

# Walson

---

## 广州沃申



# 目录 CONTENTS

03	助力机械手介绍 Manipulator Introduce
	产品系列 Product Series
	硬臂型 Rigid Arm
04	QPC
06	QPD
07	QPE
08	QPH
	软索型 Balancer
09	QS
10	QR
12	QV
	抗扭型 Antitorque Type
14	QPK
	电动型 Electric Type
16	DPF
	基座类型 Base Type
17	悬挂移动型 Suspended Move Type
18	地面移动型 Ground Trolley Type
18	地面固定型 Column Mounted Type
19	选型示例 Selection Example
20	应用领域 Application Area
22	沃申承诺 Walson Promise

专业的产品——沃申的产品引进国外先进技术、高于国外先进技术  
专业的人——沃申的工程师有五年业内经验,已设计制作超500套设备  
专业的公司——华南地区最专业的助力机械手生产厂家之一



## 沃申的机械手/Walson's Manipulator

机械手又名手动移栽机，它能帮助您把重物轻松移栽到任何您想要的地方，任何您想要的姿态，在各个方向您使用的操作力小于3KG。

与机器人相比，助力机械手承载大（能达到30KG-500KG），稳定性高，查除故障方便，配 上专用夹具能达到机器人达不到的效果。

与传统的起吊机，行车相比，助力机械手响应时间快，能让重物悬浮在任意位置。

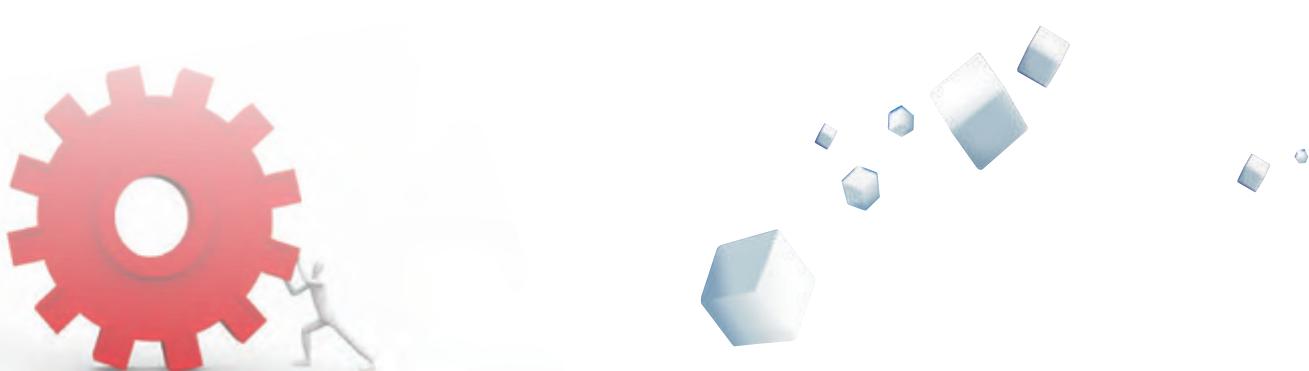
同时，沃申的工程师在控制系统配备了各种防护机构。断气保护，误操作保护，低压报警，安全限位，缓冲储气罐，等等。真正做到把操作风险降到了零。

Manipulator known as manual transplanter can help you to transplant weights to anywhere you want and the operating force is less than 3Kg in every direction.

Compared with the robot, the Pneumatic manipulator has better bearing capacity, (can attain 30kg-500kg), higher stability and it is easier to check and solve failures. In addition, the Pneumatic manipulator coupled with a special fixture has some functions far beyond the capabilities of the robot.

Compared with the traditional hoist and bridge crane, the Pneumatic Manipulator has a faster response time, and can be used to make a weight suspended in an arbitrary position.

Our machines are equipped with an advanced control system containing kinds of protective mechanism, such as pneumatic press lossing protection, misoperation protection, low press alarming, safety limit switch, disk break, buffer air , etc, which minimize the potential security risks at the very highest level, and can perform to the highest standards with proven reliability.



## QPC型主机

### 主机特点：

- 全程无重力化，适用于重物的精确定位
- 重量感知系统，适于可变负载的应用
- 操作便利，可根据现场工况确定服务半径和高度
- 定制专用夹具，控制手柄与夹具集成一体，方便工件定位
- 配备各种防护措施：断气保护，误操作保护，低压报警，安全限位，缓冲储气罐，等等



## QPC Model

### Characteristics:

- Overall process without gravity. Apply to the precise location of a weight.
- Weight perception system, specially designed for the situation of variable load
- Easy operation. Service radius and height can be determined according working condition.
- Special fixture. The control hand and fixture are integrated for the convenience of workpiece localization.
- Equipped with kinds of protective measures, such as pneumatic press lossing protection, misoperation protection, low press alarming, safety limit switch, disk break, buffer air , etc.

硬臂型  
Rigid Arm

主机型号/ Model	额定载荷/ Rated load (kg)	服务半径/ Service Radius (mm)	上下行程/ Vertical Stroke (mm)	本体质量/ Body Mass (kg)
QPC-50	50	1800-2800	700-1500	110
QPC-75	75	1800-2600	700-1500	140
QPC-100	100	1800-2600	700-1500	200
QPC-150	150	1800-2500	700-1500	260
QPC-200	200	1800-2400	700-1500	300

注: a) 额定负载: 0.5 MPa大气压下/ Gas pressure: at least 5 bar  
b) QPC-300、QPC-500型主机需定制/The Model of QPC-300 and QPC-500 to be customized

高效  
High efficiency

安全  
Safety

节能  
Energy conservation

定位精准  
Precise localization

● 安全限位  
Safety limit switch

● 符合人机工程学原理  
Conform to the principle of ergonomics

● 缓冲储气罐  
Buffer air



● 立柱安装基础  
Column installed base

硬臂型  
Rigid Arm



车门安装



布料移载

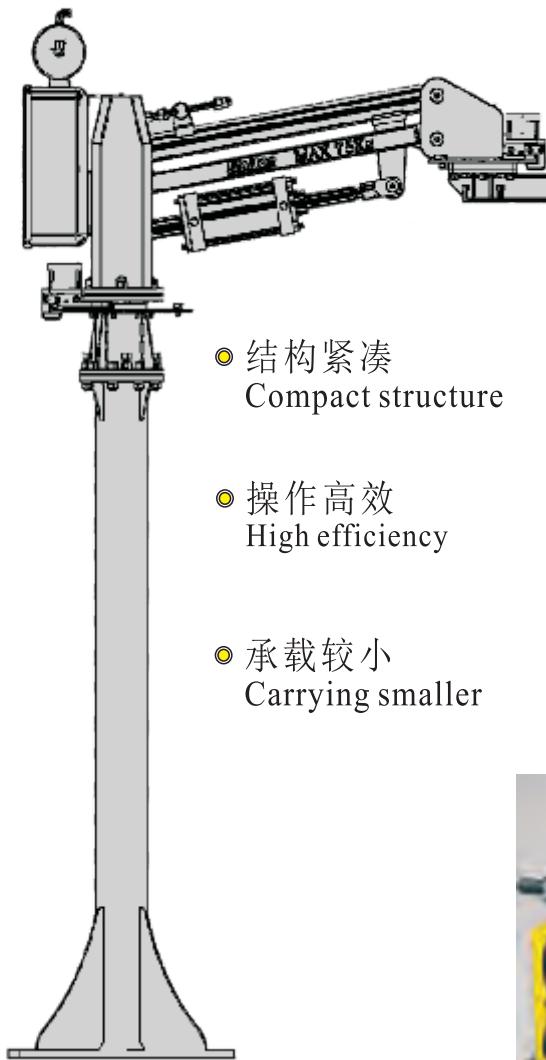


天窗安装

## QPD 型主机

### 主机特点:

- 全程无重力化, 适于重物的精确定位
- 重量感知系统, 适于可变负载的应用
- 结构紧凑, 操作便利, 适于现场空间较小场合
- 定制专用夹具, 控制手柄与夹具集成一体, 方便工件定位
- 配备各种防护措施: 断气保护, 误操作保护, 低压报警, 安全限位, 缓冲储气罐, 等等



- 结构紧凑  
Compact structure
- 操作高效  
High efficiency
- 承载较小  
Carrying smaller

## QPD Model

### Characteristics:

- Overall process without gravity. Apply to the precise location of a weight.
- Weight perception system, specially designed for the situation of variable load.
- Compact structure, easy operation, suitable for the conditions of small space.
- Special fixture. The control hand and fixture are integrated for the convenience of workpiece localization.
- Equipped with kinds of protective measures, such as pneumatic press lossing protection, misoperation protection, low press alarming, safety limit switch, disk break, buffer air, etc.

主机型号/ Model	额定载荷/ Rated Load (kg)	服务半径/ Service Radius (mm)	上下行程/ Vertical Stroke (mm)	本体质量/ Body Mass (kg)
QPD-50	50	1600-2800	700-1000	85
QPD-75	75	1600-2800	700-1000	100
QPD-100	100	1600-2600	700-1000	140
QPD-150	150	1800-2400	700-1000	200

注: a) 额定负载: 0.5 MPa大气压下/ Gas pressure: at least 5 bar



## QPE 型主机

## QPE Model

- 布局轻巧  
Dexterous layout

- 全程无重力化  
Overall process without gravity

- 跨度大, 能越过障碍物抓取工件  
Large span, the workpiece can crawl over obstacles

主机型号/ Model	额定载荷/ Rated load (kg)	服务半径/ Service Radius (mm)	上下行程/ Vertical Stroke (mm)	本体质量/ Body Mass (kg)
QPE-50	50	1800-2600	700-1200	160
QPE-75	75	1800-2600	700-1200	250
QPE-100	100	1800-2400	700-1200	320
QPE-150	150	1800-2400	700-1200	400

注: a) 额定负载: 0.5 MPa大气压下/ Gas pressure: at least 5 bar

### 主机特点

- 全程无重力化, 适于重物的精确定位
- 重量感知系统, 适于可变负载的应用
- 刚性臂杆系统, 可越过障碍物取料
- 可保持夹具头部水平, 发挥高作业性
- 定制专用夹具, 控制手柄与夹具集成一体, 方便工件定位
- 配备各种防护措施: 断气保护, 误操作保护, 低压报警, 安全限位, 缓冲储气罐, 等等



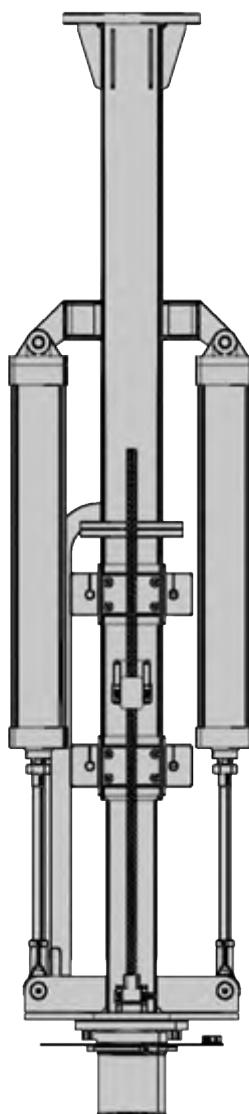
### Characteristics:

- Overall process without gravity. Apply to the precise location of a weight.
- Weight perception system, specially designed for the situation of variable load
- Rigid arm system. Used to take goods over the obstacles.
- The top of fixture can be kept level. Used to improve the operating efficiency.
- Special fixture. The control hand and fixture are integrated for the convenience of workpiece localization.
- Equipped with kinds of protective measures, such as pneumatic press lossing protection, misoperation protection, low press alarming, safety limit switch, disk break, buffer air, etc.

## QPH 型主机

### 主机特点：

- 全程无重力化，适于重物的精确定位
- 重量感知系统，适于可变负载的应用
- 占用空间少，结构紧凑
- 定制专用夹具，控制手柄与夹具集成一体，方便工件定位
- 配备各种防护措施：断气保护，误操作保护，低压报警，安全限位，缓冲储气罐，等等。



## QPH Model

### Characteristics:

- Overall process without gravity. Apply to the precise location of a weight.
- Weight perception system, specially designed for the situation of variable load.
- Compact structure and take up less space.
- Special fixture. The control hand and fixture are integrated for the convenience of workpiece localization.
- Equipped with kinds of protective measures, such as pneumatic press lossing protection, misoperation protection, low press alarming, safety limit switch, disk break,buffer air , etc.

主机型号/ Model	额定载荷/ Rated load (kg)	上下行程/ Vertical Stroke (mm)	本体质量/ Body Mass (kg)
QPH-50	50	700-1000	100
QPH-75	75	700-1000	130
QPH-100	100	700-1000	180
QPH-150	150	700-1000	250

注: a) 额定负载: 0.5 MPa大气压下/ Gas pressure: at least 5 bar



- 通过悬挂轨道覆盖工作区域  
Covering the work area by hanging rail

- 上下活动平滑  
Up and down smooth

- 占用空间少  
Take up less space

- 可连接各种夹具  
Can be connected to a variety of fixtures

硬臂型  
Rigid Arm

## QS 型主机

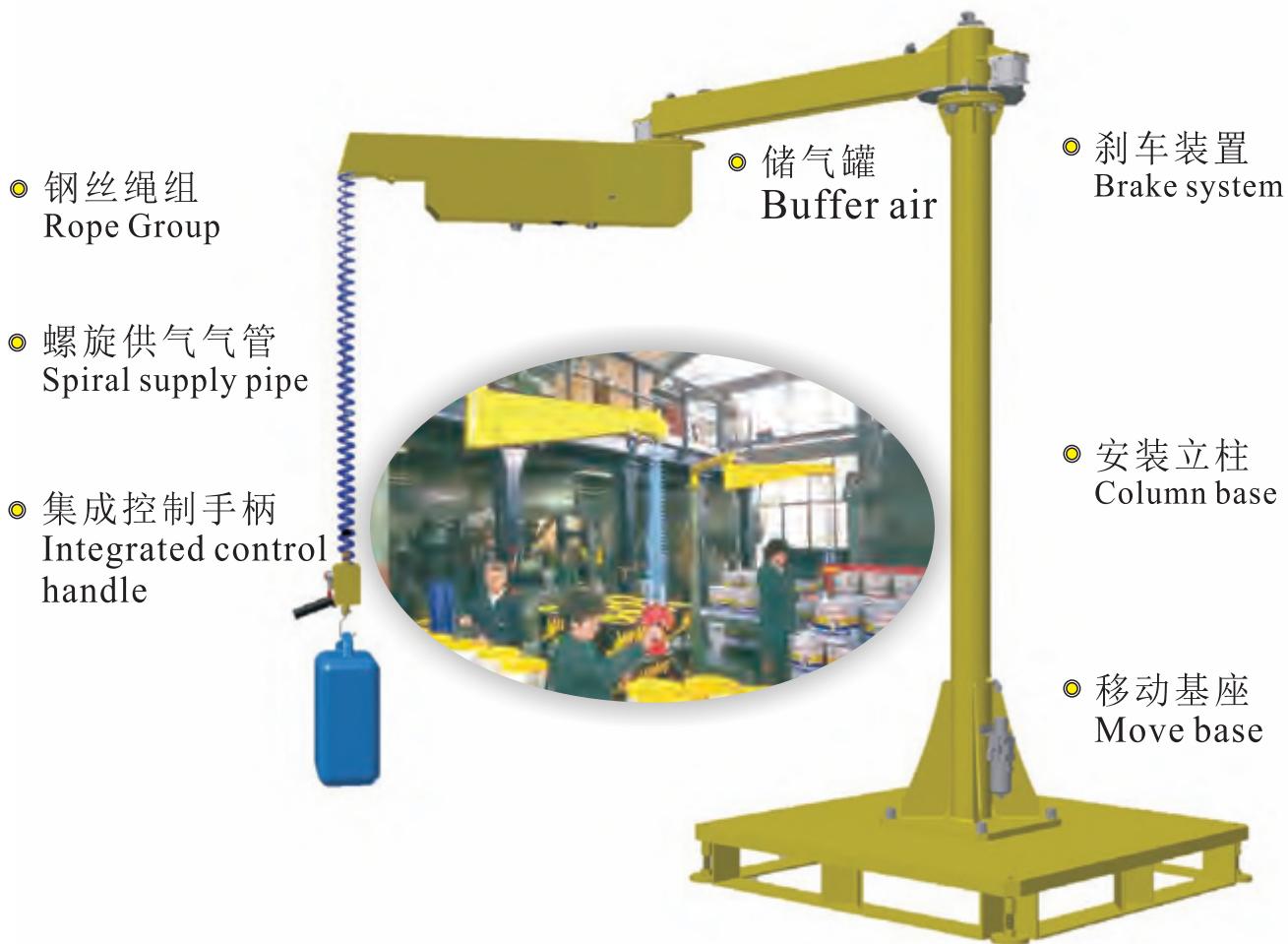
### 主机特点：

- 单人操作, 节省劳动力
- 安全便捷, 提高生产效率
- 设计灵活, 适用多种工况
- 一机多用, 可搬运多种工况环境

## QS Model

### Characteristics:

- Single operation, saving labor.
- Safe and convenient, improve production efficiency.
- Design flexibility for a variety of conditions.
- A machine can carry a variety of environmental conditions.



### ■ 技术参数

主机型号	额定载荷 (kg)	服务半径 (mm)	上下行程 (mm)	本体质量 (kg)	基座类型	基座尺寸 (mm×mm)
QS-50	50	2000-2600	700-1400	150	移动立柱	1000x1000
QS-100	100	2000-2600	700-1400	200	移动立柱	1200x1200

注: a) 额定负载: 0.5 MPa 大气压下 / Gas pressure: at least 5 bar

## QR 型主机

### 主机特点：

- 以美国英格索兰公司的气动平衡吊为系统主机
- 在自由行程内具有全程悬浮功能, 可以实现工件移植装配精确定位
- 操作轻便, 工人能双手把住工件进行定位
- 占用空间小, 可灵活搭接各种安装形式以满足具体工艺条件
- 配备各种防护措施: 断气保护, 误操作保护, 低压报警, 过速保护, 等等。

## QR Model

### Characteristics:

- United States Ingersoll Rand pneumatic balance suspended for the system host.
- With the full freedom of travel in the suspension function, you can achieve precise positioning of the workpiece assembly transplanting.
- Operators can hold the workpiece by both hand, which will improve the operation.
- Take up less space, applied with kinds of installation type.
- Equipped with kinds of protective measures, such as pneumatic press lossing protection, misoperation protection, low press alarming, over speed protecting , etc.



软索型  
Balancer

主机型号/ Model	额定载荷/ Rated load (kg)	上下行程/ Vertical Stroke (mm)	本体质量/ Body Mass (kg)
QR-68	68	2032	23
QR-90	90	3048	28
QR-158	158	2032	28
QR-227	227	2032	50

注: a) 额定负载: 0.5 MPa大气压下/ Gas pressure: at least 5 bar



纸箱搬运



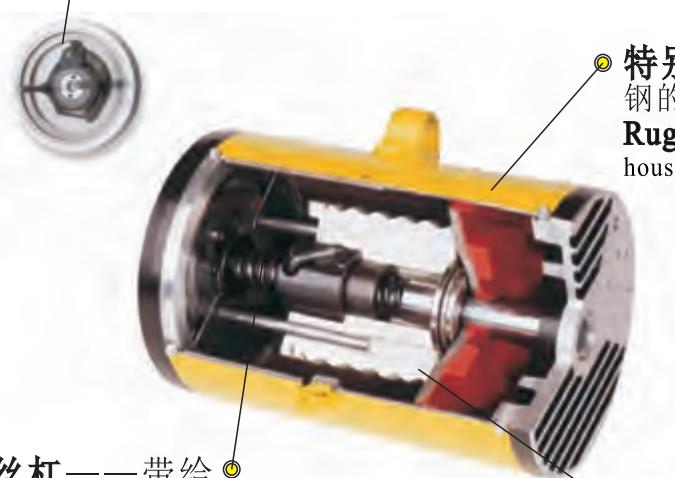
平衡吊系统



线缆安装

● Z-Brake安全刹车系统——当上下速度运行过快时,自行启动,锁止钢丝绳的上下运动

**Z-Brake safety retraction system:** Standard on all units, prevents violent retraction in the event of a sudden release or loss of load. The brake will also eliminate excessive upward acceleration of a no load hook when the "up" button is pressed in fully.



抗磨滚珠螺母和丝杠——带给钢丝绳平滑的旋转路径

**Anti-friction ball screw:** Creates smooth rotation path for the cable reel.

● 特别设计的坚固筒体——全钢的筒体可带来持久的寿命

**Rugged steel housing:** All steel housing for added durability.

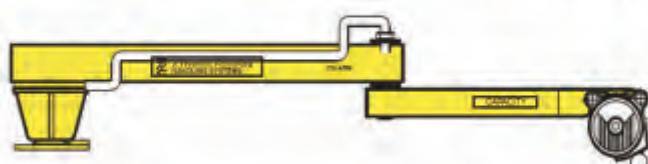
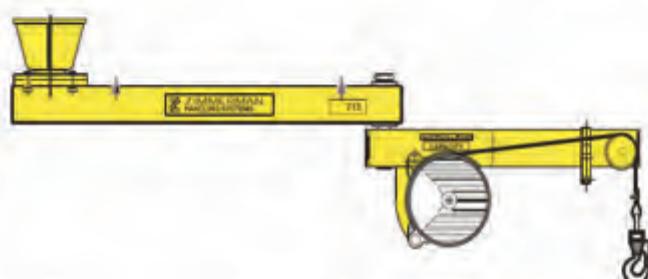
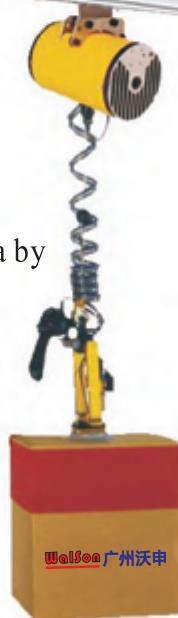
● 钢丝绳卷筒——特殊的工程塑料可表现卓越的耐久性和耐磨性能

**Injection-molded reel:** Engineered plastic for excellent durability and wear resistance.



● 通过悬挂轨道覆盖工作区域

Covering the work area by hanging rail



● 与硬臂机械手搭接覆盖工作区域

Cover the work area with manipulator

## QV 型主机

### 主机特点：

- 单人操作, 节省劳动力
- 安全便捷, 提高生产效率
- 设计灵活, 适用多种工况
- 一机多用, 可搬运多种工况环境
- 全新设计理念, 吸附提升一机实现

## QV Model

### Characteristics:

- Single operation, saving labor.
- Safe and convenient, improve production efficiency.
- Design flexibility for a variety of conditions.
- A machine can carry a variety of environmental conditions.
- The new design concept, adsorption and enhance achieved by a machine.



● 操作安全, 失去动力缓缓落下  
Safe operation, falling slowly losing power.

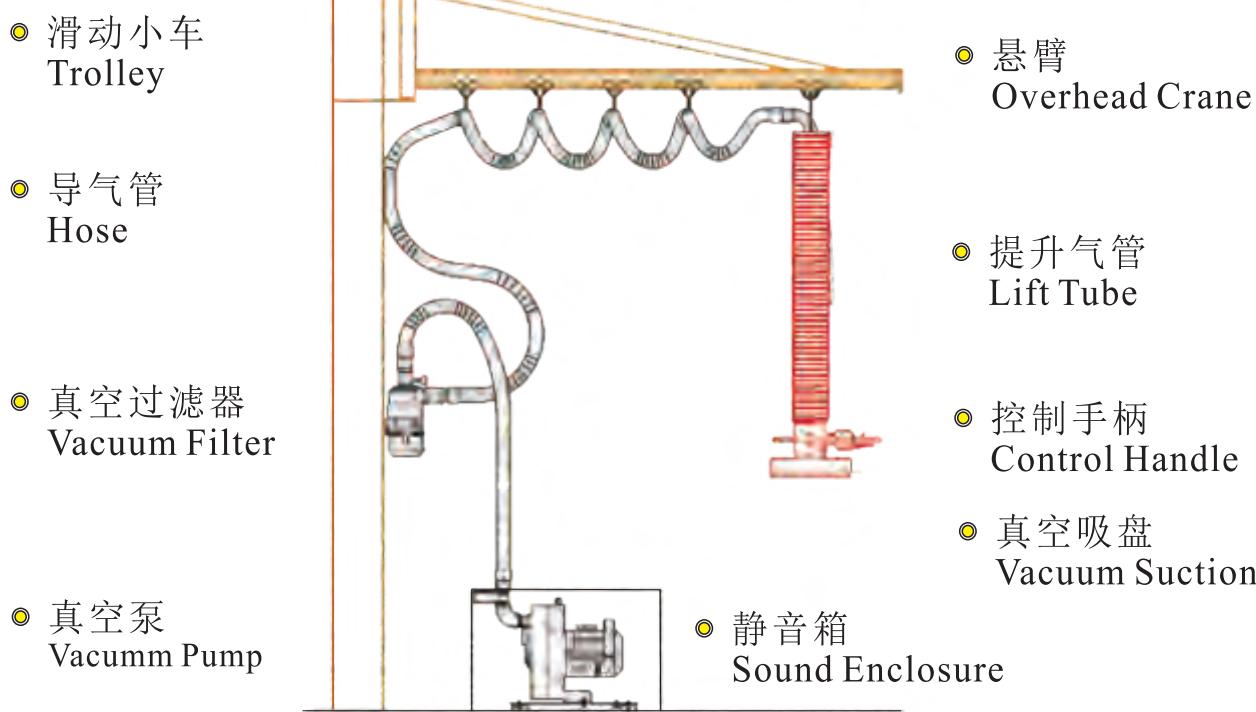


● 操作便捷, 比工人搬运效率高50%以上  
Convenient operation, high efficiency more than 50% of workers handling.

主机型号/ Model	管径/ Diameter (mm)	额定载荷/ Rated load (kg)		上下行程/ Vertical Stroke (mm)
		致密物质/ Dense Material	疏松物质/ Loose Material	
QV-100	100	30	25	1750-2500
QV-120	120	40	35	1750-2500
QV-140	140	50	45	1750-2500
QV-160	160	65	60	1730-2500
QV-180	180	85	80	1730-2500
QV-200	200	110	100	1700-2500



纸箱堆垛



软索型  
Balancer



## QPK 型主机

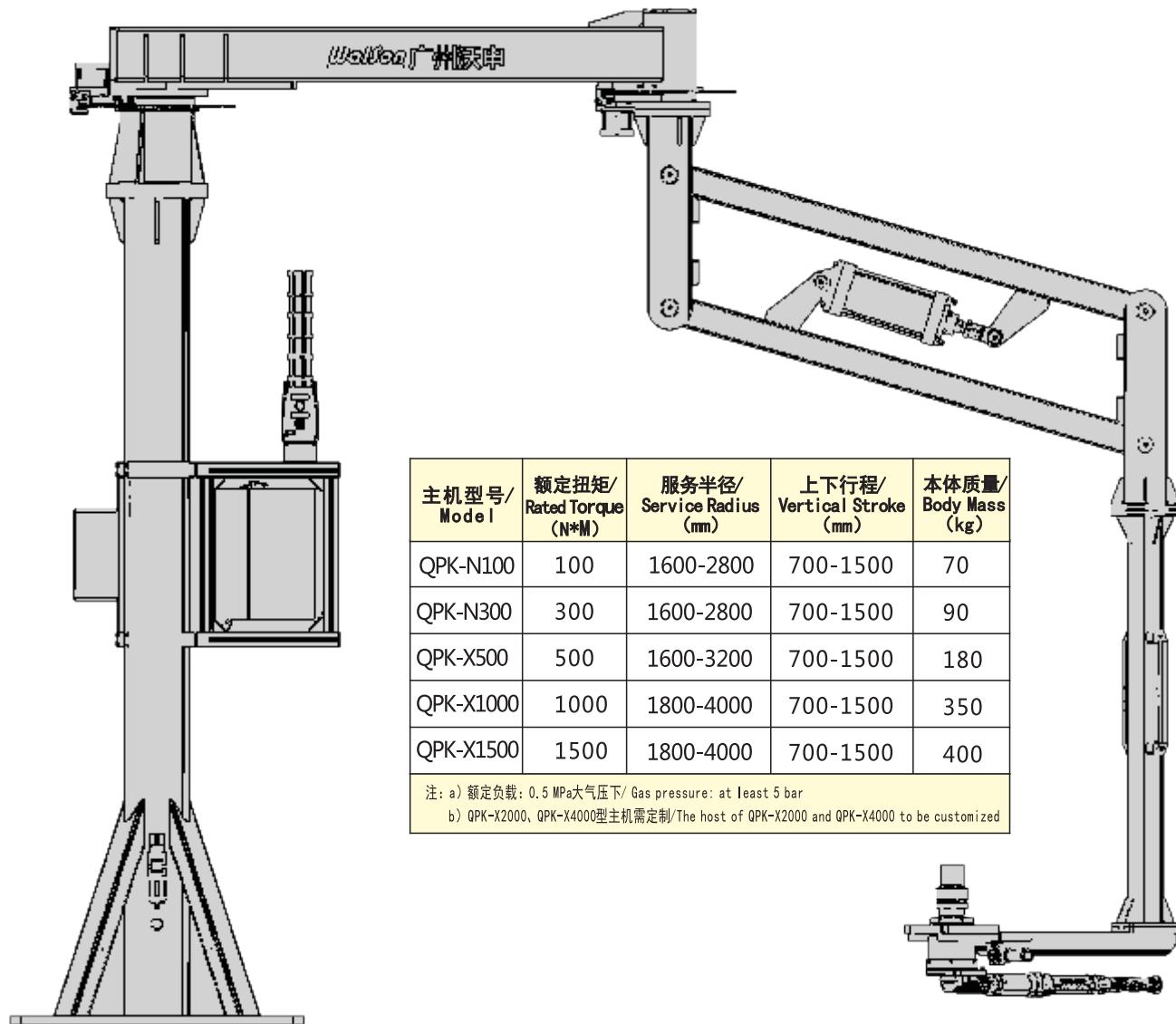
### 主机特点：

- 特殊的结构，吸收了电动拧紧轴的反力矩，(工人徒手承载的拧紧力矩小于50NM)
- 专门设计的拧紧轴夹头，最大化提高工人操作效率
- 该型主机与电动拧紧轴的完美搭配，承载电动拧紧轴的重量，实现全程无重力化
- 配备各种防护措施：误操作保护，安全限位，等等。

## QPK Model

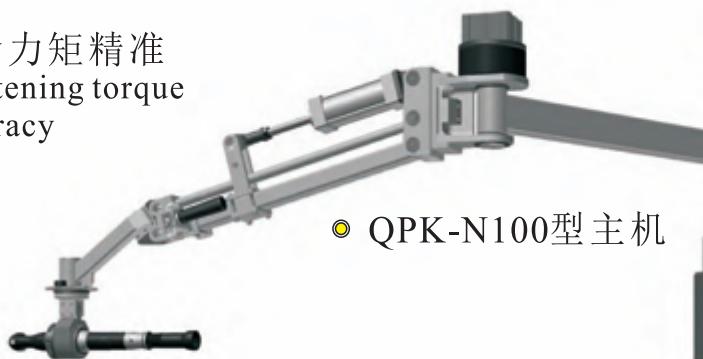
### Characteristics:

- Absorb the enormous instantaneous reaction torque. (tightening torque used by operator is less than 50NM).
- Special collet of tightening shaft. Designed for the maximize operating efficiency.
- The perfect match with electric screw shaft realizes the overall process without gravity.
- Equipped with kinds of protective measures, such as misoperation protection, safety limit switch.



- 巧妙地结构布局有效的吸收反力矩  
Absorb the enormous instantaneous reaction torque

- 拧紧力矩精准  
Tightening torque accuracy



- 操作手柄符合人机工程学原理  
Operating handle conform to the principle of ergonomics

- 完全覆盖所有工作范围  
Completely cover all the scope of work

- 拧紧效率高  
High efficiency tightening



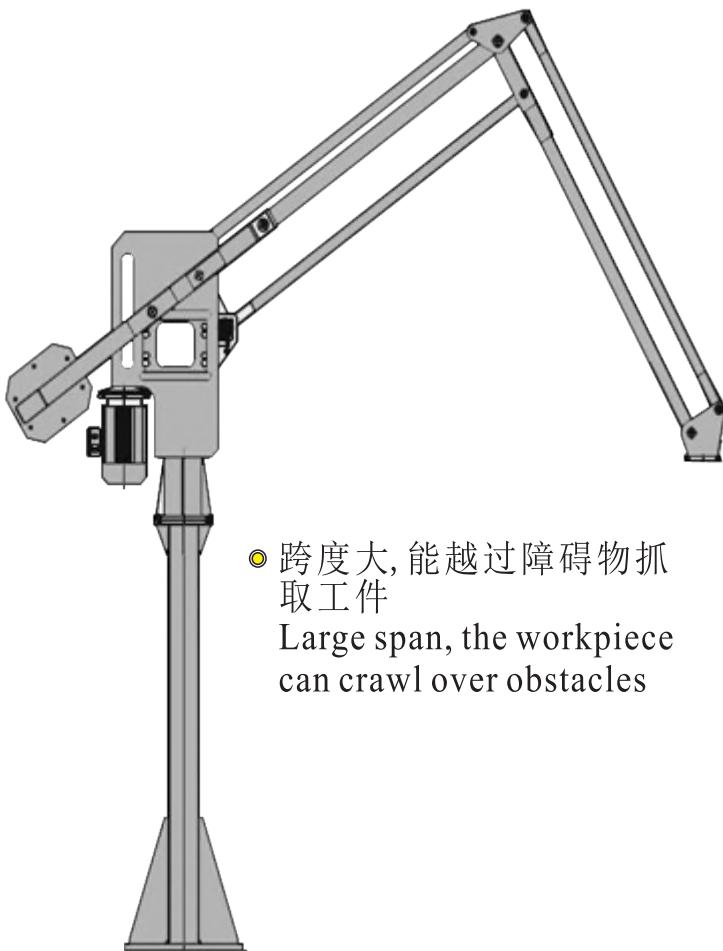
- 控制器集成于一体  
Controller integrated



抗扭型  
Antitorque Type

## DPF Model

## DPF 型主机



### 主机特点

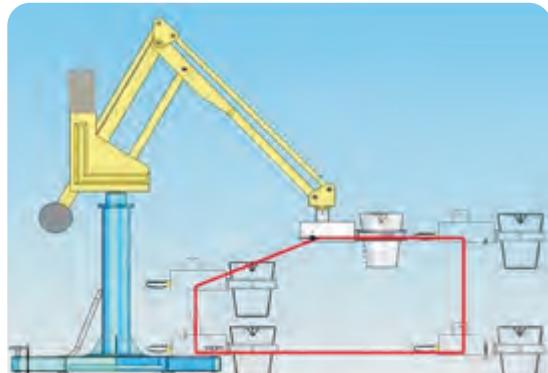
- 采用电机驱动, 适于现场无气源情况
- 刚性臂杆系统, 可越过障碍物取料
- 可保持夹具头部水平, 发挥高作业性
- 定制专用夹具, 控制手柄与夹具集成一体, 方便工件定位
- 配备各种防护措施: 过载保护, 误操作保护, 等等

主机型号/ Model	额定载荷/ Rated load (kg)	服务半径/ Service Radius (mm)	上下行程/ Vertical Stroke (mm)	本体质量/ Body Mass (kg)
DPF-50	50	1600-2600	700-1200	200
DPF-75	75	1600-2600	700-1200	250
DPF-100	100	1600-2400	700-1200	320
DPF-150	150	1800-2400	700-1200	400

注: a) 额定负载: 0.5 MPa大气压下/ Gas pressure: at least 5 bar

### Characteristics:

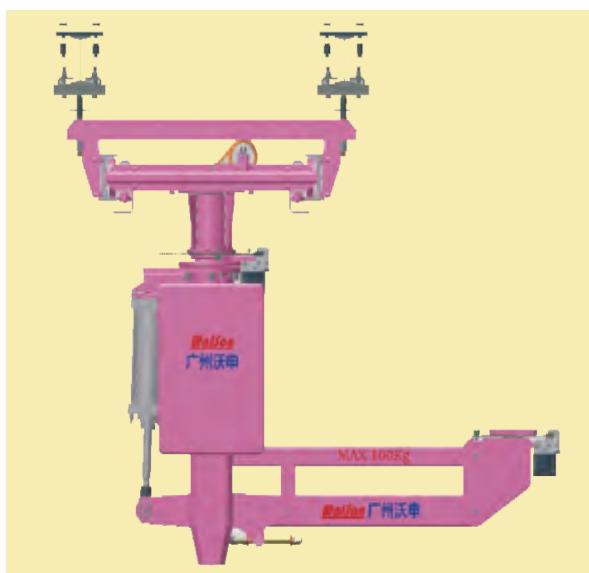
- Motor drive . Used in occasions where there is no compressed air power.
- Rigid arm system. Used to take goods over the obstacles.
- The top of fixture can be kept level. Used to improve the operating efficiency.
- Special fixture. The control hand and fixture are integrated for the convenience of workpiece localization.
- Equipped with kind of protective measures, such as overload protection misoperation protection, etc.



- 电机驱动  
Motor drive

- 运行轻柔, 无级变速, 启停无冲击  
Run gentle, stepless transmission, start and stop without impact

## 基座类型/Base Type

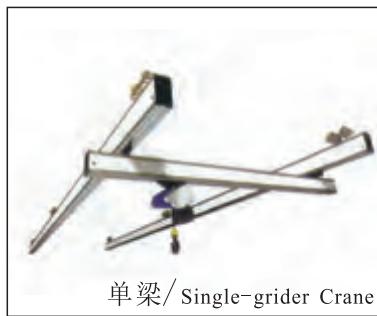
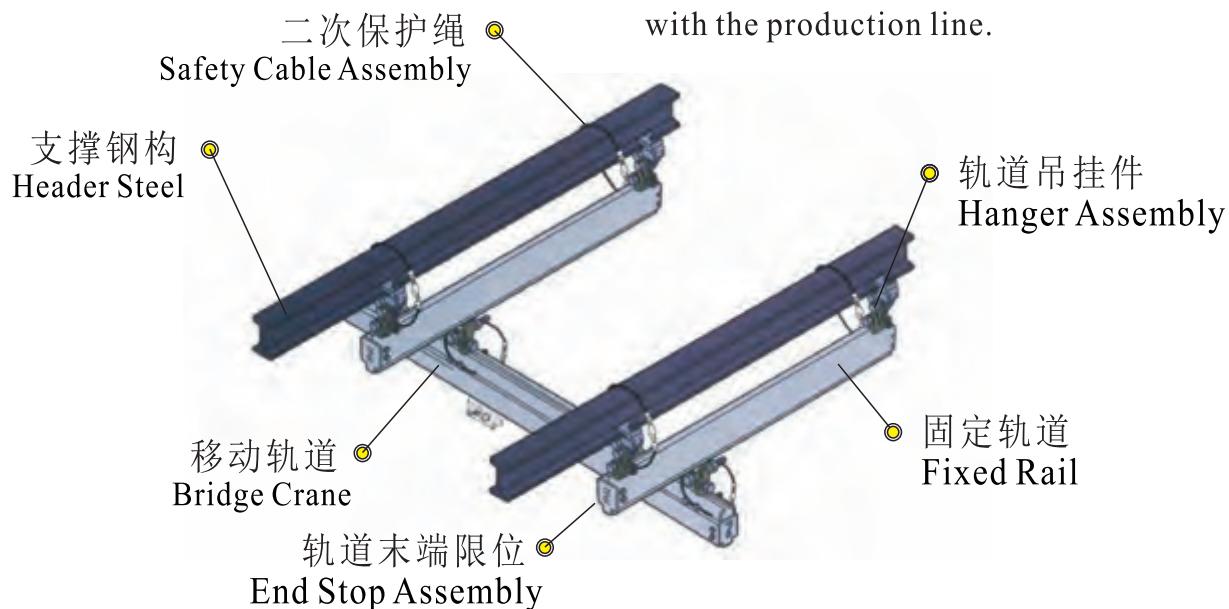


### 悬挂移动型:

- ▶ 服务范围广，承载大，节省地面空间，可根据现场工况选择合适的轨道长度
- ▶ 小车驱动方式分为手动驱动、电动驱动和气动驱动
- ▶ 小车移动速度可与主线同步

### Suspended Move Type

- ▶ Wide scope of services, Desirable bearing capacity, Space saving, adjustable track length.
- ▶ Driving mode: Manual, electric and pneumatic.
- ▶ The speed of trolley can synchronize with the production line.



### 地面移动型：

- 服务范围广，稳定性好，承载较大
- 小车推动轻便，可采用电动方式驱动
- 小车稳定性高，适于带有一定坡度的工况

### Ground Trolley Type

- Wide scope of services, high reliability and bearing capacity.
- The trolley is lightweight, easy to push and can be driven in the electric mode.
- High stability. Suitable for gradient conditions.

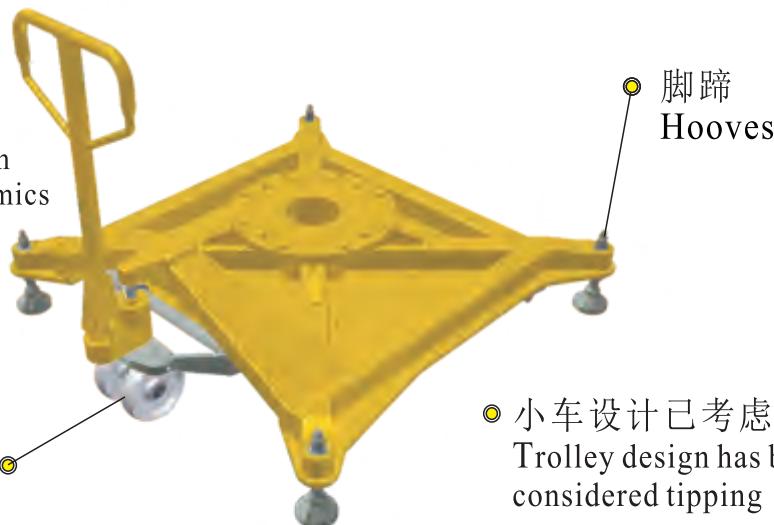


◎ 符合人机工程学的操作把手

Operating handle conform to the principle of ergonomics

优质脚轮--推动轻

,运行噪音小  
Quality casters: running light and Low noise operation



◎ 小车设计已考虑倾翻  
Trolley design has been considered tipping

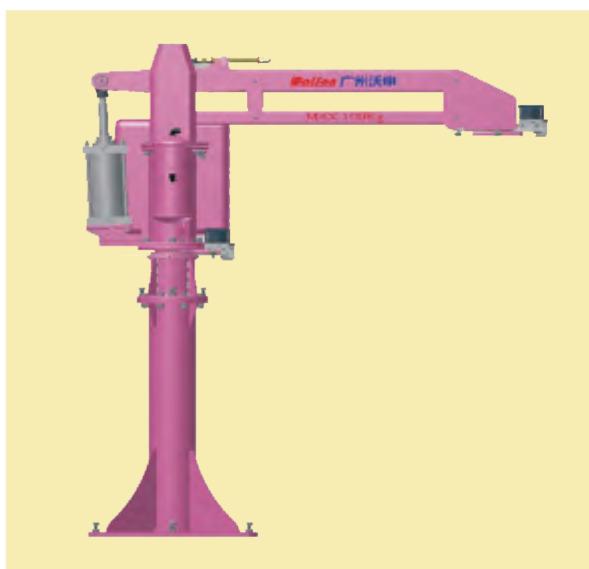
基  
座  
类  
型  
Base Type

### 地面固定型：

- 定点服务，适于现场简单工况，承载大
- 响应时间短，操作更便捷

### Column Mounted Type

- Location-based services, high bearing capacity. Suitable for simple working conditions.
- Good response time and high operation efficiency.



## 选型示例 / Selection Example

示例/Example: QPC50-CM-R2400-H1200-Y

QPC50-CM-R2400-H1200-Y

主机型号/Host Model

QPC50型主机, 额定载荷/Rated load 50kg

基座类型/Base Type

SM—悬挂移动型/Suspended Move Type, GT—地面移动型/Ground Trolley Type, CM—地面固定型/Column Mounted Type

服务半径/Service Radio

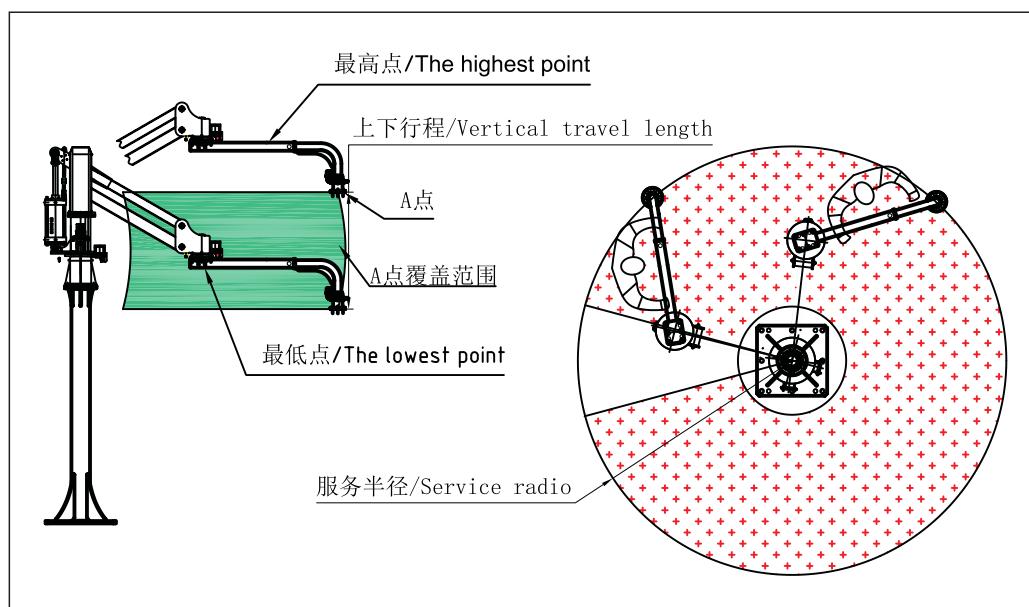
R2400—服务半径/Service Radio 2400mm

上下行程/Vertical Travel Length

H1200—上下行程/Vertical Travel Length 1200mm

夹具类型/Fixture Type

Y—动力夹具/Power Fixture N—无动力夹具/No Power Fixture



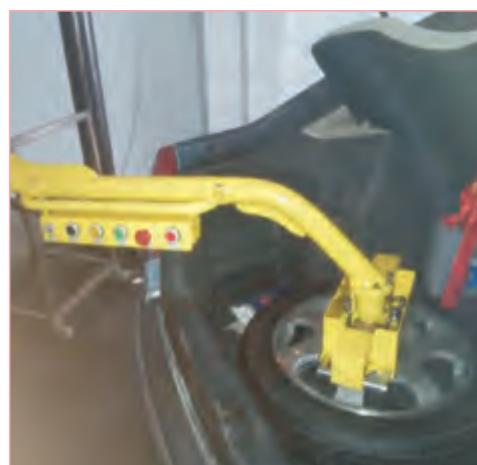
注: QPH型主机只能搭配悬挂移动型基座。

The model of QPH host can only match suspended move type.



- 农业品加工
- 汽车及汽车零部件
- 卫浴用品
- 陶瓷
- 化工/制药
- 机电
- 电子产品
- 工程及研究机构
- 食品/饮料/烟草
- 铸造
- 家具
- 玻璃和玻璃纤维
- 家用电器设施
- 金属拉丝
- 摩托车
- 纸张生产和印刷
- 橡胶/塑料
- 纺织
- 废物处置





- Agricultural products processing
- Motor vehicles and parts
- Toiletries
- Ceramics
- Chemicals / Pharmaceuticals
- Electromechanical
- Electronic products
- Engineering and research institutions
- Food / Beverage / Tobacco
- Casting
- Furniture
- Glass and glass fibers
- Appliances facilities
- Brushed metal
- Motorcycle
- Paper production and printing
- Rubber / Plastics
- Spinning
- Waste Disposal

## 沃申承诺/Walson Promise

### “四零”

- 工人搬运无限接近于零
- 客户投诉率无限接近于零
- 操作安全事故率无限接近于零
- 设备现场使用故障率无限接近于零



轻松启动/Easy to start

### “Four Zero”

- Workers handling unlimited close to zero.
- Customer complaint rate unlimited close to zero.
- Operational safety accident rate unlimited close to zero.
- Equipment failure rate unlimited close to zero.



集成气控箱, 内置各种保护/  
Integrated gas control box, built-in  
various protection

### “五最”

#### 最经济、有效方案

沃申工程师深入了解现场工况、工艺流程, 与客户一道, 用最经济、有效的方案解决客户难题。

#### “Five Most”

#### The most economical and effective solution

Walson engineers understand the working conditions and production routines and will use the most economical and effective solution to solve the customers' problems together with the customer.

### 最优化设计

沃申工程师根据前期数据, 深入分析, 用自己专业的知识和设计经验, 得到最优化设计。

#### Optimum design

Combined with the professional knowledge and design experience, Walson engineers will get an optimum design through the analysis of the preliminary data.

## 最完美制造

前期设计与客户达成一致，按会签下发图纸，严格控制采购渠道和外协渠道，形成最完美产品。

## The most perfect manufacturing

Walson has a strict purchasing channel and commercial components inspection. When customers get agreements on the design, the drawings will be distributed to related personnel and the most perfect product will be made.

## 最迅捷发货安装调试

严格保证客户的每一个时间节点，产品安装完毕预验收处理，通过后即安排发货，调用沃申专业人员现场调试至零故障。

## The fastest delivery, installation and debugging

Customers can be assured of every times node. Delivery of your product will be arranged soon after installation and pre-acceptance testing. Walson professionals will be committed to the live debug and to the customer's satisfaction.

## 最及时售后响应

针对客户的每一个问题，沃申均会在1小时内响应，由专业人士提供解决方案，12小时之内派专人到现场解决问题。

## Timely after-sales service

According to customer's every problem, Walson will respond within 1 hour, offer a solution and assign professionals to the scene to solve the problem within 12 hours.



沃申承诺  
Walson Promise

感恩客户给予的每一次机会，  
用我们的专业、专注、专心  
打造出让客户满意的产品。

Walson cherishes each opportunity with a thanksgiving heart and provides higher quality products for clients with the spirit of concentration, dedication and profession.



**Walson**

广州沃申

广州沃申机械有限公司

Guangzhou Walson Machinery Co., Ltd

地址(ADD): 广州市番禺区永宁大道东白岗新区3街26号  
NO.26,3 street ,Baigang New District ,  
West Yongning Road ,Panyu District,  
Guangzhou City.

电话(TEL) 传真(FAX) /: 020-3996 6695

手机(CEL): 86-18588869760 86-18588669085

E-mail:xxh\_walson@163.com