co.,Ltd. is a professional manufacturer specializing in the production of vacuum suction and lifting equipment. The company was founded in 2012 and is headquartered in Shanghai, China. With its advanced R&D, production concepts, core technologies and development potential, it has been recognized as a "China National High-tech Enterprise" by The Science Technology Commission of Shanghai Municipality (STCSM). The company focuses on factory automation and vacuum intelligent lifter as its research and development direction, providing one-stop vacuum lifter service of design, plan, manufacture, installation, training and after-sales service for mechanical processing, glass curtain walls, glass deep processing, food processing, aluminum products, laser processing, automobile manufacturing, packaging logistics, stone processing, solar energy and other fields.



ENTERPRISE CULTURE



Core value

Customer demand-oriented, product quality as the basis, technology innovation as the core

Brand vision

Building a representative enterprise of vacuum lift equipment

Enterprise's original intention

To provide customers with high-quality vacuum lift equipment

Work spirit

Standard, Rigorous, Meticulous, Caring

Business philosophy

Creating value for customers and adding wealth for enterprises

Management philosophy

Based on the system, People-oriented, Pay attention to practical results, Vigorous action

ENTERPRISE GLORY



CE



ISO9001



COMPANY CHARACTERISTICS

01 Leading independent brand

Harmony was founded in 2012 and is headquartered in Shanghai, China. After 12 years of development, relying on excellent regional advantages and professional R&D team in Shanghai, the independent brand "Harmony Series products" has already gained a considerable degree of popularity and reputation in the industry, and is constantly striding forward to the industry benchmark. Our products have considerable influence in Europe, North America, South America, Australia, East Asia, South Asia, West Asia, Southeast Asia and other regions.

02 Strong user scale

Harmony with good product quality and service, harmony has provided products and services to 80 countries and regions including the United States, Thailand, Australia, Russia, South Korea, Canada, Mexico, Kuwait, Qatar, Israel, Malaysia, Brazil, Germany, Czech Republic, Hungary, Chile, Croatia, Singapore, Belarus, Saudi Arabia and Hong Kong, Macao and Taiwan. Harmony has a good international reputation.

03 Professional service team

Harmony has a professional team with the spirit of craftsman and innovation, including: design engineers, product engineers, sales engineers, etc. According to the actual needs of customers, we carry out professional customization, supply customers with high-quality products and cost-effective equipments, and continue to improve customer satisfaction with high-quality services.

04 High-quality solutions

For a long time, Harmony has been adhering to the value of "quality is the eternal theme of the enterprise" and based on the guiding principle of "providing customers with the best solutions", we launched a series of industrial intelligent lifting and a complete set of vacuum technology solutions with unique competitive advantages.



1. EQUIPMENT OVERVIEW & PRIMARY FEATURES

Harmony's Glass Vacuum Lifting Frames offer highly efficient, secure, and ergonomic material handling solutions for construction site glazing, curtain wall installation, and factory glass processing. Designed to deliver maximum safety and operational endurance across diverse working environments.



2. TECHNICAL SPECIFICATIONS DATA SHEET

Parameter Item	Specification & Technical Value
Equipment Model	HP-GX800-8S (HMN LIFT Heavy Series)
Maximum Safe Working Load (SWL)	800 kg (1,763 lbs) at -0.06 MPa vacuum level
Suction Pad Configuration	8 High-Durability Rubber Pads (300 mm) each
Vacuum Pump System	Imported Thomas (USA) High-Negative-Pressure DC Pump
Power Supply & Drive	12V DC Battery Power (0.1 kW Motor), Integrated Smart Charger
Rotation & Tilting Functions	Manual 360° Continuous Rotation / Manual 90° Tilting (Flip)
Safety Systems & Alarms	Digital Pressure Sensor, Auto Vacuum Compensation, Low Pressure Audio-Visual Warning Light
Compliance Standards	CE Certified (EN 13155), ISO 9001 Quality System Compliant

Site Submission Note: Designed for high-risk glass curtain wall construction. Equipped with double vacuum safety circuits, anti-drop suction pad design, and emergency lock mechanics.

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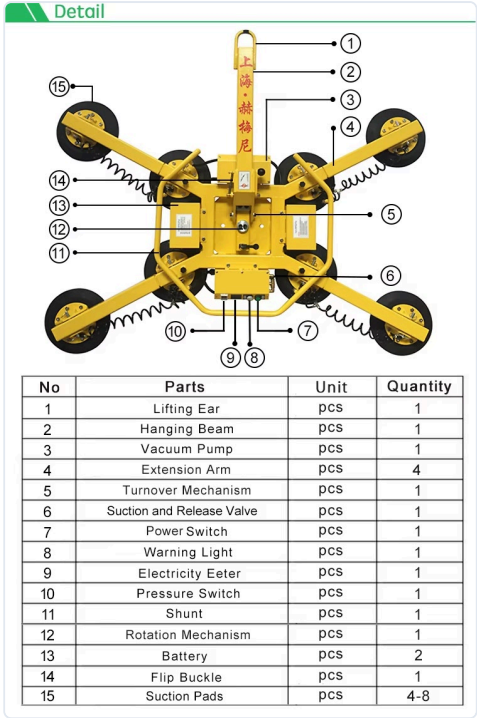
STRUCTURAL COMPONENT BREAKDOWN

Parts Index

Model: HP-GX800-8S

3. DETAILED PARTS & STRUCTURAL COMPONENT BREAKDOWN

The diagram below details the 15 primary structural and operational components engineered into the HP-GX800-8S vacuum lifting frame.



No.	Part Description	Unit	Quantity
1	Lifting Ear (Main Crane Hook Point)	pcs	1
2	Hanging Main Beam Assembly	pcs	1
3	Thomas (USA) High-Efficiency Vacuum Pump	pcs	1
4	Adjustable Extension Arm Assemblies	pcs	4
5	Heavy-Duty Manual Turnover Mechanism	pcs	1
6	Manual Suction and Release Control Valve	pcs	1
7	Main Power Control Switch	pcs	1
8	Audio-Visual Low-Pressure Warning Light	pcs	1
9	Digital Electricity Meter / Battery Level Gauge	pcs	1
10	Precision Vacuum Pressure Switch	pcs	1
11	Vacuum Air Shunt Manifold Block	pcs	1
12	\$360^{\circ}\$ Smooth Rotation Mechanism	pcs	1
13	Rechargeable High-Capacity Battery Pack	pcs	2
14	Safety Mechanical Flip Lock Buckle	pcs	1
15	Heavy-Duty Silicone Suction Pads (\$\varnothing\$300\text{ mm}\$)	pcs	4-8 (Modular)

HMN LIFT 赫梅尼

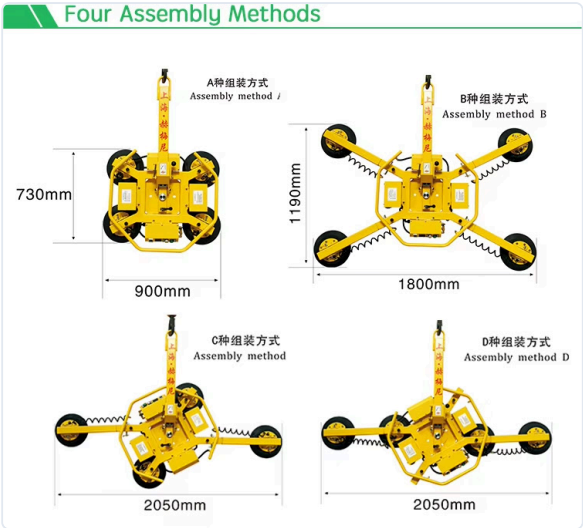
ASSEMBLY CONFIGURATIONS & QUALITY ENGINEERING

Configurations

Methods A / B / C / D

4. FOUR MODULAR FRAME ASSEMBLY METHODS

The HP-GX800-8S frame can be reconfigured into 4 distinct layouts to accommodate varying glass sheet sizes and geometry on site.



5. CORE PRECISION COMPONENTS & SAFETY ENGINEERING

1. Thomas USA Vacuum Motor

High negative pressure pump imported from Thomas (USA), featuring low power consumption and continuous stable vacuum supply.

Precision Parts

The Motor

The vacuum pump, imported from Thomas, USA, with high negative pressure, low power consumption and stable performance.

2. Intelligent Control Unit

Integrated Fuji button switches, Siemens safety status indicators, and digital auto-compensation pressure sensors.

Control Unit

No.	Parts	Unit	Quantity
1	Control Box	PCS	1
2	Emergency Stop	PCS	1
3	Pressure Sensor	PCS	1
4	Pressure Switch	PCS	1
5	Pressure Indicator	PCS	1
6	Pressure Indicator	PCS	1
7	Pressure Indicator	PCS	1
8	Pressure Indicator	PCS	1
9	Pressure Indicator	PCS	1
10	Pressure Indicator	PCS	1
11	Pressure Indicator	PCS	1
12	Pressure Indicator	PCS	1
13	Pressure Indicator	PCS	1
14	Pressure Indicator	PCS	1
15	Pressure Indicator	PCS	1
16	Pressure Indicator	PCS	1
17	Pressure Indicator	PCS	1
18	Pressure Indicator	PCS	1
19	Pressure Indicator	PCS	1
20	Pressure Indicator	PCS	1

3. High-Quality Accessories

Japanese SMC check valve, special industrial battery charger, and 12.9 grade nickel-plated high-strength screws.

High Quality Accessories

High-quality spare parts Japanese SMC check valve, Japanese FUJI button switch, special charger and pressure switch for vacuum equipment.

4. Rotating & Tilting Mechanism

Humanized turning system with 360° continuous rotation and 90° tilting. Heavy-duty copper sleeves ensure long mechanical service life.

Rotating Structure

Humanized design. Turning and rotating mechanism has long service life, good mechanical strength and easy operation.

5. Tapered Intubation & Filter

Suction cup intubation adopts a tapered design with three anti-drop rings. Built-in stainless steel mesh protects pump from jobsite dust.

Structural Components

The suction cup intubation adopts a tapered design and is equipped with three anti-drop rings, which is safe and convenient to disassemble. The suction cup fixing screws are all made by Klemm, 12.9 high strength, and the surface is nickel-plated. Safe and beautiful. The stainless steel wire mesh is built into the brass filter to effectively prevent dust from being sucked into the vacuum pump, thereby protecting the entire vacuum system.



All the time, Harmony endeavored to satisfy
global customers' requirements.

Shanghai Harmony Automation Equipment Co.,Ltd

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