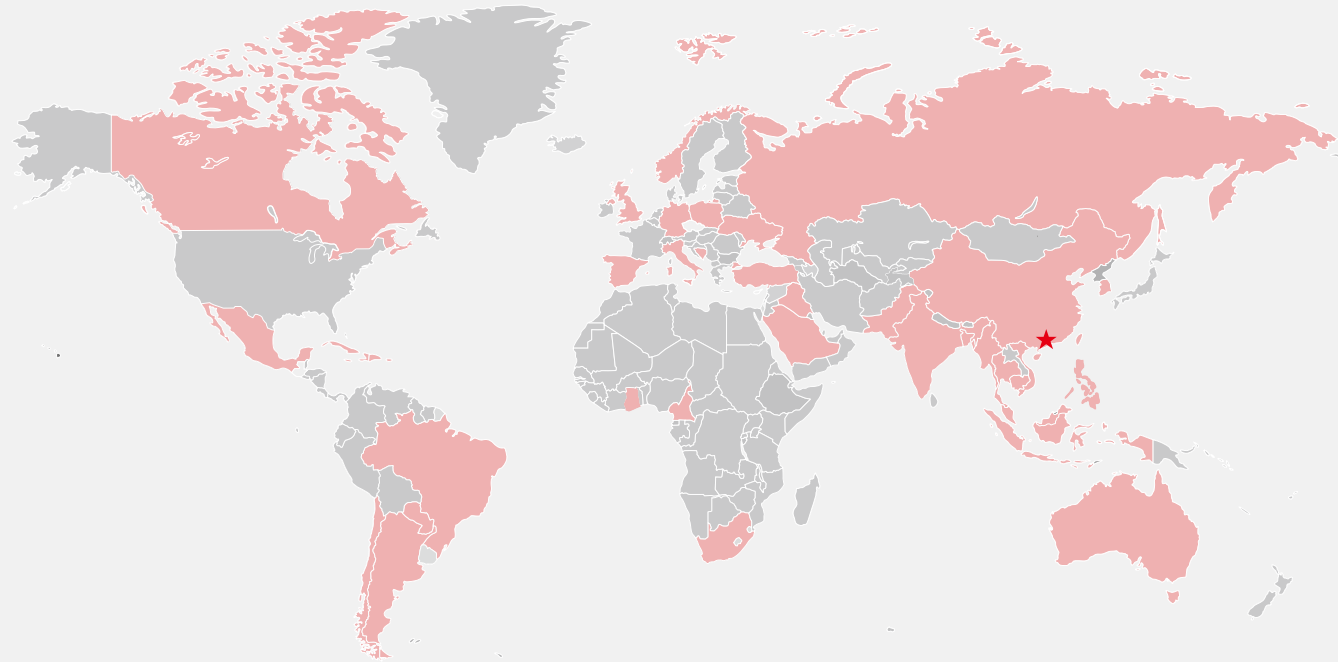



技术规格如有改变，恕不另行通知，2023年9月版
Technical specifications are subject to change without prior notice,
September 2023 edition.





www.runmazn.cn


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RUNMA
润马智能



CUSTOMIZE YOUR OVERALL AUTOMATION
SOLUTIONS

定制属于您的自动化整体解决方案

RUNMA 润马智能



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|---|---|

经营理念

不求多，求精；不草率，求稳；
不吹嘘，求实；不造假，求真。

Business philosophy

No more but perfection; no curtness but rigidity;
No brag but the fact; no fabrication but the truth.

服务宗旨

使客户满意是我们永远的承诺，
让客户盈利是我们的最终目标。

Service tenet

To satisfy our customers is our eternal commitment;
To let customers make profit is our ultimate goal;

服务理念

快速、高效、便捷为客户提供最大价值的服务；
用“一心”换“三心”；
我们一心一意服务；
换取客户的省心、放心、开心。

Service philosophy

rapidly efficiently and conveniently provide our customers with max valued services
One Heart for Three Hearts
We serve our customers with heart and soul
To make them feel free from worry, rest assured and satisfied.



COMPANY PROFILE

公司简介

东莞市润马智能科技有限公司坐落于粤港澳大湾区核心城市、智能智造中心--广东省东莞市，是一家致力于工业智能机器人和机械手的研发、生产、销售、服务于一体的综合型高科技企业。

自成立以来，润马智能扎根智能装备领域，专注工业机器人设备的开发及技术应用，不断拓展产品系列，目前已推出单轴、二轴、三轴、五轴注塑机械手；高速型，重载型，高速重载型机械手；旋转式、吸盘式注塑机械手；各类型自动化非标机械手，以及相关配套设备。我们的智能装备远销全球35个国家和地区，服务领域涵盖手机家电、精密电子、钟表、电光、汽车、食品药品等上百个行业，助力产业升级和行业发展，收到新老用户的一致好评。

润马智能注重技术人才储备和高素质队伍建设，提供成长、进阶、收获的广阔平台，筑巢引凤，打造了一支敢于创新，自主成长的全要素队伍。公司设立行业标准化的研发中心、生产基地、品控中心、服务中心等部门，共设三个厂区，总面积达5000多平方米。

公司现有专业管理人员和技术人员近100人，并与高校建立了深层次的校企产学研战略合作关系，形成互补优势和强大竞争力。

润马始终秉承“使客户满意是我们永远的承诺，让客户盈利是我们的最终目标”的服务宗旨，为客户提供专业信赖的产品与服务！矢志将润马打造成自动化行业优秀品牌之一。



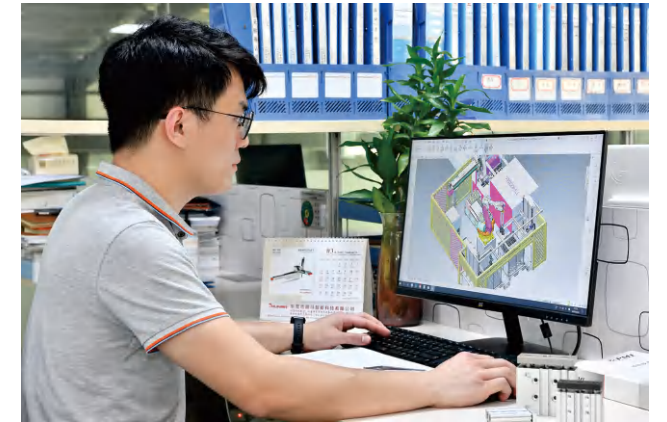
Runma Intelligent Technology Co., Ltd. is located in Dongguan City, Guangdong Province, the core city of the Greater Bay Area and the center of intelligent manufacturing. It is a comprehensive high-tech enterprise dedicated to the research, development, production, sales, and service of automation equipment.

Since its establishment, Runma company has taken root in the field of intelligent equipment, focused on the development and technical application of industrial robot equipment, and continuously expanded its product series. At present, it has launched single-axis cartesian robot, two-axis cartesian robot, three-axis cartesian robots, five-axis cartesian robot, high-speed type, heavy-load type, High-speed heavy-duty type robot, rotary injection robot, cupula type injection robot, various types of automated non-standard robots, and related equipment. Our equipment is exported to 35 countries and regions around the world, and our services cover hundreds of industries such as mobile industry, household goods industry, precision electronics industry, clocks, electro-optical industry, automotive industry, pharmaceutical industry, food packaging industry, medical appliances industry etc. Our company has been contributing to industry upgrades and sectoral development, and we have received praise from numerous clients.

Runma Intelligent Company focuses on talent reserves and the construction of highly qualified teams, providing a broad platform for growth, advancement, and success. The company has built a team that dares to innovate and grow independently, attracting and retaining top talents. It has established industry-standard research and development centers, production bases, quality control centers, and service centers, with a total area of over 5,000 square meters across three factory zones.

Currently, the company has nearly 100 professional managers and technical personnel. It has also formed deep strategic partnerships with universities, fostering complementary advantages and strong competitiveness through.

Runma always adheres to the principle of "customer satisfaction is our eternal commitment, and customer profitability is our ultimate goal." The company strives to provide customers with professional and reliable products and services. Its ultimate aim is to establish Runma as one of the outstanding brands in the automation industry.





PRODUCTION WORKSHOP

- 

稳定性好
Good stability
- 

效率高
Fast efficiency
- 

精度高
High precision

生产车间

公司引进国际先进生产设备,已构建了先进的自动化生产线等,确保了生产的产品稳定性好,生产效率快,精密度高,通过优化工艺提高制造一流的产品,为创一流企业,树行业品牌奠定了基础。

The company has introduced international advanced production equipment and has built advanced automated production lines, etc, to ensure that the products produced have good stability, fast production efficiency and high precision, and improve the manufacture of first-class products by optimizing the process, in order to create a first-class enterprise and establish an industry brand Foundation.

DONGGUAN RUNMA INTELLIGENT TECHNOLOGY CO.,LTD



MACHINING CENTER

加工中心

机械加工车间

3000⁺平方米

10⁺台

加工中心



- ✓ 各型机加工设备齐全
- ✓ 专业、资深的操作技工
- ✓ 严格控制核心部件精度

- ✓ Machine processing workshop of 3000 square meters, nearly 30 processing centers,
- ✓ A variety of machining equipment is fully equipped
- ✓ Professional and experienced operating technicians
- ✓ Strictly control the accuracy of core components



MACHINING CENTER

钣金中心



- ✔ 严谨完善的入职培训
- ✔ 标准化组装作业
- ✔ 关键工序精细化操作
- ✔ 优秀且经验丰富的管理团队

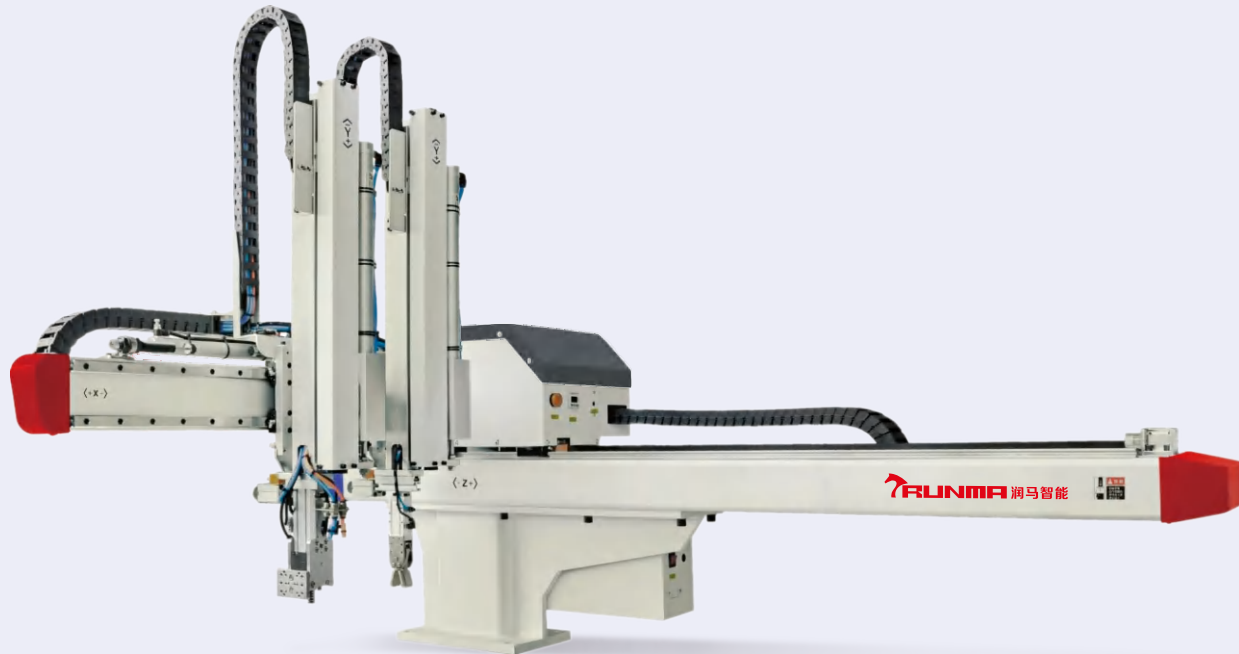


- ✔ Rigorous and perfect induction training
- ✔ Standardized assembly work
- ✔ Refined operation of key processes
- ✔ Excellent and experienced management team

RHD 系列 Series

单轴双截横走式机械手 One Axis Telescopic Arm Traverse Robot

200T | 320T
对象注塑机
Recommended I.M.M



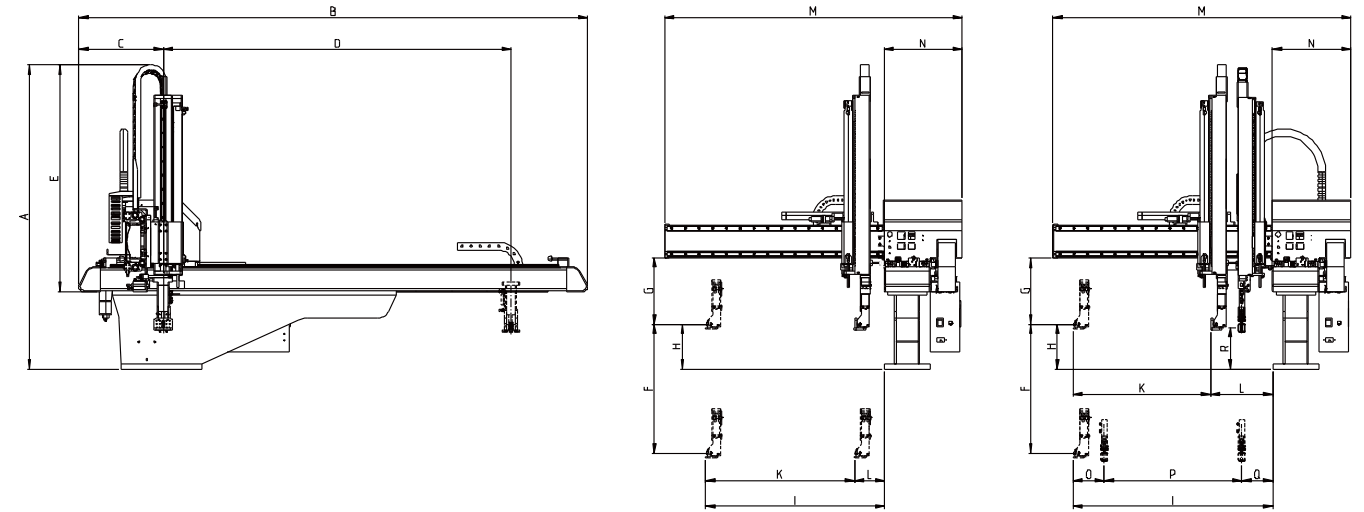
RHD900WS
RHD900WD

主要说明 Main explanation

此系列主要适用于150~400T卧式注塑机的成品取出。采用双截式手臂，增加副臂用于三片模的料头取出，横行AC伺服马达驱动，引拔上下气缸驱动，其行程调节和位置调整方式有手动调位，附有标准配备。

This series are mainly applied to 150~400T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. Auxiliary arm is added to take out the sprue from 3-plate molds. Traverse stroke is driven by AC servo motor, crosswise and vertical stroke driven by pneumatic pressure. Its stroke and position adjustment can be effected manually. Also the complete set includes standard vacuum and gripper EoAT.

尺寸图表 Size and chart



手臂型式 Arm type	伺服轴数 AC.servo	线性轨道 Linear Guideway	取出时间 Take-out time	控制器 Controller	荷重 Payload	适用锁模力 Clamping force
双截双臂 Telescopic double arms	1轴 One axis	线性滑轨 Linear guideway	2.5s	微电脑 Microcomputer	5Kg	200T~320T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
RHD900WS	1320	2230	370	1520	980	900	280	180	800	/	250	130	1300	340	/	/	/	/
RHD900WD	1320	2230	370	1520	980	900	280	180	800	/	250	280	1300	340	140	150	140	180

主要规格 Main Specifications

机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度 (度) Side pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time(sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/cm ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RHD900WS	200~320T	900	单臂:250 Single arm	1520	90°	5Kg	2.5s	11s	X, Y, Z AC伺服马达 AC Servo Motor	5~7	32	单相 Single phase AC220±10V 50/60HZ	0.6	270
RHD900WD	200~320T	900	主臂:250 Main arm 副臂:150 Auxiliary arm	1520			2.5s	11s						300

RQ

系列 Series

三轴/五轴双截横走式机械手 Three/five axes telescopic arm traverse robot

200T | 650T
对象注塑机
Recommended I.M.M



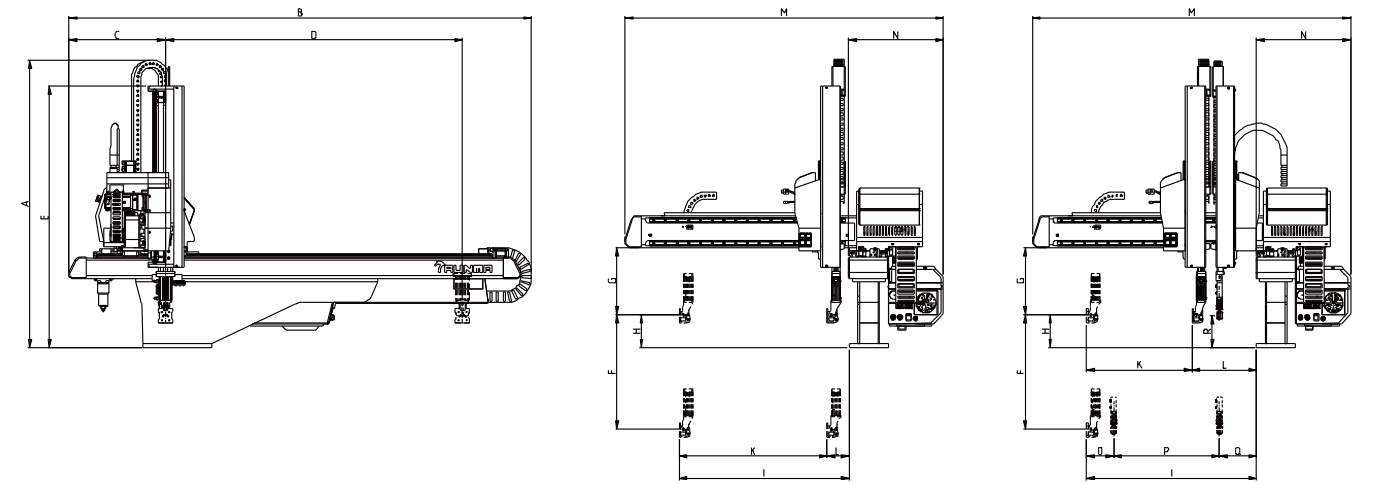
RQ900WS-S3/WD-S5 RQ1200WS-S3/WD-S5 RQ1400WS-S3/WD-S5

主要说明 Main explanation

此系列主要适用于150~550T卧式注塑机成品取出，均为双截式手臂，可增加伺服驱动以夹取料头，X、Y、Z三轴采用交流伺服马达驱动，搭配日本THK或PMI低噪音滑轨，宁静而平稳，附有标准配备。

Medium full servo traverse robot, this series are mainly applied to 150~550T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. AC servo motor can be added to take out sprue. Vertical, crosswise and traverse strokes are driven by AC servo motor. Low noise THK (JP) or PMI (Taiwan) linear guideway is used to guarantee quiet and stable movement. The complete set includes standard accessories.

尺寸图表 Size and chart



 手臂型式 Arm type 双截双臂 Telescopic double arms	 伺服轴数 AC servo 3轴/5轴 Three-axis / five-axis	 线性轨道 Linear guide 线性滑轨 Linear guideway	 取出时间 Take-out time 1.8~2.5s	 控制器 Controller 微电脑 Microcomputer	 荷重 Payload 5~10Kg	 适用锁模力 Clamping force 200T~650T
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技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
RQ900WS-S3	1260	2630	760	1520	220	900	285	180	960	/	850	110	1530	340	/	/	/	/
RQ900WD-S5	1260	2630	760	1520	220	900	285	180	960	/	620	340	1530	340	140	620	200	180
RQ1200WS-S3	1540	2500	480	1700	1390	1200	320	160	970	/	870	100	1740	480	/	/	/	/
RQ1200WD-S5	1540	2500	480	1700	1390	1200	320	160	970	/	630	340	1740	480	160	630	180	160
RQ1400WS-S3	1820	3130	580	2200	1350	1400	360	300	1180	25	1000	180	1890	540	/	/	/	/
RQ1400WD-S5	1820	3130	580	2200	1350	1400	360	300	1180	25	800	380	1890	540	290	800	90	300

主要规格 Main Specifications

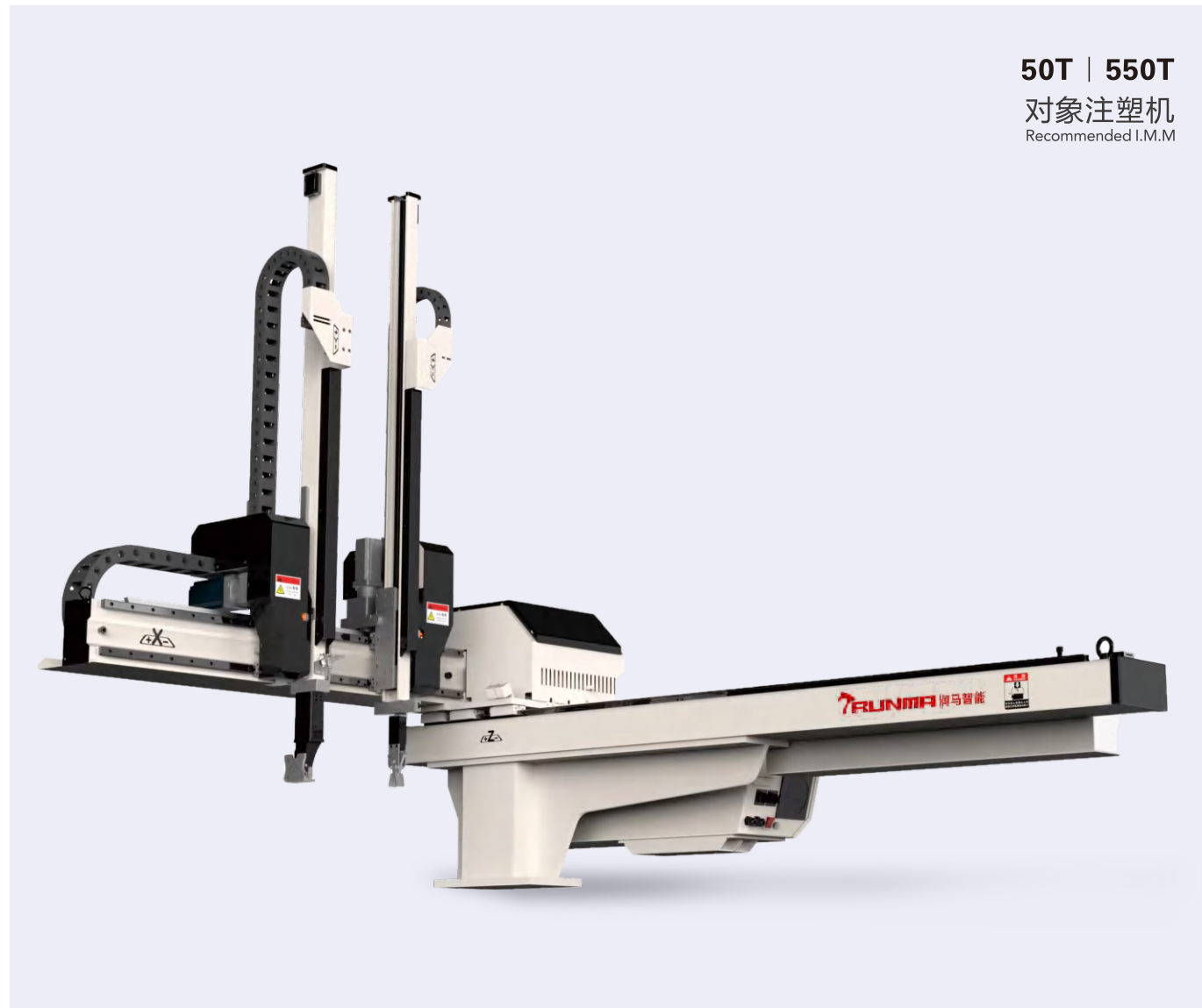
机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/cm ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RQ900WS-S3	200~320T	900	110-960	1520	90°	5Kg	1.8s	7.5-10s	X, Y, Z AC伺服马达 AC Servo Motor	5~7	8	单相 Single phase AC220±10V 50/60HZ	1.2	300
RQ900WD-S5	200~320T	900	主臂:340-960 Main arm 副臂:200-820 Auxiliary arm	1520		5Kg	1.8s	7.5-10s					2	350
RQ1200WS-S3	320~550T	1200	100-970	1700	90°	10Kg	2.0s	8.5-11s	X, Y, Z AC伺服马达 AC Servo Motor	5~7	8	单相 Single phase AC220±10V 50/60HZ	1.9	400
RQ1200WD-S5	320~550T	1200	主臂:340-970 Main arm 副臂:180-810 Auxiliary arm	1700		10Kg	2.0s	8.5-11s					3.05	450
RQ1400WS-S3	450~650T	1400	180-1180	2200	90°	10Kg	2.5s	10-15s	X, Y, Z AC伺服马达 AC Servo Motor	5~7	10	单相 Single phase AC220±10V 50/60HZ	2.4	800
RQ1400WD-S5	450~650T	1400	主臂:380-1180 Main arm 副臂:90-890 Auxiliary arm	2200		10Kg	2.5s	10-15s					3.5	850

RQ

系列 Series

三轴/五轴单截横走式机械手 Three/five axes non-telescopic arm traverse robot

50T | 550T
对象注塑机
Recommended I.M.M



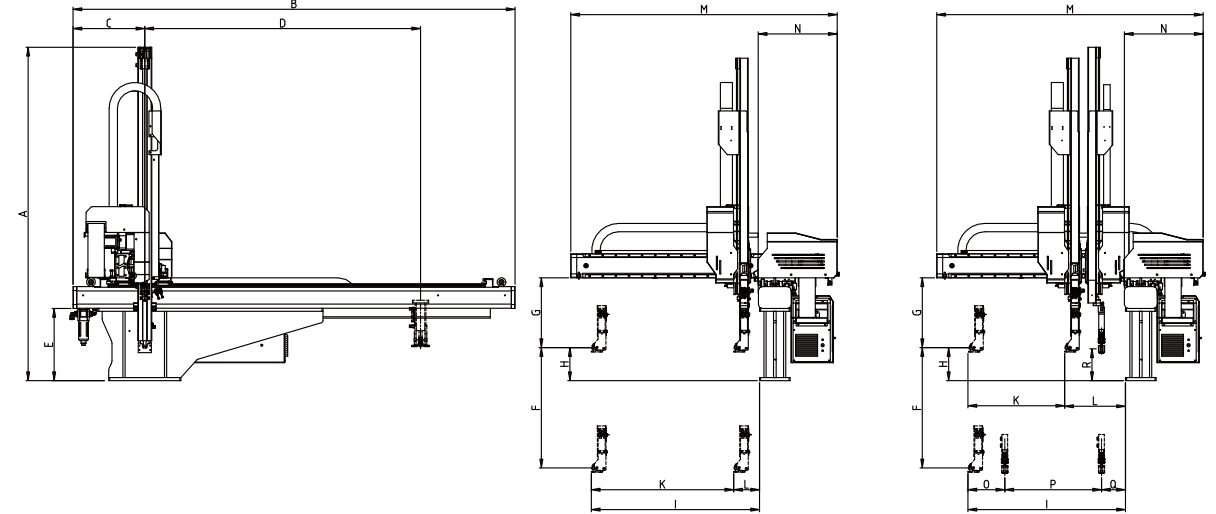
RQ800IS-S3/ID-S5
RQ1000IS-S3/ID-S5
RQ1300IS-S3/ID-S5

主要说明 Main explanation

此系列主要适用于150~320T卧式注塑机成品取出,均为单截式手臂,可增加伺服驱动以夹取料头,X、Y、Z三轴采用交流伺服马达驱动,搭配日本THK或PMI低噪音滑轨,宁静而平稳,附有标准配备。

Medium full servo traverse robot, this series are mainly applied to 150~320T horizontal injection molding machines to take out the finished product. Single stage arms are adopted. AC servo motor can be added to take out sprue. Vertical, crosswise and traverse strokes are driven by AC servo motor. Low noise THK (JP) or PMI (Taiwan) linear guideway is used to guarantee quiet and stable movement. The complete set includes standard accessories.

尺寸图表 Size and chart



手臂型式 Arm type	伺服轴数 AC.servo	线性轨道 Linear gride	取出时间 Take-out time	控制器 Controller	荷重 Payload	适用锁模力 Clamping force
单截双臂 Non-telescopic double arms	3轴/5轴 Three-axis / five-axis	线性滑轨 Linear guideway	1.8~2.5s	微电脑 Microcomputer	3~10Kg	50T~550T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
RQ800IS-S3	1524	2025	330	1400	330	800	320	150	720	/	600	120	1250	400	/	/	/	/
RQ800ID-S5	1524	2025	330	1400	330	800	320	150	720	/	440	280	1250	400	170	440	110	150
RQ1000IS-S3	1860	2250	300	1650	320	1000	200	300	1000	/	900	130	1645	480	/	/	/	/
RQ1000ID-S5	1860	2250	300	1650	320	1000	200	300	1000	/	740	260	1645	480	150	740	110	310
RQ1300IS-S3	2270	2700	340	2000	400	1300	400	200	1125	/	960	165	1820	500	/	/	/	/
RQ1300ID-S5	2270	2700	340	2000	400	1300	400	200	1125	/	860	265	1820	500	180	860	85	220

主要规格 Main Specifications

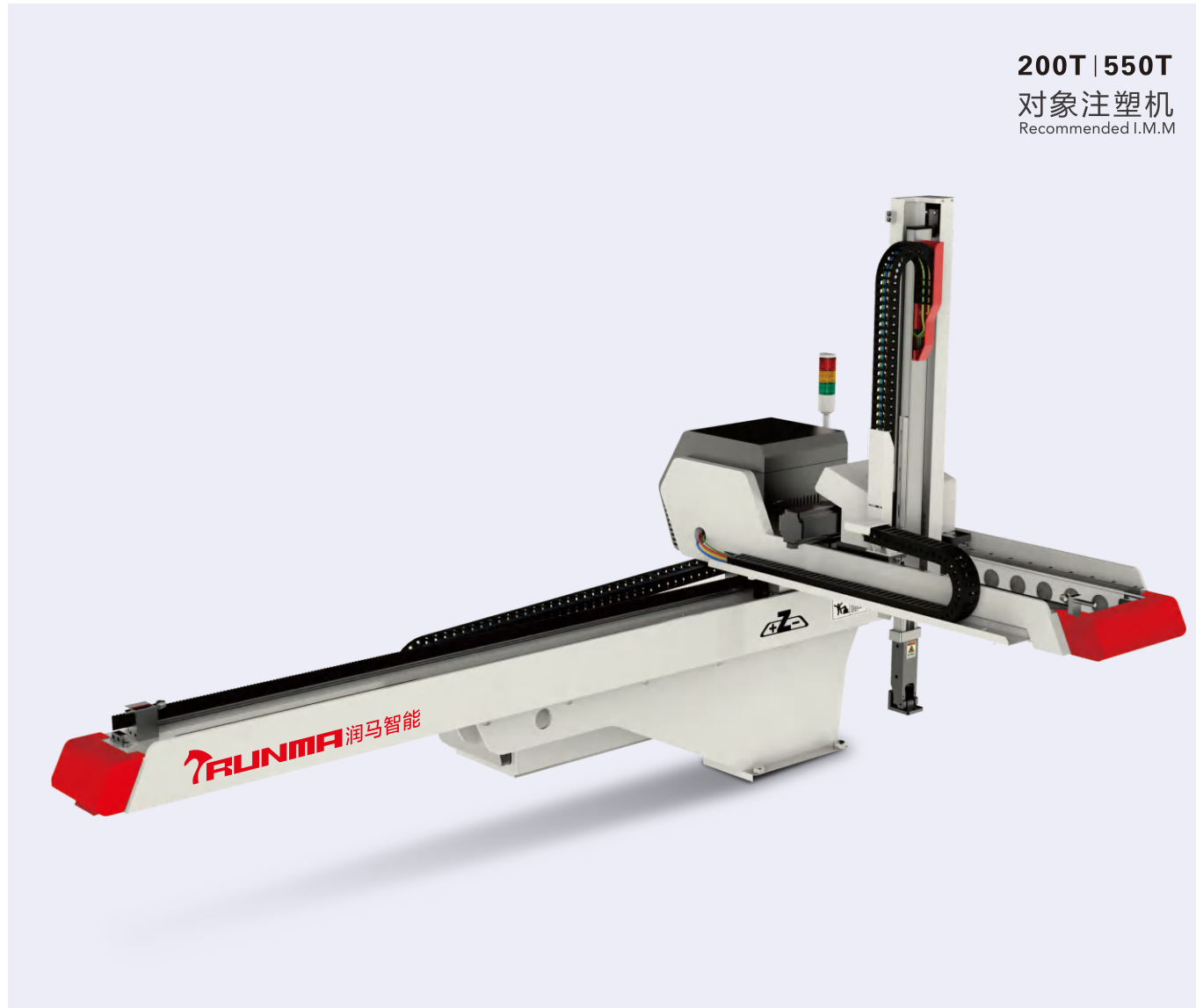
机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/m ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引接行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RQ800IS-S3	50~150T	800	120-720	1400	90°	3Kg	1.8s	6-8s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	8	单相 Single phase AC220±10V 50/60HZ	1.2	180
RQ800ID-S5	50~150T	800	主臂:280-720 Main arm 副臂:110-550 Auxiliary arm	1400		3Kg	1.8s	6-8s					2	210
RQ1000IS-S3	200~320T	1000	100-1000	1650	90°	5Kg	2.0s	8.5-11s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	8	单相 Single phase AC220±10V 50/60HZ	1.55	300
RQ1000ID-S5	200~320T	1000	主臂:260-1000 Main arm 副臂:110-850 Auxiliary arm	1650		5Kg	2.0s	8.5-11s					2.35	340
RQ1300IS-S3	320~550T	1300	165-1125	2000	90°	10Kg	2.5s	8.5-11s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	8	单相 Single phase AC220±10V 50/60HZ	1.9	350
RQ1300ID-S5	320~550T	1300	主臂:265-1125 Main arm 副臂:90-950 Auxiliary arm	2000		10Kg	2.5s	8.5-11s					3.05	395

RG

系列 Series

高速框架式机械手
High speed frame robot

200T | 550T
对象注塑机
Recommended I.M.M



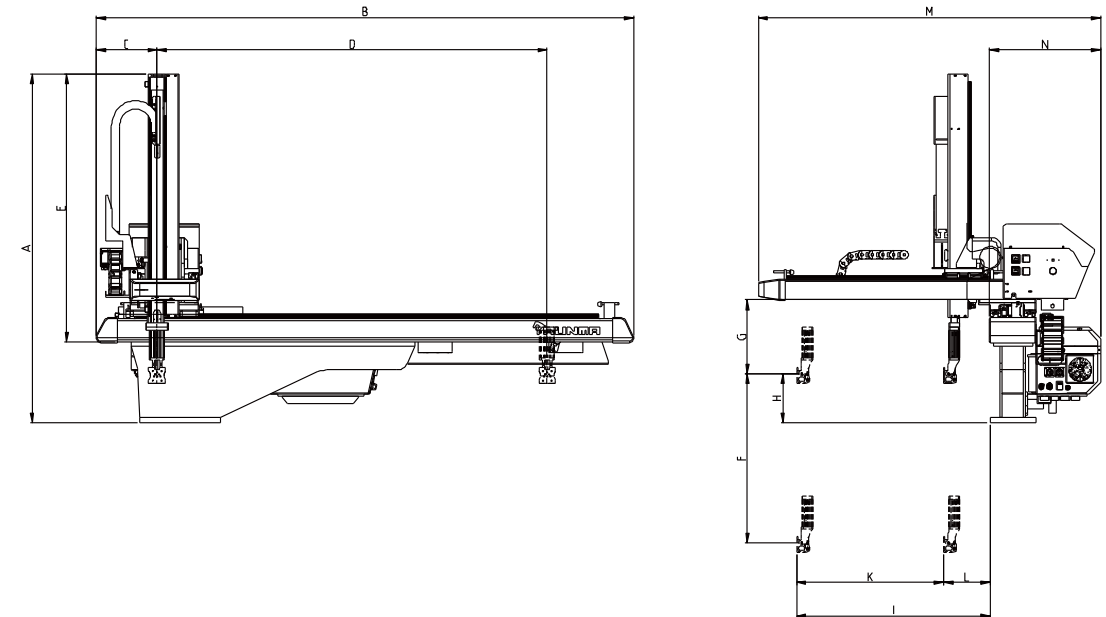
RG900WS-S3
RG1200WS-S3

主要说明 Main explanation

此系列主要适用于200~550T卧式注塑机的成品取出，均为双截式手臂，可增加伺服驱动以夹取料头，X、Y、Z三轴采用交流伺服马达驱动，搭配日本THK低噪音滑轨，宁静而平稳，附有标准配备。

This series are mainly applied to 200~550T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. AC servo motor can be added to take out the sprue. Vertical, crosswise, and traverse strokes are driven by AC servo motor. This series are equipped with THK low noise linear guideway that results in quiet and stable movement. Standard EoAT are included.

尺寸图表 Size and chart



 手臂型式 Arm type	 伺服轴数 AC.servo	 线性轨道 Linear gride	 取出时间 Take-out time	 控制器 Controller	 荷重 Payload	 适用锁模力 Clamping force
双截单臂 Telescopic single arm	3轴 Three-axis	线性滑轨 Linear guideway	0.8~0.9s	微电脑 Microcomputer	5Kg	200T~550T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RG900WS-S3	1330	2350	270	1700	990	900	300	200	850	0	650	200	1500	480
RG1200WS-S3	1450	2350	270	1700	1110	1200	300	200	850	0	650	200	1500	480

主要规格 Main Specifications

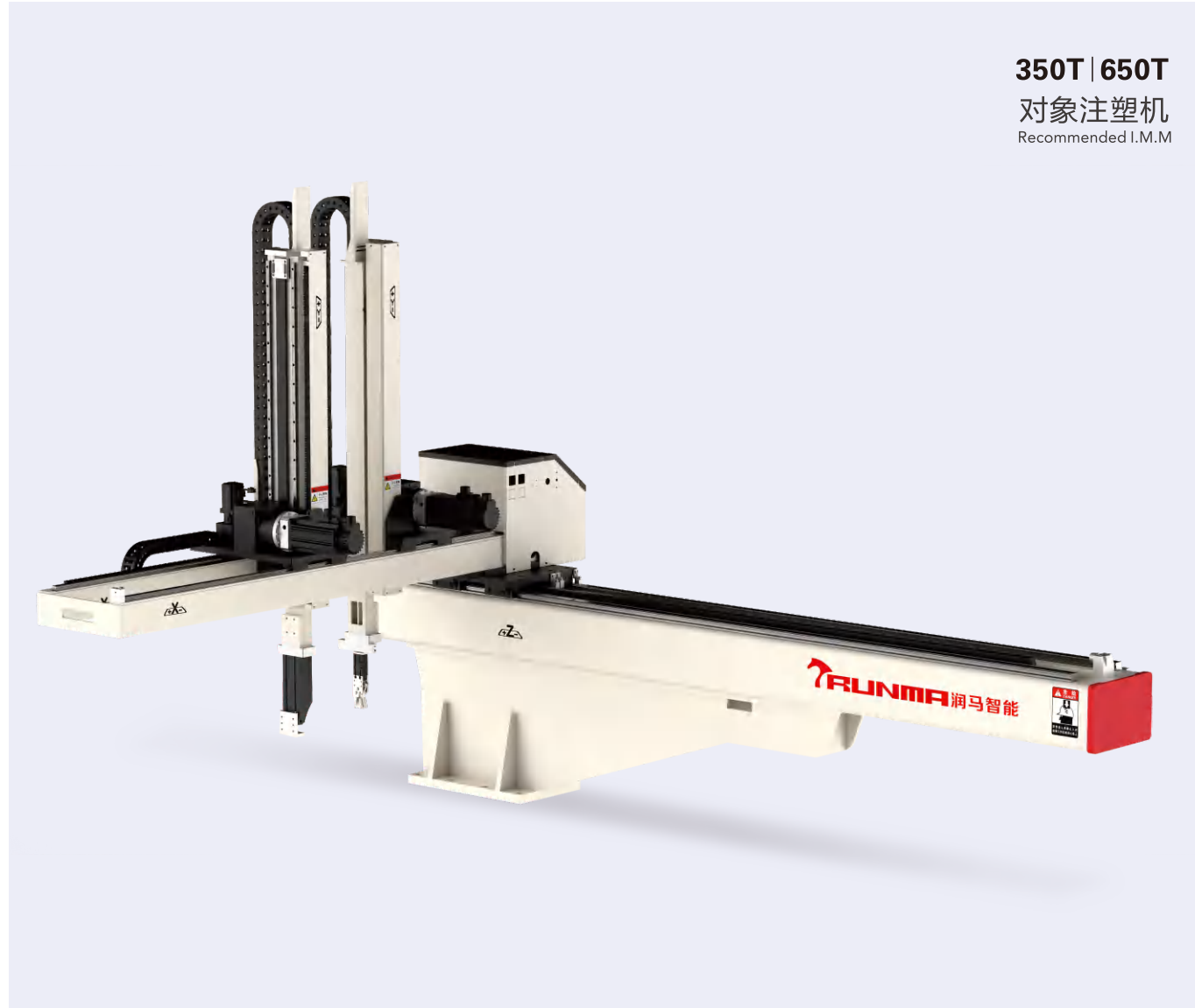
机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time(sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/cm ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RG900WS-S3	200~320T	900	200-850	1700	90°	5Kg	0.8s	3.8s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	8	单相 Single phase AC220±10V 50/60HZ	1.9	240
RG1200WS-S3	320~550T	1200	200-850	1700			0.9s	4.0s						

RG

系列 Series

高速框架式机械手 High speed frame robot

350T | 650T
对象注塑机
Recommended I.M.M



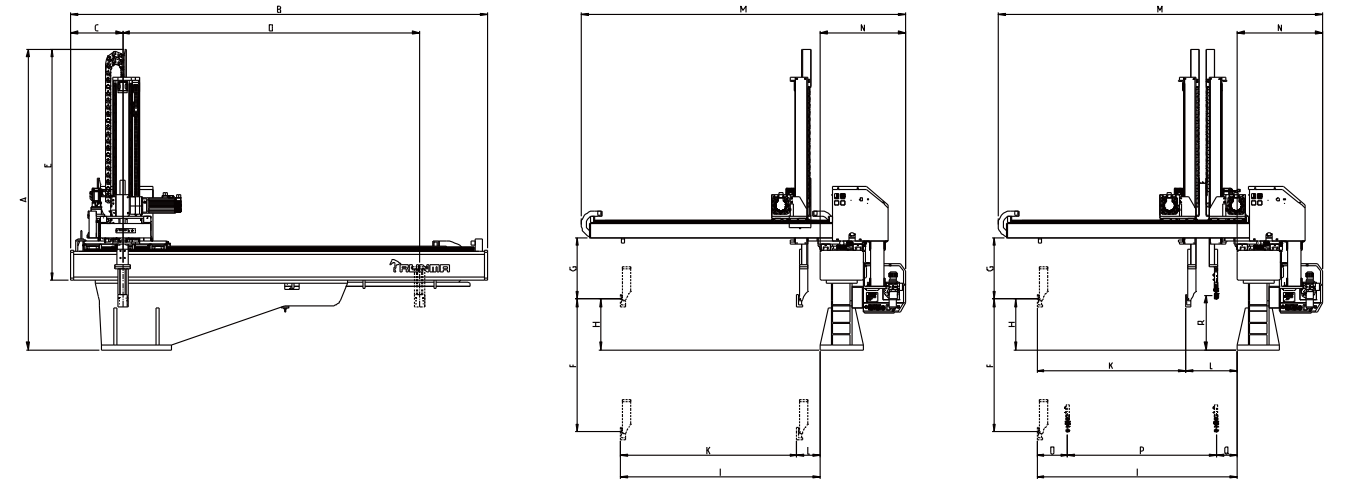
RG1300WS-S3/WD-S5 RG1500WS-S3/WD-S5

主要说明 Main explanation

此系列主要适用于200~550T卧式注塑机的成品取出，均为双截式手臂，可增加伺服驱动以夹取料头，X、Y、Z三轴采用交流伺服马达驱动，搭配日本THK低噪音滑轨，宁静而平稳，附有标准配备。

This series are mainly applied to 200~550T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. AC servo motor can be added to take out the sprue. Vertical, crosswise, and traverse strokes are driven by AC servo motor. This series are equipped with THK low noise linear guideway that results in quiet and stable movement. Standard EoAT are included.

尺寸图表 Size and chart



手臂型式 Arm type	伺服轴数 AC.servo	线性轨道 Linear grille	取出时间 Take-out time	控制器 Controller	荷重 Payload	适用锁模力 Clamping force
双截双臂 Telescopic double arms	3轴/5轴 Three-axis/five-axis	线性滑轨 Linear guideway	1.8s	微电脑 Microcomputer	15Kg	350T~650T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
RG1300WS-S3	1980	2950	380	2100	1505	1300	415	340	1380	/	1250	130	2300	600	/	/	/	/
RG1300WD-S5	1980	2950	380	2100	1505	1300	415	340	1380	/	1050	330	2300	600	180	1050	150	300
RG1500WS-S3	2040	2950	380	2100	1565	1500	415	340	1380	/	1250	130	2300	600	/	/	/	/
RG1500WD-S5	2040	2950	380	2100	1565	1500	415	340	1380	/	1050	330	2300	600	180	1050	150	300

主要规格 Main Specifications

机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/m ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RG1300WS-S3	350~550T	1300	1250	2100	90°	15Kg	1.8s	10-14s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	10	单相 Single phase AC220±10V 50/60HZ	3.4	880
RG1300WD-S5	350~550T	1300	主臂:380-1180 Main arm 副臂:90-890 Auxiliary arm	2100		15Kg	1.8s	10-14s					5.3	930
RG1500WS-S3	450~650T	1500	130-1380	2100	90°	15Kg	2.0s	10-15s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	10	单相 Single phase AC220±10V 50/60HZ	3.4	900
RG1500WD-S5	450~650T	1500	主臂:330-1380 Main arm 副臂:150-1200 Auxiliary arm	2100		15Kg	2.0s	10-15s					5.3	950

RN

系列 Series

小型牛头横走式机械手
Small heavy load traverse robot

200T | 380T
对象注塑机
Recommended I.M.M

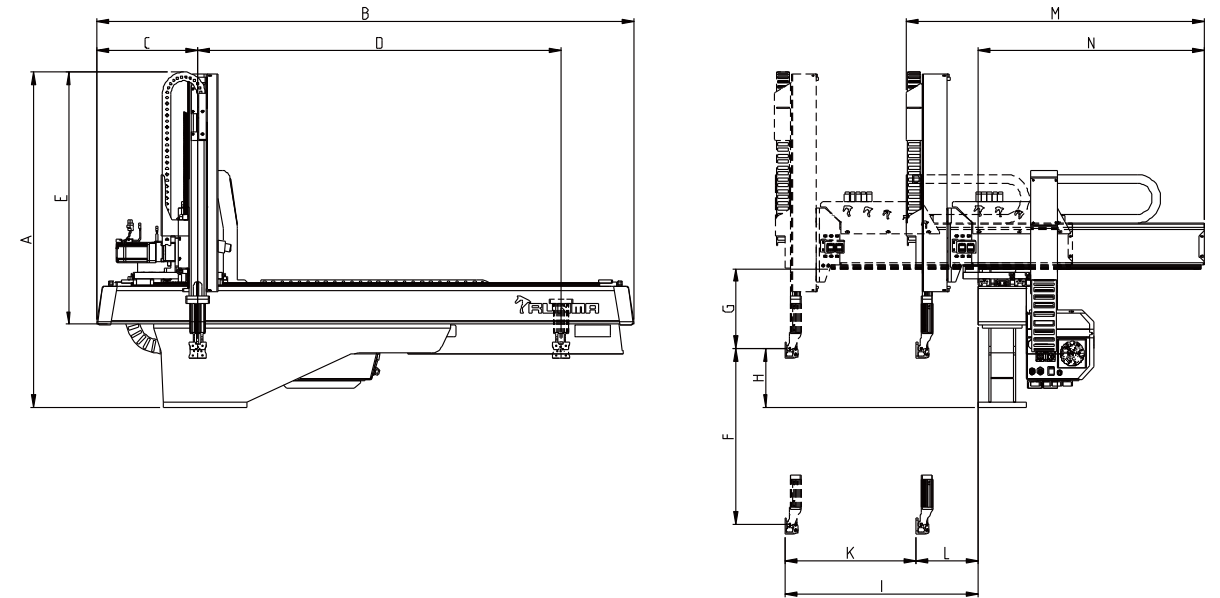


RN900WS-S3 RN1100WS-S3

主要说明 Main explanation

- 此系列主要适用于650~3000T卧式注射成型机的成品取出，均为双截式手臂，X、Y、Z、三轴采用交流伺服马达驱动，搭配日本THK或PMI低噪音滑轨，宁静而平稳，附有标准配备。
- 还可根据客户实际使用情况，侧姿组增加伺服A轴和B轴或是其中的一轴，可灵活的多自由度运动，实现复杂的取出方法及最优化的取出路径。
- Large full servo traverse robot, this series are mainly applied to 650~3000T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. Vertical, crosswise and traverse strokes are driven by AC servo motor. Low noise THK (JP) or PMI (Taiwan) linear guideway is used to guarantee quiet and stable movement. The complete set includes standard accessories.
- In addition, according to the actual use of customers, servo axis A and axis B or one of them can be added to the side-pose group, which can move freely from multiple angles flexibly to realize complex taking-out method and optimized taking-out path.

尺寸图表 Size and chart



手臂型式 Arm type	伺服轴数 AC servo	线性轨道 Linear guideway	取出时间 Take-out time	控制器 Controller	荷重 Payload	适用锁模力 Clamping force
牛头式 Ox-head	3轴 Three-axis	线性滑轨 Linear guideway	0.8~0.9s	微电脑 Microcomputer	5Kg	200T~380T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RN900WS-S3	1340	2250	425	1520	1010	900	320	220	820	/	550	270	1250	950
RN1100WS-S3	1400	2430	425	1700	1070	1100	320	220	820	/	550	270	1250	950

主要规格 Main Specifications

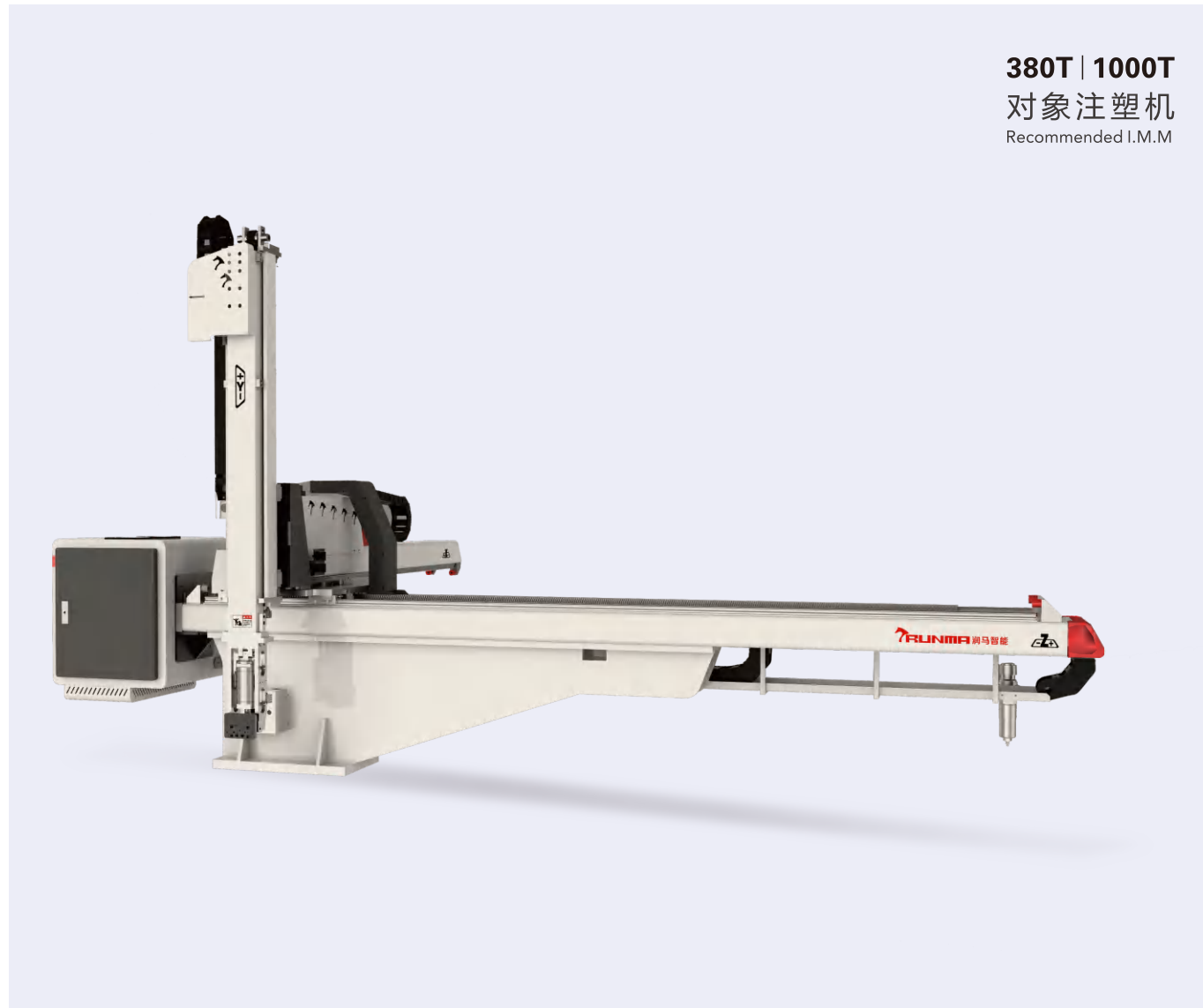
机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/cm ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RN900WS-S3	200~320T	900	270-820	1520	90°	5Kg	0.8s	4.0s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	12	单相 Single phase AC220±10V 50/60HZ	2	380
RN1100WS-S3	300~380T	1100	270-820	1700			0.9s	4.5s						430

RN

系列 Series

中型牛头横走式机械手
Medium-sized heavy load traverse robot

380T | 1000T
对象注塑机
Recommended I.M.M

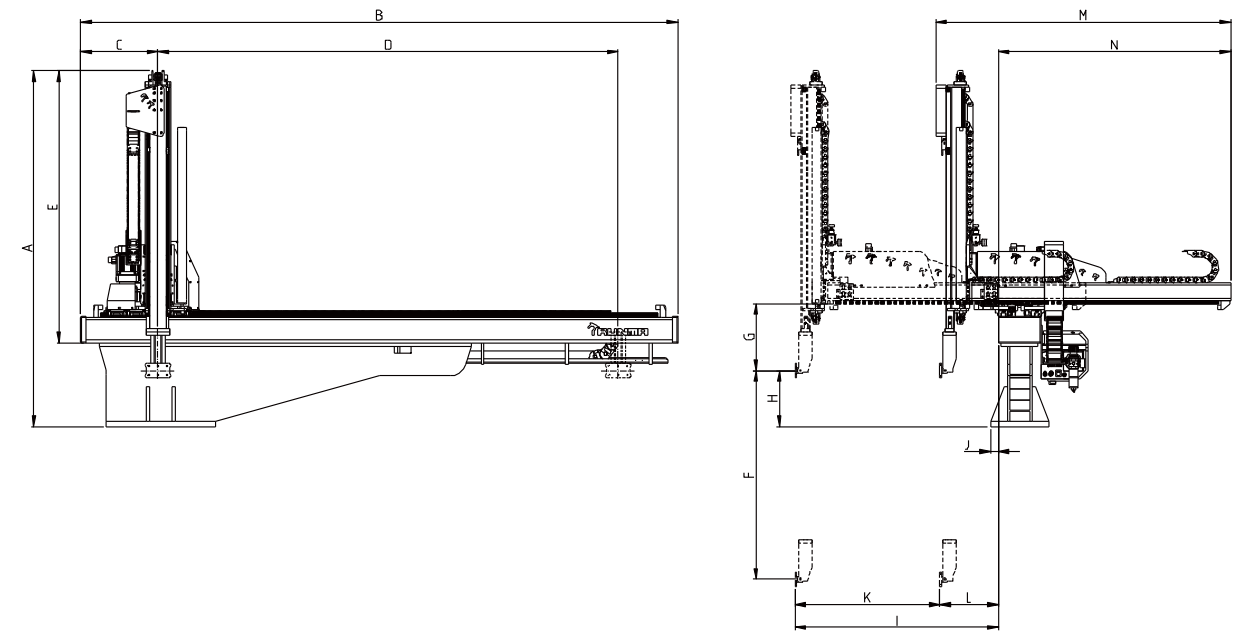


RN1300WS-S3
RN1500WS-S3
RN1700WS-S3

主要说明 Main explanation

- 此系列主要适用于650~3000T卧式注射成型机的成品取出，均为双截式手臂，X、Y、Z、三轴采用交流伺服马达驱动，搭配日本THK或PMI低噪音滑轨，宁静而平稳，附有标准配备。
- 还可根据客户实际使用情况，侧姿组增加伺服A轴和B轴或是其中的一轴，可灵活的多自由度运动，实现复杂的取出方法及最优化的取出路径。
- Large full servo traverse robot, this series are mainly applied to 650~3000T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. Vertical, crosswise and traverse strokes are driven by AC servo motor. Low noise THK (JP) or PMI (Taiwan) linear guideway is used to guarantee quiet and stable movement. The complete set includes standard accessories.
- In addition, according to the actual use of customers, servo axis A and axis B or one of them can be added to the side-pose group, which can move freely from multiple angles flexibly to realize complex taking-out method and optimized taking-out path.

尺寸图表 Size and chart



手臂型式 Arm type	伺服轴数 AC.servo	线性轨道 Linear guide	取出时间 Take-out time	控制器 Controller	荷重 Payload	适用锁模力 Clamping force
牛头式 Ox-head	3轴 Three-axis	线性滑轨 Linear guideway	1.8~2.5s	微电脑 Microcomputer	20Kg	380T~1000T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RN1300WS-S3	1850	3280	430	2420	1370	1300	395	300	1660 or [1880]	25	1300 or [1520]	360	2180 or [2420]	1780 or [2040]
RN1500WS-S3	1930	3280	430	2420	1460	1500	395	300	1880	25	1520	360	2420	2040
RN1700WS-S3	2050	3580	430	2740	1570	1700	385	320	1800	50	1520	360	2420	2040

主要规格 Main Specifications

机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/m ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RN1300WS-S3	380~650T	1300	360-1660 or [360-1880]	2420	90°	20Kg	1.8s	9s	X, Y, Z AC伺服马达 AC Servo Motor	5~7	20	单相 Single phase AC220±10V 50/60HZ	2.75	750
RN1500WS-S3	450~800T	1500	360-1880	2420			2.0s	10s						800
RN1700WS-S3	800~1000T	1700	360-1880	2740			2.5s	12s						950

RN

系列 Series

大型牛头横走式机械手
Large heavy load traverse robot

800T | 4000T
对象注塑机
Recommended I.M.M

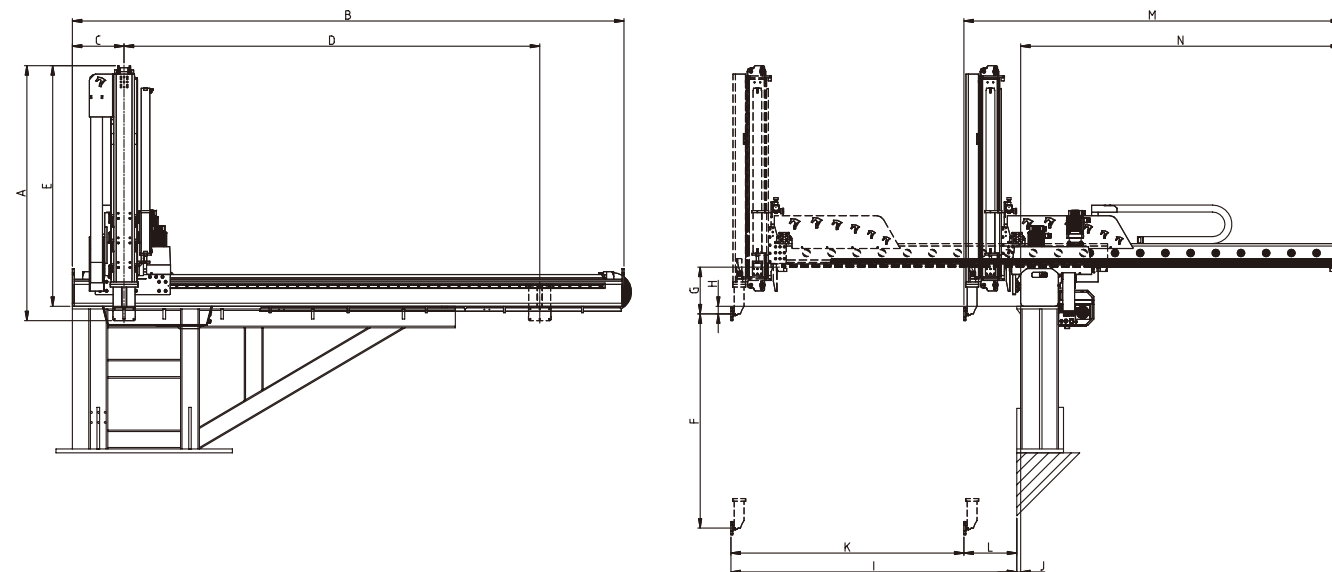


RN2000WS-S3
RN2500WS-S3
RN3000WS-S3
RN3500WS-S3

主要说明 Main explanation

- 此系列主要适用于650~3000T卧式注射成型机的成品取出，均为双截式手臂，X、Y、Z、三轴采用交流伺服马达动，搭配日本THK或PMI低噪音滑轨，宁静而平稳，附有标准配备。
- 还可根据客户实际使用情况，侧姿组增加伺服A轴和B轴或是其中的一轴，可灵活的多自由度运动，实现复杂的取出方法及最优化的取出路径。
- Large full servo traverse robot, this series are mainly applied to 650~3000T horizontal injection molding machines to take out the finished product. Telescopic arms are adopted. Vertical, crosswise and traverse strokes are driven by AC servo motor. Low noise THK (JP) or PMI (Taiwan) linear guideway is used to guarantee quiet and stable movement. The complete set includes standard accessories.
- In addition, according to the actual use of customers, servo axis A and axis B or one of them can be added to the side-pose group, which can move freely from multiple angles flexibly to realize complex taking-out method and optimized taking-out path.

尺寸图表 Size and chart



 手臂型式 Arm type	 伺服轴数 AC.servo	 线性轨道 Linear grille	 取出时间 Take-out time	 控制器 Controller	 荷重 Payload	 适用锁模力 Clamping force
牛头式 Ox-head	3轴 Three-axis	线性滑轨 Linear guideway	3.0~4.0s	微电脑 Microcomputer	40~50Kg	800T~4000T

技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RN2000WS-S3	2050	4420 or [4820]	430	3300 or [3700]	1920	2000	375	60	2250 or [2600]	50	1800 or [2150]	450	2990 or [3340]	2540 or [2890]
RN2500WS-S3	2300	5300 or [5930]	430	4200 or [4900]	2450	3000	515	195	2870 or [3470]	100	2400 or [3000]	470	3770 or [4370]	3300 or [3900]
RN3000WS-S3	2720													
RN3500WS-S3	2970													

主要规格 Main Specifications

机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度(度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/cm ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 NW KG	
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time							
RN2000WS-S3	800~1200T	2000	450~2250 or [450-2600]	3300 or [3700]	90°	40Kg	3.0s	18s	X、Y、Z AC伺服马达 AC Servo Motor	5~7	30	单相 Single phase AC220±10V 50/60HZ	4.5	1600	
RN2500WS-S3	1200~2000T	2500				40Kg	3.5s	20s						4.5	2000
RN3000WS-S3	2000~3000T	3000	470~2870 or [470-3470]	4200 or [4900]		50Kg	3.5s	22s						5.5	2400
RN3500WS-S3	3000~4000T	3500				50Kg	4.0s	25s						5.5	2800

RZ(S3/S5)

系列 Series

三轴/五轴纵走式机械手
Three/five axes longitudinal robot



两连卧式机械手/多连立式机械手
Two-jointed horizontal robot/multi-jointed vertical robot



产品案例 Product Case



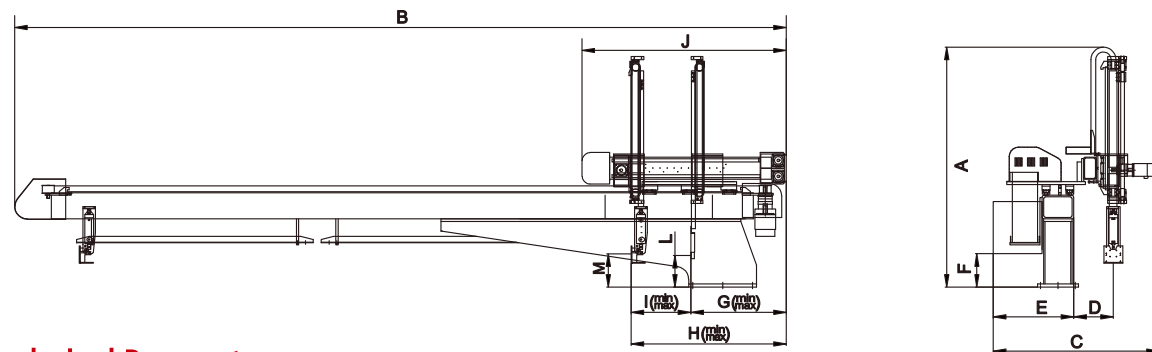
RZ700I(S3/S5)

RZ900W(S3/S5)

RZ1300W(S3/S5)

主要说明 Main explanation

- 可节省段生机安装空间30-40%。
- 可实现客户的在各种纵走机方案，优化现代车间现场管理。
- This robot can help save installation space of injection molding machine by 30-40%
- It can help realize customers'various longitudinal robot plan and optimize site management of modern workshop.



技术参数 Technical Parameters

机型 Model	A	B	C	D	E	F	G(MIN)	G(MAN)	H(MIN)	H(MAN)	I(MIN)	I(MAN)	J	K	L	M
RZ700I(S3/S5)	1680						380	880	505	980	100	600	1295			
RZ900W(S3/S5)	1540	定制	定制	定制	410	205	380	880	505	980	100	600	1295	定制	200	200
RZ1300W(S3/S5)	1740	Customized	Customized	Customized			420	420	560	1310	130	885	1600	Customized		

I: 单截 W: 双截 S3: 三轴伺服驱动 S5: 五轴伺服驱动
I: Non-telescopic arm W:telescopic arm S3:Three-axis servo driven S5:Five-axis servo driven



RF

系列 Series

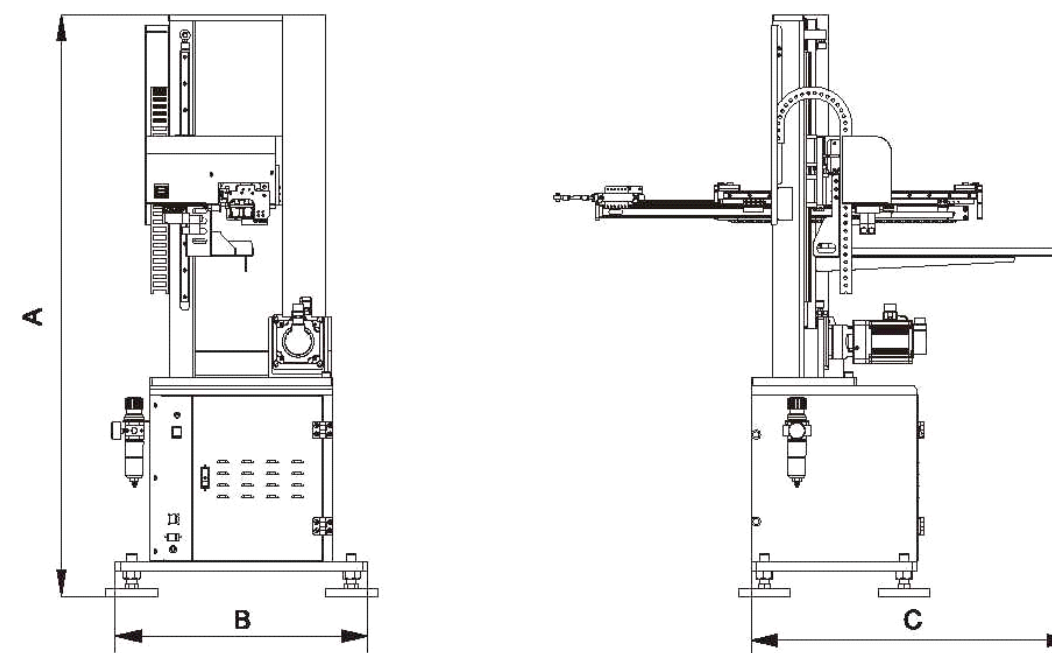
注吹一体机专用机械手
Injection blow molding machine applicable robot

250T | 350T
对象注塑机
Recommended I.M.M
RF11ID(S2)



客户现场 Customer site

尺寸图表 Size and chart



产品案例 Product Case



技术参数 Technical Parameters

机型 Model	A	B	C
RF11ID-S2	1746	760	969

主要规格 Main Specifications

机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke (mm)			侧姿角度 (度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EcoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/m ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 KG NW
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RF11ID-S2	250~350T	500	/	900	30°	6Kg	1.5s	12s	X、Z- AC伺服马达 X、Z- AC Servo Motor	5~7	8	单相 Single phase AC220 ±10V 50 /60HZ	/	/

RF

系列 Series

高速侧取机械手
High speed side entry robot

200T | 400T

对象注塑机

Recommended I.M.M

RF1400WD (S3/S6)

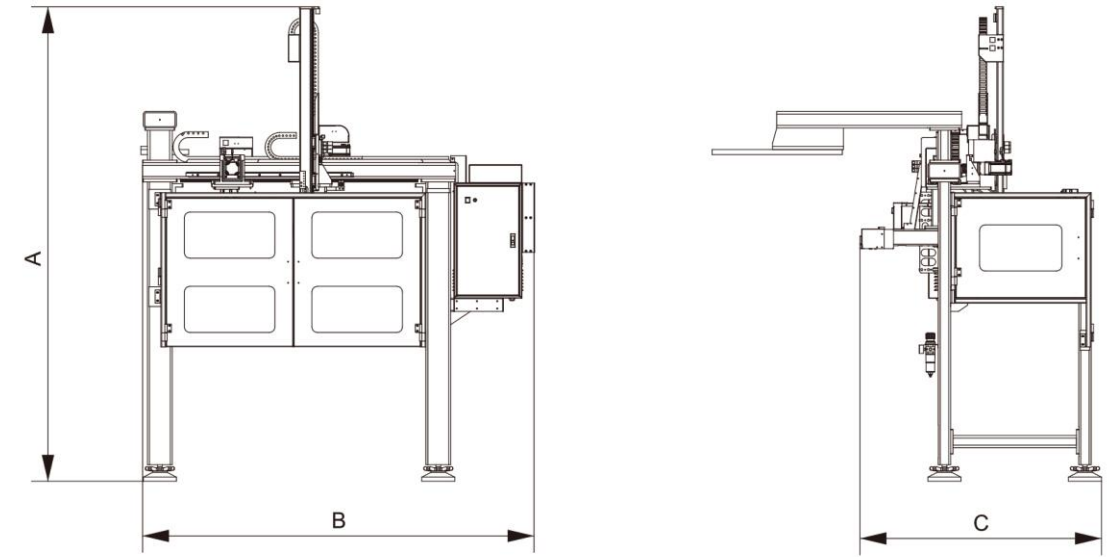
RF1500WD (S3/S6)

主要说明 Main explanation

- 模内取物0.65-0.75秒；
- 全循环周期3秒；
- 能适应客户超矮厂房；
- 针对超高速产品的取出，如一次性餐具，医疗产品的取出。
- 0.65s-0.75s to take the product from the mold
- Full cycle time 3s
- It can adapt to customers' dwarf workshop or special space
- For ultra high speed taking-out of products, such as disposable tableware or medical products



尺寸图表 Size and chart



产品案例 Product Case



技术参数 Technical Parameters

机型Model	A	B	C
RF1400WD-S3	2780	2350	1410
RF1500WD-S3	2930	3010	1710

主要规格 Main Specifications

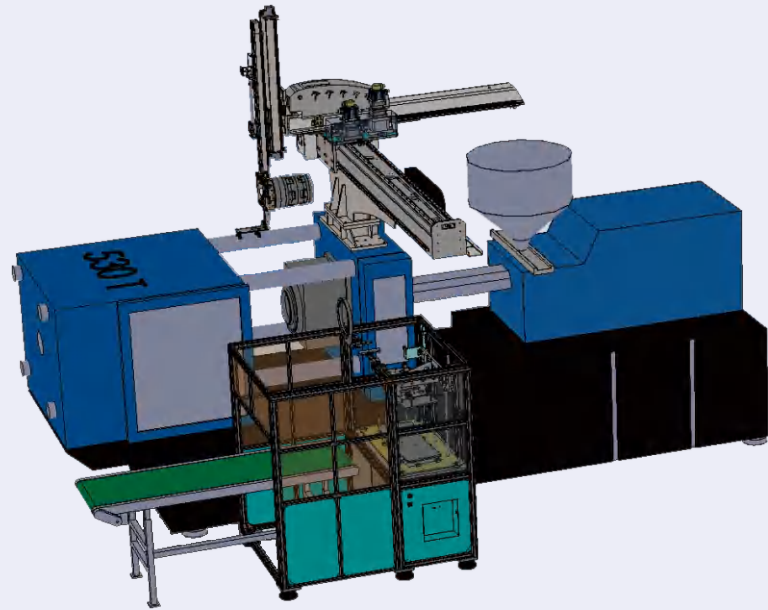
机型 Model	适用注塑机 Applied to injection molding machine	行程(mm) Stroke(mm)			侧姿角度 (度) Side-pose rotation angle	最大负荷 (含治具) Max Payload (including EaAT)	时间 Time(sec)		驱动方式 Drive mode	工作气压 Working Pressure kgf/cm ²	空气消耗量 Air Consumption nl/cycle	电源 Power	电源消耗量 Power consumption kva	净重 KG NW
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	横行行程 Traverse stroke			取出 Take-out	空循环 Dry cycle time						
RF1400WD-S3/S6	200~300T	730	500	1400	90°	3Kg	0.75s	4.5s	X、Z- AC伺服马达 AC Servo Motor	5-7	6	单相 Single phase AC220 ±10V 50 /60HZ	/	/
RF1500WD-S3/S6	300~400T	730	500	1500	90°	3Kg	0.75s	4.5s					/	/

顶入式模内贴标机

Top entry In Mold Labeling system

主要说明 Main explanation

- 整个设备采用机械手牛头式结构,能满足大产品贴标和取出的负载要求,且位置精准,高效。
- 主要参数说明:机械手XYZ三个运动方向均为AC伺服马达驱动,且三个运动方向的行程可根据客户要求或是实际使用现场来选配。取标的最大负荷为20Kg。
- The whole equipment adopts manipulator frame structure. It can meet the payload requirement of large labeling and taking-out and it is efficient. And positioning is precise.
- Main parameters: XYZ movements are driven by AC servo motor, and stroke of each can be customized according to customer requirement or site reference. The maximum payload is 20KGs.



侧取式模内贴标机

Side entry In Mold Labeling system



主要说明 Main explanation

充分发挥伺服电机高速,精准的性能,整体结构稳定,超高的性价比,满足各种产品的需求。

The system gives full play to the high-speed, accurate performance of the servo motor. The overall structure is stable. And it is highly cost-effective thus can meet the needs of various products.

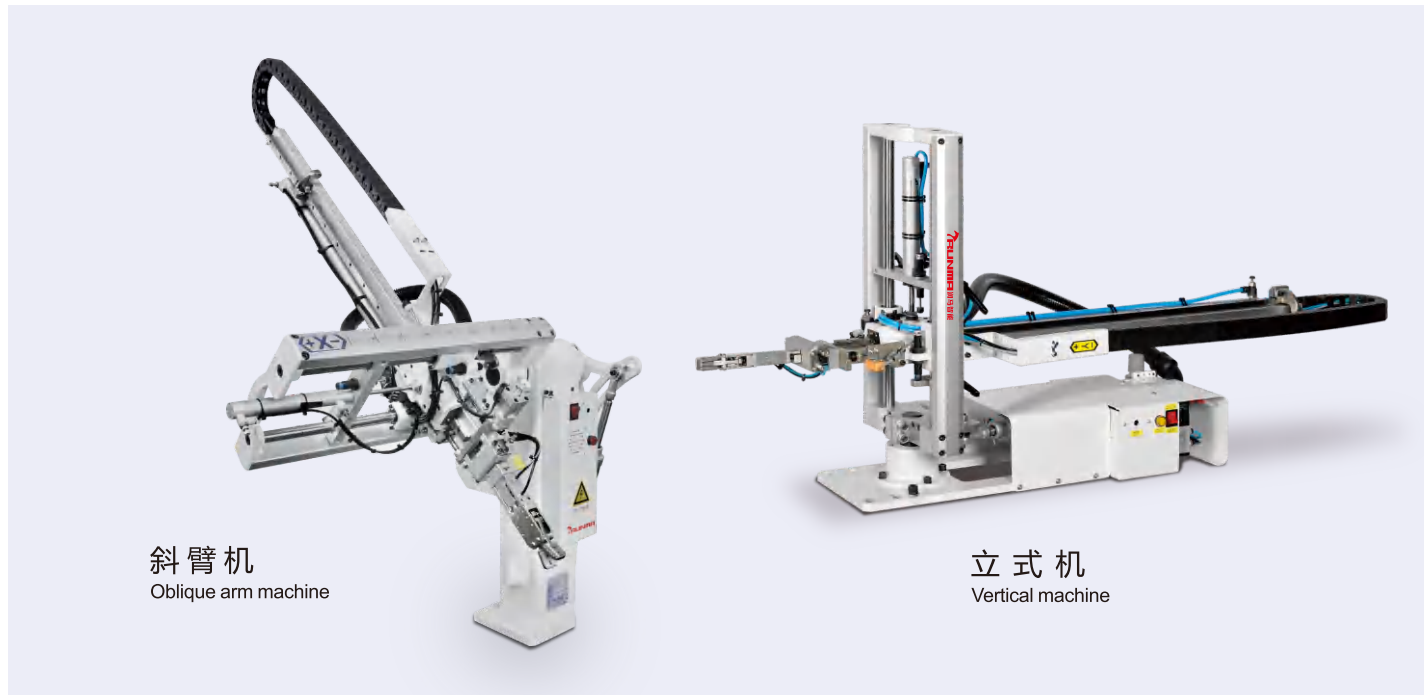
主要规格 Main Specifications

成品轴 Shaft for product taking-out	横行行程 Traverse stroke	定制 Custom made	取标与堆叠 Pick and stack	上下行程 Vertical stroke	650mm
	最大负荷 Maximum payload	8KG		引拔行程 Crosswise stroke	200mm
	引拔伺服 Crosswise servo	前后模 Front and rear mold		最大负荷 Maximum payload	8KG
	引拔行程 Crosswise stroke	200mm		侧姿角度 Side-pose rotation angle	90°

RX/RL

系列 Series

旋臂式机械手
Swing Arm robot



斜臂机
Oblique arm machine

立式机
Vertical machine

RNA/RNB

系列 Series

输送带-配合机械手发挥最大的经济效益
Conveyor belt - assist the robot to maximize the economic benefits

主要说明 Main explanation

- 全机框体采用高强度合金铝挤型材制作, 经久耐用不变形。
- 两头高度可调节, 操作方便, 旋转手轮即可。
- 附四个带刹脚轮, 移动方便, 不用手轮可折叠, 不占空间。
- 皮带运转速度和方向可随时调节切换, 反应迅速。
- 设备标准接头, 与其他设备运接方便。
- The whole frame body is made of high-strength aluminum extrusion profile, durable and without deformation;
- The height of two ends are adjustable, it is easy to operate by turning the handwheel;
- With four trundles with brake, easily movable, if handwheel not used it can be folded, thus it does not occupy much space;
- Belt running speed and direction can be adjusted and changed at any time with rapid response;
- Equipped with standard connectors, easy to be connected with other devices;



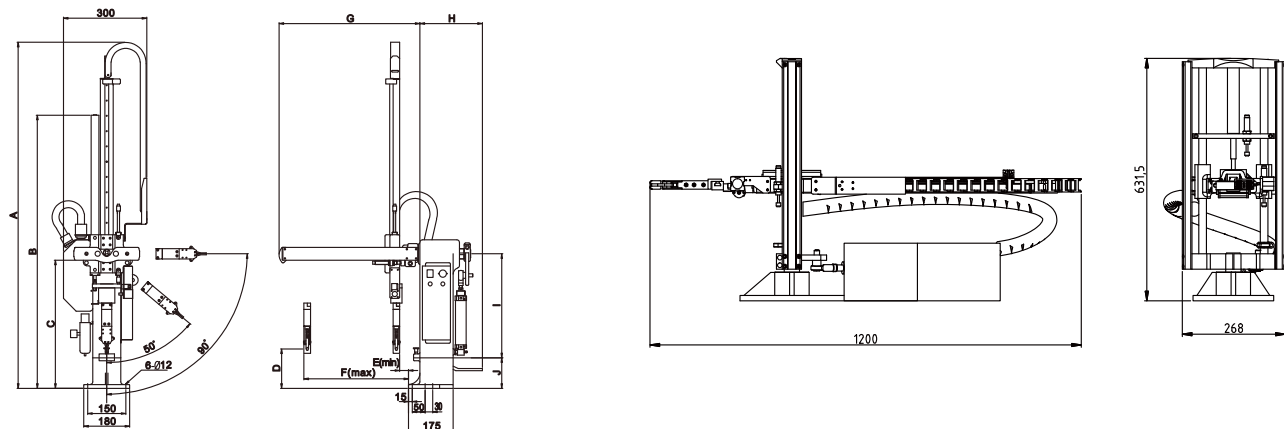
主要规格 Main specifications

机型 Model	RNA 单斜式双脚型 Sloping & double feet RNB: 平斜式双脚型 Sloping & double feet with platform
皮带宽度系列 Belt width series(mm)	200/300/400/500/600
输送带长度系列 Conveyor length series(mm)	1500/2000/2500/3000/3500/4000/4500/5000/5500/6000
平面长度 Plane length (mm)	300(W≤300; L≤200)/500 (W≥400; L≤2500)/ 700 (W≥600; L≤300)
低端高度 Low-end height(mm)	700 - 1000
高端高度 High-end height(mm)	1000 - 1600
最大荷重 Maximum load:Kg	25(均布) Equispaced
皮带 Leather belt	材料material: PVC 厚thickness:2mm 颜色Color: 绿色 Green 耐高温temperature resistance-10℃~80℃ 防静电anti-static, 耐磨耐油wear-resistant oil proof
输送速度 Conveyor speed:m/min	MAX: 15
电源 Power supply	Single PhaseAC220V ± 10V 50/60Hz
电源消耗量 Power consumption:KVA	0.2

型号规程说明 Description of model and procedures

□ □ □ - □ □ □ □
1 2 3

- 机型结构(structure): RNA: 单全斜式双脚型; RNB: 平斜式双脚型;
- 宽度系列(width): 02: 200 宽; 04: 400宽; 05: 500宽; 06: 600宽;
- 长度系列 (Length): 015: 1.5米长; 020: 2米长; 025: 2.5米长; 030: 3米长; 040: 4米长。
- Structure: RNA: single full inclined double-foot; RNB: flat inclined double-foot;
- Width series: width 02:200 wide; 04:400 wide; 05:500 wide; 06:600 wide;
- Length series: 015:1.5 m long; 020:2 m long; 025:2.5 m long; 030:3 m long; 040:4 m long



斜臂机
Oblique arm machine

立式机
Vertical machine

技术参数 Technical Parameters

机型 Model	适用 注塑机 (ton) Applied to injection molding machine	行程(mm) Stroke (mm)		角度 Angle (度) (degrees)		最大荷重 (含治具) Max Payload (including EcoAT)	时间 Time (sec)		驱动方式 Drive mode	工作气压 (kgf/cm) Working pressure	空气 消耗量 (nl/cycle) Air Consumption	电源 Power supply	电源 消耗量 (kva) Power consumption	净重 KG NW
		上下行程 Vertical stroke	引拔行程 Crosswise stroke	旋出 Swing angle	爪旋 Claw rotation angle		取出 Take out	空循环 Dry cycle time						
RX650	50~180T	650	标准: 120 Standard 选购: 200 Optional	50~90°	90°	2Kg	0.9(0.7)s	4.2(4.0)s	气压 pneumatic pressure	5~7	14.3(15.5)	单相 Single phase AC220 ±10V 50/60 HZ	0.2	40Kg
RL650		650					0.7s	4s						

流水线 Assembly line



模具监视器

Mold protector



模具监视器配置与参数

Mold Protector Configuration And Parameters

标准配置	主要配置名称及参数						设备型号
	工业主机 (4G/64G/3955U)	工业相机 (200万像素、黑白/彩色可选)	1个相机	工业相机 (变焦/定焦、 300万像素)	光源 (红外、可见光)	磁性座 (100KG)	RX-500-1
2个相机			RX-500-2				
3个相机			RX-500-3				

高级配置	主要配置名称及参数						设备型号
	工业主机 (4G/64G/ i3-7100/i5-7200)	工业相机 (200万/500万像素、 黑白/彩色可选)	4个相机	工业相机 (变焦/定焦、 300万像素)	光源 (红外、可见光)	磁性座 (100KG)	RX-500-4
5个相机			RX-500-5H				
6个相机			RX-500-6H				

Standard configuration	Main configuration name and parameter						Equipment model
	Industrial host (4G/64G/ i3-7100/i5-7200)	Industrial camera 2 megapixels. (black and white/color optional)	1PCS camera	industrial lens (zoom/fixed focus, 3 megapixels)	Light source (infrared visible)	Magnetic seat (100KG)	RX-500-1
2PCS cameras			RX-500-2				
3PCS cameras			RX-500-3				

Standard configuration	Main configuration name and parameter						Equipment model
	Industrial host (4G/64G/ i3-7100/i5-7200)	Industrial camera (2 megapixels or 5 megapixels black and white/color optional)	4PCS camera	industrial lens (zoom/fixed focus, 3 megapixels)	Light source (infrared visible)	Magnetic seat (100KG)	RX-500-4
5PCS cameras			RX-500-5H				
6PCS cameras			RX-500-6H				

INDUSTRY APPLICATIONS

行业应用



02 光学仪器 OPTICAL INSTRUMENTS

数字化印象丈量仪、激光测厚仪、量具、光学印象投影仪、激光抄数仪、全自动印象丈量仪、东西显微镜、三坐标丈量仪、等产品。

Digital image measuring machines, laser thickness gauges, measuring devices, optical image projectors, laser scanners, fully automatic image measuring machines, microscopes, coordinate measuring machines, etc.



04 精密塑胶齿轮行业 MOLDING OF PRECISION PLASTIC GEARS

精密齿轮是能互相啮合的有齿的机械零件,它在机械传动及整个工程机械领域中的应用发展极其广泛。

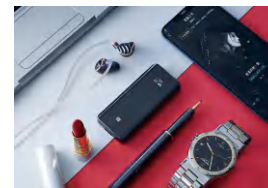
As mutually meshed toothed mechanical parts, precision gears are widely used in mechanical transmission and even the whole field of engineering machinery.



06 3C电子零部件成型 MOLDING OF 3C ELECTRONIC PARTS

电子元件、器件、仪器、仪表、广播电视设备、通信导航设备、雷达设备、电子计算机、电子器件、电子仪器仪表和其他电子等。

Electronic components, electronic devices, electronic appliances, electronic instruments, radio and TV equipment, communication and navigation equipment, radar equipment, electronic computers, etc.



08 数码电子文具 MOLDINGS OF HOUSEHOLD APPLIANCES

微型投影仪、录像机、摄像机、电脑办公、运动户外、手机数码电子产品等家电子行业相关产品。

Mini projectors, video recorders, cameras, computers, outdoor sports products, mobile phones, etc.



01 连接器 CONNECTORS

电子连接器产品广泛用于家用电器、移动设备、汽车电子设备、LVDS液晶显示器、工业连接器、电脑周边产品等产业领域。

Our electronic connectors are widely used in household appliances, mobile devices, automotive electronic devices, LVDS LCDs, industrial connectors, computer peripherals, etc.



03 医疗领域成型 MOLDING OF MEDICAL ACCESSORIES

注射针、针头护帽、输液软管、药液过滤器、瓶塞穿刺器、注射器外套、芯杆、胶塞、锥头等医疗相关配件。

Syringes, syringe needle caps, infusion tubes, medical solution filters, bottle stopper puncture devices, syringe barrels, plungers, seals, needle adapter, etc.



05 汽车塑胶制品成型 MOLDING OF AUTOMOTIVE PLASTIC ACCESSORIES

外观件、内饰件、电装部品、电池相关、如保险杠、灯具、仪表盘等相关配件。

Exterior parts, interior parts, electric fitting parts, battery accessories, bumpers, lamps, instrument panels, etc.



07 家用电器成型 MOLDINGS OF HOUSEHOLD APPLIANCES

空调器、清洁电器、厨房电器、空调器、电扇、换气扇、声像电器、等家用电器行业。

Air conditioners, cleaning appliances, kitchen appliances, air conditioners, electric fans, ventilation fans, audio and video appliances, etc.

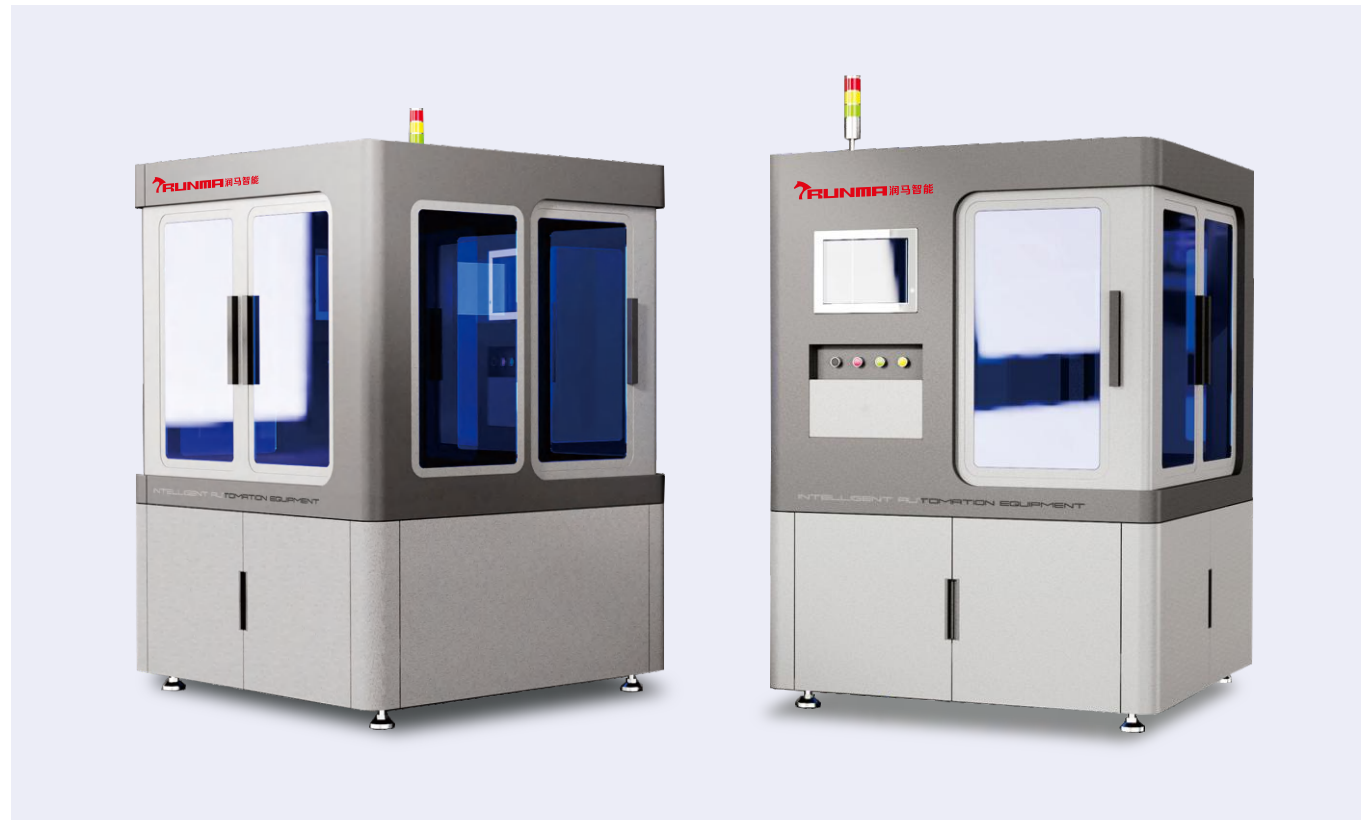


09 工业金属产品成型 MOLDING OF INDUSTRIAL METALLIC PRODUCTS

锌、铜、铝、镁、铅、锡以及铅锡合金、合金加工、压铸和压铸相关领域等产品。

Zinc products, copper products, aluminum products, magnesium products, lead products, tin products, lead-tin alloy products, alloy processing products, cast iron products, casting related products, etc.

柔性上料系统 Flexible feeding system



柔性 Flexible

- 快速完成产品排列
- 多种产品可在一个盘内实现挑选
- 避免传统振动盘卡料问题
- 随意切换产品
- Quickly complete product arrangement;
- Avoid the problem of traditional vibrating plate jamming;
- A variety of products can be selected in one tray;
- Switch products at will.

快速 Fast

- 快速完成产品排列，避免传统振动盘卡料问题；
- 根据产品类型选择适合的智能末端，实现末端治具快速切换；
- 物料更换，程序一键替换；
- Quickly complete the product arrangement and avoid the problem of traditional vibrating plate jamming;
- Select the appropriate intelligent terminal according to the product type, and realize the rapid switching of the terminal - - Fixture for material replacement;
- One-key replacement of the program

友好 Friendly

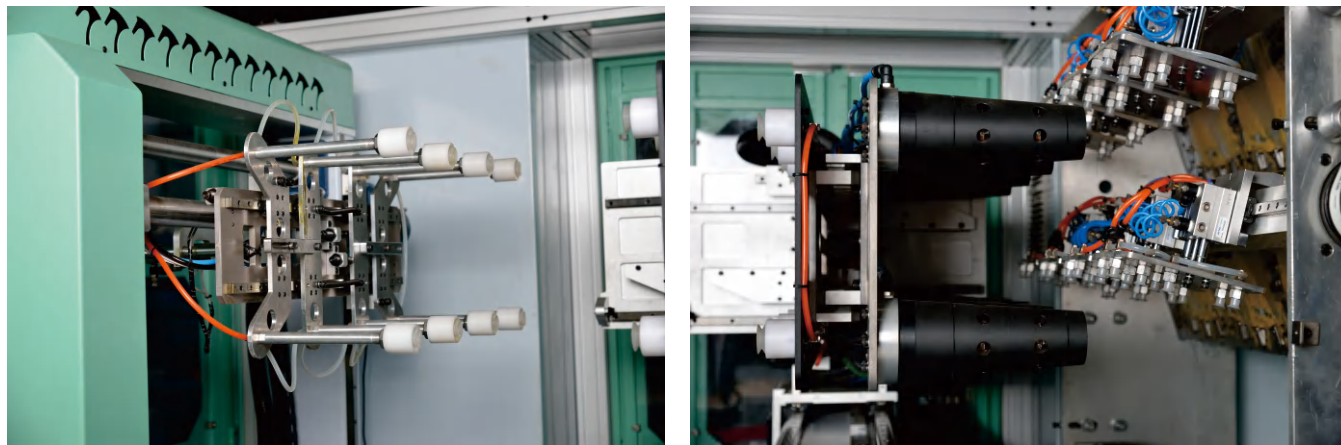
- 友好人机交互界面，程序简单，操作工即可完成产品切换；
- 新产品设置技术人员15-20分钟内即可完成一个产品调试；
- Friendly human-computer interaction interface, operators can easily complete product switching;
- New product setting technicians can complete a product debugging within 15-20 minutes

柔性振动盘选型 Flexible vibration plate selection

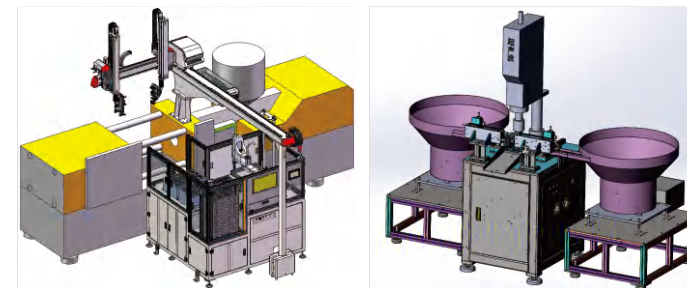
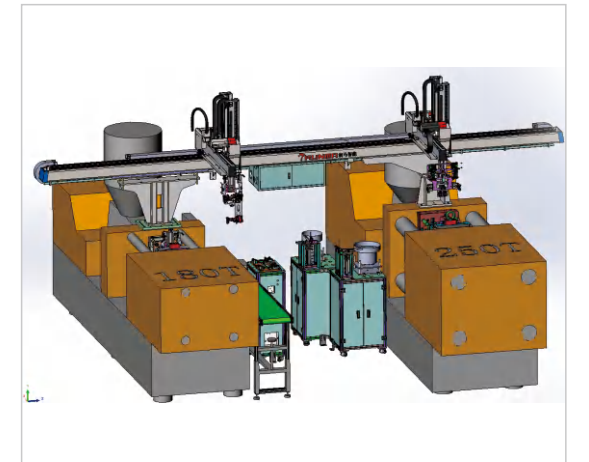
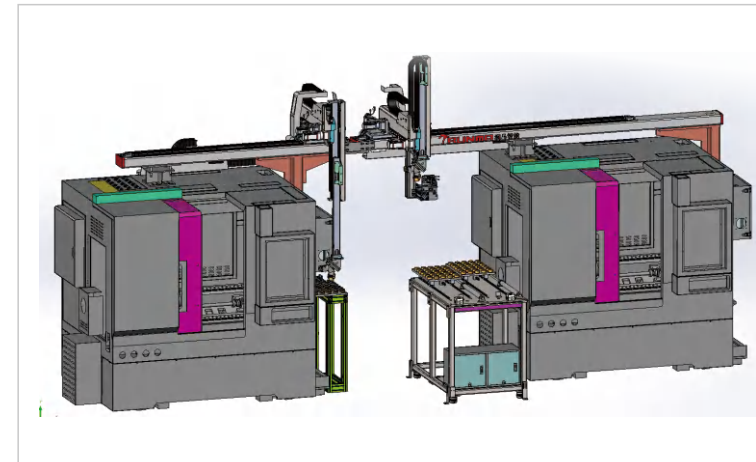
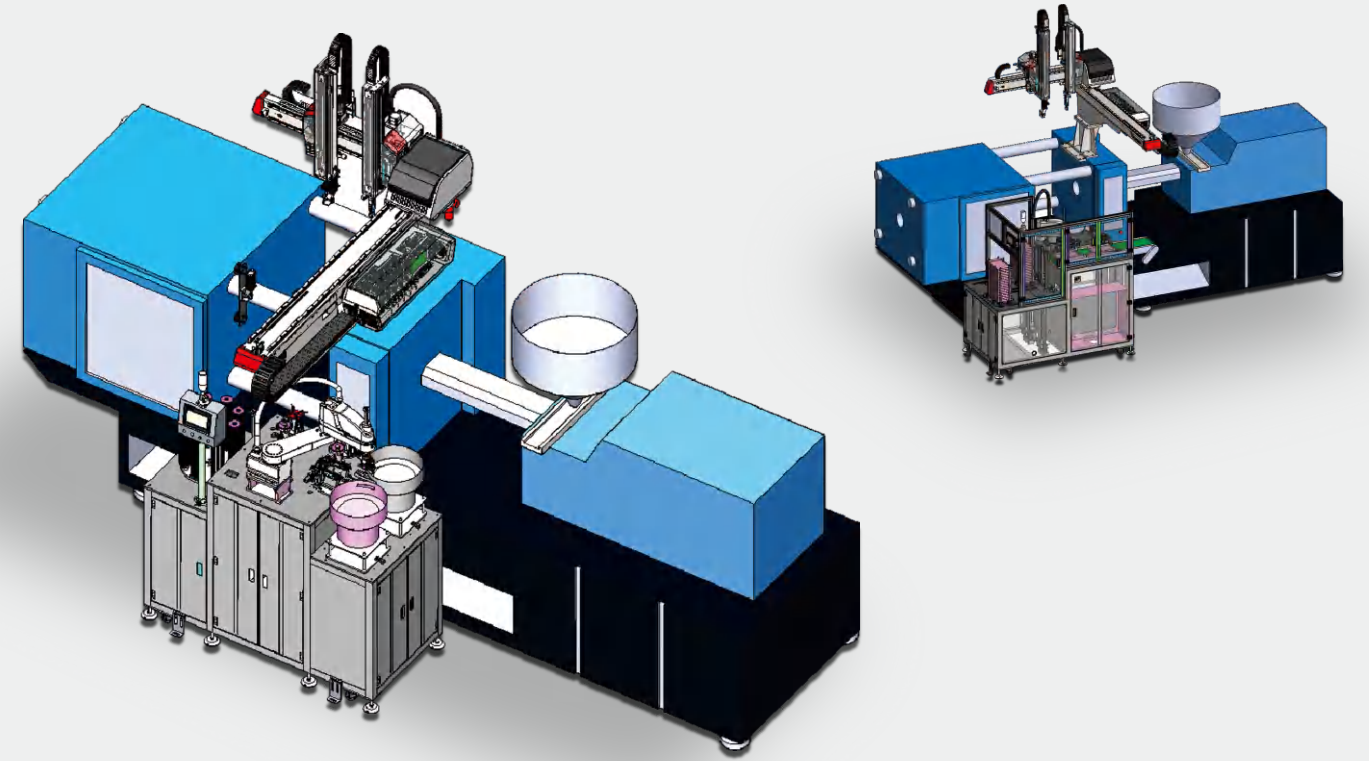
型号 Model	JZJ-R90	JZJ-R200	JZJ-R300	JZJ-R400	JZJ-R500
尺寸: 长*宽*高 (mm) Size:L*W*H	360*106*189	299*180*163	416*232*200	470*268*196	598*358*223
拾取窗口 (mm) Pickup window(mm)	120*90	156*208	280*210	336*265	450*358
重量 (Kg) Weight(kgs)	10	10	15	20	30
电源 Power supply	DC24V/8A				
运动形式 Forms of movement	前后/左右移动, 翻转, 中间聚合, 振散 Back and forth/left and right move, flipping, middle polymerization, vibration dispersion				
设备运行噪音 (dB) Operating noise (dB)	≤75				
最大承重 (Kg) Max. payload (kgs)	0.1	0.5	1	2	2
可翻转产品重量 (g) Reversible product weight (kgs)	≤5	≤50			≤150
可移动产品重量 (g) Moveable product weight (kgs)	≤8	≤80			≤180
可送料尺寸(mm) Allowable feed size (mm)	≤3	≤25			≤120
料盘驱动器 Tray servo driver	标配、内置 Standard configuration, internally installed				
CCD像素 CCD Pixels	1200万 12 million			2000万 20 million	
背光颜色 Backlight color	白色 White				
视觉软件 Visual software	台达 Delta				
振动节拍(ms) Vibration beat (ms)	≤500				
信号交互 Signal interaction	Ethernet(TCP/IP)Modbus TCP/IP ModbusRTU				

料仓选型 Silo selection

序号 Number	体积(L) Volume(L)	外形 Shape	参考物料外形 Reference Material Appearance	参考物料数量 (个) Reference material quantity
1	2	200*100	长宽(L/W) 15mm 厚度(THK) 2mm	500
2	5	200*200	直径(DNS) 15mm 高度(H) 15mm	400
3	10	300*250	直径(DNS) 50mm 高度(H) 5mm	300
4	20	450*300	直径(DNS) 20mm 长度(L) 40mm	300
5	50	500*400	直径(DNS) 40mm 厚度(THK) 25mm	300
6	80	600*500	直径(DNS) 55mm 高度(H) 60mm	300
7	90	700*500	直径(DNS) 70mm 球形(Sphericity)	300
8	120	800*550	直径(DNS) 90mm 高度(H) 50	300
9	150	900*550	直径(DNS) 90mm 高度(H) 50	450



模内贴应用
IML equipment application

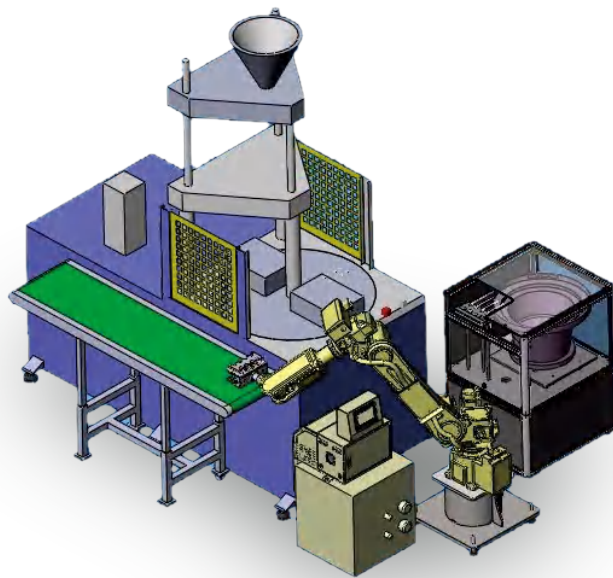
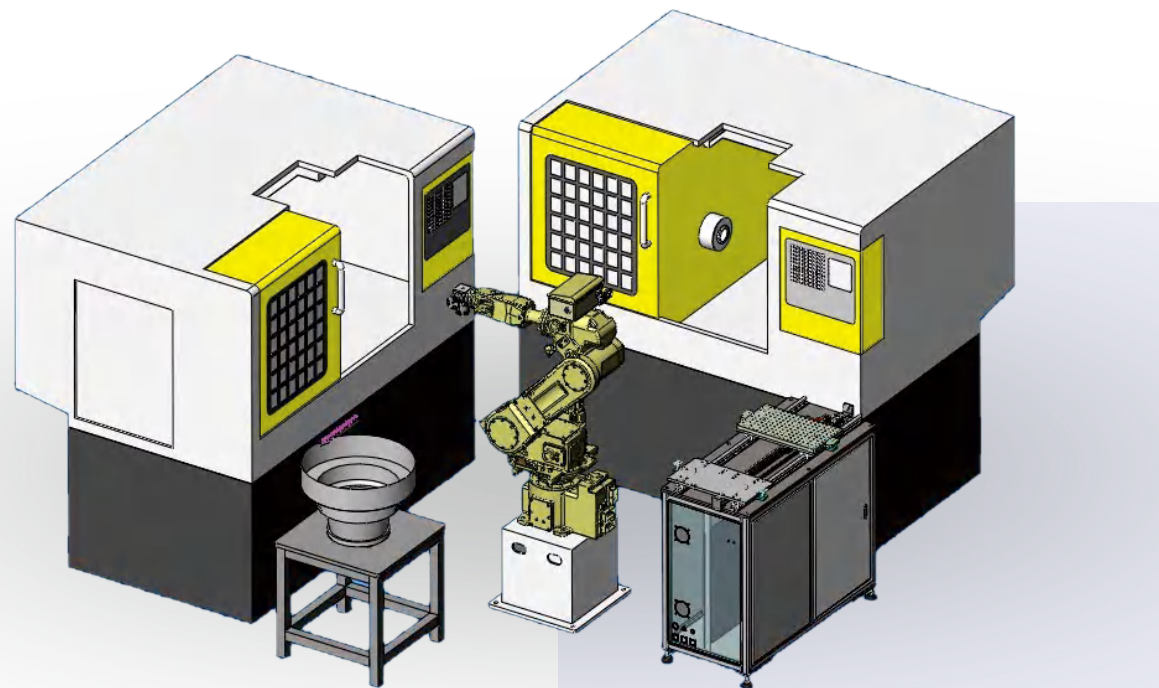


客户定制非标
自动化成套设备

Customized non - standard
automation equipment

机器人解决方案

Robot solution



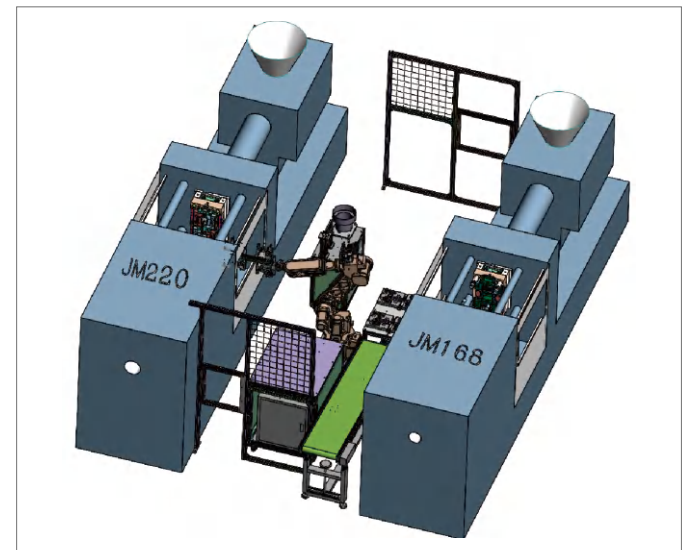
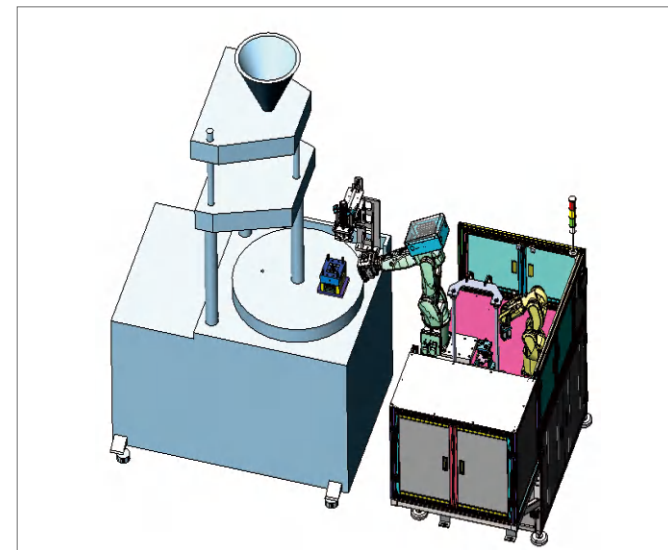
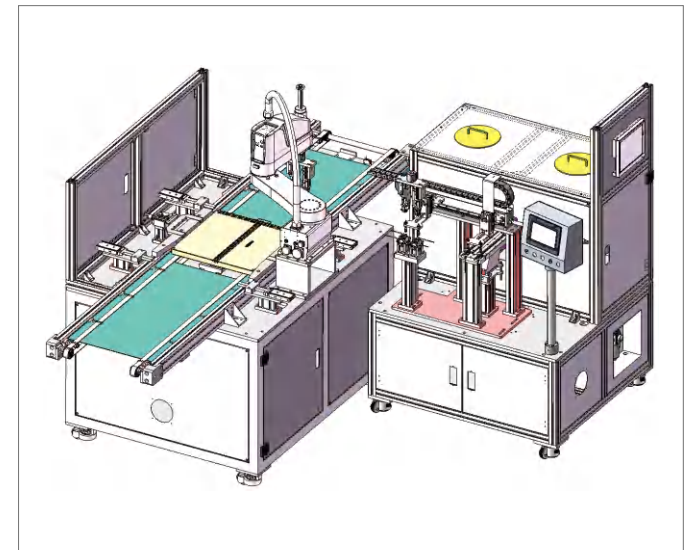
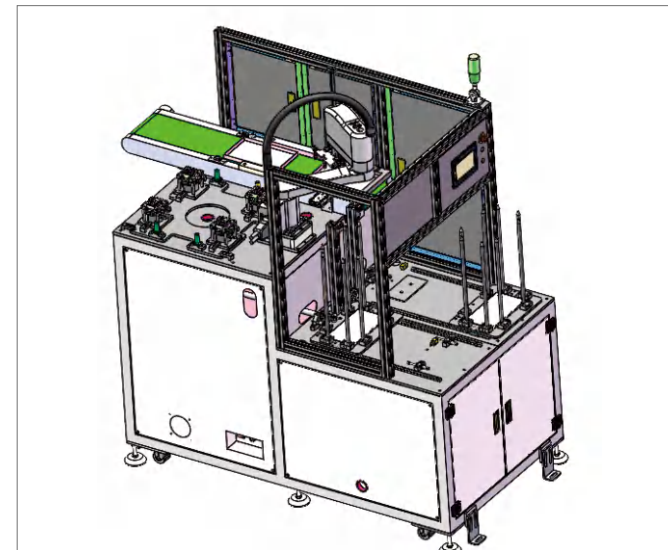
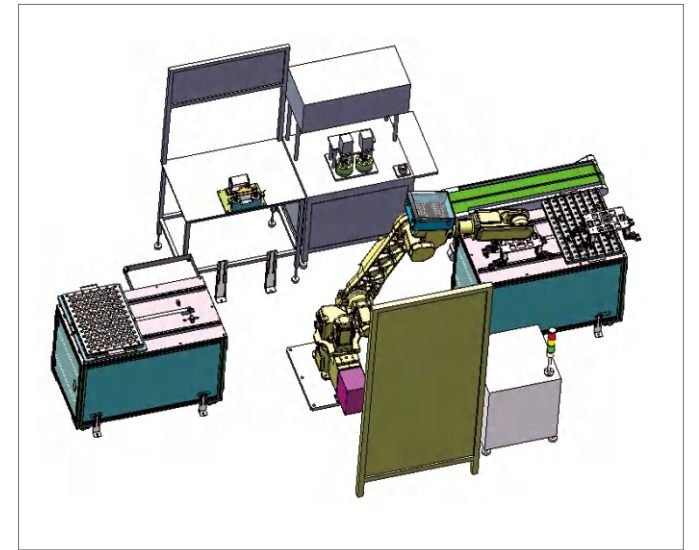
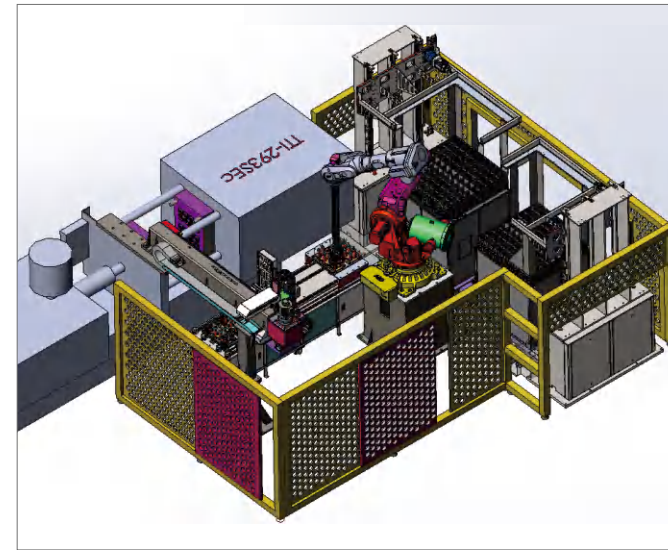
我们以创新技术,集成解决方案,致力于柔性智能工艺装备,三维柔性组合夹具,自动焊接专机设备,焊接机器人系统工作站,搬运,码垛,机器人工装夹具集成和提高效率整体解决方案的研发和运营。

Runma China uses innovative technologies and integrated solutions and is committed to providing flexible intelligent technological equipment, 3D flexible built-up jig, automatic welding special facility, welding robotic system workstation, handling and palletizing robotic work fixture integration and R&D and operation that aim to provide overall solutions for improvement of production efficiency.

主要产品服务 Main product service

柔性组合夹具,专用工装夹具,液压气动夹具,自动焊接工装,自动焊接专机设备,柔性焊接翻转变位机,异性零件加工,数控机床自动上下料,焊接机器人系统工作站,搬运、码垛,机器人工装夹具集成和提高生产效率整体解决方案。

Flexible built-up jig, special work fixture, hydraulic pneumatic fixture, automatic welding fixture, automatic welding special facility, Flexible welding reversing position changer, irregular parts processing, CNC automatic feeding and blanking, welding robotic system workstation, handling and palletizing robotic work fixture integration and overall solution for improvement of production efficiency.

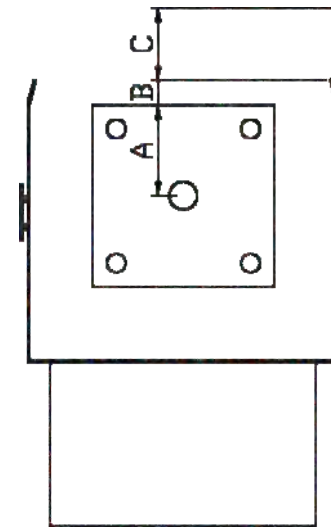


客户案例
Customer case



机械手如何选型(特殊案例另外分析)

How to select the manipulator (special case analyzed individually)



手臂行程(以成品臂为例)

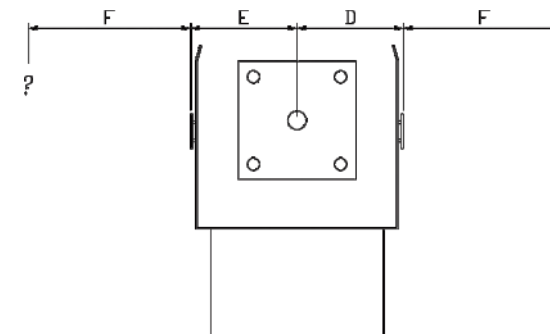
- A值: 射嘴中心到注塑机头板的垂直距离;
 - B值: 注塑机头板尺寸到安全门的最高值;
 - C值: 注塑成品(含治具)所需要的成品空间,
- 机械手所需行程 $\geq A+B+C$

Arm stroke(Arm for finished product e.g.)

- A value: vertical distance from nozzle center to the surface of fixed platen
 - B value: vertical distance from the surface of fixed platen to the highest point of safety door;
 - C value: the required space for successful taking-out of injection molded finished product(including jig)
- Arm stroke (Vertical stroke) $\geq A+B+C$

横出行程

- D或E值: 射嘴中心到前安全门(电脑板侧)或后安全门(电脑板另侧)的垂直距离;
 - F值: 产品在安全门外处理所需的空间(如人员操作空间, 输送带所占的空间或是特殊工装所占用的空间等等)
- 机械手横出所需的行程 $\geq D$ 或 $E+F$

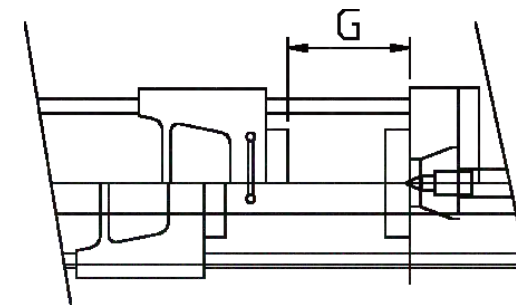


Traverse stroke

- D or E value: Vertical distance from nozzle center to front or rear safety door;
 - F value: the outward space required for product processing from safety door handle;
- Traverse stroke $\geq D$ or $E + F$

引拨行程

- G值: 埋模面到模具分型面的最大距离
- 机械手引拨行程 $\geq G$



Crosswise stroke

- G value: The maximum distance between the buried die surface and the parting surface of the die
- Crosswise stroke $\geq G$