

经营理念 MANAGEMENT IDEA

诚信 执着 勤恳 创新
Integrity Persistent Diligent Innovation

事业目标 CAREER GOALS

专心经营 世界各国进口名牌精密机械产品

Concentrate on business
Countries around the world well-known imported precision machinery products

专业打造 一站式采购传动零部件现货基地

Professional build
One-stop shopping transmission components spot base



仓储车间
Warehousing



办公大厅
Office



加工车间
Workshop



公司介绍 COMPANY INTRODUCTION

海特传动成立于1998年，专业从事于滚珠螺杆、直线导轨、滚珠花键等直线运动产品的销售与加工。随着机械工业的发展，结合市场现状，引进先进精密仪器，广纳专业技术人才。海特传动已发展为集销售、加工生产、仓储、物流、研发、采购、售后为一体的全面综合型企业。服务领域涉及机械制造业、工厂自动化、半导体行业、汽车、光电、医疗、建筑、家电等众多领域。

海特传动秉持创造“高品质、高精度、高效能、低价位”的产品服务理念，坚持服务于品质的原则，为客户提供最理想的自动化运动产品。

HIT was founded in 1998, the specialty is engaged in the ball screw, linear guide, ball spline, linear motion products sales and processing. With the development of mechanical industry, together with the present situation of the market, the introduction of advanced precision instruments, recruitment of professional and technical personnel. Hite drive has been developed as a sales, production, research and development, procurement, warehousing, logistics, after-sale comprehensive service is a body comprehensive enterprise. Services involved in machinery manufacturing, factory automation, semiconductor industry, automobile, photoelectric, health care, construction, household appliances, and many other fields.

HIT adheres to create "high quality, high precision, high performance, low price" product service concept, adhere to the principle of serving the quality, to provide customers with the most ideal automation sports products.

发展历程 DEVELOPMENT CAREER

2017 海特公司三大板块并驾齐驱，常规丝杠导轨、量产直线模组、非标桁架机械手全面发展，年产量超过3亿元
The three major plates are in line with each other. The conventional screw guide, mass production linear module and non-standard truss manipulator have been developed in an all-round way, with an annual output exceeding 300 million yuan.

2014 随着自动化系统的多样化发展，成功研制桁架机械手，根据现场情况，专项订制
With the diversified development of automation system, the successful development of truss manipulator, according to the site condition, special order

2013 海特自动化系统事业部成立，成功研发并量产直线模组，计划年产量5万根，充分满足大中华区域的广大客户需求
HIT auto system division, successful research and development and production line module, plan annual output 50000, fully meet our customers demand greater China area

2011 海特公司搬迁新工厂，总面积超过1.5万平方米，预计年销售额超过三亿元人民币
Relocation of the company's new plant, with a total area of more than square meters, is expected to annual sales of more than three hundred million yuan

2008 海特工厂产量全面提升，每月供货量已超过丝杠1.5万根导轨2万米的规模
The factory production has been fully promoted, and the monthly supply has exceeded the size of 20 thousand meters of the lead screw.

2005 投资引进专业丝杠加工设备，面向中国大陆地区提供全方位的丝杠销售和加工服务
Investment introduction of professional screw processing equipment, to provide a full range of Chinese mainland area of the screw sales and processing services

2004 正式代理台湾TBI公司滚珠丝杠系列产品，同年建立TBI产品在中国的库存基地
Formal agent Taiwan TBI ball screw series products, the same year to establish TBI products in China's inventory base

2003 成为韩国SBC公司在中国独家授权代理，开始大批量库存直线导轨产品
South Korea SBC company in China, the exclusive authorized agent, the beginning of a large inventory of linear guide rail products

2002 与新加坡HISAKA公司战略合作，携手开拓大中华区直线传动产品市场
Strategic cooperation with HISAKA company in Singapore, to work together to develop the market of linear transmission products in Greater China

2000 首次实现进口直线光轴及轴承现货库存销售，使国际标准尺寸产品应用于中国地区客户
For the first time to achieve the import of the optical axis and bearings inventory sales, so that the international standard size of products used in China's regional customers

1998 海特公司前身天津全日精机电公司成立，主要代理销售IKO、THK、NSK等日本品牌产品
HIT, the predecessor of Tianjin day fine mechanical and electrical company, the main sales agent IKO, THK, NSK and other Japanese brand products

海特工业自动化系统 HIT INDUSTRIAL AUTO SYSTEM

海特自动化系统的开发始于2008年，以非标设计模组为基础，逐渐在电子产品的组装、汽车零部件的焊接、喷涂和搬运、大型液晶显示屏的制造等各种行业的生产设备中得以广泛应用，在市场中历练、反复改进而实现的长久业绩是深受客户信赖的有力保证。

HIT auto system development began in 2008, the strong guarantee to non-standard design module based gradually in the assembly of electronic products, automobile parts and components of the welding, spraying and handling, large LCD display and other manufacturing industry production equipment can be widely used, in the market experience, iterative improvement and achieve longterm performance is deeply trusted by customers.

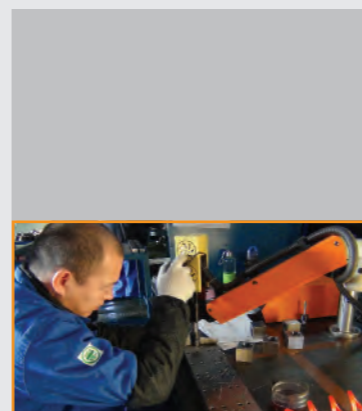
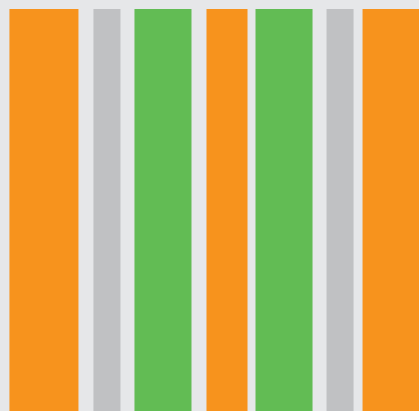
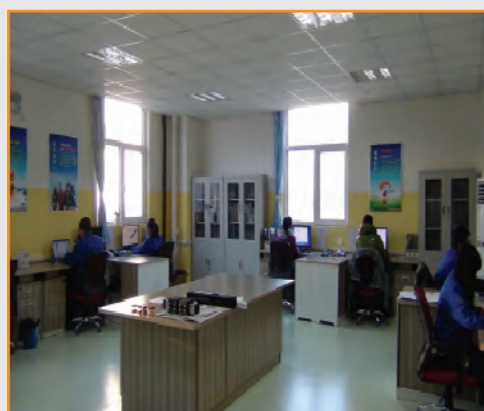
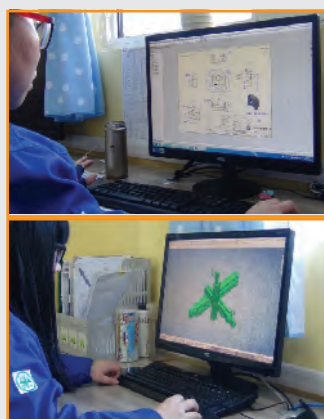


技术与研发设计

Technology and R&D

广纳专业的技术人才，不断引进及更新最新的2D/3D软件作为研发设计的工具，并定期安排设计人员进行专业的培训及深造，再整合我们数十年的研发生产经验，力争把HIT开发的产品打造成最贴近客户需求的产品。

Recruit professional and technical personnel, will continue to introduce and update the latest 2D / 3D software as a tool for design and development, and regularly scheduled design personnel for professional training and education, and then integrate our decades of experience in R & D and production, and strive to HIT developed products to create the most close to the customer demand for products.



规范的品质管理

Standardized quality management

导入ISO9001标准生产管理流程，并建立无尘室组装车间，而且不惜巨资引入高精度的检测设备，所有的努力只为了以“零缺失”品质出库，同时按产品唯一编码记录存档，便于我们的客户查询和参考。让每一个客户都能无后顾之忧的使用我们的产品。

Import ISO9001 standard production management process, and the establishment of clean room assembly workshop and enormous amounts of money to introduce high-precision testing equipment, all efforts only in order to "zero" lack of quality in the library, also according to the unique product code documented, easy to our clients to query and reference. Let every customer to worry about the use of our products.



标准的车间管理

The standard workshop management

认真负责的管理团队，从加工到成品入库的无缝对接，把握生产中的每一个细节。无规矩不成方圆，只有保证我们生产中的“方”，才能让所有客户都能用到满意的“圆”。

Responsible for the management team, from processing to the finished product storage of seamless docking, grasp the production of every detail. No rules no Cheng Fangyuan, only to ensure that we produce in the "side", in order to allow all customers can be used to the satisfaction of the round".



行销与售后服务

Marketing and after-sales service

为了确保客户能及时得到HIT的服务，目前在中国从南到北我们设立了4家分公司并建立约上百家的经销网点，希望能让所有使用HIT产品的客户都能够得到最完整的服务。

In order to ensure that customers can receive timely hit the service, at present in China from south to north we set up four branch and the establishment of about 100 retail outlets, want to let all of the use of hit products customers are able to get the most complete service.

产品应用 Product Application



机床上下料
Machine Feeding Blanking

喷涂设备
Spraying Equipment



焊接行业
Weiding Industry

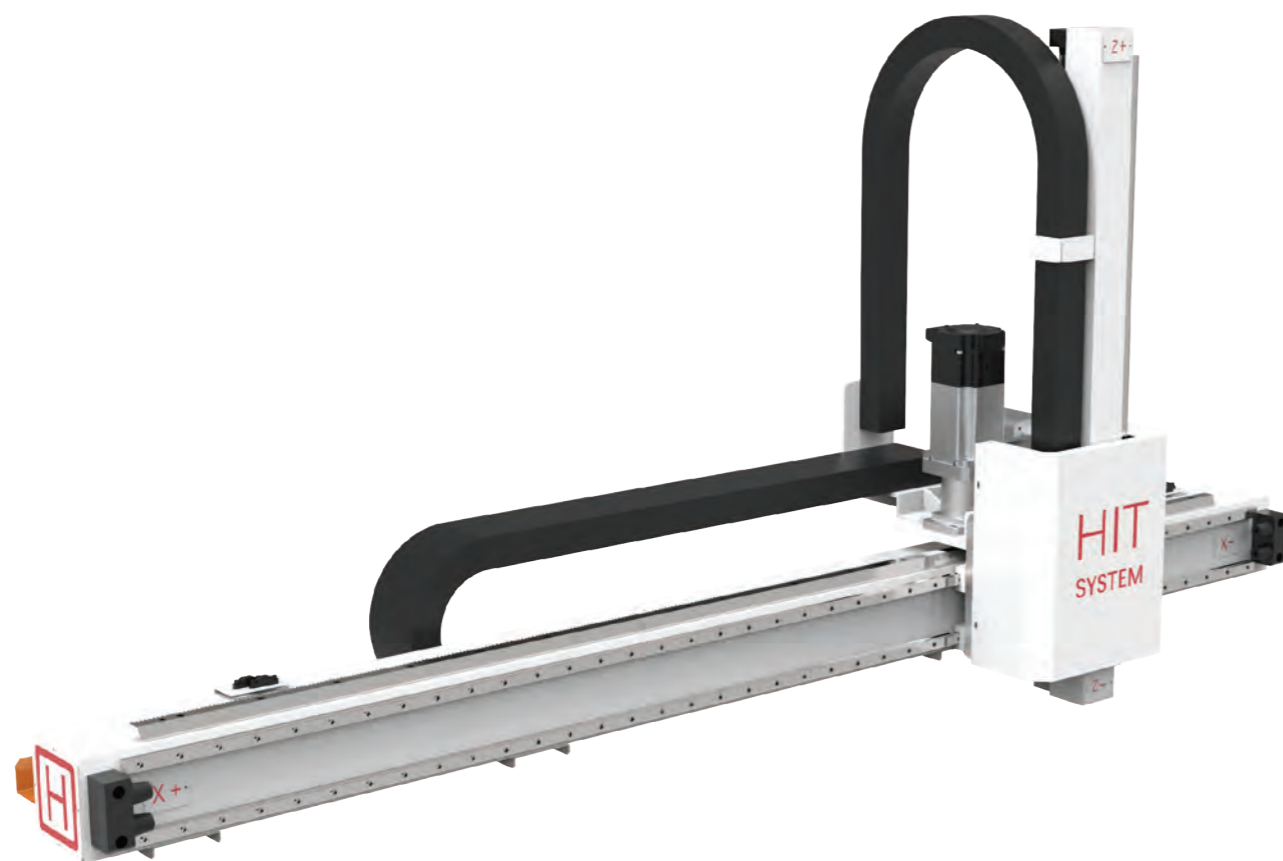
搬运及码垛
Handling and Palletizing



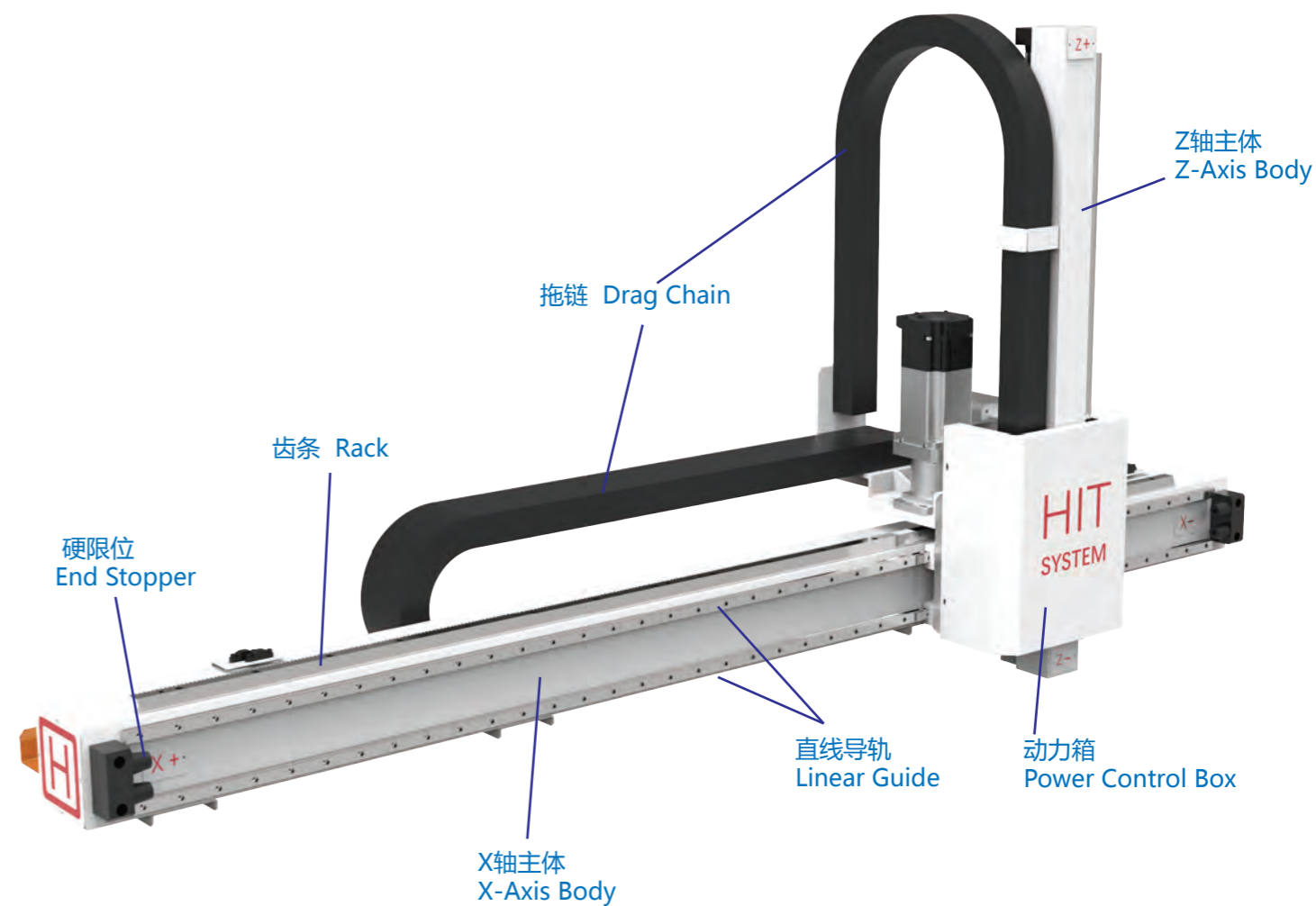
产品目录 Product Content

图片 Picture	系列 Series	结构 Model	页码 Page
	双轴系列 Double Axis Series	HE01型	P15
		HF01型	P16
		HG01型	P17
		HH01型	P18
		HN01型	P19
		HI01型	P20
		HJ01型	P21
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	多轴系列 Multi Axis Series	HL01型	P23
		HP01型	P24
		HR01型	P25
		HT01型	P26
		HM01型	P27
	单轴系列 Single Axis Series	HS01型	P28

双轴系列 Double Axis Series



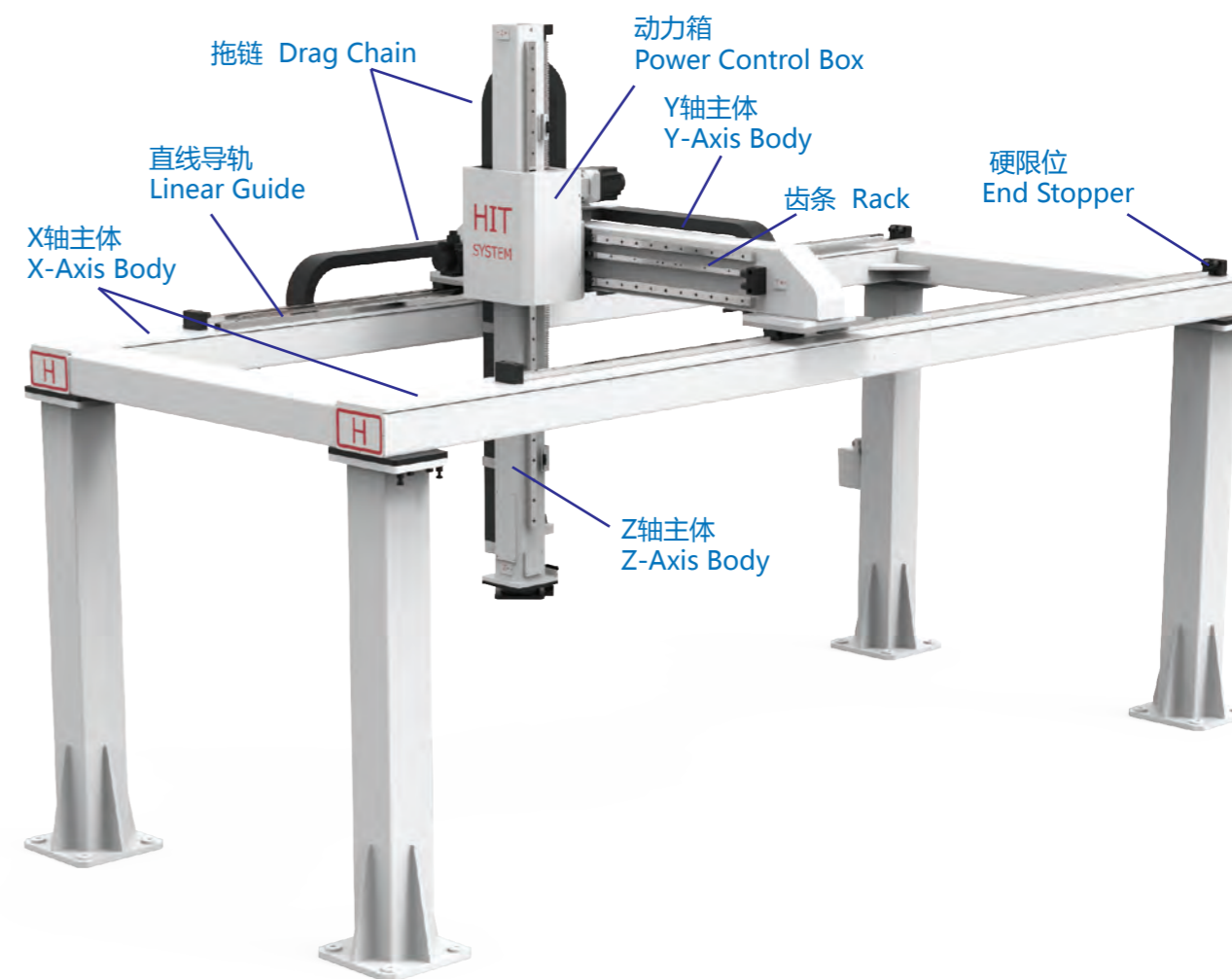
组成结构 Composition Structure



类型/Type	有效负载范围/range of load[Kg]					
	5	20	40	80	150	500
HE01型	■	■	■			
HF01型	■	■	■			
HG01型	■	■	■	■	■	■
HH01型	■	■				
HN01型	■	■	■	■	■	■
HI01型	■	■	■	■	■	■
HJ01型	■	■	■	■	■	■
HK01型	■	■	■	■	■	■
HR01型	■	■	■	■	■	■

多轴系列 Multi Axis Series

组成结构 Composition Structure

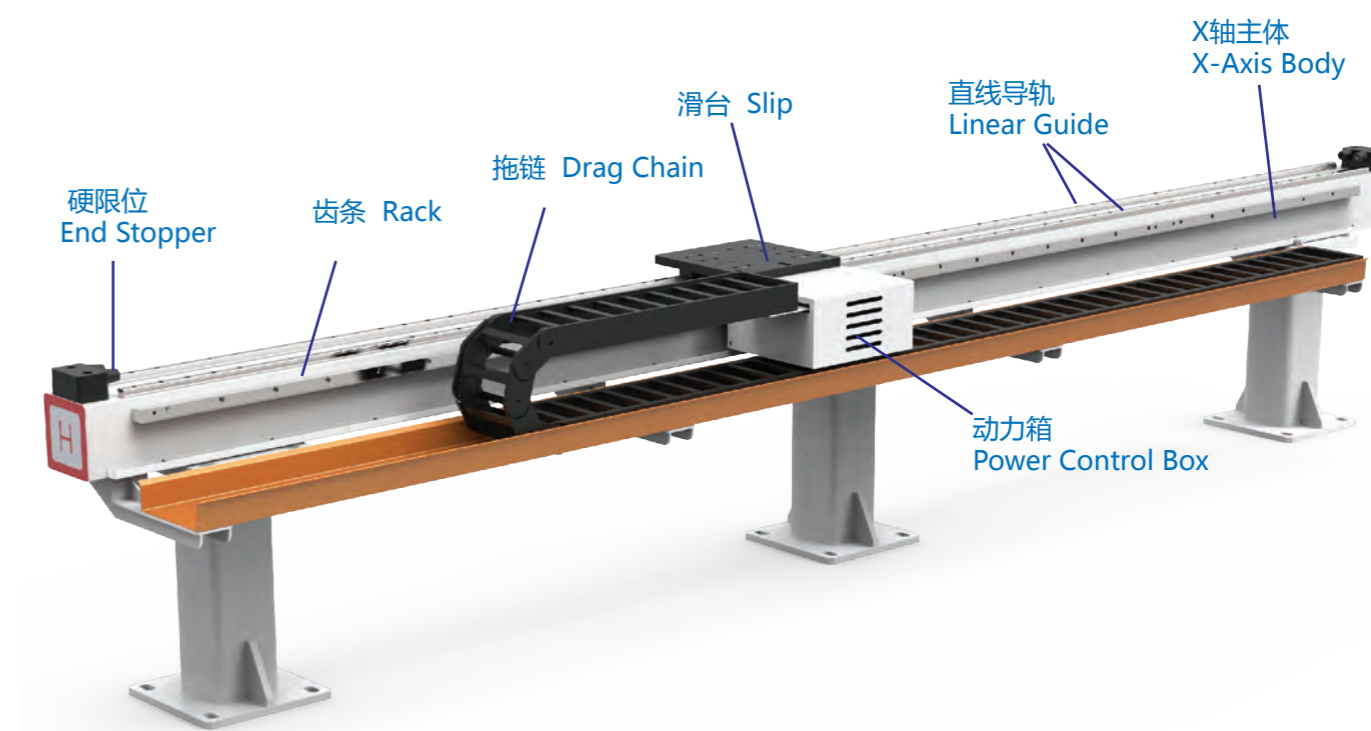


类型/Type	有效负载范围/Range of Load[Kg]				
	20	75	150	300	300
HL01型					
HP01型					
HT01型					
HM01型					

单轴系列 Single Axis Series



组成结构 Composition Structure



类型/Type	有效负载范围/Range of Load[Kg]							
	100	200	300	500	800	1300	2400	3500
HS01-A型	■	■	■					
HS01-B型	■	■	■	■	■			
MAX	■	■	■	■	■	■	■	■

○ 一体式一拖一机械手 one driving one truss manipulator

一体式一拖一桁架机械手是单机自动化设备，机械手立柱固定在机床底座铸件上，与机床融为一体，有效的节约空间并保护地面，同时也避免了排削机对机械手的干涉因素。机械手与机床采用一体化、模块化设计，通用性强，操作简单，对操作人员技能要求低。该桁架广泛应用于数控车床、加工中心、数控磨床等上下料。

Integral, one driving one truss manipulator is stand-alone automation equipment, with a manipulator column integrated with the machine base, which is significantly space-saving and ground-protecting as well as avoiding interfering factors of cutting machine to the manipulator. Its features of integration, modular design and general utilization enable fewer requirements of operators. One driving one truss manipulators are widely used in CNC lathes, machining centers and CNC grinding machines for laying-off materials.



○ 规格参数 Specifications

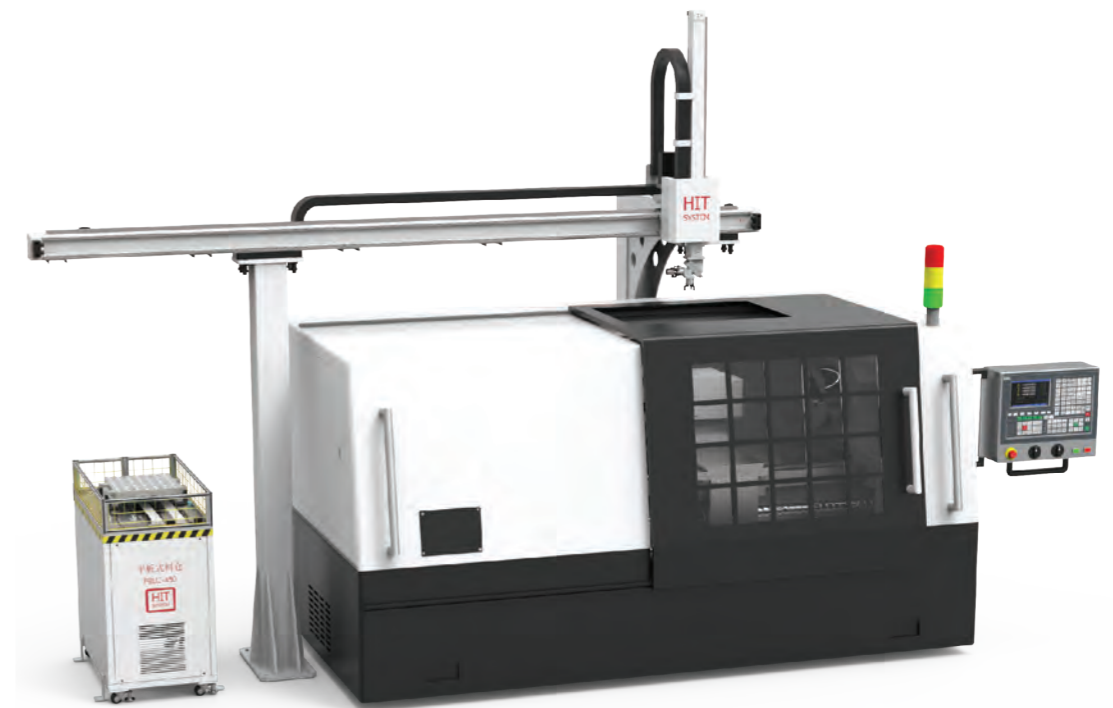
序号 (NO.)	名称 (Designation)	HE01-A	HE01-B
1	Z轴负载 kg Z axis payload	20	40
2	X轴移动速度 mm/s X axis speed (max)	1500	1500
3	Z轴移动速度 mm/s Z axis speed (max)	1500	1500
4	重复定位精度 mm Repeated positioning accuracy	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

上表中零件详细规格请参考我司其他产品样册。
For further detail of components in above talbe, please refer to our other kinds.

○ 落地式一拖一机械手 one driving one truss manipulator

落地式一拖一是单机自动化设备，采用双立柱结构，分别置于机床一侧和后方，具体安装位置可根据现场机床布局情况而定，可置于机床左右两侧，灵活多变，同时也避免了排削机对机械手的干涉因素。机械结构简单，多用于对客户现场设备进行自动化改造。

Floor type truss manipulator, a stand-alone automation equipment, carries double columns which are installed separately behind and beside the machine, also other specific positions as regards customers' requirements to avoiding interfering factors of cutting machine to the manipulator. Floor type truss manipulator possesses a simple structure allowing customers to reconstruct automation equipments.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HF01-A	HF01-B
1	Z轴负载 kg Z axis payload	20	40
2	X轴移动速度 mm/s X axis speed (max)	1500	1500
3	Z轴移动速度 mm/s Z axis speed (max)	1500	1500
4	重复定位精度 mm Repeated positioning accuracy	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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落地式一拖一是单机自动化设备，采用双立柱结构，分别置于机床两侧，具体安装位置可根据现场机床布局情况而定，料仓可置于机床左右两侧，灵活多变。机械结构简单，多用于对客户现场设备进行自动化改造。

Floor type truss manipulator, a stand-alone automation equipment, carries double columns which are installed separately beside the machine, also other specific positions as regards customers' requirements. Floor type truss manipulator possesses a simple structure allowing customers to reconstruct automation equipments



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HG01-A	HG01-B	MAX
1	Z轴负载 kg Z axis payload	20	40	500
2	X轴移动速度 mm/s X axis speed (max)	1500	1500	800
3	Z轴移动速度 mm/s Z axis speed (max)	1500	1500	500
4	重复定位精度 mm Repeated positioning accuracy	±0.05	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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落地式一拖一是单机自动化设备，采用单立柱结构，具体安装位置可根据现场机床布局情况而定，可置于机床左右两侧，灵活多变，同时也避免了排削机对机械手的干涉因素。机械结构简单，多用于对客户现场设备进行自动化改造。

Floor type truss manipulator, a stand-alone automation equipment, carries double columns which can be installed in specific positions as regards customers' requirements to avoiding interfering factors of cutting machine to the manipulator. Floor type truss manipulator possesses a simple structure allowing customers to reconstruct automation equipments.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HH01-A
1	Z轴负载 kg Z axis payload	5
2	X轴移动速度 mm/s X axis speed (max)	1500
3	Z轴移动速度 mm/s Z axis speed (max)	1500
4	重复定位精度 mm Repeated positioning accuracy	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control

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○ 纵跨式一拖一机械手 one driving one truss manipulator

纵跨式一拖一机械手是单机自动化设备，采用双立柱龙门结构，立柱分别置于机床前后两侧，机械结构和电控系统均采用模块化生产，便于客户现场安装调试和旧机床改造，多用于自机床前方上下料的机床改造。

Longitudinal one driving one truss manipulator is stand-alone automation equipment using double-column structure, whose columns stand respectively front and back of the machine. Truss manipulator system all using modular production leading to easier installation and machines reform for the use of laying-off materials.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HN01-A	HN01-B	MAX
1	Z轴负载 kg Z axis payload	20	40	500
2	X轴移动速度mm/s X axis speed (max)	1500	1500	800
3	Z轴移动速度mm/s Z axis speed (max)	1500	1500	500
4	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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For further detail of components in above talbe, please refer to our other kinds.

○ 落地式一拖二机械手 One driving two truss manipulator

一拖二桁架机械手对桁架结构进行优化设计，配电柜与桁架一体式设计，结构小巧轻便，可完成零件的二个工序的加工，组成一台机器人完成两台机床上下料的生产线。多应用于数控车床、加工中心等机床。

One driving two truss manipulator has been optimized by using an integral structure with a power distribution cabinet, leading to a lighter weight and occupying smaller space, Achieving two machines 'needs of laying-off materials only by one truss, it also can complete the second procedure of processing course and is widely used in CNC machines, machining centers, etc.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HI01-A	HI01-B	MAX
1	Z轴负载 kg Z axis payload	20	40	500
2	X轴移动速度mm/s X axis speed (max)	1500	1500	800
3	Z轴移动速度mm/s Z axis speed (max)	1500	1500	500
4	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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○ 落地式一拖三机械手 One driving three truss manipulator

一拖三桁架机械手可联机三台机床组成生产加工单元，主体部分采用多立柱结构设计，具有高刚性、负载重的特点，机械结构和电控系统均采用模块化生产，便于客户现场安装调试和旧机床改造。

One driving three truss manipulator makes it possible by combining three machines into a machining center with a main body equipping multiple columns, which features high rigidity and heavy load. Truss manipulator system all using modular production leading to easier installation and old machines reform.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HJ01-A	HJ01-B	MAX
1	Z轴负载 kg Z axis payload	20	40	500
2	X轴移动速度mm/s X axis speed (max)	1500	1500	800
3	Z轴移动速度mm/s Z axis speed (max)	1500	1500	500
4	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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For further detail of components in above talbe, please refer to our other kinds.

○ 落地式一拖四机械手 One driving four truss manipulator

一拖四桁架机械手可联机四台机组组成生产加工单元，主体部分采用多立柱结构设计，具有高刚性、负载重的特点，双Z轴设计可有效提高生产线工作节拍。机械结构和电控系统均采用模块化生产，便于客户现场安装调试和旧机床改造。

One driving four truss manipulator combines four machines into a machining center with a main body that equips multiple columns, which features high rigidity and heavy load. Double Z axis design improves production efficiency. Truss manipulator system all using modular production, leading to easier installation and old machines reform.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HK01-A	HK01-B	MAX
1	Z轴负载 kg Z axis payload	20	40	500
2	X轴移动速度mm/s X axis speed (max)	1500	1500	800
3	Z轴移动速度mm/s Z axis speed (max)	1500	1500	500
4	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05	±0.05
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

上表中零件详细规格请参考我司其他产品样册。
For further detail of components in above talbe, please refer to our other kinds.

○ 龙门式搬运三轴码垛机械手 One driving three truss manipulator

搬运码垛桁架机械手既可用于自动化生产线首末端，对成品工件进行装箱工作，又可应用在包装生产线末端，对包装后的工件进行搬运码垛，充分节省人力物力。

Stacking truss manipulator can be used not only at end part of automated production line, which mainly is packing finished products, but also the end of stacking and handling goods, economizing mostly manpower and resources.



○ 规格参数 Specifications

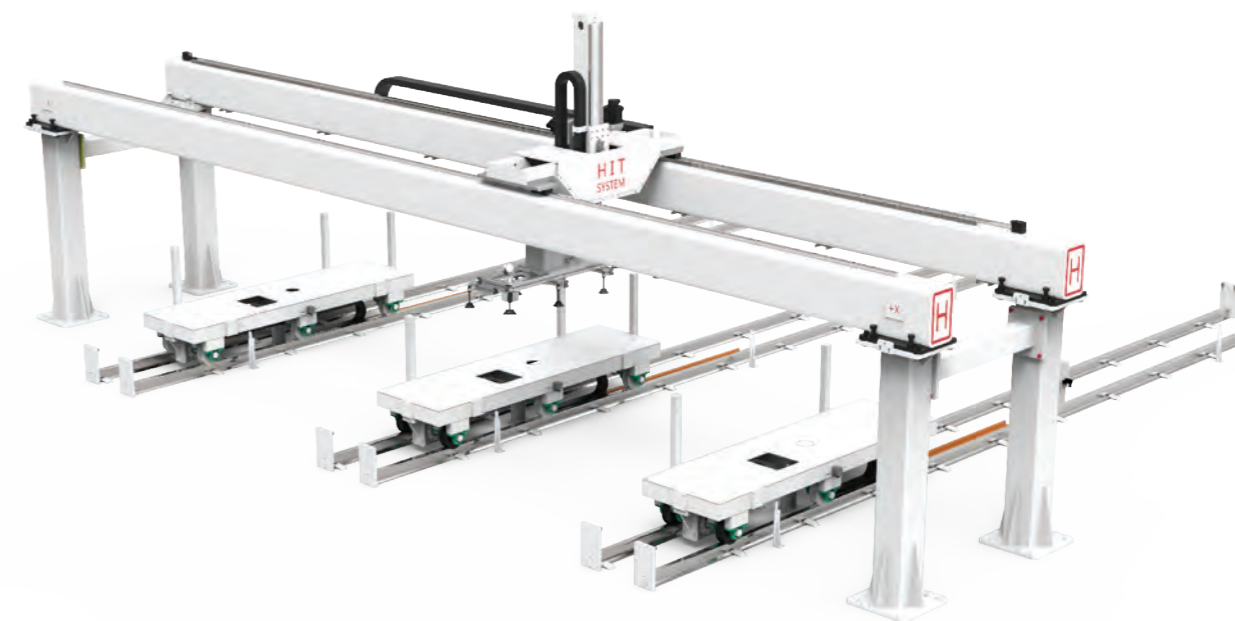
序号 (NO.)	名称 (Designation)	HL01-A	HL01-B	MAX
1	Z轴负载 kg Z axis payload	75	150	500
2	X轴移动速度mm/s X axis speed (max)	1200	800	600
3	Z轴移动速度mm/s Z axis speed (max)	1200	800	600
4	Y轴移动速度mm/s Y axis speed (max)	1000	600	500
5	重复定位精度mm Repeated positioning accuracy	±0.2	±0.2	±0.3
6	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
7	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control
		PLC示教模拟控制 PLC simulation control	PLC示教模拟控制 PLC simulation control	PLC示教模拟控制 PLC simulation control

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○ 龙门式超大跨度三轴搬运机械手 Long-span hauling truss manipulator

超大跨度搬运桁架机械手是专门为长跨度生产线设计，其中X轴行程较长，又无法在中间增加立柱。桁架采用龙门式结构设计，主材料选择高强度型钢，减小主材下挠；X轴可根据Y轴跨度需要设计为单轴驱动和双轴驱动两种形式，具有高刚性、负载重的特点。

Long-span hauling truss manipulator is specifically designed for the case of long length production line where the long range of X axis cannot be added any column in the middle. Long-span hauling truss manipulator adopts gantry structure using high-strength steel to effectively avoid down deflection. X axis can be designed into single-axis driven or double-axis driven depending on length of Y axis, with features of high rigidity and heavy load.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HP01-A	HP01-B	MAX
1	Z轴负载 kg Z axis payload	50	100	500
2	X轴移动速度mm/s X axis speed (max)	1200	1200	600
3	Z轴移动速度mm/s Z axis speed (max)	1200	1200	600
4	Y轴移动速度mm/s Y axis speed (max)	1000	1000	500
5	重复定位精度mm Repeated positioning accuracy	±0.3	±0.3	±0.3
6	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
7	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control
		PLC示教模拟控制 PLC simulation control	PLC示教模拟控制 PLC simulation control	PLC示教模拟控制 PLC simulation control

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○ 龙门式Z轴机械手 Z axis gantry structure truss manipulator

Z轴龙门式桁架机械手是针对Z轴负载力矩较大的工作条件设计。当Z轴负载力矩超过其连接轴允许负载力矩时，需增加辅助轴用以增大连接轴负载力矩，机械结构和电控系统均采用模块化生产，便于客户现场安装调试和旧机床改造；多用于生产线空间受限时，桁架机械手距料仓和加工位较远的自动化生产线。

Z axis gantry structure truss manipulator is designed to resolve the condition of Z axis bearing much heavier load than its connecting axis bending moment by adding auxiliary axes to enhance bending moment. Truss manipulator system all using modular production leading to easier installation and machine reform. This type of truss manipulator can be applied in the case of long distance between the truss and raw material stock caused by limited production space.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HR01-A	HR01-B
1	Z轴负载 kg Z axis payload	75	150
2	X轴移动速度mm/s X axis speed (max)	1500	1500
3	Z轴移动速度mm/s Z axis speed (max)	1500	1500
4	重复定位精度mm Repeated positioning accuracy	±0.1	±0.1
5	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
6	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

上表中零件详细规格请参考我司其他产品样册。
For further detail of components in above talbe, please refer to our other kinds.

○ 龙门式四轴搬运机械手 One driving four truss manipulator

龙门式四轴机械手，具有高刚性、负载重的特点。X轴可根据Y轴跨度需要设计为单轴驱动和双轴驱动两种形式，Z轴末端安装旋转轴U轴，多应用于搬运码垛等领域。

One driving four truss manipulator features high rigidity and heavy load. X axis can be designed into single axis driven or double axis driven depending on length of Y axis, with dust-proof devise to better protect X axis and rack. The end of Z axis is installed with rotation axis, namely U axis. Mostly used in the field of welding and goods stacking.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HT01-A	HT01-B	MAX
1	Z轴负载 kg Z axis payload	75	150	500
2	X轴移动速度mm/s X axis speed (max)	1500	1500	600
3	Z轴移动速度mm/s Z axis speed (max)	1500	1500	600
4	Y轴移动速度mm/s Y axis speed (max)	1500	1500	500
5	U轴移动速度r/s U axis speed (max)	1	0.8	0.5
6	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05	±0.1
7	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
8	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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For further detail of components in above talbe, please refer to our other kinds.

○ 龙门式四轴焊接机械手 One driving four truss manipulator

龙门式四轴机械手，具有高刚性、负载重的特点。X轴可根据Y轴跨度需要设计为单轴驱动和双轴驱动两种形式，并加装防尘结构，保护X轴导轨和齿条，Z轴末端安装旋转轴U轴，多应用于焊接、搬运码垛等领域。

One driving four truss manipulator features high rigidity and heavy load. X axis can be designed into single axis driven or double axis driven depending on length of Y axis, with dust-proof devise to better protect X axis and rack. The end of Z axis is installed with rotation axis, namely U axis. Mostly used in the field of welding and goods stacking.



○ 规格参数 Specifications

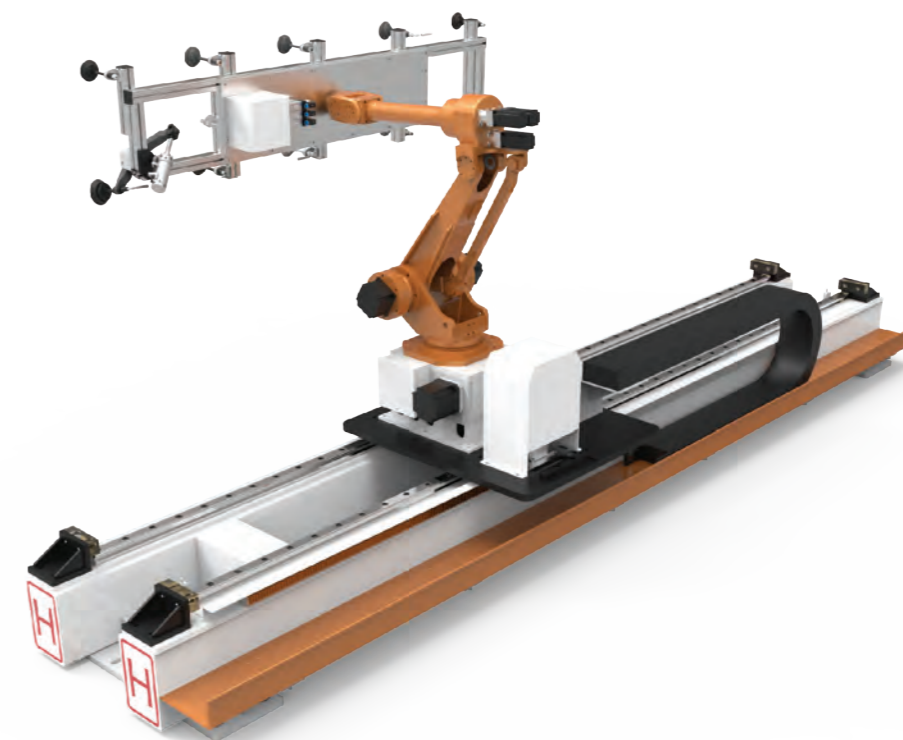
序号 (NO.)	名称 (Designation)	HM01-A	HN01-B
1	Z轴负载 kg Z axis payload	20	75
2	X轴移动速度mm/s X axis speed (max)	1000	800
3	Z轴移动速度mm/s Z axis speed (max)	1000	800
4	Y轴移动速度mm/s Y axis speed (max)	800	500
5	U轴移动速度r/s U axis speed (max)	1	0.8
6	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05
7	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
8	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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○ 机器人第七轴结构

机器人第七轴是在行走轴导轨上安装一台工业机器人，使用电机驱动，具有重复定位精度高、响应速度快、运行平稳、可靠等特点。可选配防尘罩。主要用于扩大机器人作业半径，扩展机器人使用范围功能，主要应用于焊接、铸造、机械加工、智能仓储、汽车、航天等行业领域。实现对机器人的多工位搬运，有效节约成本，提高机器的工作效率

Seventh robot axis, namely robot guide rail, is a linear guide fixed under an industrial robot, driven by motors. It features high accuracy of positioning, speedy reaction, steady operation and high reliability. Equipping dust-proof devises can effectively prolong the axis' life.. Aims of applying seventh robot axis are to expand robot' s operating radius and enlarge the field of robot application including welding, casting, machining, intelligent warehousing, automobile, spacecraft, and etc, realizing shifting robots, money saving and enhancing robots' working efficiency.



○ 规格参数 Specifications

序号 (NO.)	名称 (Designation)	HS01-A	HS01-B	MAX
1	负载 kg payload	100	200	3500
2	移动速度mm/s speed (max)	1500	1500	1500
3	重复定位精度mm Repeated positioning accuracy	±0.05	±0.05	±0.05
4	驱动方式 Drive mode	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer	伺服+减速机 Servo+Reducer
5	控制方式 Control system	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control	机器人专用控制器 Special robot control

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桁架配套设施 Technical data

● 平板式料仓

平板式料仓又称为点阵式料仓，采用双层料仓结构，驱动单元带动上下两层料盘至抓取位，并配合机械手运动，抓取工件，工件加工完成后，更换第二料盘至抓取位，同时第一料盘可取出加工完成的工件并放置新工件。多用于小型工件自动化生产加工。

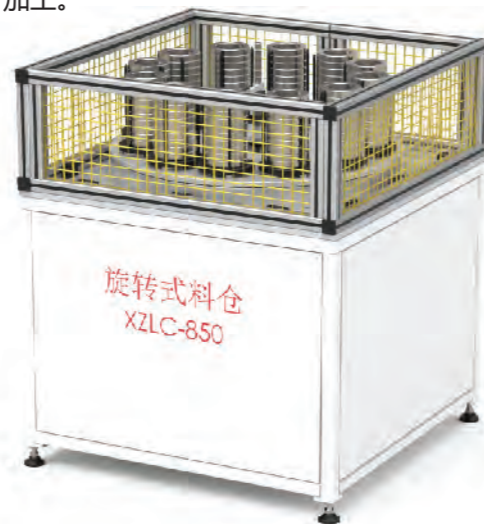
Flat stock bin, also called dot-matrix style stock bin, adopts a double-deck structure. Drive units lead two decks to the gripping position, then the manipulator fetches goods in the first deck, after they finished, it fetches goods in the second deck, meanwhile output finished goods of the first deck, again input unfinished goods. Flat stock bin is widely used in automated production of small size components.



● 旋转式料仓

旋转式料仓，由人工将毛坯装满料仓的n-1个工位；机械手从上料位抓取毛坯件后，传感器发出信号，料仓托盘上升一个位置（距离为零件厚度），准备下一次上料；当一个上料位的零件全部加工完毕，料仓转过一个料位，开始下一个工位零件的上料，依此循环，待n-1个工位的零件全部加工完后，料仓发出警告，由人工进行下一轮的下料和码料。多用于盘类零件自动化生产加工。

Rotation type stock bin's operation procedures are as follows: put unfinished goods manually in n-1 positions of the rotation type stock bin, then the sensor will send a signal after the manipulator fetch a product, and then the tray rises one position (distance equals to thickness of the product) preparing for the next fetching motion. Finally, when all n-1 positions are empty, stock bin sends a warning to notice operators to refill trays. Rotation type stock bin mostly adopted in the field of automated production of plate-shaped components.



桁架机械手安全操作注意事项

- 桁架式机械手在工作过程中，如有不正常工作，要按“急停”按钮。
When improper movements of the manipulator happen, the button of emergency stop needs to be pushed
- 报警灯(红灯)亮时，检查原因，并用完全手动模式调整机械手，同时报警信号复位。
When the alarm light is bright, check the reason and adjust the manipulator manually to reset the alarm.
- 如果机床不正常，桁架机械手将暂停，按下桁架机械手的电控柜“暂停继续”按钮也可实现机械手暂停，在需要继续工作时，再按下“暂停继续”将继续联动的动作。
When the machine does not work properly, press the stop /start button to conduct the manipulator to stop or continue to work..
- 每次工作完毕断电后，把“联动手动”扳到“中位”
When power is off after every completion of tasks, you need to push the handle from “manual linkage” to “center position” .
- 遇到紧急情况按“急停”与“系统上电”的时间间隔不小于30秒
Interval time between emergency stop and power on should not be less than 30 seconds.
- 上料下料是一个完整的循环，必须以上料等待位开始，完成上料后才能进行下料，下料完毕后回到上料等待位，并准备执行下一上、下料循环。如果在过程中断电或误操作，只能“恢复初位”在上料等待位重新开始。按“急停”慎重。
Feeding and blanking materials is a complete cycle and it must be conducted sequentially, starting with waiting for feeding, and then feeding, the last is blanking to return back to waiting for feeding. If any suspension and restart happen, it must conduct the movements in the sequence as mentioned above which is start from waiting for feeding. Therefore, press stop carefully. .
- 按钮只按一下，不要常按或连续按，否则将影响正常动作
Do not constantly press buttons, or the machine would work abnormally.
- 扳把开关在“联动”并且系统处于工作状态时，禁止按动除急停开关以外的任何按钮。
When the handle is at the linkage position and the machine is on working, do not press any button beside stop button.
- 系统上电前先检查气源是否打开
Open the air source before powering up the machine.
- 桁架机械手各轴均设有极限限位。手动运行时，Z轴必须置于上位时才可移动其他轴，当机械手移动至极限时，机械手将停止该方向的移动，只能沿反方向移动。
Every axis of truss manipulator is equipped with limitation position. Before manually operate the manipulator, the Z axis must on the up position to move other axes. When the manipulator is to the limitation position, it cannot move forward but only can move backward.
- 桁架式机械手的所有运动都要求机床发出允许进入信号，否则机械手将不能进行任何运动。
Truss manipulator requires the machine to send signals of permission of entry to conduct movements.



