

伯朗特机器人股份有限公司

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BORUNTE ROBOT CO., LTD.

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[www.borunte.com](http://www.borunte.com)



2020.12 伯朗特机器人股份有限公司



伯朗特：机器人  
“重新定义”者

## 购买 BORUNTE 机器人就两个途径：

下单1000台0805成为伯朗特一级应用商或者登录伯朗特官网www.borunte.com点击“应用商模式”找伯朗特一级应用商，2021年1月11日BORUNTE产品开始的“升降维同路”使“伯朗特应用商模式”完全开启了“自动驾驶模式”：伯朗特一级、二级、三级应用商必须按伯朗特官方指导价销售，若有违规者罚款100万是小事，关键是没有货源了。

至2025.1.11向全球发展超1000家  
BORUNTE一级应用商

- 1、“0”成本创业
- 2、最高提供2850万授信额度
- 3、享受最高50%利差
- 4、不限“区域”与“行业”
- 5、免费提供技术培训

伯朗特：机器人  
“重新定义”者



## 如何加入伯朗特应用商体系？

伯朗特应用商体系分伯朗特一级应用商、伯朗特二级应用商、伯朗特三级应用商；伯朗特三级应用商对应伯朗特二级应用商，伯朗特二级应用商对应伯朗特一级应用商，伯朗特一级应用商对应伯朗特。伯朗特一级应用商、伯朗特二级应用商、伯朗特三级应用商都可以享受最高20%的返点。伯朗特一级应用商每个季度25号向伯朗特完成付款，伯朗特二级应用商每个季度22号向伯朗特一级应用商完成付款，伯朗特三级应用商每个季度20号向伯朗特二级应用商完成付款。

伯朗特应用商的门槛：一级应用商下单1000台BRTIRUS0805A，二级应用商下单285万元以上机器人和机械手，三级应用商下单28.5万元以上机器人和机械手；授信额度：一级应用商20万~2850万，二级应用商20万~285万，三级应用商不超过28.5万；交期：90天；区域：不限；返点方式：一级应用商下单6倍的返点金额，二级应用商下单10倍的返点金额，三级应用商下单20倍的返点金额。

## 伯朗特一级应用商、伯朗特二级应用商、伯朗特三级应用商不同点

项目	伯朗特一级应用商	伯朗特二级应用商	伯朗特三级应用商
一、门槛	第一次签订合同金额不低于	1000台BRTIRUS0805A机器人	285万元以上机器人或机械手
	提货时间要求	90天	90天
二、授信金额上限	项目	伯朗特一级应用商	伯朗特二级应用商
	授信范围	20万元至2850万元	20万元至285万元
三、新签合同金额为使用返利金额的倍数	返利类别	伯朗特一级应用商	伯朗特二级应用商
	季度返利金额	6倍	10倍
	每月享受的年度返利月平均金额	6倍	10倍
四、可享受季度返点的收款金额	可享受的季度返点比例	伯朗特一级应用商季度销售金额大于或等于	伯朗特二级应用商季度销售金额大于或等于
	3%	30万元	7.5万元
	5%	50万元	12.5万元
五、可享受年度返点的收款金额	可享受的年度返点比例	伯朗特一级应用商年度销售金额大于或等于	伯朗特二级应用商年度销售金额大于或等于
	5%	360万元	90万元
	8%	600万元	150万元
	10%	1200万元	300万元
	12%	1800万元	450万元
15%	2400万元	600万元	
六、货款支付时间	季度	伯朗特一级应用商季度付款日期	伯朗特二级应用商季度付款日期
	第一季度	3月25日	3月22日
	第二季度	6月25日	6月22日
	第三季度	9月25日	9月22日
	第四季度	12月25日	12月22日

# 公司简介

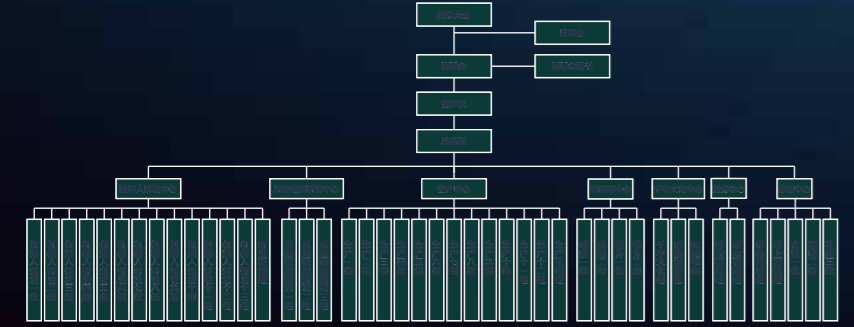
伯朗特机器人股份有限公司成立于2008年,注册资本2.25亿,研发、生产、销售机器人、机械手及其零部件,伯朗特的核心竞争力是在“完成伯朗特2049就是造福全人类”的“伯朗特的千年文化”引领下通过伯朗特应用商模式和伯朗特供应链规则“重新定义”机器人。

BORUNTE ROBOT CO., LTD. was founded in 2008. The registered capital is 225 million RMB. BORUNTE is also a enterprises of R&D, production, sales of industrial robots, IMM robot and its parts. The core competence of BORUNTE is to “redefine” robot through the BORUNTE integrator style and the BORUTNE supply chain rules under the guidance of “BORUNTE millennium culture”, which to achieve annual sell 40,000,000 robots to supply 40,000,000 global labor and break the revenue of trillions by 2049. The completion of produce 40 million robots and break the revenue of trillions will benefit the whole mankind.



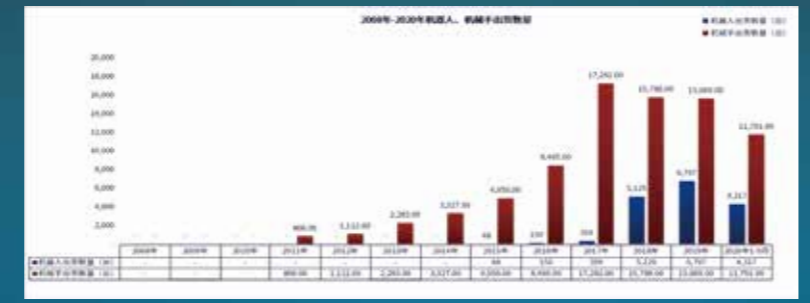
## 伯朗特机器人股份有限公司

组织架构图



尹荣造始于2018年12月24日 定于2020年8月18日

# 发展历程



## 伯朗特2049营收万亿级目标分三步走



伯朗特2049第一步 → “共和国成立” 站起来了  
第一步: 完成年销售破40万台机器人且发明专利授权破100件和伯朗特一级应用商破1000家 (营收百亿级)



伯朗特2049第二步 → “改革开放” 富起来了  
第二步: 完成年销售破400万台机器人且发明专利授权破1万件和伯朗特一级应用商破1万家 (营收千亿级)

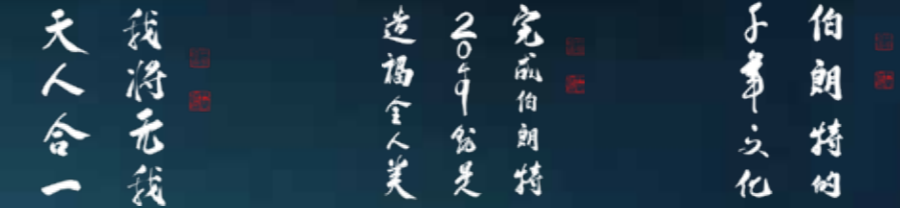


伯朗特2049第三步 → “两个一百年” 强起来了  
第三步: 完成年销售破4000万台机器人且发明专利授权破10万件和伯朗特一级应用商破10万家 (营收万亿级)

尹荣造始于2018年7月28日 定于2020年10月30日

# 公司文化

伯朗特走的是“实践型共产主义”之路,其“众生平等”的基因赋予了伯朗特“生生不息”的力量!



释义:伯朗特的千年文化是指:伯朗特的“伯朗特的千年文化”的魂是“我将无我、天人合一”其落脚点就是“完成伯朗特2049就是造福全人类”;“完成伯朗特2049就是造福全人类”是指:伯朗特的目标到2049年完成年销售破4000万台BORUNTE机器人补给全球4000万以上劳工营收万亿级就是造福全人类且在践行“构建人类命运共同体”。

### 《伯朗特梦》

我们的梦想 从伯朗特起航 不管再大的风浪 携起手来勇敢去闯  
我们的梦想 在伯朗特发光 万亿目标战略 要成为机器人的领头羊  
我们的梦想 和伯朗特一起飞翔 伯朗特大学的崛起 有您有我爱的力量

尹荣造始于2013年11月05日 定于2020年3月30日

### 《1.11伯朗特文化节是机器人的“伯朗特宣言”》

伯朗特文化节 它是宣言书 向机器人发出呐喊 王侯将相宁有种乎?  
伯朗特文化节 它是播种机 在机器人播洒希望 星星之火,可以燎原!  
伯朗特文化节 它是指明灯 为机器人指明方向 路途遥远、行则将至!  
1.11伯朗特文化节 一场机器人的饕餮盛宴 机器人,世界大同 同心者同路!

释义:2019年开始每年的1月11日是伯朗特员工+伯朗特供应商+伯朗特应用商的狂欢节日;

尹荣造始于2018年11月17日 定于2020年03月30日

### 《伯朗特的千年文化》

Sheet music for 'The millennium culture of BORUNTE' with lyrics and musical notation.

### 《伯朗特舞》

尹荣造始于2013年11月05日 定于2020年10月30日

# 重新定义

苹果“重新定义”了手机,特斯拉“重新定义”了汽车,如果机器人被伯朗特“重新定义”,那未来各行各业都将会被中国企业“重新定义”。

①伯朗特的核心竞争力是在“完成伯朗特2049就是造福全人类”的“伯朗特的千年文化”引领下通过伯朗特应用商模式和伯朗特供应链规则“重新定义”机器人,其目标是到2049年完成年销售超4000万台机器人且营收万亿级,伯朗特与伯朗特一级应用商之间都是相互独立的法人单位,与伯朗特是对等的法律主体且相互之间不存在持股的关系。

②购买BORUNTE产品就两个途径:下单1000台0805成为伯朗特一级应用商或者登录伯朗特官网www.borunte.com点击“应用商模式”找伯朗特一级应用商,2021年1月11日BORUNTE产品开始的“升降维同路”使“伯朗特应用商模式”完全开启了“自动驾驶模式”:伯朗特一级、二级、三级应用商必须按伯朗特官方指导价销售,若有违规者罚款100万是小事,关键是没有货源了;伯朗特应用商体系分伯朗特一级、二级、三级应用商,伯朗特三级应用商对应伯朗特二级应用商,伯朗特二级应用商对应伯朗特一级应用商,伯朗特一级应用商对应伯朗特,伯朗特一级、二级、三级应用商都可以享受最高20%的返点,伯朗特一级应用商每个季度25号向伯朗特完成付款,伯朗特二级应用商每个季度22号向伯朗特一级应用商完成付款,伯朗特三级应用商每个季度20号向伯朗特二级应用商完成付款;伯朗特应用商的门槛:一级应用商下单1000台0805A,二级应用商下单285万元以上机器人和机械手,三级应用商下单28.5万元以上机器人和机械手,授信额度:一级应用商20万~2850万,二级应用商20万~285万,三级应用商不超过28.5万,交期:90天,区域:不限,返点方式:一级应用商下单6倍的返点金额,二级应用商下单10倍的返点金额,三级应用商下单20倍的返点金额。

③伯朗特供应链规则:成本、品质、交期,新进入供应商必须比老供应商成本下降30%以上才能通过研发中心品质和生产中心交期的验证才能成为该产品80%的主流供应,只要您具备足够的成本、品质、交期,伯朗特的大门永远都是开放的,这就是供应链中心同事“傻瓜式”二选一谈判:“成本”不超过现有供应商且品质、交期没问题就能成为1%~20%的副供应商或者“成本”比现有供应商下降30%以上且品质、交期没问题就能成为80%以上的主供应商。

④伯朗特2049的人员构成目标80%以上的伯朗特员工是研发人员,我们加入的是一家到2049年要通过伯朗特应用商模式和伯朗特供应链规则培养超10000个亿万富翁届时伯朗特2049必定完成,我将无我、天人合一,我们尽管努力,伯朗特自有安排,我们想成为亿万富翁就去做伯朗特一级应用商或伯朗特供应商,期待伯朗特成就我们的梦想。

尹荣造始于2018年11月3日 定于2021年1月11日

产品特点 Product Features

BRTIRXZ0805A是伯朗特自主研发的一款带拖动示教功能的六轴协作机器人,其最大负载为5KG,最大臂展可达805mm。具有碰撞检测、轨迹复现等功能。同时具有安全高效、智能易用、灵活轻巧、经济可靠和低功耗等特点,大大满足客户对机器人协作方面的需求。其高灵敏性和快响应性可适用于高密度的柔性化生产线,满足产品包装、注塑、上下料、装配等作业需要,尤其对机器人协同作业的应用需求,更是出类拔萃。

BRTIRXZ0805A is a six-axis cooperative robot with drag-teaching function independently developed by BORUNTE, with a maximum load of 5KG and a maximum arm length of 805mm. It has the functions of collision detection and track reproduction. At the same time, it is safe and efficient, intelligent and easy to use, flexible and light, economical and reliable, low power consumption and other characteristics, which greatly meet the needs of customers in man-machine cooperation. Its high sensitivity and quick response can be applied to high density flexible production line, to meet the needs of product packaging, injection molding, loading and unloading, assembly and other operations, especially for man-machine collaborative work application demand, is outstanding.

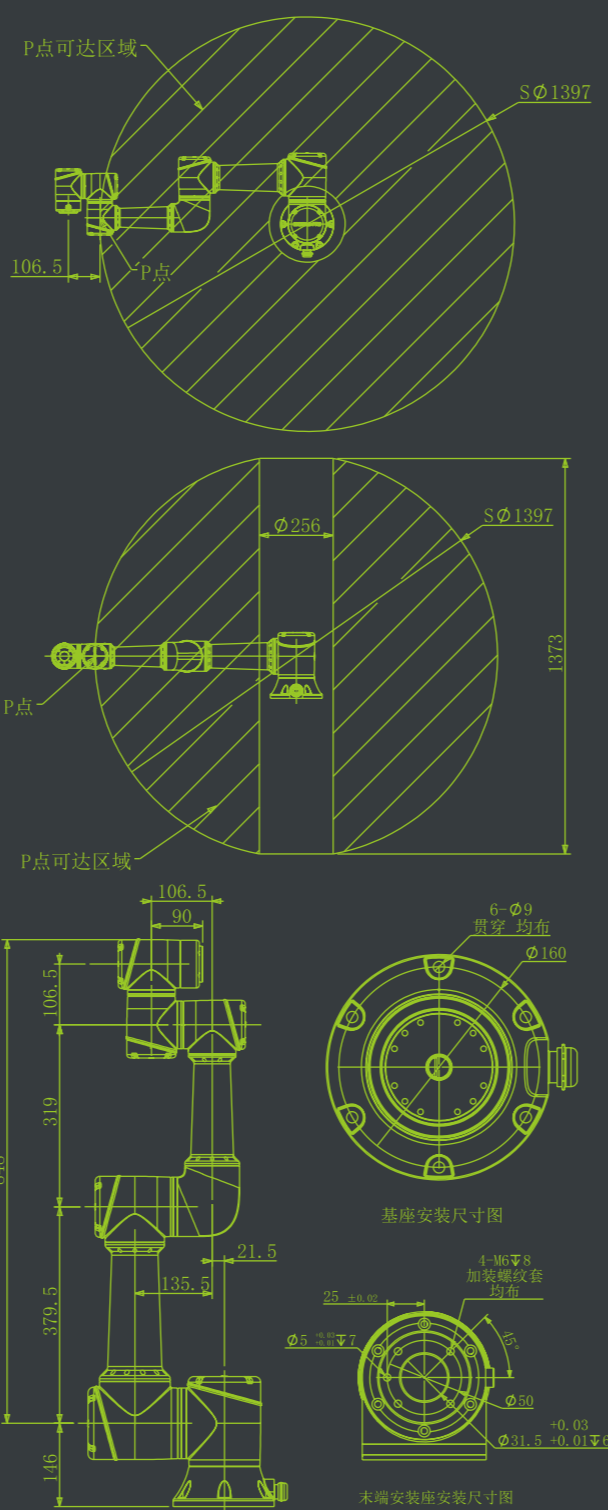


该款机型只接受  
1万台起订  
1万的倍数

**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRXZ0805A	臂展 Arm Length(mm)	地面-2轴 距146mm		2-3轴距 379.5mm	3-4轴距 319mm	5轴-端面距 90mm	805mm	5KG	±0.03mm	2.4KVA	约22KG	
	范围 Range(°)	±180°	±160°	±160°	±160°	±180°						±360°
	最大速度 Max.Speed(°/S)	120°/s	120°/s	180°/s	180°/s	180°/s						180°/s

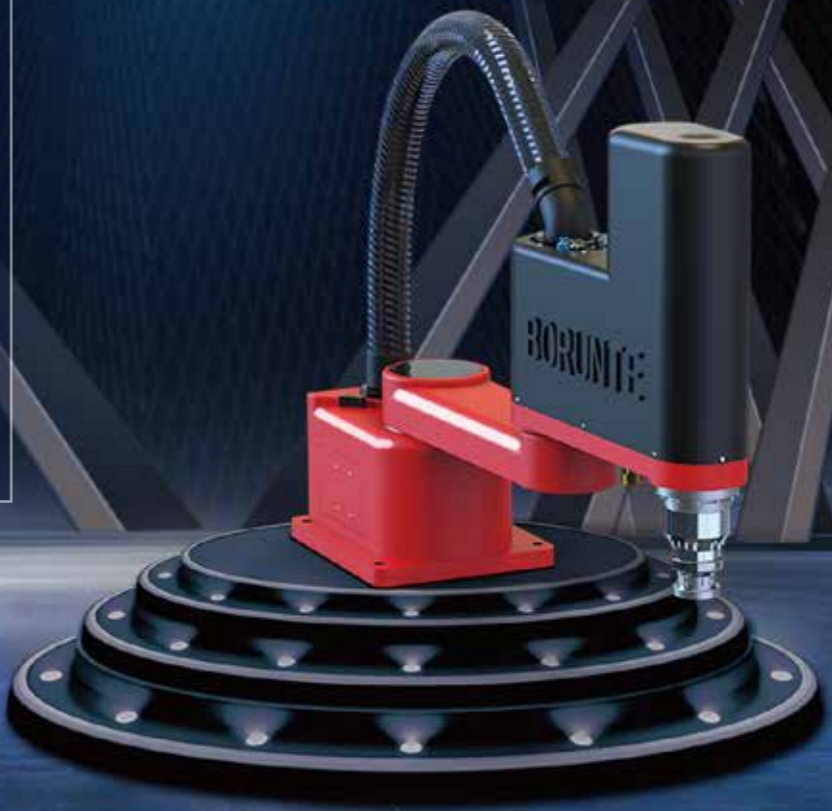
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产品特点 Product Features

BRTIRSC0603A是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业等而开发的一款水平四轴机器人,其拥有600mm臂展,最大负载可达3kg。具有多自由度的灵活性,主要用于印刷包装、金属加工、轻纺家居、电子装备等领域。防护等级高-IP54 精度高一重复定位精度±0.02mm

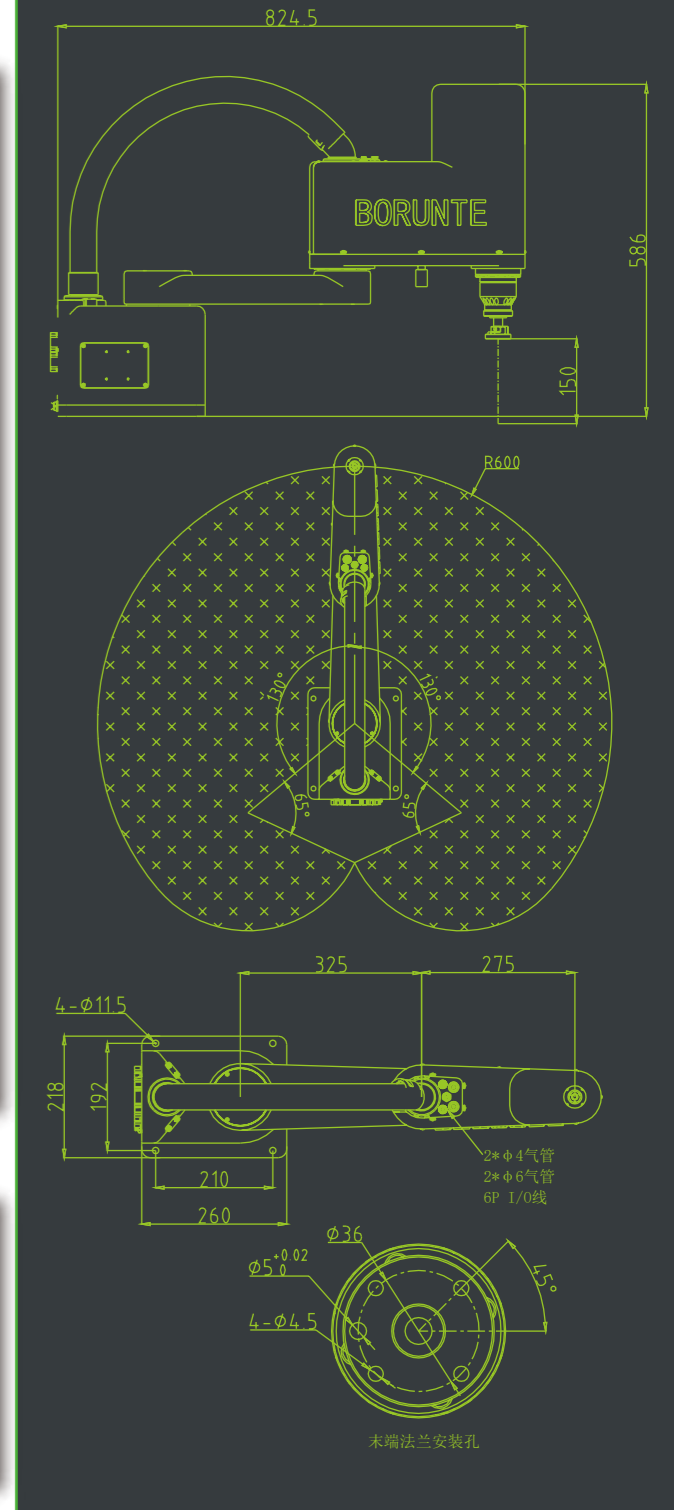
BRTIRSC0603A type robot is a four axis robot that developed for some monotonous, frequent and repetitive long-term operations.The maximum arm length is 600mm. The maximum load is 3KG.It's flexible with multiple degrees of freedom. Suitable for printing and packaging, metal processing, textile home furnishing, electronic equipment, and other fields.The protection grade reaches IP54.The repeat positioning accuracy is ±0.02mm.

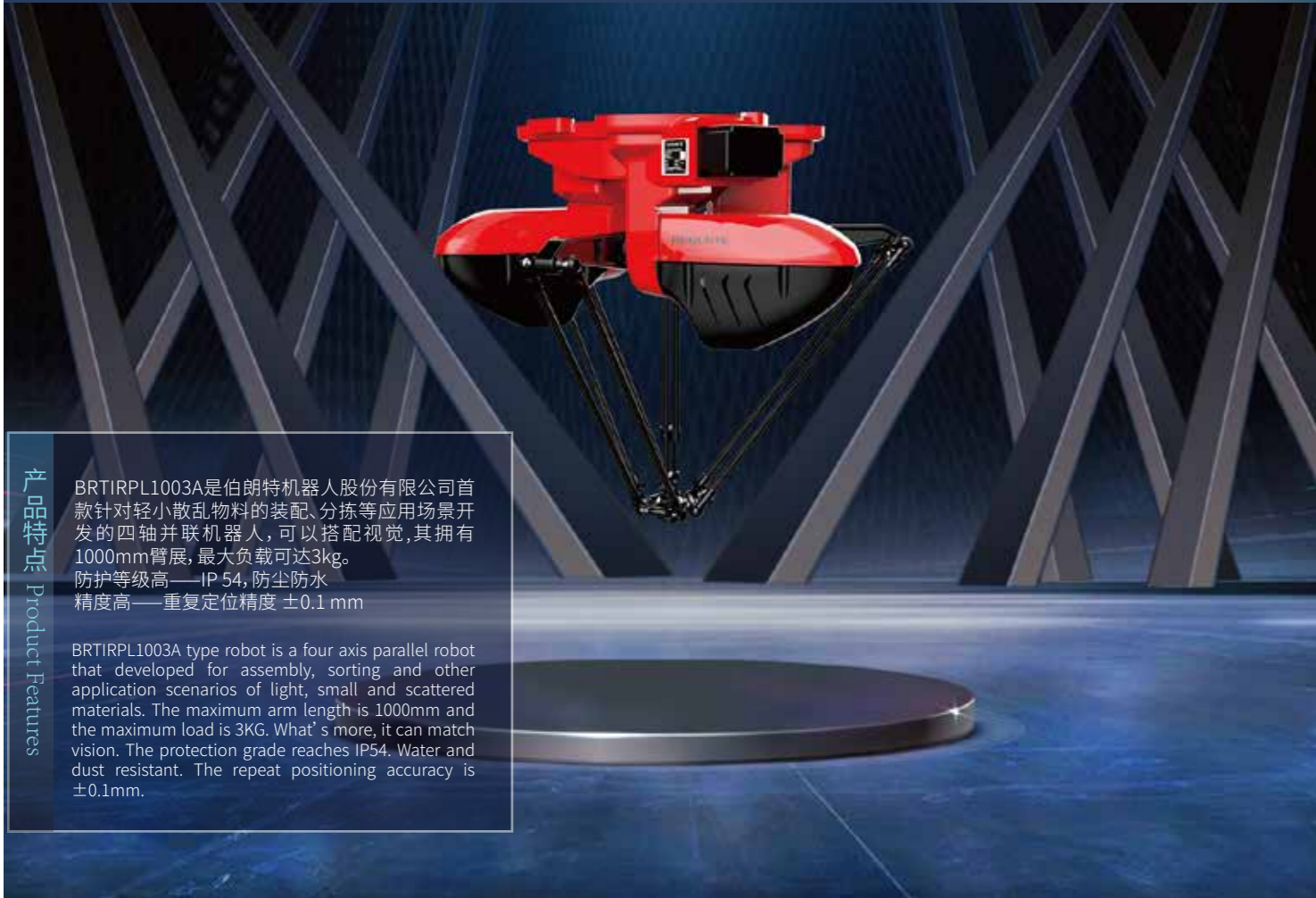


**主要规格 Main Specification**

产品型号 Model	项目Item	手臂 Arm			手腕 Wrist	臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3						
BRTIRSC0603A	范围 Range(°)	±130°	±145°	0-150mm	±360°	600mm	3KG	±0.02mm	0.8KVA	约22KG
	最大速度 Max.Speed(°/S)	480°/s	576°/s	900mm/s	696°/s					

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**产品特点 Product Features**

BRTIRPL1003A是伯朗特机器人股份有限公司首款针对轻小散乱物料的装配、分拣等应用场景开发的四轴并联机器人,可以搭配视觉,其拥有1000mm臂展,最大负载可达3kg。防护等级高——IP 54,防尘防水。精度高——重复定位精度 ±0.1 mm

BRTIRPL1003A type robot is a four axis parallel robot that developed for assembly, sorting and other application scenarios of light, small and scattered materials. The maximum arm length is 1000mm and the maximum load is 3KG. What's more, it can match vision. The protection grade reaches IP54. Water and dust resistant. The repeat positioning accuracy is ±0.1mm.

**主要规格 Main Specification**

产品型号	项目	主动臂		末端	臂长	负载	位置重复定位精度	角度重复定位精度	允许负载最大转动惯量	电源电容	本体重量
		上摆	下摆								
BRTIRPL1003A	臂长 (mm)	安装面-行程区域距872.5mm			1000mm	3KG	±0.1mm	±0.5°	0.01kg/m²	3.3KVA	约90KG
	范围 (°)	46.7°	86.6°	±360°							
	节拍 (次/min)	行程: 25/305/25 (mm)		150							

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**产品特点 Product Features**

BRTIRPZ1508A/BRTIRPC1508A采用全伺服电机驱动,响应速度快,精度高。其最大负载为8KG,最大臂展可达1500mm。以紧凑的结构实现大范围动作,运动灵活,精准。

用途:在工业生产中能代替人做某些单调、频繁和重复的长时间作业,或是危险、恶劣环境下的作业,例如在冲压机、压力铸造、热处理、焊接、涂装、塑料制品成形、机械加工和简单装配等工序上,以及在原子能工业等部门中,完成对人体有害物料的搬运或工艺操作等,完美完成上下料工艺。

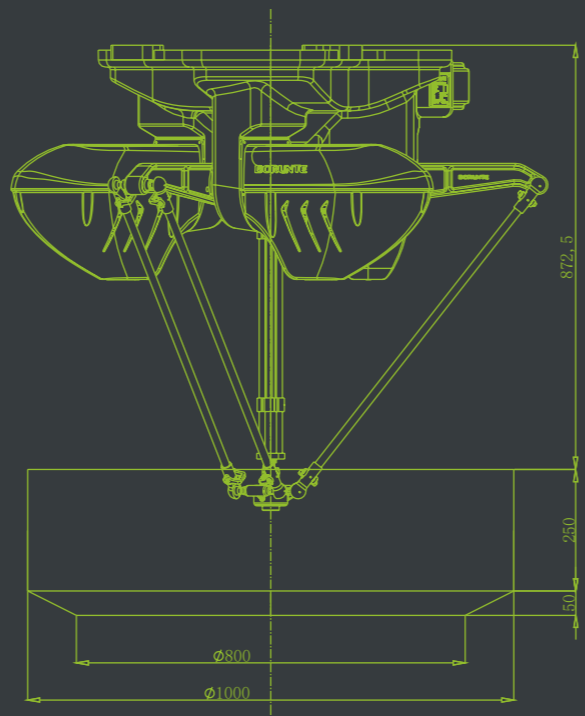
BRTIRPZ1508A/BRTIRPC1508A applies full servo motor drive with fast response and high position accuracy. The maximum load is 8KG, the maximum arm length is 1500mm. Compact structure achieves a wide range of movements, flexible sports, precise.

Suitable for dangerous and harsh environments, such as stamping, pressure casting, heat treatment, welding, painting, plastic molding, machining and simple assembly processes. And in the atomic energy industry, completing the handling of hazardous materials and others. It is suitable for punching.

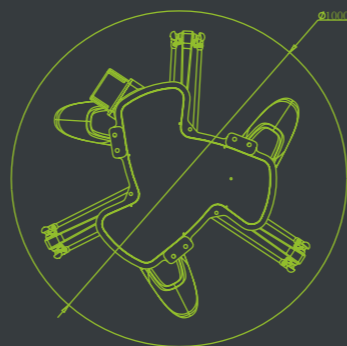
**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	R34					
BRTIRPZ1508A	臂展 Arm Length	地面-2轴距417mm	2-3轴距600mm	3-4轴距600mm				1500mm	8KG	±0.05mm	3.3KVA	约135KG
	范围 Range(#°)	±160°	-70°/+23°	-70°/+30°	±360°		60°-165°					
	最大速度 (#°/S)	220°/s	220°/s	270°/s	410°/s							
BRTIRPC1508A	范围 Range(#°)	±160°	-70°/+23°	-70°/+30°	±90°	±360°	60°-165°	1500mm	8KG	±0.05mm	3.9KVA	约140KG
	最大速度 (#°/S)	220°/s	220°/s	270°/s	410°/s	410°/s						

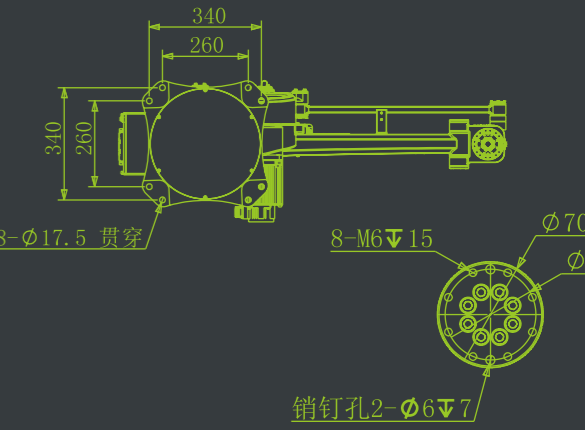
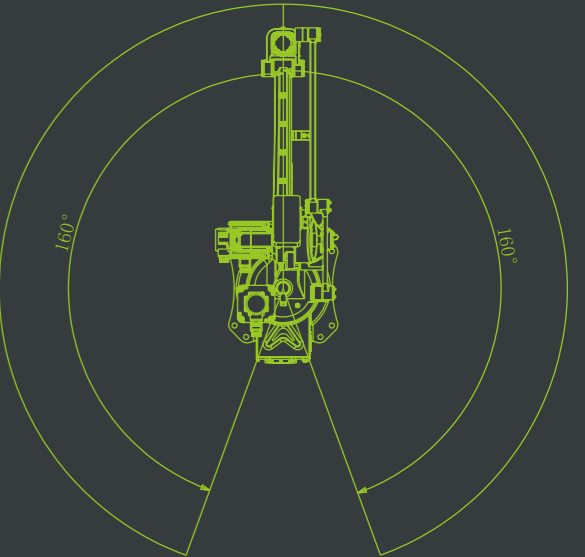
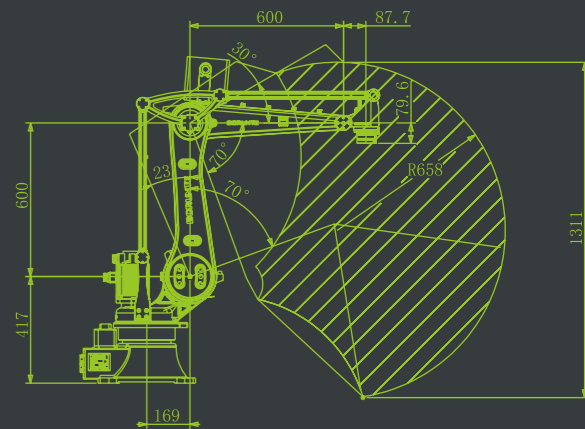
因改良等原因,规格及外观有所变更时,不再另行通知,敬请谅解。  
Without further nitice if specification and exterior have been changed because of improvement.Thanks for your understanding.



工作行程



末端法兰安装尺寸



销钉孔2-Ø6√7

产品特征 Product Features

BRTIRPZ1825A是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业，或是危险、恶劣环境下的作业等而开发的一款四轴码垛机器人，其拥有1800mm臂展，最大负载可达25kg。具有多自由度的灵活性，对上下料、搬运、拆垛、码垛等场景能够应对自如。防护等级高-IP54，防尘防水，精度高一重复定位精度±0.08mm

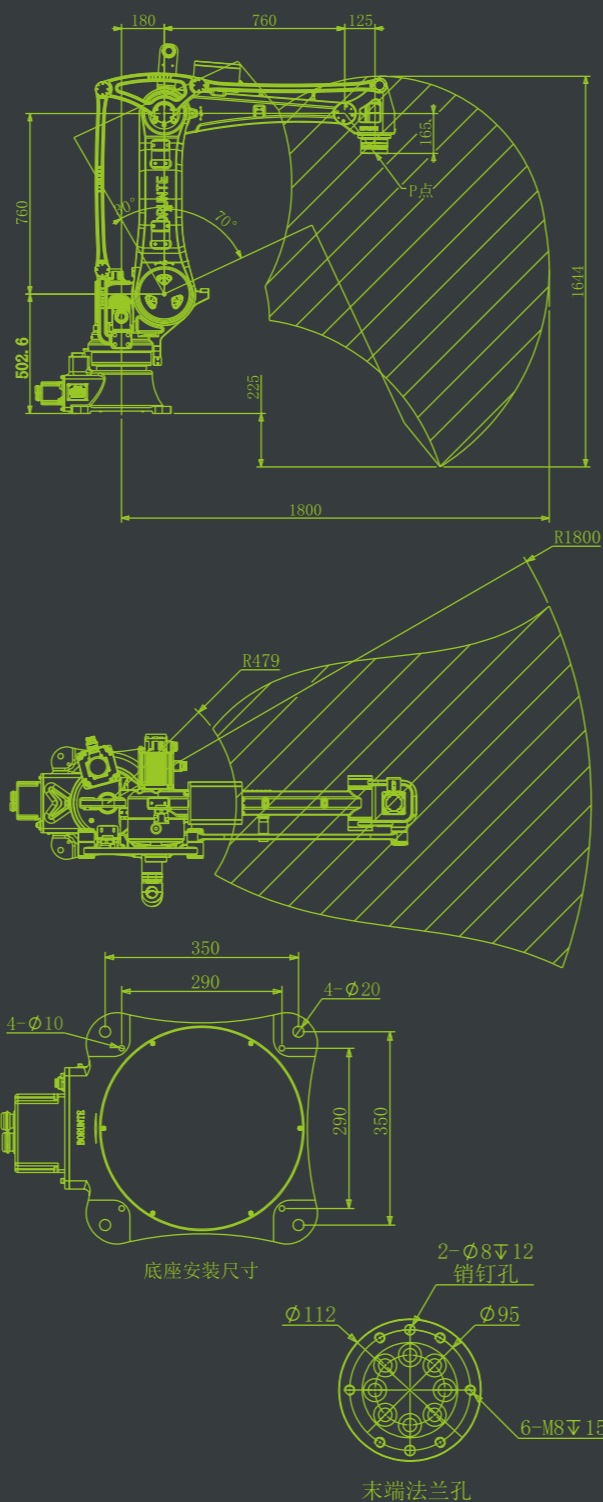
BRTIRPZ1825A type robot is a four-axis stacking robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 1800mm. The maximum load is 25KG. It's flexible with multiple degrees of freedom. Suitable for loading and unloading, handling, dismantling and stacking etc. The protection grade reaches IP54. Dust-proof, waterproof. The repeat positioning accuracy is ±0.08mm.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist		臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	R34					
BRTIRPZ1825A	臂展 Arm Length(mm)	地面-2轴 距502.6mm		2-3轴距 760mm			1800mm	25KG	±0.08mm	5.2KVA	约256KG
	范围 Range(°)	±160°	-70°/+30°	-65°/+25°	±360°	67°-175°					
	最大速度 Max.Speed (°/S)	175°/s	135°/s	185°/s	300°/s						

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产品特征 Product Features

BRTIRPZ2250A是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业，或是危险、恶劣环境下的作业等而开发的一款四轴码垛机器人，其拥有2200mm臂展，最大负载可达50kg。具有多自由度的灵活性，对上下料、搬运、拆垛、码垛等场景能够应对自如。防护等级高-IP54，防尘防水，精度高一重复定位精度±0.1mm

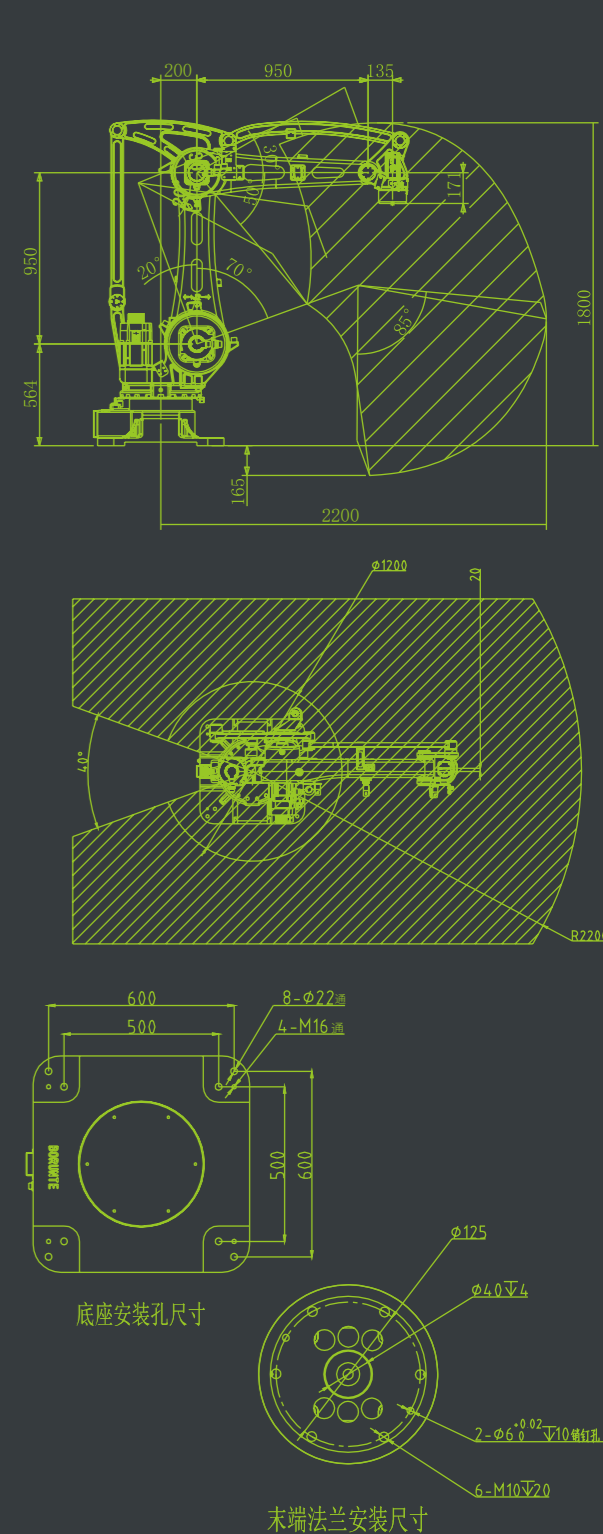
BRTIRPZ2250A type robot is a stacking robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 2200mm. The maximum load is 50KG. It's flexible with multiple degrees of freedom. Suitable for loading and unloading, handling, dismantling and stacking etc. The protection grade reaches IP54. Dust-proof, waterproof. The repeat positioning accuracy is ±0.1mm.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist		臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	R34					
BRTIRPZ2250A	臂展 Arm Length(mm)	地面-2轴 距564mm	2-3轴距 950mm	3-4轴距 950mm	4轴-端面距 135mm		2200mm	50KG	±0.1mm	14.8KVA	约560KG
	范围 Range(°)	±160°	-70°/+20°	-50°/+30°	±360°	65°-160°					
	最大速度 Max.Speed (°/S)	84°/s	70°/s	108°/s	198°/s						

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产品特点 Product Features

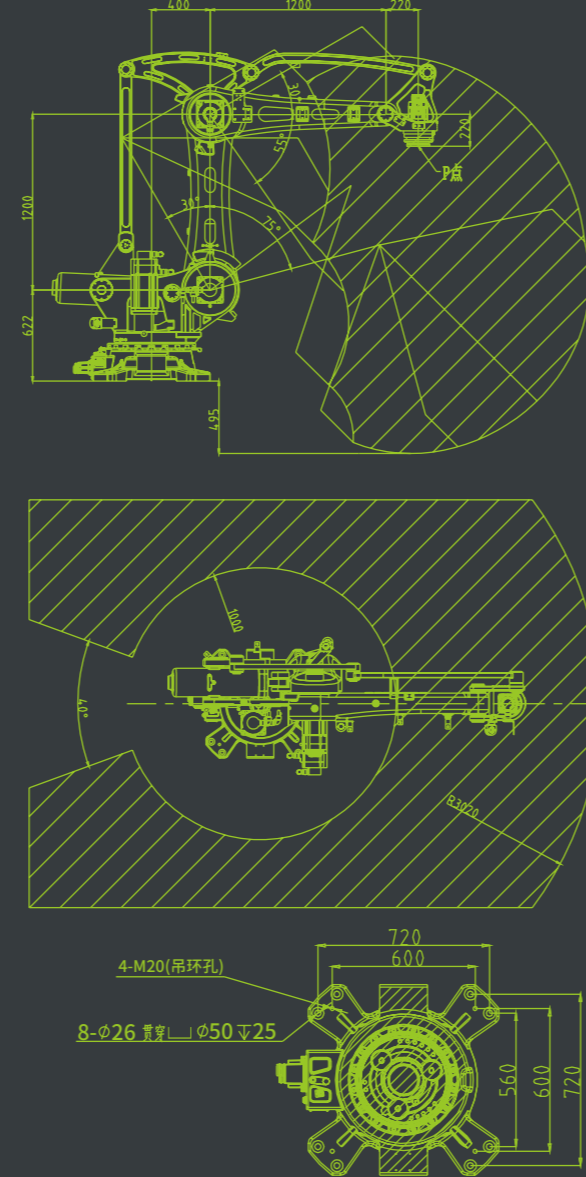
BRTIRPZ3013A是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业,或是危险、恶劣环境下的作业等而开发的一款四轴码垛机器人,其拥有3020mm臂展,最大负载可达130kg。具有多自由度的灵活性,对上下料、搬运、拆垛、码垛等场景能够应对自如。防护等级高-IP54,防尘防水精度高一重复定位精度±0.15mm

BRTIRPZ3013A type robot is a stacking robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 3020mm. The maximum load is 130KG.It's flexible with multiple degrees of freedom. Suitable for loading and unloading, handling,dismantling and stacking etc. The protection grade reaches IP54.Dust-proof, waterproof. The repeat positioning accuracy is ±0.15mm.

**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist		臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	R34					
BRTIRPZ3013A	臂展 Arm Length(mm)	地面-2轴距621.5mm	2-3轴距1200mm	3-4轴距1200mm			3020mm	130KG	±0.15mm	21KVA	约1200KG
	范围 Range(#°)	±160°	+30°/ 75°	+30°/-55°	±180°	65°-160°					
	最大速度 Max.Speed (#°/S)	57°/s	53°/s	53°/s	150°/s						

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产品特点 Product Features

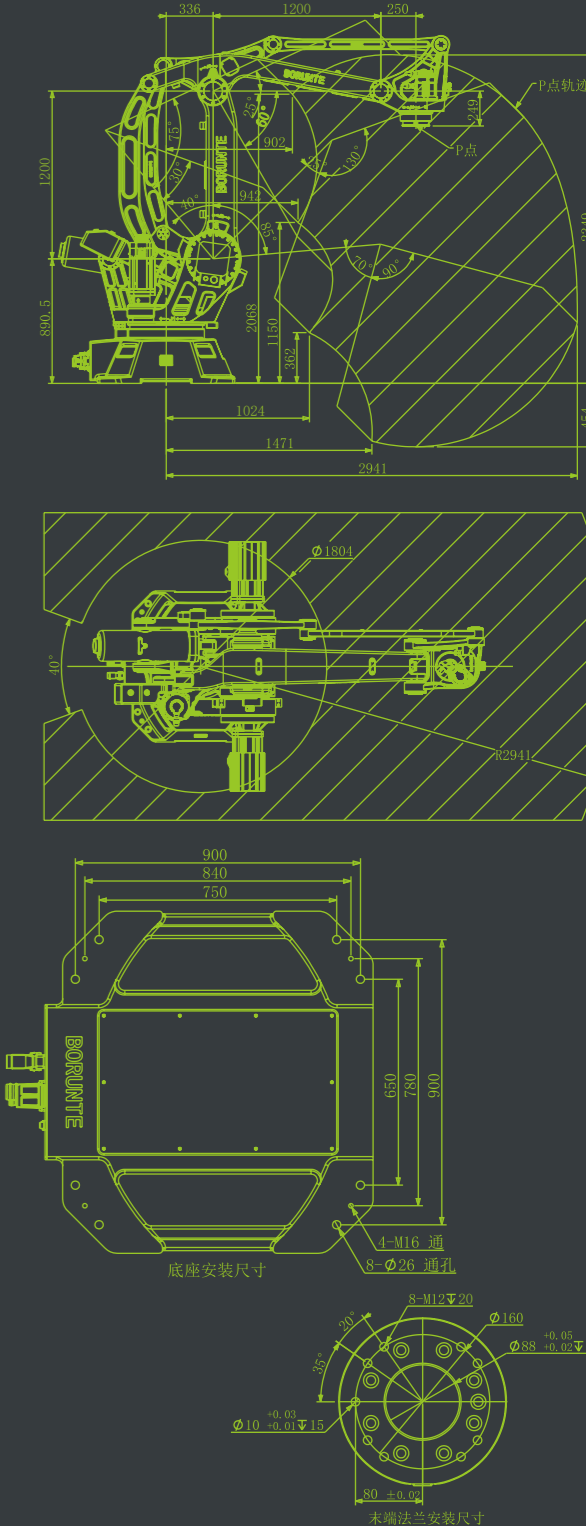
BRTIRPZ3030B是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业,或是危险、恶劣环境下的作业等而开发的一款四轴码垛机器人,其拥有2950mm臂展,最大负载可达300kg。具有多自由度的灵活性,对上下料、搬运、拆垛、码垛等场景能够应对自如。防护等级高-IP54,防尘防水精度高一重复定位精度±0.2mm

BRTIRPZ3030B type robot is a stacking robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 2950mm. The maximum load is 300KG.It's flexible with multiple degrees of freedom. Suitable for loading and unloading, handling,dismantling and stacking etc. The protection grade reaches IP54.Dust-proof, waterproof. The repeat positioning accuracy is ±0.2mm.

**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist		臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	R34					
BRTIRPZ3030B	臂展 Arm Length(mm)	地面-2轴距890.5mm	2-3轴距1200mm	3-4轴距1200mm	4轴-端面距250mm		2950mm	300KG	±0.2mm	33KVA	约2550KG
	范围 Range(#°)	±160°	-85°/+40°	-60°/+25°	±360°	75°-160°					
	最大速度 Max.Speed (#°/S)	53°/s	63°/s	63°/s	150°/s						

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产品特点 Product Features

BRTIRUS0805A型机器人是伯朗特机器人第三代, 整个系统操作简单, 结构紧凑, 定位精度高, 动态性能好, 其5kg的负载能力尤其适用于注塑、取件、冲压、搬运、上下料、装配等领域适用于注塑30T-250T

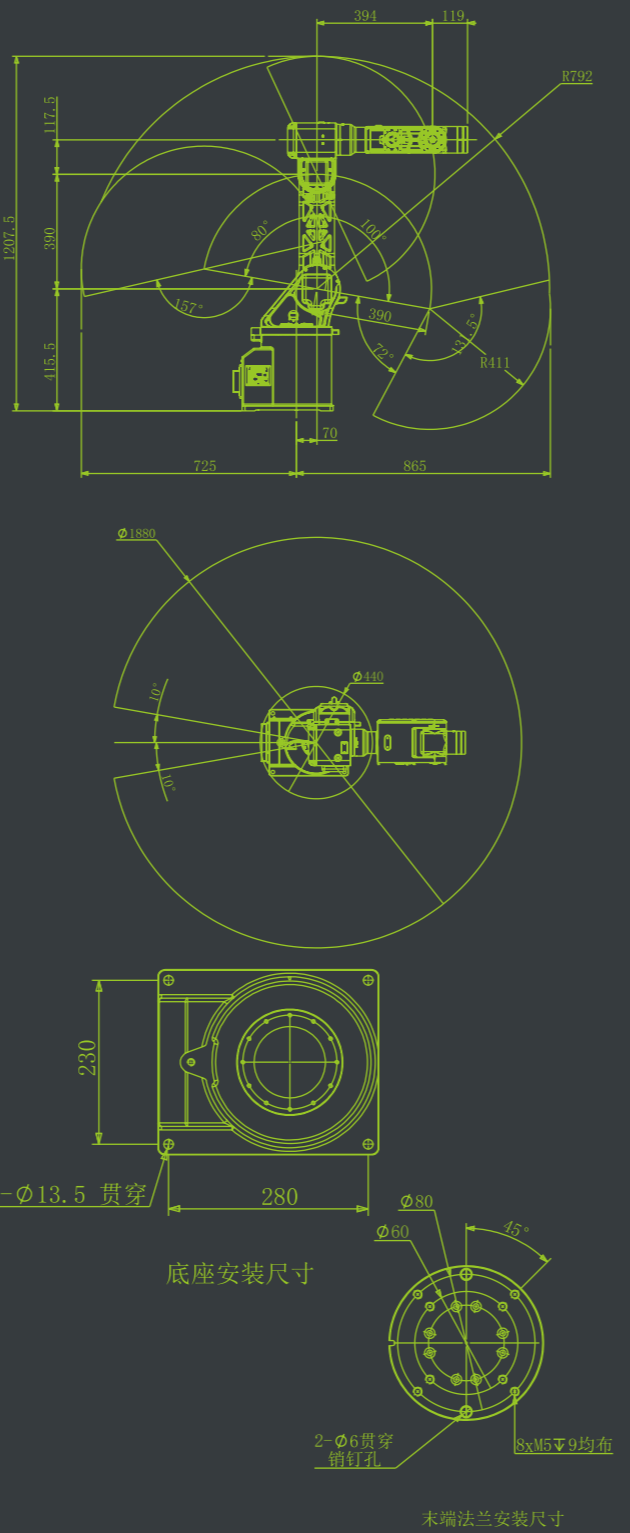
BRTIRUS0805A type robot is BORUNTE'S the third generation of robots. The whole operation system is simple, compact structure, high position accuracy and has good dynamic performance. The load ability is 5kg, especially suitable for injection molding, taking, stamping, handling, loading and unloading, assembly, etc. It is suitable for injection molding machine range from 30Ton to 250Ton.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS0805A	臂展 Arm Length(mm)	地面-2轴 距415.5mm		2-3轴距 390 mm		3-5轴距 394mm	5轴-端面距 119mm	940mm	5KG	±0.05mm	2.8KVA	约53KG
	范围 Range(#°)	±170°	-100°/+80°	-80°/+95°	±180°	±120°	±360°					
	最大速度 Max.Speed (#°/S)	266°/s	297°/s	300°/s	333°/s	500°/s	500°/s					

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产品特点 Product Features

BRTIRUS0707A是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业, 或是危险、恶劣环境下的作业等而开发的一款六轴工业机器人, 其拥有700mm臂展, 最大负载可达7kg。具有多自由度的灵活性, 对打磨、装配、喷涂等场景能够应对自如。防护等级高-IP67, 防尘防水 精度高-重复定位精度±0.03mm

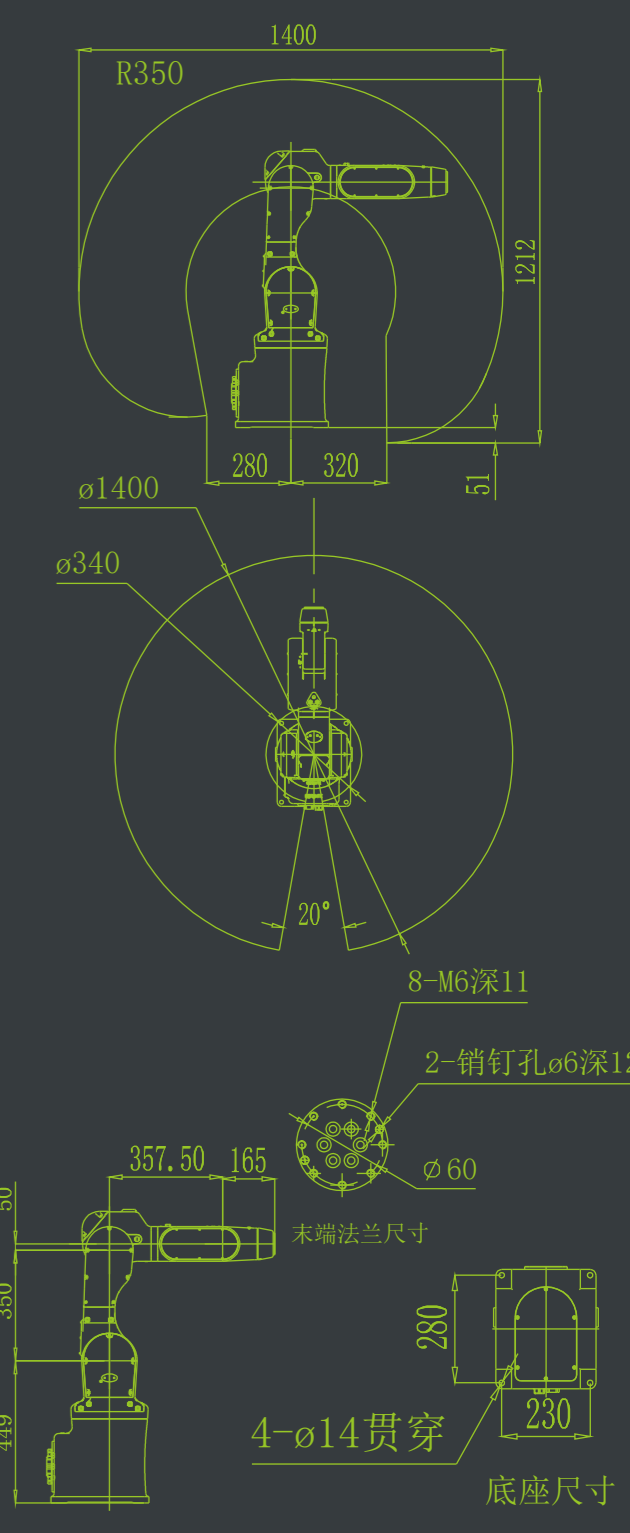
BRTIRUS0707A type robot is a six axis robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 700mm. The maximum load is 7KG. It's flexible with multiple degrees of freedom. Suitable for polishing, assembling, painting, etc. The protection grade reaches IP67. Dust-proof, waterproof. The repeat positioning accuracy is ±0.03mm.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS0707A	臂展 Arm Length(mm)	地面-2轴 距449mm		2-3轴距 350mm		3-5轴距 357.5mm	5轴-端面距 165mm	700mm	7KG	±0.03mm	3.12KVA	约56KG
	范围 Range(#°)	±170°	±100°	-60°/+140°	±180°	±115°	±360°					
	最大速度 Max.Speed (#°/S)	266°/s	300°/s	375°/s	330°/s	300°/s	375°/s					

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产品特点 Product Features

BRTIRUS1510A是伯朗特机器人股份有限公司针对多自由度的复杂应用而开发的六轴机器人,其最大负载可达10kg,拥有1500mm臂展。采用轻量化手臂设计,机械结构紧凑、简洁,在高速运动状态下,能够在狭小工作空间内进行灵活作业,满足柔性化生产需要。具有六个自由度的灵活性,对上下料、注塑、压铸、装配、涂胶、打磨、检测等场景能够随心所欲。  
防护等级高—IP54,防尘防水  
精度高—重复定位精度±0.05mm  
操作简单—采用华成控制系统  
适用于注塑机:200T-600T

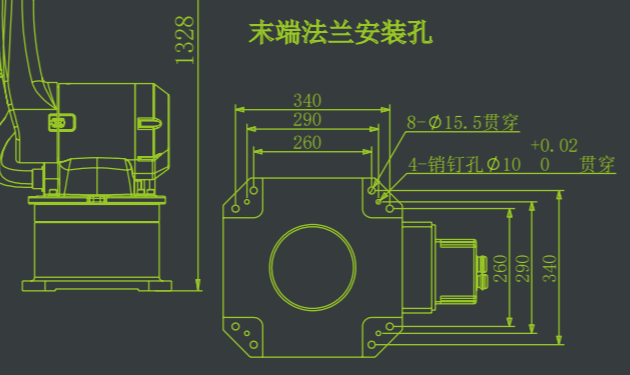
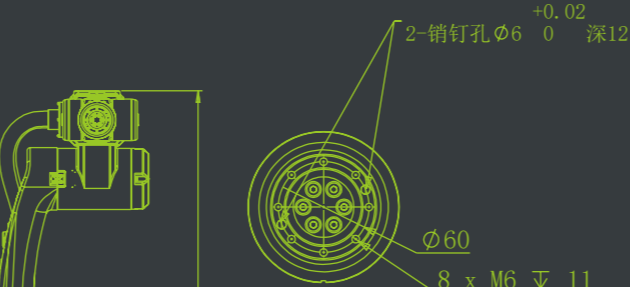
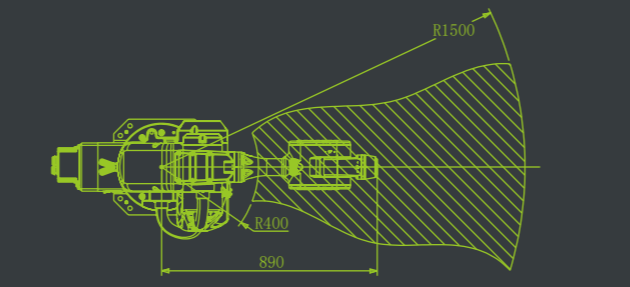
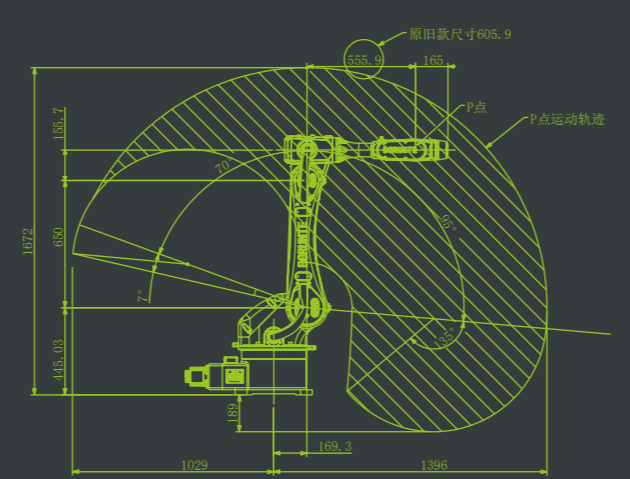
BRTIRUS1510A is a six-axis robot developed by BORUNTE ROBOT Co.,Ltd. for complex applications with multiple degrees of freedom.The maximum load is 10KG, the maximum arm length is 1500mm. Lightweight arm design, compact mechanical structure, simple, in the state of high speed movement, can be carried out in a small workspace flexible work, meet the needs of flexible production. It has six degrees of flexibility.Suitable for painting, welding, molding, stamping, forging, handling, loading, assembling, etc. The protection grade reaches IP54.Dust-proof, waterproof. The repeat positioning accuracy is ±0.05mm. It adopts HC control system. It is suitable for injection molding machine range from 200Ton to 600Ton.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS1510A	臂展 Arm Length(mm)	地面-2轴 距488mm		2-3轴距 650mm		3-5轴距 634.4mm	5轴-端面距 117mm	1500mm	10KG	±0.05mm	3.3KVA	约157KG
	范围 Range(#)	±165°	-95°/+70°	-85°/+75°	±180°	±115°	±360°					
	最大速度 Max.Speed (#°/s)	148°/s	148°/s	223°/s	250°/s	270°/s	337°/s					

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底座安装孔

产品特点 Product Features

BRTIRWD1506A是伯朗特机器人股份有限公司针对焊接应用行业开发的六轴机器人。机器人结构紧凑、体积小、重量轻、最大负载6KG、臂展1500mm。腕部采用中空结构,走线更方便、动作更灵活。  
防护等级高—IP54,防尘防水  
精度高—重复定位精度±0.05mm

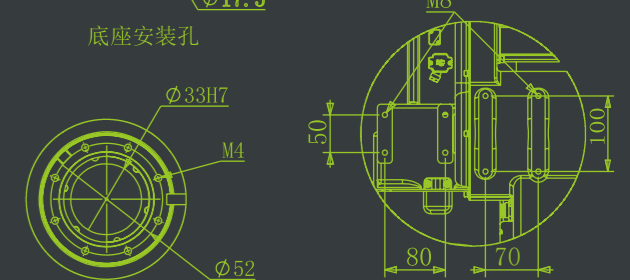
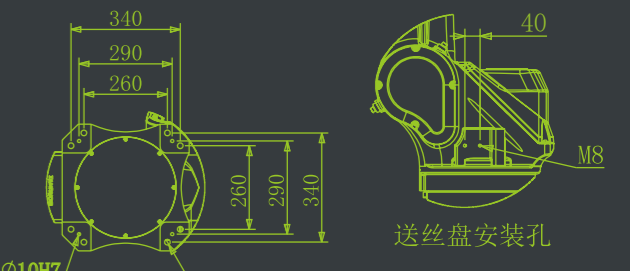
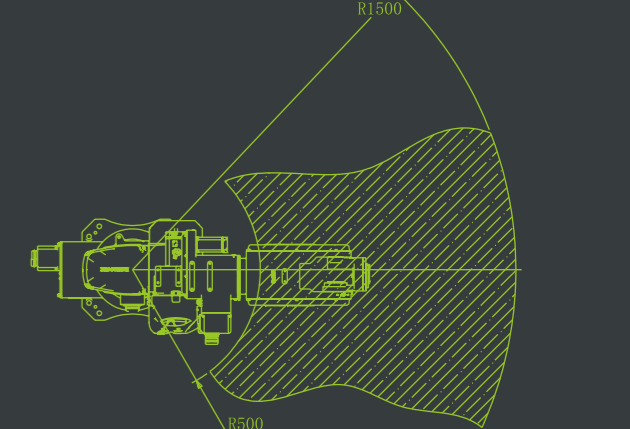
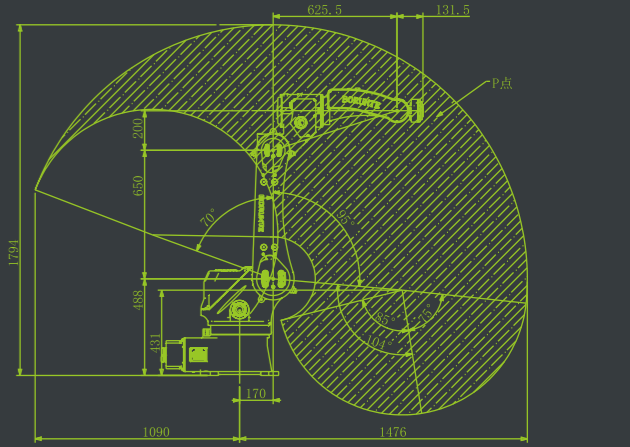
BRTIRWD1506A six axis industrial robot is BORUNTE ROBOT Co.,Ltd. designed for the development of the welding application industry. The robot has compact structure, small volume and light weight. The maximum load is 6KG, the maximum arm length is 1500mm. The wrist applies hollow structure with more convenient trace and flexible action. The protection grade reaches IP54. Dust-proof, waterproof.The repeat positioning accuracy is ±0.05mm.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repeatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRWD1506A	臂展 Arm Length(mm)	地面-2轴 距488mm		2-3轴距 650mm		3-5轴距 625.5mm	5轴-端面距 131.5mm	1500mm	6KG	±0.05mm	3.25KVA	约170KG
	范围 Range(#)	±165°	-95°/+70°	-85°/+75°	±150°	±110°	±360°					
	最大速度 Max.Speed (#°/s)	163°/s	148°/s	223°/s	95°/s	280°/s	300°/s					

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产品特点 Product Features

BRTIRUS2110A是伯朗特机器人股份有限公司针对焊接应用行业开发的一款六轴工业机器人,其拥有2110mm长臂展,最大负载可达10kg,具有六个自由度的灵活性,对焊接、上下料、装配等场景能够应对自如。防护等级高-IP54,防尘防水 精度高-重复定位精度±0.05mm

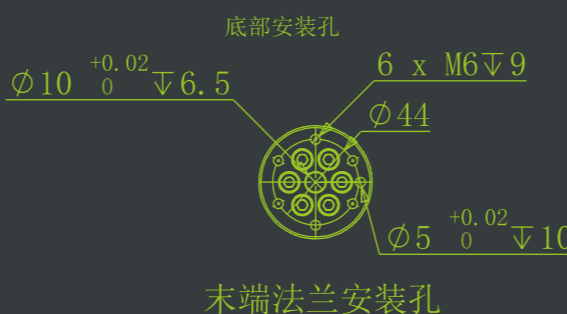
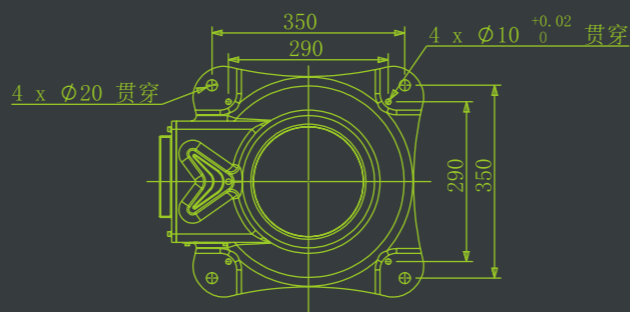
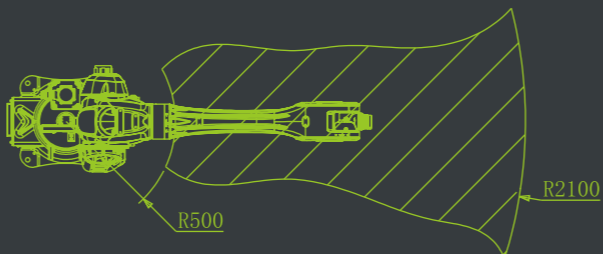
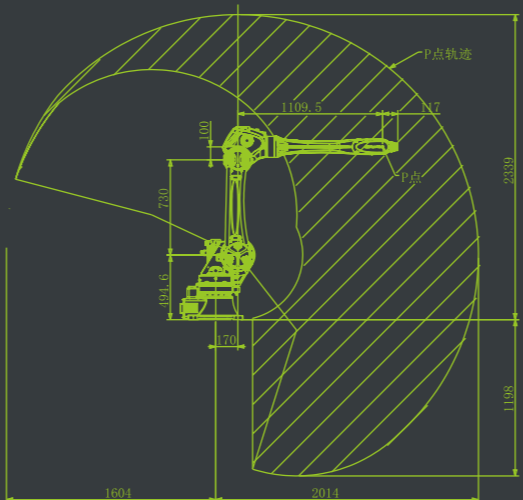
BRTIRUS2110A type robot is a six axis robot that designed for the development of the welding application industry. The maximum arm length is 2110mm. The maximum load is 10KG. It has six degrees of flexibility. Suitable for welding, loading and unloading, assembling etc. The protection grade reaches IP54. Water and dust resistant. The repeat positioning accuracy is ±0.05mm.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS2110A	臂展 Arm Length(mm)	地面-2轴 距494.6mm		2-3轴距 730mm		3-5轴距 1109.5mm	5轴-端面距 117mm	2100mm	10KG	±0.05mm	5.9KVA	约230KG
	范围 Range(#°)	±155°	-140°/+65°	-75°/+110°	±180°	±115°	±360°					
	最大速度 Max.Speed (#°/S)	110°/s	146°/s	134°/s	273°/s	300°/s	336°/s					

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产品特点 Product Features

BRTIRUS1820A是伯朗特机器人股份有限公司针对多自由度的复杂应用而开发的六轴机器人,其最大负载可达20kg,拥有1850mm臂展。采用轻量式手臂设计,机械结构紧凑、简洁,在高速运动状态下,能够在狭小工作空间内进行灵活作业,满足柔性化生产需要。具有六个自由度的灵活性,对上下料、注塑、压铸、装配、涂胶、打磨、检测等场景能够随心所欲。防护等级高-IP54,防尘防水 精度高-重复定位精度±0.05mm 适用于注塑机:500T-1300T

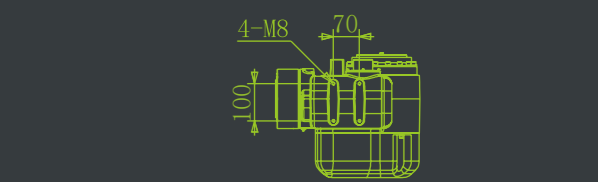
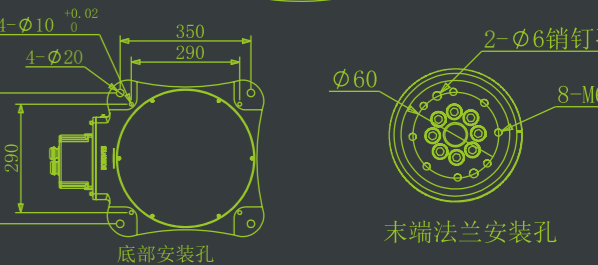
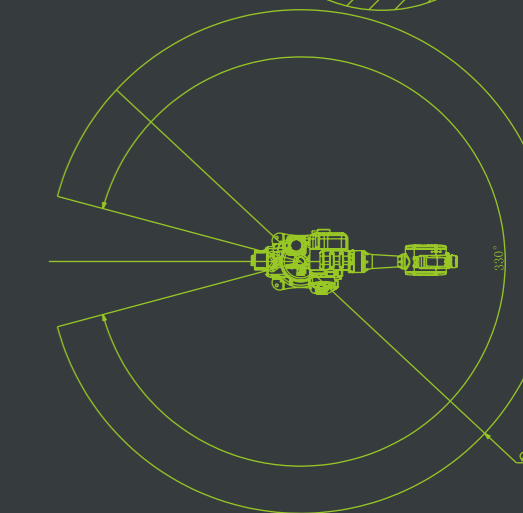
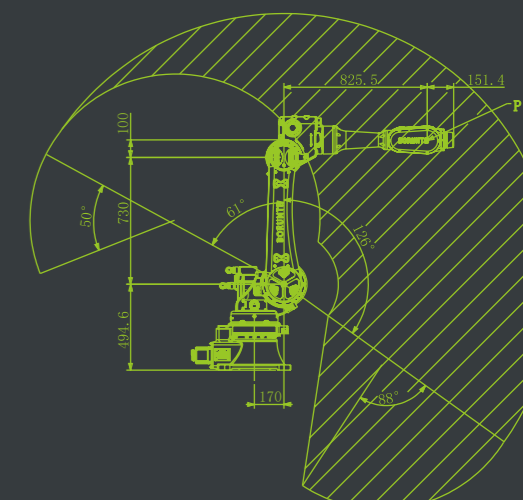
BRTIRUS1820A is a six-axis robot developed by BORUNTE ROBOT Co.,Ltd. for complex applications with multiple degrees of freedom. The maximum load is 20KG, the maximum arm length is 1850mm. Lightweight arm design, compact mechanical structure, simple, in the state of high speed movement, can be carried out in a small workspace flexible work, meet the needs of flexible production. It has six degrees of flexibility. Suitable for loading and unloading, injection machine, die casting, assembling, coating industry, polishing, detection etc. The protection grade reaches IP54. Water and dust resistant. The repeat positioning accuracy is ±0.05mm. It is suitable for injection molding machine range from 500 Ton to 1300 Ton.



**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS1820A	臂展 Arm Length(mm)	地面-2轴 距494.6mm		2-3轴距 730mm		3-5轴距 825.5mm	5轴-端面距 117mm	1850mm	20KG	±0.05mm	6.2KVA	约230KG
	范围 Range(#°)	±165°	-130°/+60°	-75°/+135°	±180°	±115°	±360°					
	最大速度 Max.Speed (#°/S)	122°/s	162°/s	136°/s	273°/s	300°/s	375°/s					

因改良等原因,规格及外观有所变更时,不再另行通知,敬请谅解。  
Without further notice if specification and exterior have been changed because of improvement.Thanks for your understanding.



礼品推荐 Product Features

BRTIRUS2030A是伯朗特机器人股份有限公司针对多自由度复杂应用而开发的六轴工业机器人。其最大负载可达30KG,拥有2058mm臂展,六自由度的灵活性对注塑件取件、机床上下料、装配、搬运等场景能够应对自如。

BRTIRUS2030A is a six-axis robot developed by BORUNTE ROBOT Co.,Ltd. for complex applications with multiple degrees of freedom. The maximum load is 30KG and the maximum arm length is 2058mm. The flexibility of six degrees of freedom can be used to handle the scenes such as injection parts taking, machine loading and unloading, assembly and handling.



**主要规格 Main Specification**

产品型号 Model	项目 Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复方位精度 Repatibility	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS2030A	臂展 Arm Length(mm)	地面-2轴距 540.6mm		2-3轴距 800mm	3-5轴距 930.5mm	5轴-端面 轴距148mm		2058mm	30KG	±0.05mm	8.83KVA	330KG
	范围 Range(#°)	±150°	-90°/+70°	-60°/+105°	±180°	±120°	±360°					
	最大速度 Max.Speed(#°/s)	102°/s	96°/s	108°/s	300°/s	240°/s	300°/s					

因改良等原因,规格及外观有所变更时,不再另行通知,敬请谅解。  
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礼品推荐 Product Features

BRTIRUS2550A是伯朗特机器人股份有限公司针对多自由度的复杂应用而开发的一款六轴工业机器人,其拥有2550mm超长臂展,最大负载可达50kg.具有六个自由度的灵活性,对上下料、装配、注塑等场景能够应对自如。防护等级高-IP54,防尘防水 精度高-重复定位精度±0.1mm

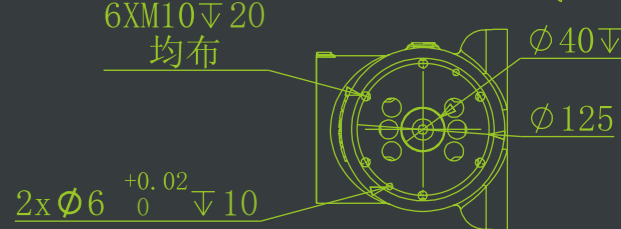
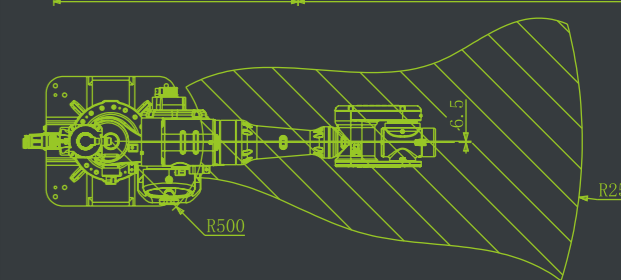
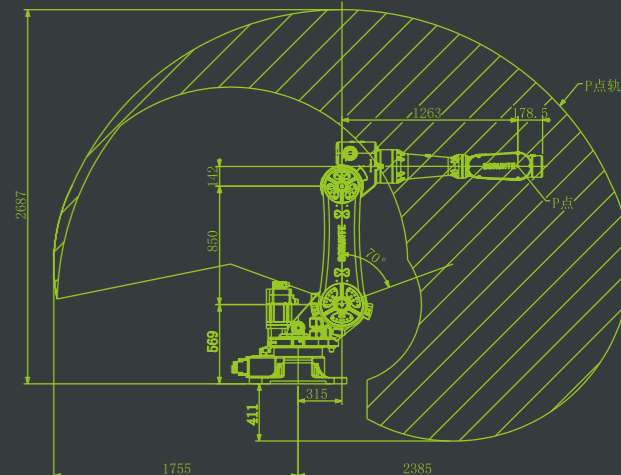
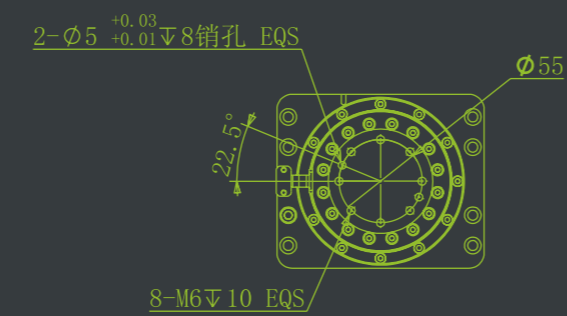
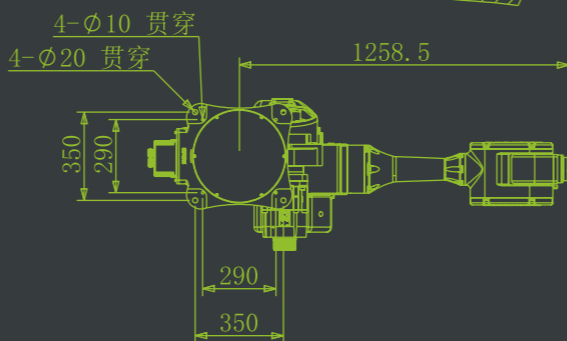
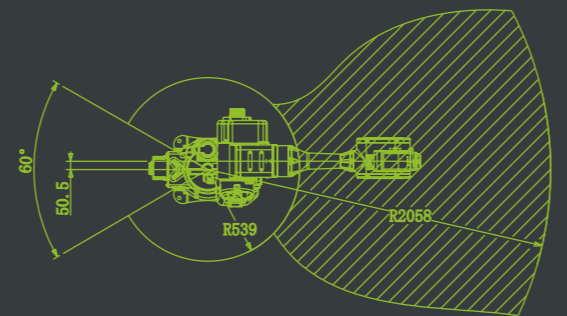
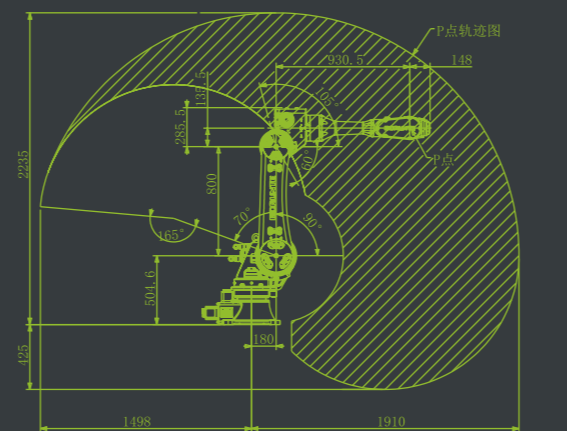
BRTIRUS2550A type robot is a six axis robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 2550mm. The maximum load is 50KG.It has six degrees of flexibility. Suitable for loading and unloading, assembling, molding,stacking etc. The protection grade reaches IP54. Water and dust resistant.The repeat positioning accuracy is ±0.1mm.



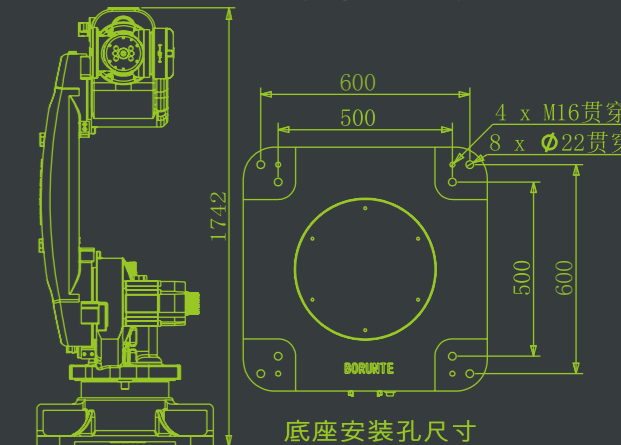
**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repatibility	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS2550A	臂展 Arm Length(mm)	地面-2轴距 569mm		2-3轴距 850mm	3-5轴距 1263mm	5轴-端面距 178.5mm		2550mm	50KG	±0.1mm	16.7KVA	约725KG
	范围 Range(#°)	±160°	±70°	-75°/+115°	±180°	±125°	±360°					
	最大速度 Max.Speed (#°/S)	84°/s	52°/s	52°/s	245°/s	223°/s	223°/s					

因改良等原因,规格及外观有所变更时,不再另行通知,敬请谅解。  
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**末端法兰安装孔**





BRTIRUS3511A是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业,或是危险、恶劣环境下的作业等而开发的一款六轴通用工业机器人,其拥有3500mm臂展,最大负载可达100kg,具有多自由度的灵活性,对上下料、搬运、码垛等场景能够应对自如。防护等级高-IP54,防尘防水,精度高—重复定位精度±0.2mm

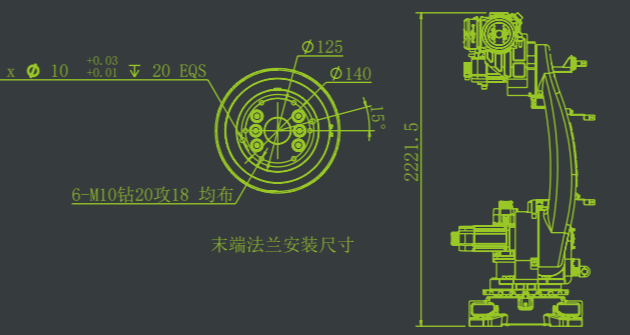
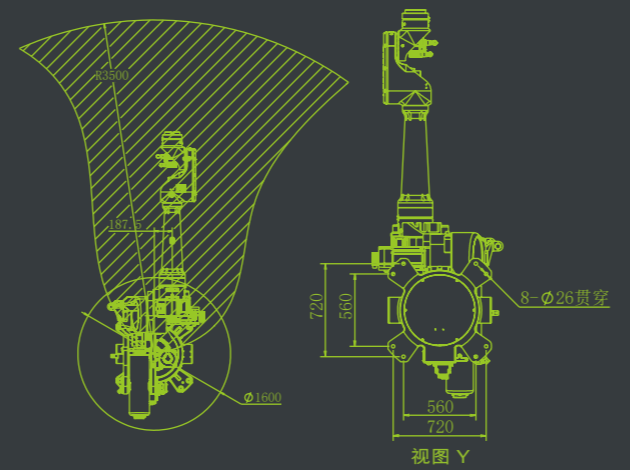
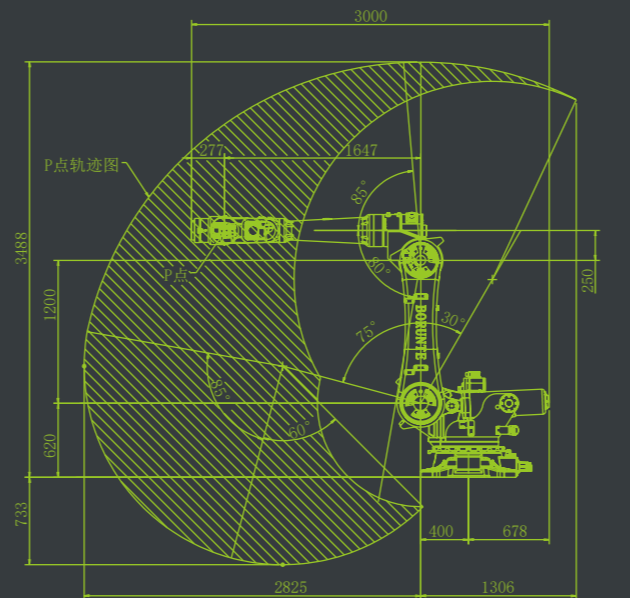
BRTIRUS3511A type robot is a six axis robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 3500mm. The maximum load is 100KG.It's flexible with multiple degrees of freedom. Suitable for loading and unloading, handling, stacking etc. The protection grade reaches IP54. Water and dust resistant. The repeat positioning accuracy is ±0.2mm.

产品特点 Product Features

**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS3511A	臂展 Arm Length(mm)			2-3轴距 1200mm	3-4轴距 250mm	3-5轴距 1647mm	5轴-端面距 277mm	3500mm	100KG	±0.2mm	24.3KVA	约1350KG
	范围 Range(#°)	±160°	-75°/+30°	-80°/+85°	±180°	±95°	±360°					
	最大速度 Max.Speed (#°/S)	85°/s	105°/s	105°/s	102°/s	148°/s	210°/s					

因改良等原因,规格及外观有所变更时,不再另行通知,敬请谅解。  
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BRTIRUS2520B是伯朗特机器人股份有限公司针对某些单调、频繁和重复的长时间作业,或是危险、恶劣环境下的作业等而开发的一款六轴通用工业机器人,其拥有2570mm臂展,最大负载可达200kg,具有多自由度的灵活性,对上下料、搬运、码垛等场景能够应对自如。防护等级高-IP54,防尘防水,精度高—重复定位精度±0.2mm

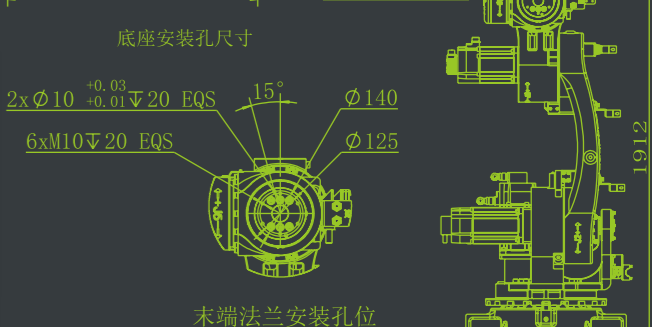
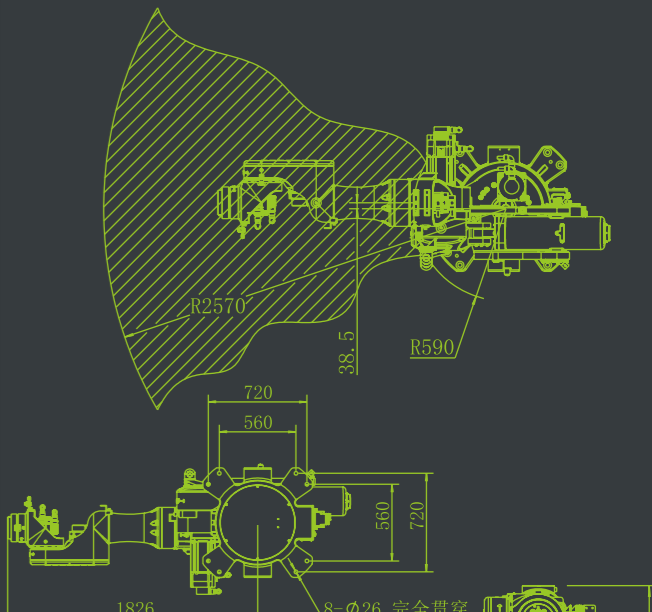
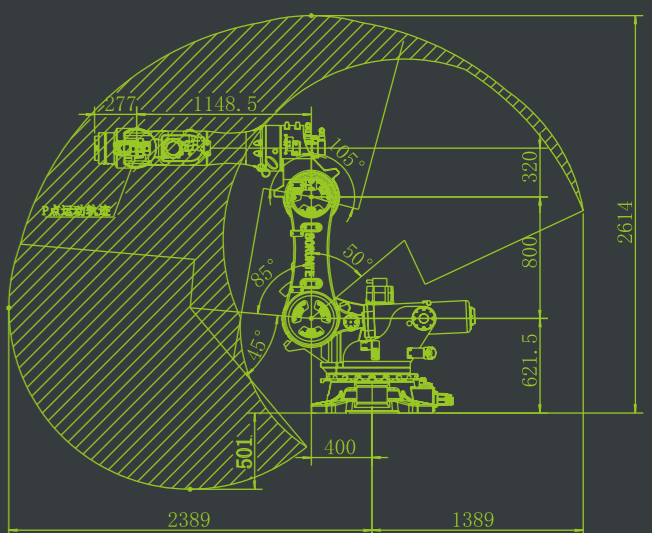
BRTIRUS2520B type robot is a six axis robot that developed for some monotonous, frequent and repetitive long-term operations or operations in dangerous and harsh environments. The maximum arm length is 2570mm. The maximum load is 200KG. It's flexible with multiple degrees of freedom. Suitable for loading and unloading, handling, stacking etc. The protection grade reaches IP54. Water and dust resistant. The repeat positioning accuracy is ±0.2mm.

产品特点 Product Features

**主要规格 Main Specification**

产品型号 Model	项目Item	手臂Arm			手腕Wrist			臂展 Arm Length	负载 Loading ability	重复定位精度 Repatability	电源容量 Power Source	本体重量 Net Weight
		J1	J2	J3	J4	J5	J6					
BRTIRUS2520B	臂展 Arm Length(mm)			2-3轴距 1200mm	3-4轴距 250mm	3-5轴距 1647mm	5轴-端面距 277mm	2570mm	200KG	±0.2mm	25.4KVA	约1320KG
	范围 Range(#°)	±160°	-85°/+50°	-80°/+105°	±180°	±95°	±360°					
	最大速度 Max.Speed (#°/S)	57°/s	63°/s	63°/s	88°/s	94°/s	124°/s					

因改良等原因,规格及外观有所变更时,不再另行通知,敬请谅解。  
Without further nitice if specification and exterior have been changed because of improvement.Thanks for your understanding.





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### 主要规格 Main Specification

机器人示教器参数	
触摸屏规格	800x600, 单点触摸 (电阻屏)
处理器	单核A8 ARM处理器 1GHZ
内存	512MB
接口	USB
键盘	点动(+, -) 16点, 方向键2点, 功能键4点, 可绑定功能键4点
安全开关	急停开关、钥匙模式选择开关、3段位置使能开关
电源	DC24V ±5%
耗电	最大250mA@24V
环境温度	工作时0° C 到+45° C, 存储时-20°C到+70°C
湿度	最大85% (无结露)
尺寸	最大 292mmX222mmX125mm
触摸笔	1支
材质	ABS 红/黑搭配
重量	1.75Kg

驱控一体电控柜参数	
处理器	单核A8 ARM处理器 1GHZ
控制软件	嵌入式Linux + 实时补丁+自主运动控制系统
内存	512MB
控制总线	内部专用总线, 可扩展至8轴
其他总线	modbus RTU主站, modbus RTU/TCP从站
原点指令作用	无
I/O端口	标配32输入32输出, 支持扩展华成I/O板
通讯接口	RS485, CAN, 千兆网络接口(目前可以接入经过华成认证的设备有, 模拟量模块, 编码器模块, 云数据采集模块)
数据采集	可以通过网口接口采集系统状态, 并且有限制地控制系统
二次开发	无
控制轴数	4轴, 6轴, 8轴

单板系统电控柜参数	
处理器	DSP+FPGA 主频150M
控制软件	自主运动控制系统
内存	512KB
控制总线	内部专用总线
其他总线	支持TCP/IP从站
原点指令作用	无
I/O端口	标配32输入32输出, 支持扩展华成I/O板
通讯接口	CAN, 千兆网络接口(目前可以接入经过华成认证的设备有, 模拟量模块, 编码器模块, 云数据采集模块)
数据采集	可以通过网口接口采集系统状态, 并且有限制地控制系统
二次开发	无
控制轴数	4轴, 6轴, 8轴 (更换专用8轴系统)

### BRTYZGT Series 二轴伺服机械手 Two-Axis ServoRod Ladler

¥ 41600 BRTYZGT02S2B  
¥ 46800 BRTYZGT04S2B



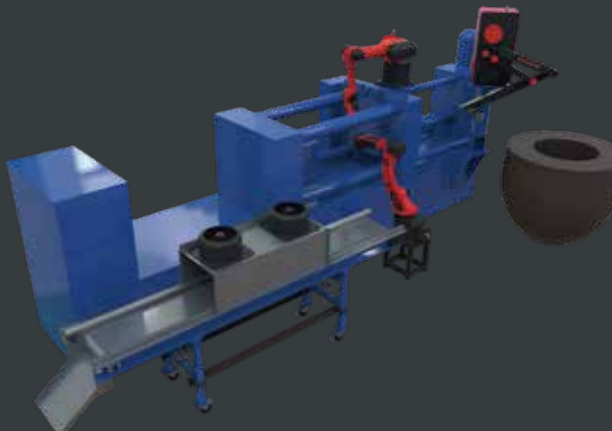
### 主要规格 Main Specification

项目	BRTYZGT02S2B	BRTYZGT04S2B
适应压铸机 Recommended die casting machine	160T-400T	400T-800T
手臂驱动马达 Manipulator Motor Drive	0.75KW	0.75KW
汤勺驱动马达 Tablespoon Motor Drive	0.75KW	0.75KW
手臂减速比 Arm reduction ratio	RV40E 1:153	1:300
汤勺减速比 Ladle reduction ratio	RV20E 1:121	1:60
最大给汤量 Max.loading	4.5KG	12KG
可配汤勺规格 Recommended tablespoon type	0.8KG-4.5KG	4.5KG-12KG
可取汤深度 Tablespoon Max	350mm	450mm
熔炉可配高度 Recommended height for smelter	≤1100mm	≤1100mm
熔炉臂可配厚度 Recommended height for smelter arm	≤450mm	≤500mm
运行周期 Cycle Time	6.23S(待机位前进注汤到注汤完成后退到待机位)	7.3S(待机位前进注汤到注汤完成后退到待机位)
主控电源 Main control power	AC 单相AC220V/50HZ	AC 单相AC220V/50HZ
电源容量 Power Capacity	1.67KVA	1.67KVA
整机尺寸 Dimension	长*宽*高 (1140*680*1400mm)	长*宽*高 (1240*680*1250mm)

### 产品特点 Product Features

采用全新的驱控一体控制系统, 信号线少, 维护简单, 搭配轻巧移动式手持操作器, 参数和功能设定一目了然, 操作简单快捷。整体结构采用伺服马达加RV减速机驱动, 运行更平稳精度更高, 效率更高。

It adopts a new integrated control system with fewer signal lines and simple maintenance. With portable hand type operating device, the parameters and function settings are clear at a glance and the operation is simple and quick. The whole structure is driven by servo motor and RV reducer, which makes the operation more stable, more accurate and more efficient.



# BRTV Series

五轴伺服机械手  
Five-axis servo Robot

¥ 65000    ¥ 78000

**产品特征**  
Product Features

BRTV09WDS5P0/BRTV13WDS5P0系列适用于120T-700T的各型卧式射出机的成品及水口取出, 安装方式与传统式的横走式不同, 是将成品与料头取出放置于射出机尾端, 可以节省出机的安装空间。手臂形式双截式, 分单臂和双臂, 上下行程900mm, 五轴AC伺服驱动, 安装可节省射出机安装空间30-40%, 更充分的利用厂房, 并可增加产能(20-30%), 降低产品的不良率, 保障操作人员的安全性, 减少人工, 精准的控制生产量, 减少浪费。  
五轴驱控一体控制系统: 信号线少, 远距离通讯, 扩展性能好, 抗干扰能力强, 重复定位精度高, 可同时控制多轴, 设备维护简单, 故障率少。

BRTV09WDS5P0/BRTV13WDS5P0 series robot is applicable to all types of horizontal injection machine ranges of 120T-700T for take-out products and sprue. The installation direction is different from traditional beam robot, products are placed at the end of injection molding machines. It has single arm and double arm. Vertical arm is telescopic stage and vertical stroke is 900mm. Five-axis AC servo drive. After install this robot can save 30-40% room to allow better utilization of production space. Furthermore, the productivity will be increased 20-30%, reduce the defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.  
Five-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.



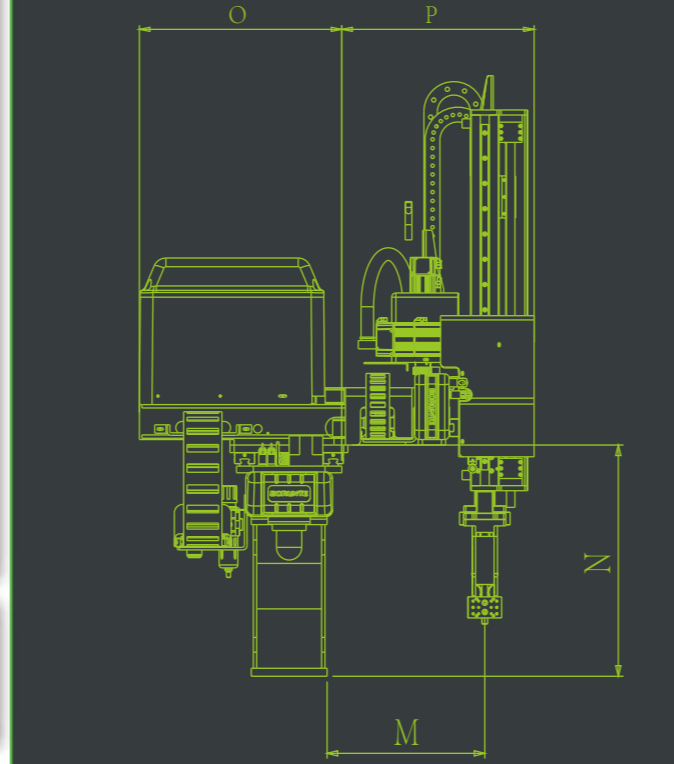
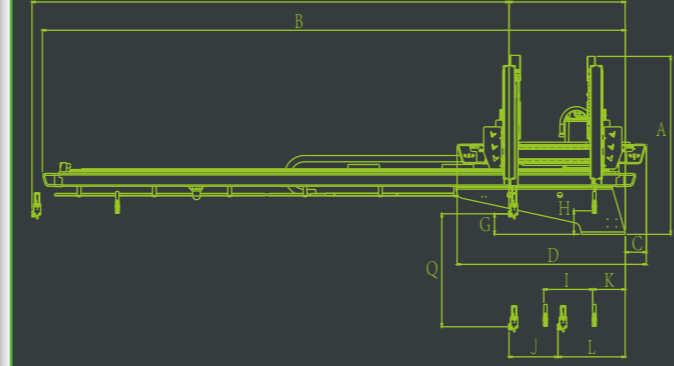
机型Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended I.M.M	横行行程 (mm) Traverser Stroke	驱动方式 Traverser Driven	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (NI/cycle) Air Consumption	净重 (KG) Net Weight
BRTV09WDS5P/F0	3.05	120T-320T	横行拱总长6米以内	AC伺服驱动 AC Servo motor	P:550 R:500	900	8	2.02	37	9	580
BRTV13WDS5P/F0	3.05	320T-700T	横行拱总长7米以内	AC伺服马达 AC Servo motor	P:825 R:755	1300	8	2.3	42	9	720

机型表示: W: 双截式 D: 双臂机械手 (成品臂) S5: 五轴AC伺服马达驱动 (成品臂/料头臂上下、引拔+横行)  
Denote: W: Telescopic type. D: Product arm + runner arm. S5: Five-axis driven by AC Servo Motor.  
上述取物时间, 循环时间为我司内部测试标准测试结果, 在机器实际应用过程中会因实际使用行程, 负载, 调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
BRTV09WDS5P/F0	1550	横行拱总长6米以内	318	特定	特定	特定	163	200	580	550	126	266	370	549	481	特定	980
BRTV13WDS5P/F0	1614	横行拱总长7米以内	162	特定	特定	特定	167.5	191	775	825	253.5	399	特定	594	481	636	1300

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# B RTP Series

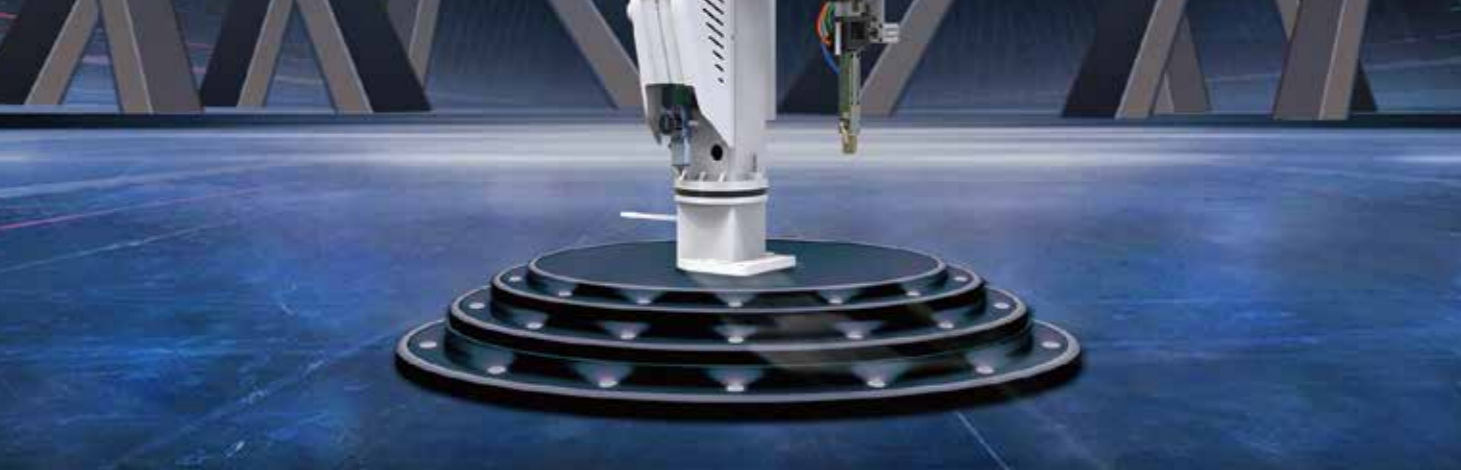
斜臂式机械手  
Swing-arm Robot

¥ 6240

**产品特征**  
Product Features

B RTP06ISS0PC 机型适用于30T-150T的各型卧式射出成型机的成品及水口取出, 上下手臂为单截式, 其上下、引拔、旋出、旋入均采用气压驱动, 速度快, 高效率, 是一款经济实惠型机械手。安装机械手可增加产能(10-30%), 降低产品不良率, 保障操作人员的安全性, 减少人工, 精准控制产量, 减少浪费。

B RTP06ISS0PC swing-arm robot is applicable to all types of horizontal injection machine of 30T-150T for take-out products and sprue. Vertical arm is single type. Its up and down, drawing, spinning out, spinning in are driven by air pressure. High speed, high efficiency. It is an economical manipulator. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.



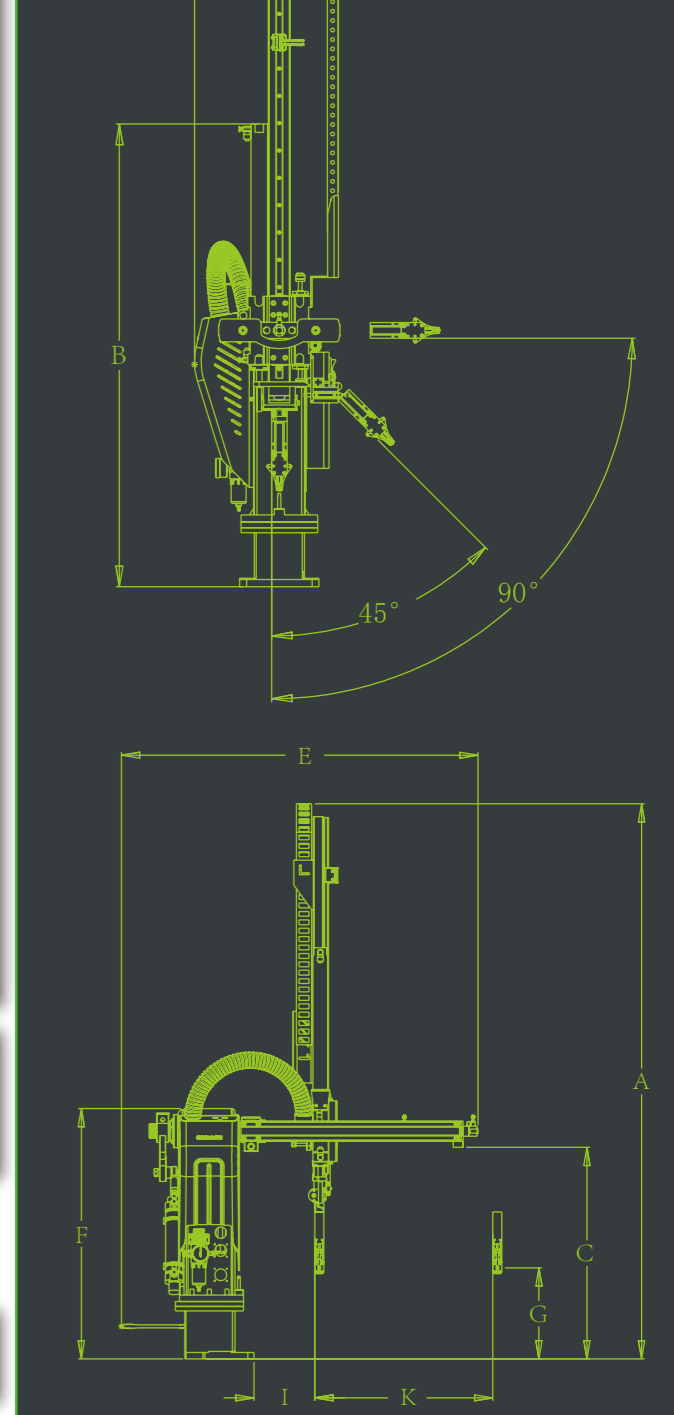
机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended I.M.M	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	放出角度 (degree) Swing Angle	空气消耗量 (NI/cycle) Air Consumption	净重 (KG) Net Weight
B RTP06ISS0PC	0.1	30T-150T	120	650	2	1.6	5.5	30-90	3	36

机型表示: I: 单截式 S: 单臂机械手 (成品臂) S0: 气缸驱动  
Denote: I: Single stage S: Product arm S0: Driven by cylinder  
上述取物时间, 循环时间为我司内部测试标准测试结果, 在机器实际应用过程中会因实际使用行程, 负载, 调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K
B RTP06ISS0PC	1372	1210	530	316	881	/	225	/	50	/	440

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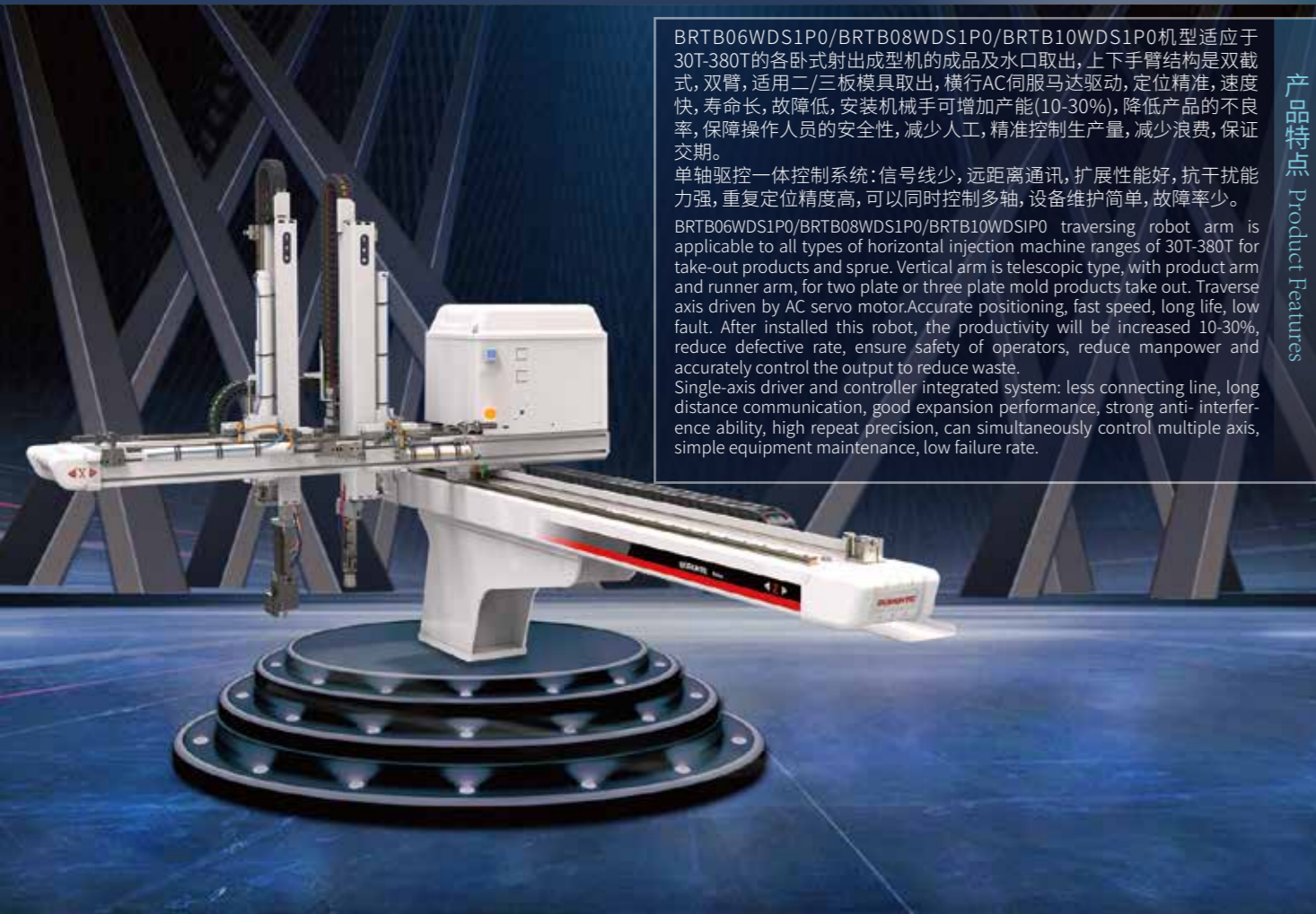
BRTB06WDS1P0/BRTB08WDS1P0/BRTB10WDS1P0机型适用于30T-380T的各卧式射出成型机的成品及水口取出，上下手臂结构是双截式，双臂，适用二/三板模具取出，横行AC伺服马达驱动，定位精准，速度快，寿命长，故障低，安装机械手可增加产能(10-30%)，降低产品的不良率，保障操作人员的安全性，减少人工，精准控制生产量，减少浪费，保证交期。

单轴驱控一体控制系统：信号线少，远距离通讯，扩展性能好，抗干扰能力强，重复定位精度高，可以同时控制多轴，设备维护简单，故障率低。

BRTB06WDS1P0/BRTB08WDS1P0/BRTB10WDS1P0 traversing robot arm is applicable to all types of horizontal injection machine ranges of 30T-380T for take-out products and sprue. Vertical arm is telescopic type, with product arm and runner arm, for two plate or three plate mold products take out. Traverse axis driven by AC servo motor. Accurate positioning, fast speed, long life, low fault. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

Single-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance, strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.

产品特点 Product Features



机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended L.M.M	驱动方式 Travers Drive	治具型式 Model of EOAT	横行行程 (mm) Traverse Stroke	引接行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (Nl/cycle) Air Consumption	净重 (KG) Net Weight
BRTB06WDS1P0/F0	0.4	30T-120T	AC伺服马达 AC Servo motor	一吸一抱	1100	P-300 R:125	600	3	1.6	5.8	3.5	175
BRTB08WDS1P0/F0	0.4	120T-250T	AC伺服马达 AC Servo motor	一吸一抱	1250	P-300 R:125	800	3	1.7	6.49	3.5	198
BRTB10WDS1P0/F0	0.75	250T-380T	AC伺服马达 AC Servo motor	一吸一抱	1600	P-300 R:125	1000	3	1.92	8.16	4.2	221

机型表示: W: 双截式 D: 双臂机械手 (成品臂+料头臂) S1: 横行AC伺服马达驱动

Denote: W: Telescopic type D: Product arm + runner arm S1: AC Servo driven on traverse axis

上述取物时间，循环时间为我司内部测试标准测试结果，在机器实际应用过程中会因实际使用行程，负载，调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
BRTB06WDS1P0/F0	1205	1910	600	403	1100	355	165	210	100	475	300	1075	225	300	933
BRTB08WDS1P0/F0	1340	2061	800	403	1250	355	165	210	135	475	520	1190	225	520	1033
BRTB10WDS1P0/F0	1440	2421	1000	403	1600	355	165	206	135	475	630	1315	255	630	1133

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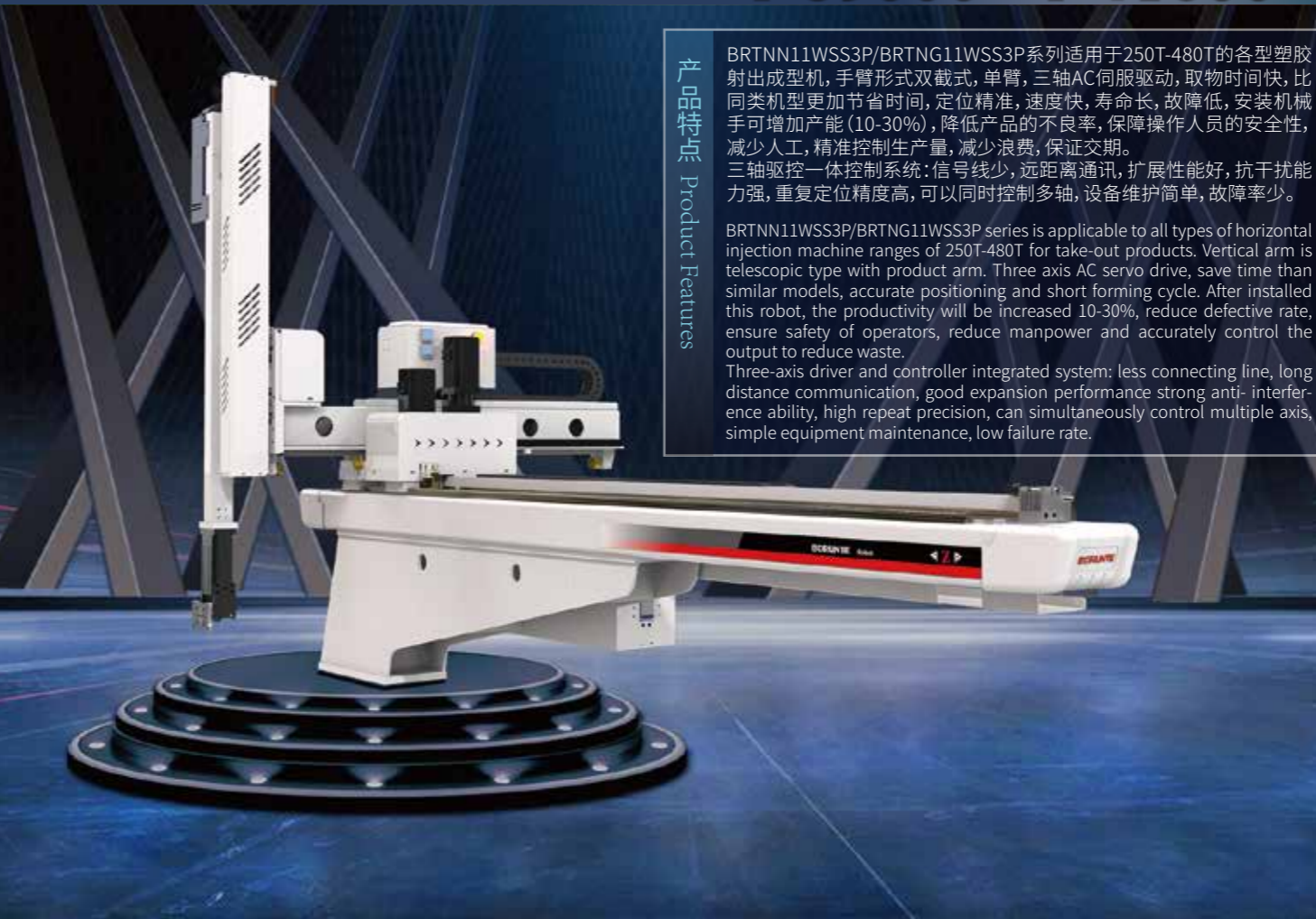
产品特点 Product Features

BRTNN11WSS3P/BRTNG11WSS3P系列适用于250T-480T的各型塑胶射出成型机，手臂形式双截式，单臂，三轴AC伺服驱动，取物时间短，比同类机型更加节省时间，定位精准，速度快，寿命长，故障低，安装机械手可增加产能(10-30%)，降低产品的不良率，保障操作人员的安全性，减少人工，精准控制生产量，减少浪费，保证交期。

三轴驱控一体控制系统：信号线少，远距离通讯，扩展性能好，抗干扰能力强，重复定位精度高，可以同时控制多轴，设备维护简单，故障率低。

BRTNN11WSS3P/BRTNG11WSS3P series is applicable to all types of horizontal injection machine ranges of 250T-480T for take-out products. Vertical arm is telescopic type with product arm. Three axis AC servo drive, save time than similar models, accurate positioning and short forming cycle. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

Three-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.



机型 Model	电源容量 (KVA) power Source	适用成型机 (ton) Recommended L.M.M	驱动方式 Travers Drive	横行行程 (mm) Traverse Stroke	引接行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (Nl/cycle) Air Consumption	净重 (KG) Net Weight
BRTNN11WSS3P/F	2.75	250T-480T	AC伺服马达 AC Servo motor	1700	700	1100	10	1.63	6.15	3.2	305
BRTNG11WSS3P/F	2.75	250T-480T	AC伺服马达 AC Servo motor	1700	700	1100	2	0.87	4.42	3.2	305

机型表示: W: 双截式 S: 单臂机械手 (成品臂) S3: 三轴AC伺服马达驱动 (成品臂上下、引接+横行)

Denote: W: Telescopic stage. S: Product arm S3: Three-axis driven by AC Servo Motor (Traverse-axis, Vertical-axis+Crosswise-axis)

上述取物时间，循环时间为我司内部测试标准测试结果，在机器实际应用过程中会因实际使用行程，负载，调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
BRTNN11WSS3P/F	1485	2510	1100	295	1700	/	181	/	/	1006	/	193	215	700
BRTNG11WSS3P/F	1485	2510	1100	295	1700	/	185	/	/	1006	/	193	200	700

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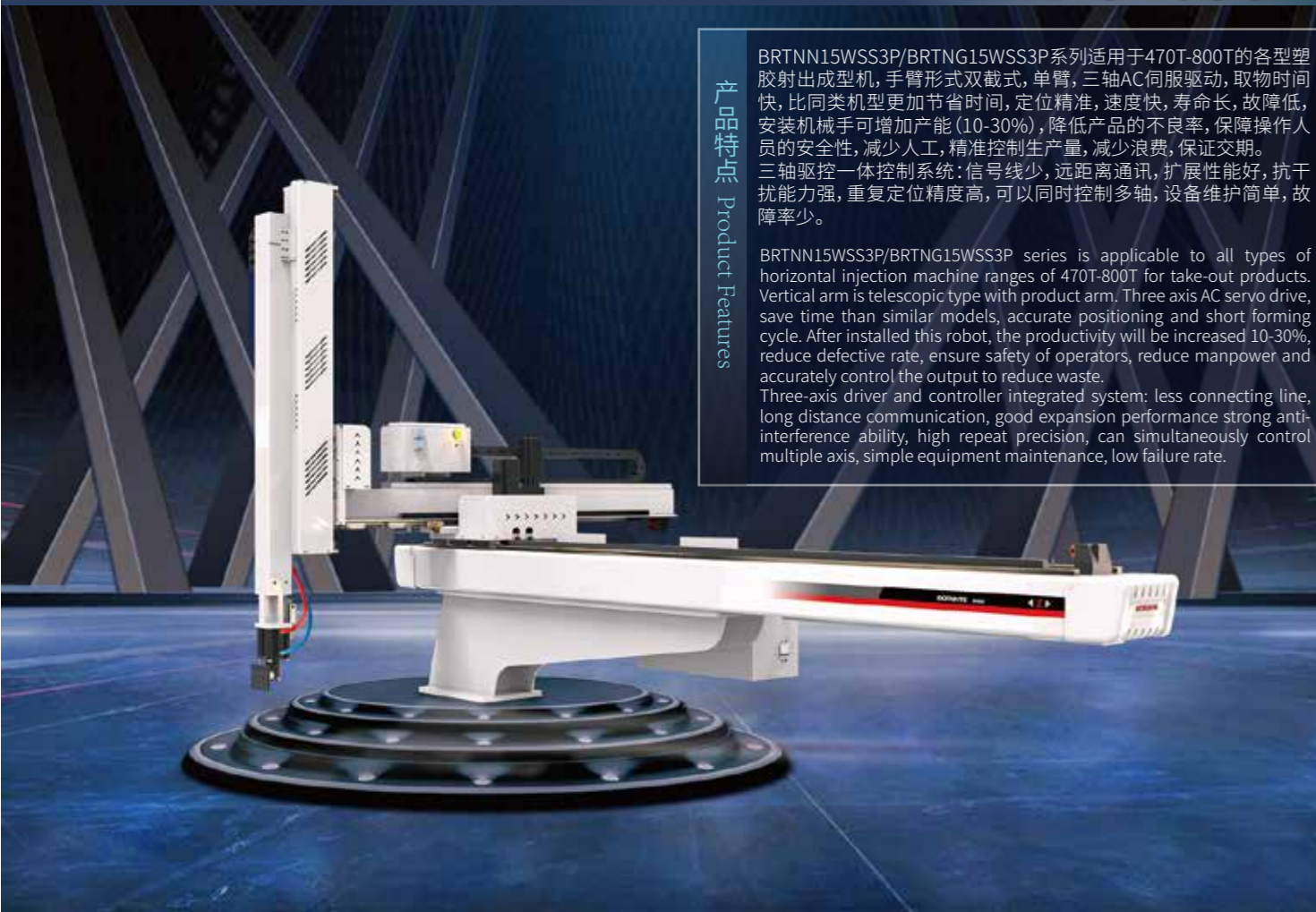
产品特点 Product Features

BRTNN15WSS3P/BRTNG15WSS3P系列适用于470T-800T的各型塑胶射出成型机,手臂形式双截式,单臂,三轴AC伺服驱动,取物速度快,比同类机型更加节省时间,定位精准,速度快,寿命长,故障低,安装机械手可增加产能(10-30%),降低产品的不良率,保障操作人员的安全性,减少人工,精准控制生产量,减少浪费,保证交期。

三轴驱控一体控制系统:信号线少,远距离通讯,扩展性能好,抗干扰能力强,重复定位精度高,可以同时控制多轴,设备维护简单,故障率低。

BRTNN15WSS3P/BRTNG15WSS3P series is applicable to all types of horizontal injection machine ranges of 470T-800T for take-out products. Vertical arm is telescopic type with product arm. Three axis AC servo drive, save time than similar models, accurate positioning and short forming cycle. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

Three-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.



机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended I.M. M	驱动方式 Traverse Driven	横行行程 (mm) Traverse Stroke	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (NI/cycle) Air Consumption	净重 (KG) Net Weight
BRTNN15WSS3P/F	3	470T-800T	AC伺服马达 AC Servo motor	2200	900	1500	15	2.74	9.03	3.2	680
BRTNG15WSS3P/F	3	470T-800T	AC伺服马达 AC Servo motor	2200	900	1500	3	1.5	7.02	3.2	680

机型表示: W: 双截式 S:单臂机械手(成品臂), S3: 三轴AC伺服马达驱动(成品臂上下、引拔+横行)

Denote:W:Telescopic type. S:Product arm S3:Three-axis driven by AC Servo Motor(Traverse-axis、Vertical-axis+Crosswise-axis)

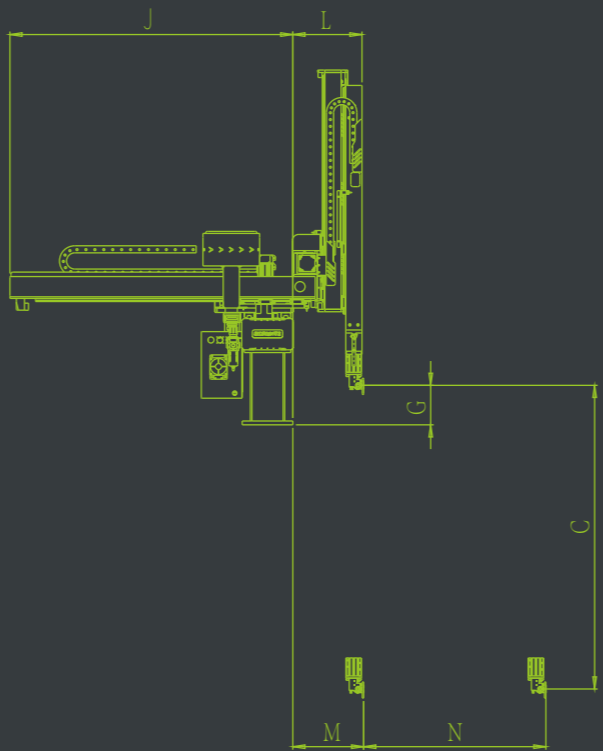
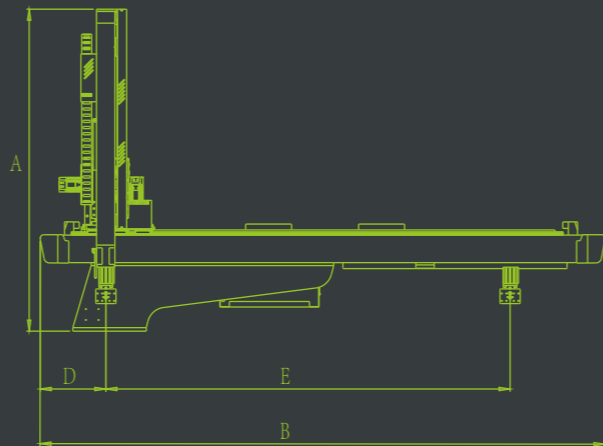
上述取物时间,循环时间为我司内部测试标准测试结果,在机器实际应用过程中会因实际使用行程,负载,调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
BRTNN15WSS3P/F	1743	3075	1500	357	2200	/	180	/	/	1395	/	341	350	900
BRTNG15WSS3P/F	1743	3075	1500	357	2200	/	180	/	/	1395	/	341	350	900

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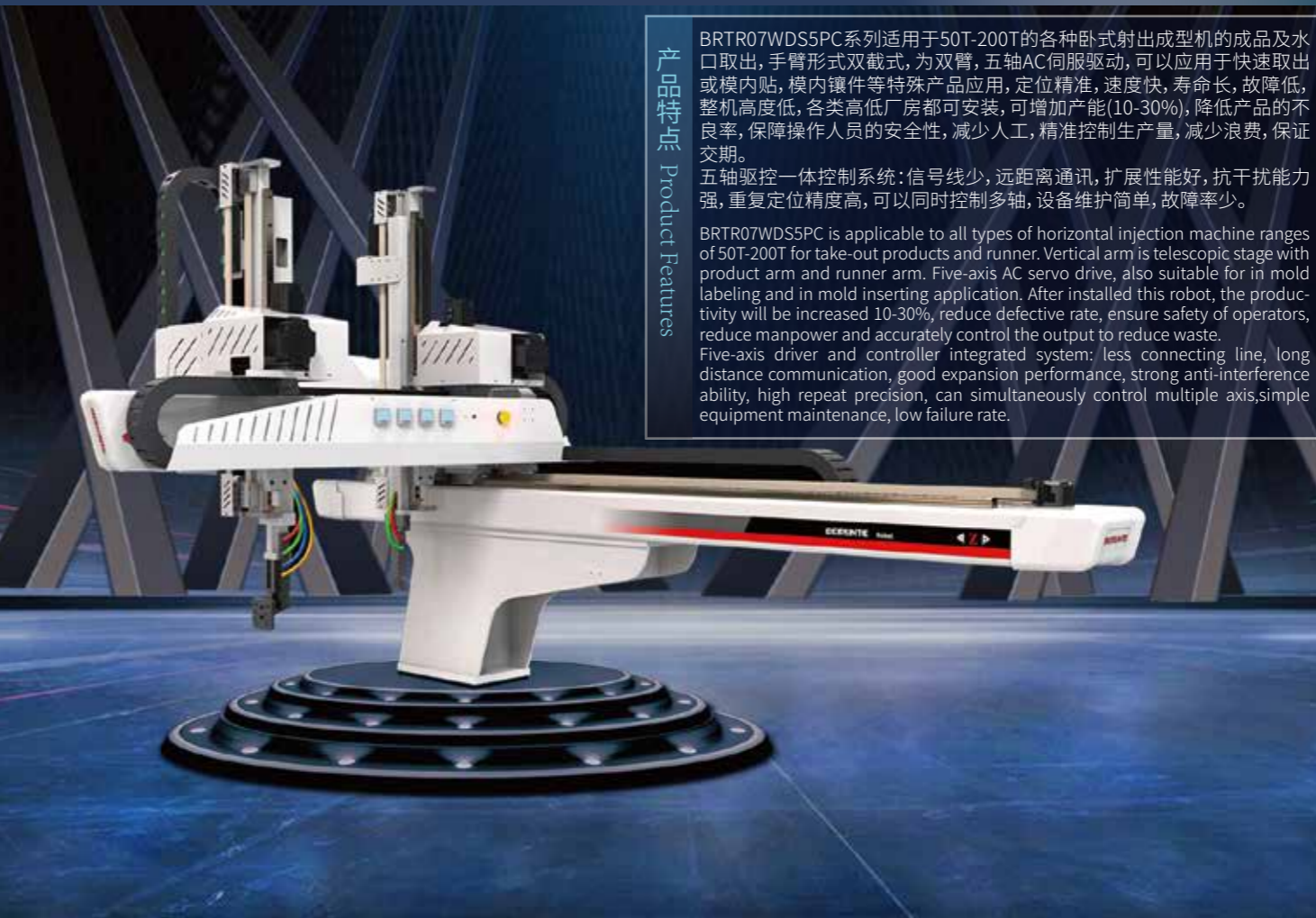
产品特点 Product Features

BRTR07WDS5PC系列适用于50T-200T的各种卧式射出成型机的成品及水口取出,手臂形式双截式,为双臂,五轴AC伺服驱动,可以应用于快速取出或模内贴,模内镶件等特殊产品应用,定位精准,速度快,寿命长,故障低,整机高度低,各类高低厂房都可安装,可增加产能(10-30%),降低产品的不良率,保障操作人员的安全性,减少人工,精准控制生产量,减少浪费,保证交期。

五轴驱控一体控制系统:信号线少,远距离通讯,扩展性能好,抗干扰能力强,重复定位精度高,可以同时控制多轴,设备维护简单,故障率低。

BRTR07WDS5PC is applicable to all types of horizontal injection machine ranges of 50T-200T for take-out products and runner. Vertical arm is telescopic stage with product arm and runner arm. Five-axis AC servo drive, also suitable for in mold labeling and in mold inserting application. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

Five-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance, strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.



机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended I.M. M	驱动方式 Traverse Driven	横行行程 (mm) Traverse Stroke	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (NI/cycle) Air Consumption	净重 (KG) Net Weight
BRTR07WDS5PC/FC	2.9	50T-200T	AC伺服马达 AC Servo motor	1300	P:300 R:125	720	3	1.02	4.75	4	270

机型表示: W: 双截式 D: 双臂机械手(成品臂+料头臂) S5: 五轴AC伺服马达驱动(成品臂/料头臂上下、引拔+横行)

Denote:W:Telescopic stage. D:Product arm + runner arm. S5:Five-axis driven by AC Servo Motor.

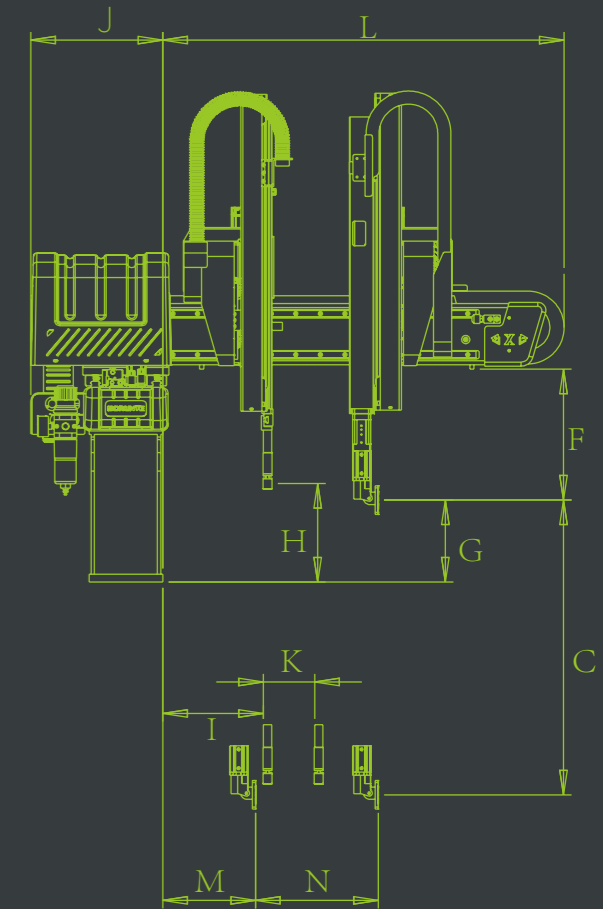
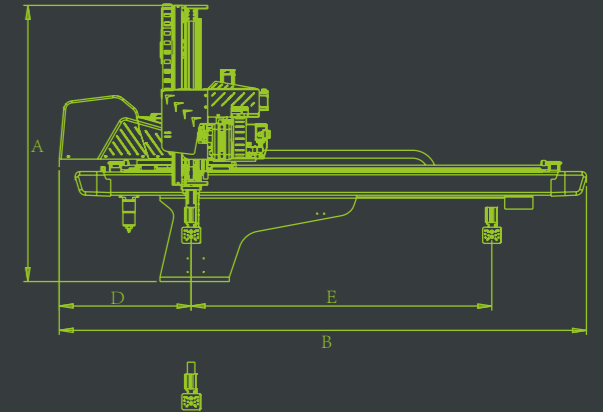
上述取物时间,循环时间为我司内部测试标准测试结果,在机器实际应用过程中会因实际使用行程,负载,调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
BRTR07WDS5PC/FC	1200	2280	720	570	1300	310	200	240	90	322	125	1020	325	300

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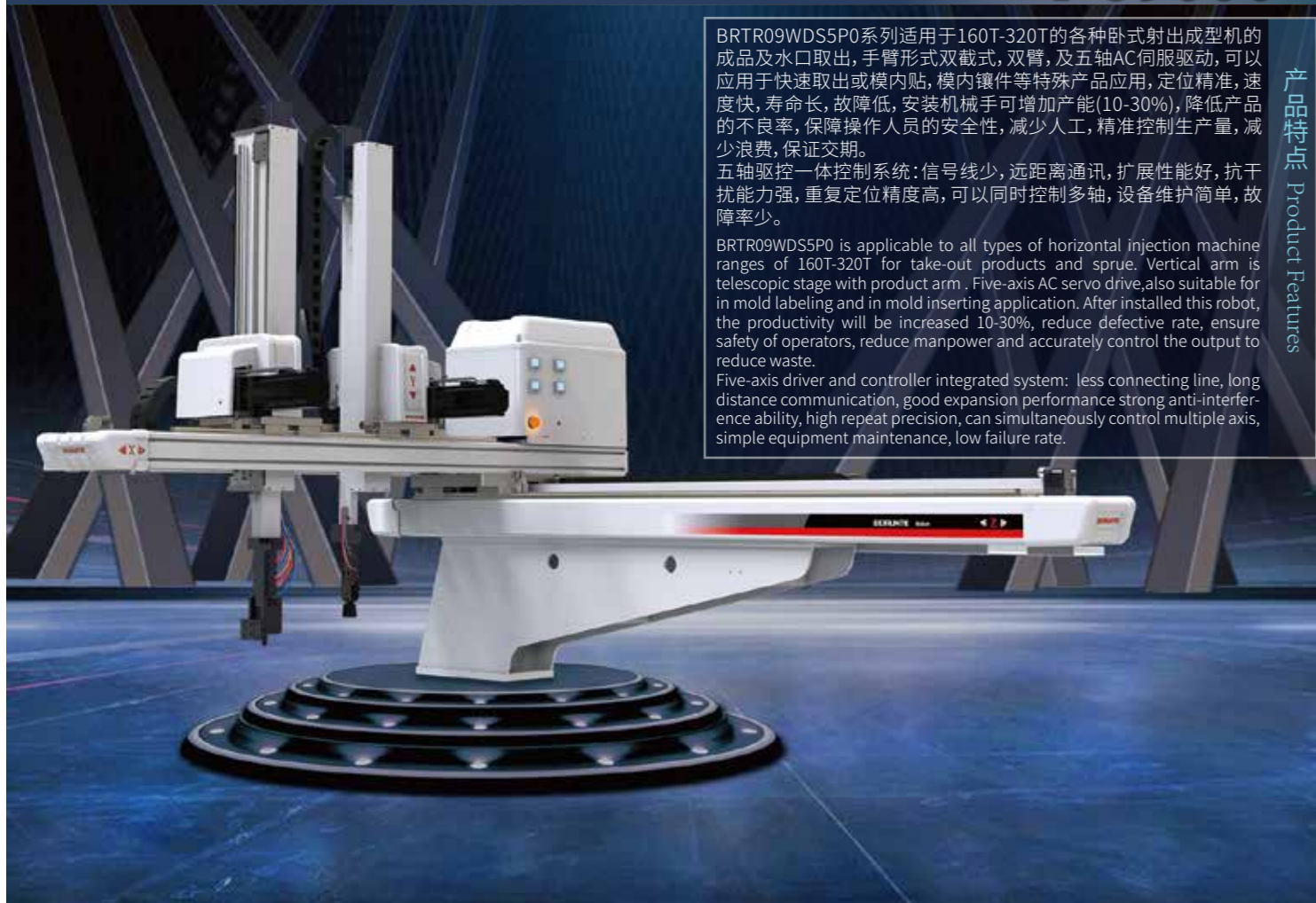
BRTR09WDS5P0系列适用于160T-320T的各种卧式射出成型机的成品及水口取出, 手臂形式双截式, 双臂, 及五轴AC伺服驱动, 可以应用于快速取出或模内贴, 模内镶件等特殊产品应用, 定位精准, 速度快, 寿命长, 故障低, 安装机械手可增加产能(10-30%), 降低产品的不良率, 保障操作人员的安全性, 减少人工, 精准控制生产量, 减少浪费, 保证交期。

五轴驱控一体控制系统: 信号线少, 远距离通讯, 扩展性能好, 抗干扰能力强, 重复定位精度高, 可以同时控制多轴, 设备维护简单, 故障率少。

BRTR09WDS5P0 is applicable to all types of horizontal injection machine ranges of 160T-320T for take-out products and sprue. Vertical arm is telescopic stage with product arm. Five-axis AC servo drive, also suitable for in mold labeling and in mold inserting application. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

Five-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.

产品特点 Product Features



机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended M.M	驱动方式 Drive	治具型式 Model of EOAT	横行行程 (mm) Traverse Stroke	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (Nl/cycle) Air Consumption	净重 (KG) Net Weight
BRTR09WDS5P0/F0	3.2	160T-320T	AC伺服马达 AC Servo motor	四吸两抱	1500	P:550 R:550	950	8	1.5	7.03	4	300

机型表示: W: 双截式 D: 双臂机械手 (成品臂+料头臂) S5: 五轴AC伺服马达驱动 (成品臂/料头臂上下、引拔+横行)

Denote: W: Telescopic type. D: Product arm + runner arm. S5: Five-axis driven by AC Servo Motor.

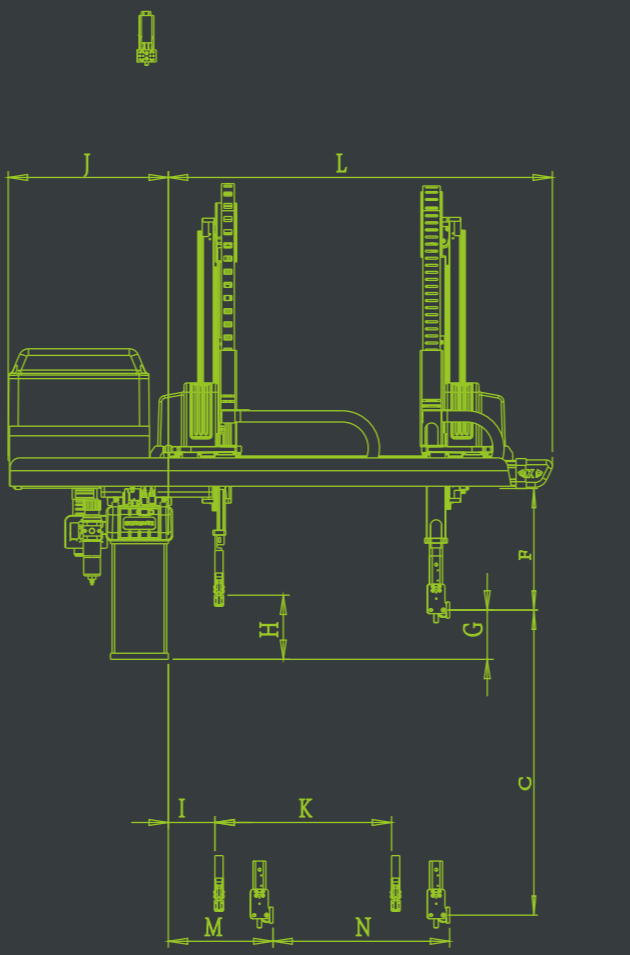
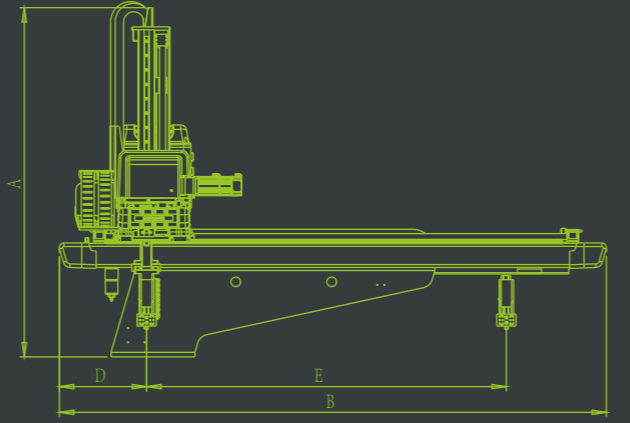
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The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
BRTR09WDS5P0/F0	1480	2280	950	365	1500	375	153	196	140	500	550	1195	330	550

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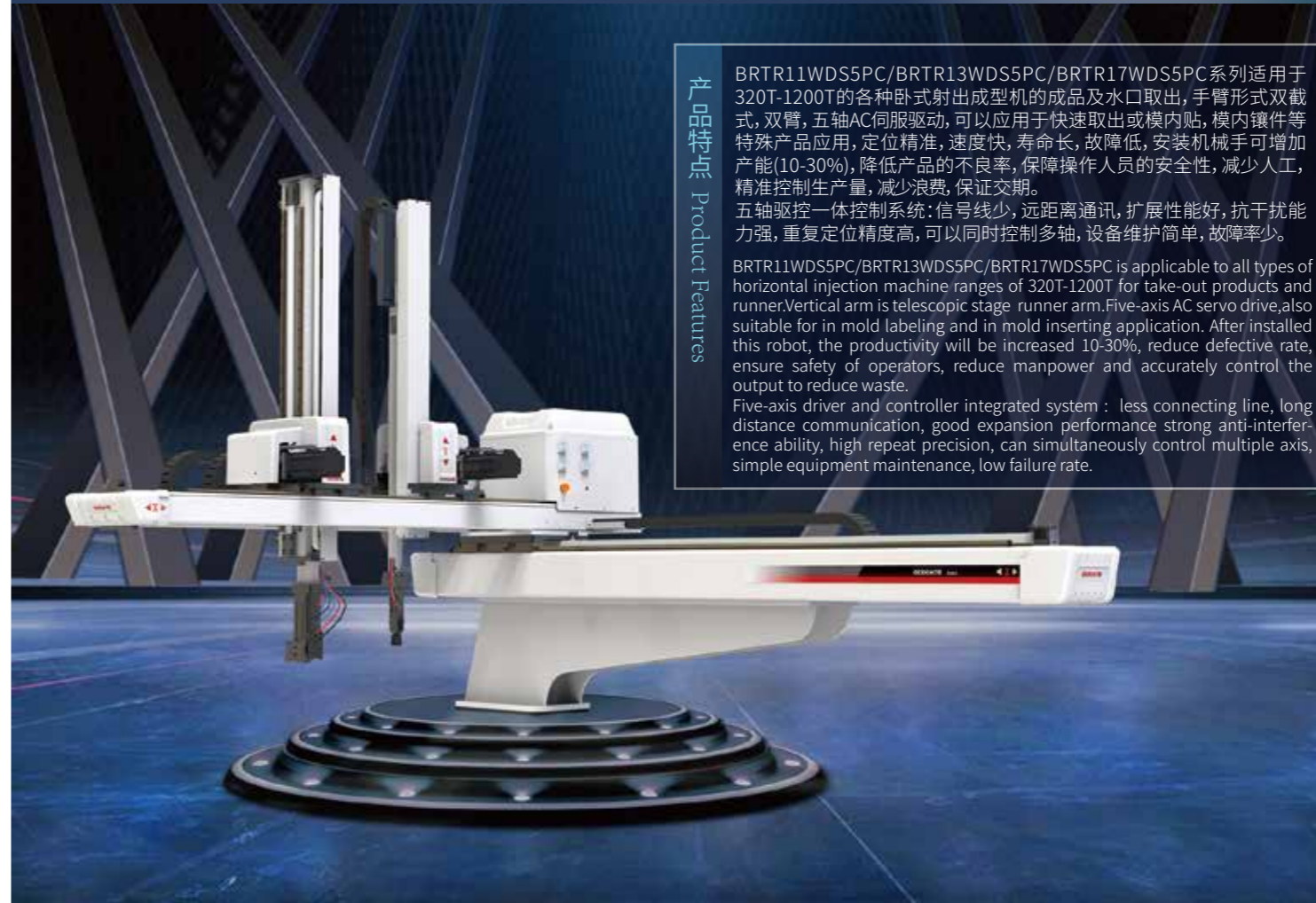
BRTR11WDS5PC/BRTR13WDS5PC/BRTR17WDS5PC系列适用于320T-1200T的各种卧式射出成型机的成品及水口取出, 手臂形式双截式, 双臂, 五轴AC伺服驱动, 可以应用于快速取出或模内贴, 模内镶件等特殊产品应用, 定位精准, 速度快, 寿命长, 故障低, 安装机械手可增加产能(10-30%), 降低产品的不良率, 保障操作人员的安全性, 减少人工, 精准控制生产量, 减少浪费, 保证交期。

五轴驱控一体控制系统: 信号线少, 远距离通讯, 扩展性能好, 抗干扰能力强, 重复定位精度高, 可以同时控制多轴, 设备维护简单, 故障率少。

BRTR11WDS5PC/BRTR13WDS5PC/BRTR17WDS5PC is applicable to all types of horizontal injection machine ranges of 320T-1200T for take-out products and runner. Vertical arm is telescopic stage runner arm. Five-axis AC servo drive, also suitable for in mold labeling and in mold inserting application. After installed this robot, the productivity will be increased 10-30%, reduce defective rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

Five-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.

产品特点 Product Features



机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended L.M	驱动方式 Drive of EOAT	治具型式 Model of EOAT	横行行程 (mm) Traverse Stroke	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (Nl/cycle) Air Consumption	净重 (KG) Net Weight
BRTR11WDS5PC/FC	3.6	320T-480T	AC伺服马达 AC Servo motor	四吸两抱	1700	P:625 R:625	1100	10	2.06	7.01	4	335
BRTR13WDS5PC/FC	3.2	360T-700T	AC伺服马达 AC Servo motor	四吸两抱	1800	P:800 R:800	1350	10	2.08	7.8	6.8	450
BRTR17WDS5PC/FC	4.5	750T-1200T	AC伺服马达 AC Servo motor	四吸两抱	2500	P:900 R:800	1700	15	3.72	12.72	15	800

机型表示: W: 双截式 D: 双臂机械手 (成品臂+料头臂) S5: 五轴AC伺服马达驱动 (成品臂/料头臂上下、引拔+横行)

Denote: W: Telescopic type. D: Product arm + runner arm. S5: Five-axis driven by AC Servo Motor.

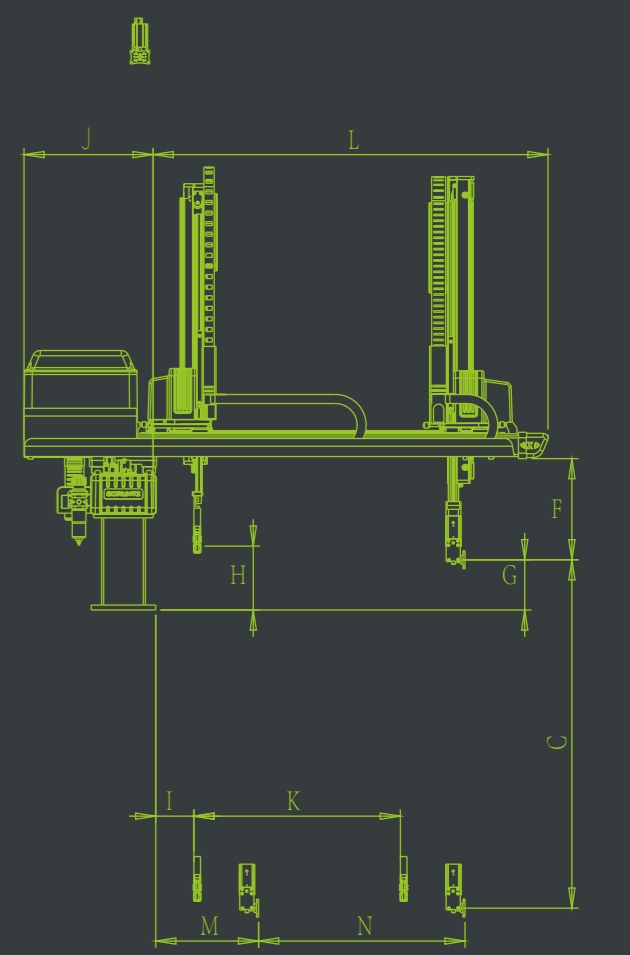
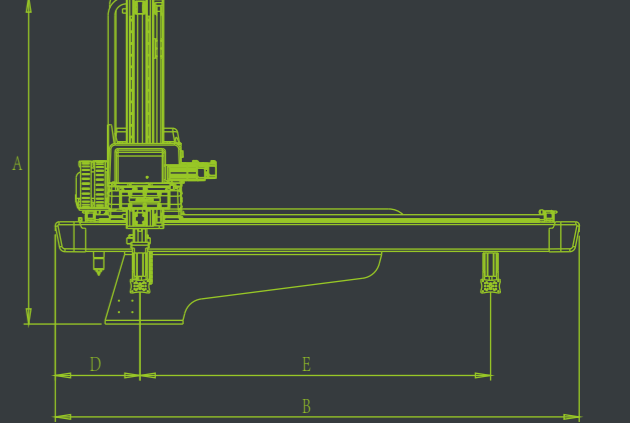
上述取物时间, 循环时间为我司内部测试标准测试结果, 在机器实际应用过程中会因实际使用行程, 负载, 调试参数不同而有所变化。

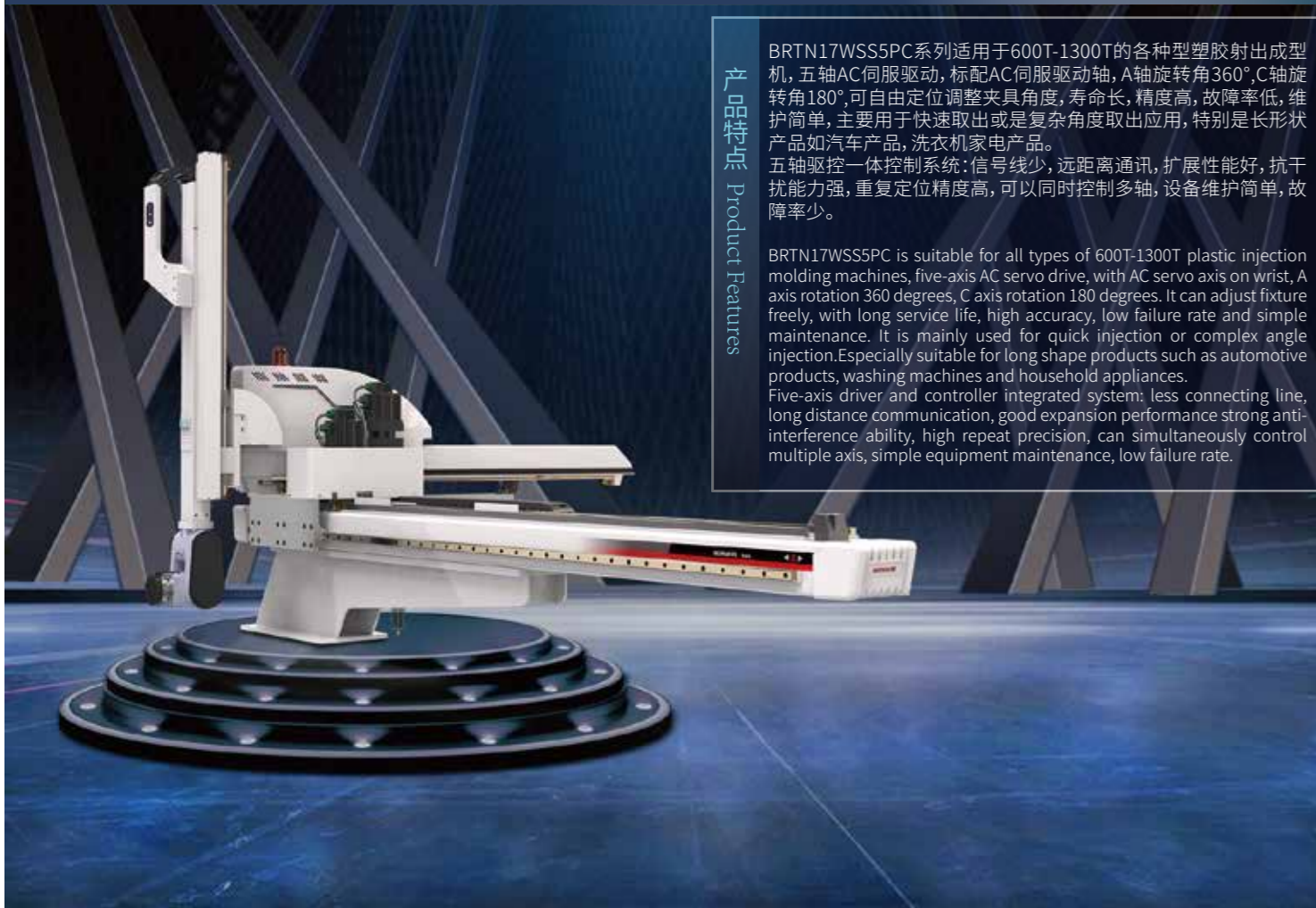
The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
BRTR11WDS5PC/FC	1474	2470	1100	365	1700	377	152	196	150	499	625	1315	393	625
BRTR13WDS5PC/FC	1720	2690	1350	435	1800	390	195	245	148	515	800	1520	420	800
BRTR17WDS5PC/FC	1900	3370	1700	385	2500	520	70	185	270	510	800	1850	600	900

因改良等原因, 规格及外观有所变更时, 不再另行通知, 敬请谅解。

Without further notice if specification and exterior have been changed because of improvement. Thanks for your understanding.





产品特点  
Product Features

BRTN17WSS5PC系列适用于600T-1300T的各种型塑胶射出成型机, 五轴AC伺服驱动, 标配AC伺服驱动轴, A轴旋转角360°, C轴旋转角180°, 可自由定位调整夹具角度, 寿命长, 精度高, 故障率低, 维护简单, 主要用于快速取出或是复杂角度取出应用, 特别是长形状产品如汽车产品, 洗衣机家电产品。  
五轴驱动一体控制系统: 信号线少, 远距离通讯, 扩展性能好, 抗干扰能力强, 重复定位精度高, 可以同时控制多轴, 设备维护简单, 故障率少。

BRTN17WSS5PC is suitable for all types of 600T-1300T plastic injection molding machines, five-axis AC servo drive, with AC servo axis on wrist, A axis rotation 360 degrees, C axis rotation 180 degrees. It can adjust fixture freely, with long service life, high accuracy, low failure rate and simple maintenance. It is mainly used for quick injection or complex angle injection. Especially suitable for long shape products such as automotive products, washing machines and household appliances.  
Five-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti-interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.

机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended L.M. M	驱动方式 Traverse Driven	治具型式 Model of EOAT	横行程 (mm) Traverse Stroke	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (NI/cycle) Air Consumption	净重 (KG) Net Weight
BRTN17WSS5PC/FC	3.5	600T-1300T	AC伺服马达 AC Servo motor	四吸两抱	2500	1500	1700	20	5.21	15.54	15	790

机型表示: W: 双截式 S: 单臂机械手 (成品臂) S5: 五轴AC伺服马达驱动 (成品臂/料头臂上下、引拔+横行)

Denote: W: Telescopic type. S: Product arm S5: Five-axis driven by AC Servo Motor.

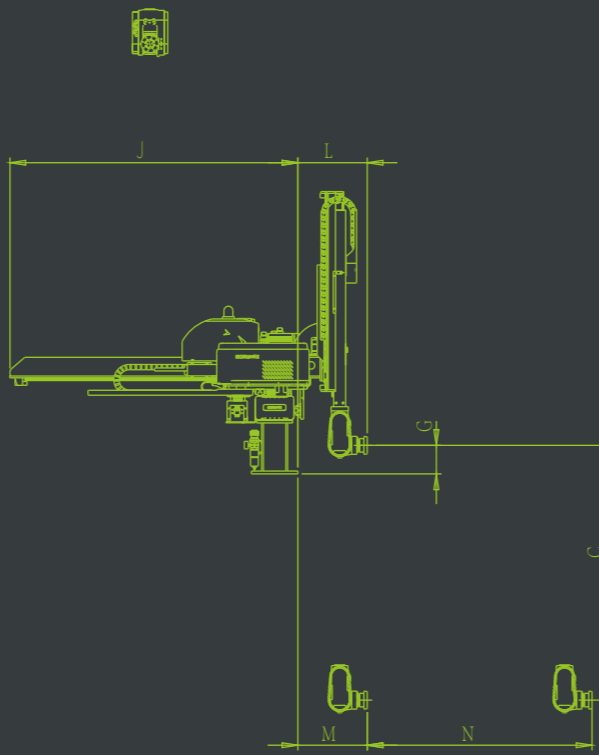
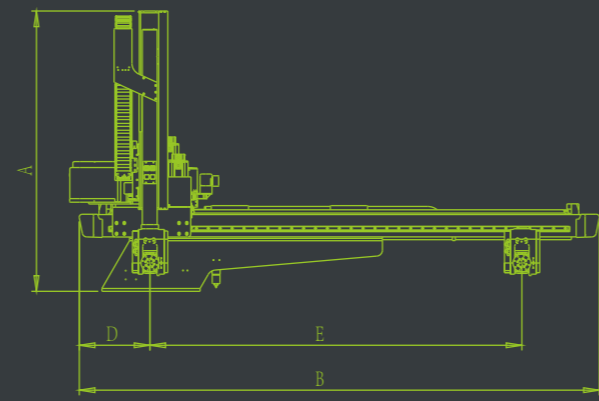
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The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
BRTN17WSS5PC/FC	1900	3370	1700	410	2500	/	230	/	/	1910	/	410	480	1500	/

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产品特点  
Product Features

BRTN24WSS5PC/BRTN30WSS5PC系列适用于1300T-4000T的各种型塑胶射出成型机, 五轴AC伺服驱动, 标配AC伺服驱动轴, A轴旋转角360°, C轴旋转角180°, 可自由定位调整夹具角度, 寿命长, 精度高, 故障率低, 维护简单, 主要用于快速取出或是复杂角度取出应用, 特别是长形状产品如汽车产品, 洗衣机家电产品。  
五轴驱动一体控制系统: 信号线少, 远距离通讯, 扩展性能好, 抗干扰能力强, 重复定位精度高, 可以同时控制多轴, 设备维护简单, 故障率少。

BRTN24WSS5PC/BRTN30WSS5PC is suitable for all types of 1300T-4000T plastic injection molding machines, five-axis AC servo drive, with AC servo axis on wrist, A axis rotation 360 degrees, C axis rotation 180 degrees. It can adjust fixture freely, with long service life, high accuracy, low failure rate and simple maintenance. It is mainly used for quick injection or complex angle injection. Especially suitable for long shape products such as automotive products, washing machines and household appliances.

Five-axis driver and controller integrated system: less connecting line, long distance communication, good expansion performance strong anti interference ability, high repeat precision, can simultaneously control multiple axis, simple equipment maintenance, low failure rate.

机型 Model	电源容量 (KVA) Power Source	适用成型机 (ton) Recommended L.M. M	驱动方式 Traverse Driven	治具型式 Model of EOAT	横行程 (mm) Traverse Stroke	引拔行程 (mm) Crosswise Stroke	上下行程 (mm) Vertical Stroke	最大荷载 (kg) Max.Loading	取出时间 (sec) Dry Take Out Time	全循环时间 (sec) Dry Cycle Time	空气消耗量 (NI/cycle) Air Consumption	净重 (KG) Net Weight
BRTN24WSS5PC	5.1	1300T-2100T	AC伺服马达 AC Servo motor	四吸两抱	3200	2000	2400	40	6.69	21.4	15	1550
BRTN30WSS5PC	6.1	2200T-4000T	AC伺服马达 AC Servo motor	四吸两抱	4000	2500	3000	60	9.05	36.5	47	2020

机型表示: W: 双截式 S: 单臂机械手 (成品臂) S5: 五轴AC伺服马达驱动 (成品臂/料头臂上下、引拔+横行)

Denote: W: Telescopic type. S: Product arm S5: Five-axis driven by AC Servo Motor.

上述取物时间, 循环时间为我司内部测试标准测试结果, 在机器实际应用过程中会因实际使用行程, 负载, 调试参数不同而有所变化。

The above-mentioned cycle time are the results of our internal test standard. In the actual application process of the machine, they will vary according to the actual operation

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
BRTN24WSS5PC	2644	4502	2400	607	3200	/	307	/	/	2616	/	606	694	2000	/
BRTN30WSS5PC	2900	5300	3000	620	4000	/	275	/	/	3120	/	550	660	2500	1835

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