

宁波科辉机器人科技有限公司

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NINGBO KEFAI ROBOT



COMPANY

DESCRIPTION 公司介绍

宁波科辉机器人科技有限公司是一家专业生产（注塑机专用机械手臂）的企业，公司一向秉承（细节铸就品质、服务铸就未来）的经营理念、精心研发、生产、制造、销售、维护等一条龙服务。一流的产品源自一流的品质管理。科辉积极推行ERP信息管理，建立起严格的质量管理责任制，并实行考核跟踪，做到最终产品出厂，每个环节层层把关，精益求精，实现产、销、人、财等全面高效运作。科辉重金打造出一批完善的售前、售中、售后服务体系，从市场与客户需求出发，24小时为您提供全方位、个性化的贴心服务。一流的员工铸就一流的品质，一流的品质铸就一流的企业，科辉因此形成（踏实、坚持、冲劲、有恒）的企业文化，未来科辉更将朝着“统一一流人才研发出最佳方案，服务我们的客户”。



Ningbo Kefai Robot Technology Co., Ltd. is a professional production (injection molding machine mechanical arm) business, the company has always been adhering to (details molded quality, service created in the future) philosophy, careful research and development, production, manufacture, sales, maintenance and other one long service. Class products from first-class quality management. Kefai actively implementing ERP information management, establish a strict quality management accountability and tracking the implementation of the assessment, so that the final product is shipped every aspect Cengcengbaguan excellence, achieve production, marketing, human hair, such as a comprehensive and efficient operation of the financial. Kefai heavily to build a number of perfect pre-sales, after-sales service system, from the market and customer needs, 24 hours to provide you with comprehensive, personalized attentive service. Class staff created a first-class quality, first-class quality cast-class enterprises, Kefai thus forming (solid, stick, drive, persistence) of the corporate culture, the future will be more Kefai towards "unified class talent develop the best solution, service to our customers."

标准功能与选配功能

标 配

水口中途落下	将水口放置在与制品不同的位置
模开途中下降	在开模途中使取出机的手臂进入模内，从而缩短开模的时间，缩短循环周期。
上升途中闭模	从模内上升的途中开始闭模，从而缩短闭模的时间，缩短循环周期。
料头横行轴任意点置物	将水口料头放置在与产品不同的位置。
内部记忆存储记忆	机械手内部存储模具信息。对机械手内部存储的模具信息可U盘拷贝，无需再次教导。
警报灯（蜂鸣器）可选	取出有警报（异常）发生时，报警灯亮。（蜂鸣器报警）
输送带接口	控制输送带功能。
剪刀回路	利用气动剪刀对治具对产品上的水口料头进行剪切时，需要此功能。（剪刀装置另购）
固定/移动切换	标准机械手一般从注塑机的移动模板侧取产品；增加固定/移动切换功能后，只要切换固定/移动功能就可以从固定模板侧或移动模板侧取产品。
真空吸着确认2回路	当产品需要通过真空回路利用吸盘等治具取出时，吸着确认回路的标准配置为2组。
模内移动功能	可在模具内任意移动，取出有倒钩的产品。
模具内夹放	在模内夹住水口料头或吸住产品取出后，可在模内放开水口料头及产品。
不良品排出回路	收到注塑机的不良品信号，进行不良品排出动作。
模外待机功能	如模具上的障碍物与手臂或治具板相遇时，使手臂在行走回归途中在模外（安全门外）待机。
中英语言切换	操作系统可切换中英语言。
前进取出侧姿控制	在产品尺寸较长时若直接行走，会与注塑机的安全门相遇，或侧姿动作时，会与机械手暖风导轨相遇时，在取出上升位置将其移到可能侧姿动作的位置后，再做侧姿动作，从而避免相遇。
横行途中水平或垂直	模外侧在各位置执行侧姿动作后再做下降动作，横行移动完成时及横行移动开始时的侧姿动作能顺利进行，能缩短循环时间。
取出侧下降待机	使上下手臂接近模具，下降行程调到最短，缩短取出一时间。
堆叠功能	将产品按实际需求在置物区域内摆放。

选 配

预留I/O点增加	移动I/O点不够，可增加I/O点。
侧变力矩强化	强化机械手的侧姿部，提高治具反转时的扭矩。
B轴旋转机械（气动）（水平旋转90°）	进行治具回转动作。可选择在模内、模外、落下侧进行回转动作。
A轴、B轴或C轴伺服旋转机构	为增加扭力或旋转精度，作多轴关节运动，可选择伺服马达配RV减速机作动力，以达到复杂取出或配合外围设备作二次加工。
注塑机和机械手模具信息交换	机械手与注塑机交换模具信息，机械手与模具交换模具信息用BCD码信号交换及确认，注塑机换模后机械手自动调出对应的各种参数。

STANDARD AND OPTIONAL FUNCTION

STANDARD

Midway runner release	Runner is released at a place different from product.
Descent during mold open	Used to shorten the mould cycle by starting the descending of arm on the way to mold open.
Mold close during arm ascent	Used to shorten the molding time by starting the mold closing on the way to ascent.
Plastic runner can be released at anyplace of the traverse axis	Runner is released at a place different from product.
Internal memory storage	Controller memory for mold program information.USB device for ease of program storage, even during normal operation, which is faster and more convenient.
Alarm (Buzzer) optional	The alarm lamp (Buzzer) is switched on a light when there is a alarm(error) in the robot.
Conveyor interface	Control conveyor functions.
Air nipper circuit	While cutting runner, use this function. (Scissor device is optional)
Fixed side/moving side switch	Injection molding machines is designed to eject product from the moving side normally. Use fixed-side/moving side function to suit for ejecting product from the side of moving side.
Vacuum confirmation circuit	While part need to use suction cup by vacuum, it can be confirmed by this circuit.
Mould area movement	Robot can move freely in the mould area to take out the product with barb or others.
Release or grip in mould area	Can release part or runner in mould area after grip the runner or absorbs the part.
Defective product reject circuit	Defective products are separated by interface signal from IMM.
Outside mould area stand-by	Robot can stan-by outside mould (outside the safety door) when robot end arm meets those mould obstructions.
Chinsees and English language selection	Language can be changed between Chinese and English.
Product extract posture control	Used to carry out posture action until arm ascent to a proper position to do the movement. In order to avoid collide with the safety door of IMM or the robot arm truck during the moving section.
Horizontal or Vertical During Traverse	The product release after each posture is carried out at product release position. All the cycles can also be shorten by carrying out posture smoothly as traverse moving over and starting to return.
Arm descent delay	Used to shorten the extraction time by letting the vertical arm stand by at just top of the mold before mold open, and adjust the extraction stroke to the shortest.
Stacking	Used to stack product at an arbitrary position within the region according to the actual requirements.

OPTIONAL

Reserved additional I/O point	Additional inputs and outputs points are available if the standard ones are not enough.
Reinforcement of posture torque	Reinforce the posture part, and improve torque when the EOAT rotating.
B axis rotation (pneumatic)(horizontal 90 degrees)	Gripper rotation function. Gripper can rotate at inside or outside of mold area.
A, B or C axis servo rotation	In order to increase the torsion or relieving tolerance and make the Multi-axis joint motions, choosing a servo motor with RV reducer is a good idea to satisfy those complex take out actions or to cooperate with downstream accessories for those second processes.
Robot and I.M.M. information exchange manipulators	Robot and I.M.M. information exchange manipulators use BCD signal switching and confirmation, robot can call those corresponding parameters automatically after I.M.M. changed mold.

HYPER WIZ
智尊型

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01/02



KAW

牛头式四轴机械手臂

BULLHEAD FOUR-AXIS MANIPULATOR

► 适合1600-3300T注塑机使用

X Y Z A 均采用进口AC伺服电机驱动。X Y Z A 手臂均使用进口的高刚性线性滑轨。X Y Z A 手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定度，并且可配合厂房高度低的场所，手臂采用270°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气路路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度 270°。

► Suitable for 1600-3300T injection molding machine

X Y Z A are driven by imported AC servo motors. The X Y Z A arms use the imported high-rigid linear sliding rails. The X Y Z A arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 270°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 270°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-2200	KAW-2400	KAW-2800	KAW-3300
手臂型式/Type		双段 (Double section)			
上下行程/Vertical stroke	mm	2200	2400	2800	3300
前后行程/Crosswise stroke	mm	2800	3000	3200	3500
横行程/Swing stroke	mm	3500	3800	4200	4500
驱动方式/Drive system		X Y Z A 轴-伺服 (X Y Z A - Servo motor)			
姿势角度/Gripper rotation angle	°	270	270	270	270
最大荷重 (含制具) / Max load (with tool)	kg	15	20	25	30
最小取出时间/Minimum take time	sec	4	5	6	8
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	15	16	18	20
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	30	30
电源消耗量/Power consumption	KVA	1.5	1.5	1.8	1.8
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	800	900	1200	1500

注：图片仅供参考，随着产品不断更新，请以实物为准！

Note: The picture is for reference only. As the product is constantly updated, please refer to the actual product!

KAW

四轴框架伺服机械手臂

FOUR-AXIS FRAME SERVO MANIPULATOR



宁波科辉机器人科技有限公司
Ningbo Kefai Robot Technology Co., Ltd.

► 适合700-900吨注塑机使用

X Y Z A 均采用进口AC伺服电机驱动。X Y Z A 手臂均使用进口的高刚性线性滑轨。X Y Z A 手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定度，并且可配合厂房高度低的场所，手臂采用270°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气管路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度 270°。

► Suitable for 700-900T injection molding machine

X Y Z A are driven by imported AC servo motors. The X Y Z A arms use the imported high-rigid linear sliding rails. The X Y Z A arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 270°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 270°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-1600	KAW-1800
手臂型式/Type	单段 (Telescopic type)		
上下行程/Vertical stroke	mm	1600	1800
前后行程/Crosswise stroke	mm	1800	2000
横行程/Swing stroke	mm	2800	3200
驱动方式/Drive system	X Y Z A 轴-伺服 (X Y Z A - Servo motor)		
姿势角度/Gripper rotation angle	o	270	270
最大荷重 (含制具) / Max load (with tool)	kg	10	15
最小取出时间/Minimum take time	sec	4	4
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	12
工作压力/Working air pressure	kgf/cm ²	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25
电源消耗量/Power consumption	KVA	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	600	700

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05/06

注塑机、压铸机专用机械手臂及非标自动化流水线
Special Mechanical Arm For Injection Molding Machine,
Die Casting Machine And Automatic Production Line For Non Standard
www.kefairobot.com

KAW

五轴伺服机械手臂

FIVE-AXIS SERVO MANIPULATOR



● 适合120-530吨注塑机使用

X Y Z 均采用进口AC伺服电机驱动。X Y Z 手臂均使用进口的高刚性线性滑轨。X Y Z 手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定度，并且可配合厂房高度低的场所，手臂采用90°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气路管路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度 90°。

● Suitable for 120-530T injection molding machine

X Y Z are driven by imported AC servo motors. The X Y Z arms use the imported high-rigid linear sliding rails. The X Y Z arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 90°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 90°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-850	KAW-950	KAW-1100	KAW-1300
手臂型式/Type	两段 (Telescopic type)				
上下行程/Vertical stroke	mm	850	950	1100	1300
前后行程/Crosswise stroke	mm	1200	1300	1450	1550
横行程/Swing stroke	mm	2000	2000	2300	2500
驱动方式/Drive system	X Y Z 轴-伺服 (X Y Z - Servo motor)				
姿势角度/Gripper rotation angle	o	90	90	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3	5	5
最小取出时间/Minimum take time	sec	2	2	3	3
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	9.5	9.5
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	25	25
电源消耗量/Power consumption	KVA	1.5	1.5	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	220	230	260	300

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KAW

四轴侧挂伺服机械手臂

FOUR-AXIS SIDE-MOUNTED SERVO
MANIPULATOR

► 适合320-680吨注塑机使用

X Y Z A 均采用进口AC伺服电机驱动。X Y Z A 手臂均使用进口的高刚性线性滑轨。X Y Z A 手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定性，并且可配合厂房高度低的场所，手臂采用270°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气管路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度 270°。

► Suitable for 320-680T injection molding machine

X Y Z A are driven by imported AC servo motors. The X Y Z A arms use the imported high-rigid linear sliding rails. The X Y Z A arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 270°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 270°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-1100	KAW-1300	KAW-1500
手臂型式/Type		二段 (Telescopic type)		
上下行程/Vertical stroke	mm	1100	1300	1500
前后行程/Crosswise stroke	mm	1450	1550	1650
横行程/Swing stroke	mm	2300	2300	2500
驱动方式/Drive system		X Y Z A 轴-伺服 (X Y Z A - Servo motor)		
姿势角度/Gripper rotation angle	°	270	270	270
最大荷重 (含制具) / Max load (with tool)	kg	10	10	10
最小取出时间/Minimum take time	sec	3	3	3
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	9.5
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	25
电源消耗量/Power consumption	KVA	1.5	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	260	270	280

注：图片仅供参考，随着产品不断更新，请以实物为准！

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标准功能与选配功能

标 配

水口中途落下	将水口放置在与制品不同的位置
模开途中下降	在开模途中使取出机的手臂进入模内，从而缩短开模的时间，缩短循环周期；
上升途中闭模	从模内上升的途中开始闭模，从而缩短闭模的时间，缩短循环周期。
料头横行轴任意点置物	将水口料头放置在与产品不同的位置。
内部记忆存储记忆	机械手内部存储模具信息。对机械手内部存储的模具信息可U盘拷贝，无需再次教导。
警报灯（蜂鸣器）可选	取出有警报（异常）发生时，报警灯亮。（蜂鸣器报警）
输送带接口	控制输送带功能。
剪刀回路	利用气动剪刀对治具对产品上的水口料头进行剪切时，需要此功能。（剪刀装置另购）
固定/移动切换	标准机械手一般从注塑机的移动模板侧取产品；增加固定/移动切换功能后，只要切换固定/移动功能就可以从固定模板侧或移动模板侧取产品。
真空吸着确认2回路	当产品需要通过真空回路利用吸盘等治具取出时，吸着确认回路的标准配置为2组。
模内移动功能	可在模具内任意移动，取出有倒钩的产品。
模具内夹放	在模内夹住水口料头或吸住产品取出后，可在模内放开水口料头及产品。
不良品排出回路	收到注塑机的不良品信号，进行不良品排出动作。
模外待机功能	如模具上的障碍物与手臂或治具板相遇时，使手臂在行走复归途中在模外（安全门外）待机。
中英文言切换	操作系统可切换中英文言。
前进取出侧变控制	在产品尺寸较长时若直接行走，会与注塑机的安全门相遇，或侧变动作时，会与机械手暖风导轨相遇时，在取出上升位置将其移到可能侧变动作的位置后，再做侧变动作，从而避免相遇。
横行途中水平或垂直	模外侧在各位置执行侧变动作后再做下降动作，横行移动完成时及横行移动开始时的侧变动作能顺利进行，能缩短循环时间。
取出侧下降待机	使上下手臂接近模具，下降行程调到最短，缩短取出一时间。
堆叠功能	将产品按实际需求在置物区域内摆放。

选 配

预留I/O点增加	移动I/O点不够，可增加I/O点。
侧变力矩强化	强化机械手的侧变部，提高治具反转时的扭矩。
注塑机和机械手模具信息交换	机械手与注塑机交换模具信息，机械手与模具交换模具信息用BCD码信号交换及确认，注塑机换模后机械手自动调出对应的各种参数。

STANDARD AND OPTIONAL FUNCTION

STANDARD

Midway runner release	Runner is released at a place different from product.
Descent during mold open	Used to shorten the mould cycle by starting the descending of arm on the way to mold open.
Mold close during arm ascent	Used to shorten the molding time by starting the mold closing on the way to ascent.
Plastic runner can be released at anyplace of the traverse axis	Runner is released at a place different from product.
Internal memory storage	Controller memory for mold program information.USB device for ease of program storage, even during normal operation, which is faster and more convenient.
Alarm (Buzzer) optional	The alarm lamp (Buzzer) is switched on a light when there is a alarm(error) in the robot.
Conveyor interface	Control conveyor functions.
Air nipper circuit	While cutting runner, use this function. (Scissor device is optional)
Fixed side/moving side switch	Injection molding machines is designed to eject product from the moving side normally. Use fixed-side/moving side function to suit for ejecting product from the side of moving side.
Vacuum confirmation circuit	While part need to use suction cup by vacuum, it can be confirmed by this circuit.
Mould area movement	Robot can move freely in the mould area to take out the product with barb or others.
Release or grip in mould area	Can release part or runner in mould area after grip the runner or absorbs the part.
Defective product reject circuit	Defective products are separated by interface signal from IMM.
Outside mould area stand-by	Robot can stan-by outside mould (outside the safety door) when robot end arm meets those mould obstructions.
Chinsees and English language selection	Language can be changed between Chinese and English.
Product extract posture control	Used to carry out posture action until arm ascent to a proper position to do the movement. In order to avoid collide with the safety door of IMM or the robot arm truck during the moving section.
Horizontal or Vertical During Traverse	The product release after each posture is carried out at product release position. All the cycles can also be shorten by carrying out posture smoothly as traverse moving over and starting to return.
Arm descent delay	Used to shorten the extraction time by letting the vertical arm stand by at just top of the mold before mold open, and adjust the extraction stroke to the shortest.
Stacking	Used to stack product at an arbitrary position within the region according to the actual requirements.

OPTIONAL

Reserved additional I/O point	Additional inputs and outputs points are available if the standard ones are not enough.
Reinforcement of posture torque	Reinforce the posture part, and improve torque when the EOAT rotating.
Robot and I.M.M. information exchange manipulators	Robot and I.M.M. information exchange manipulators use BCD signal switching and confirmation, robot can call those corresponding parameters automatically after I.M.M. changed mold.

SMART
智慧型

www.kefairobot.com

11/12

KAW

三轴框架伺服机械手臂

THREE-AXIS FRAME SERVO MANIPULATOR



● 适合1000-1200吨注塑机使用

XYZ均采用进口AC伺服电机驱动。XYZ手臂均使用进口的高刚性线性滑轨。XYZ手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定性，并且可配合厂房高度低的场所，手臂采用90°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气管路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度90°。

● Suitable for 1000-1200T injection molding machine

XYZ are driven by imported AC servo motors. The XYZ arms use the imported high-rigid linear sliding rails. The XYZ arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 90°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 90°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-2000	KAW-2200
手臂型式/Type	双段 (Telescopic type)		
上下行程/Vertical stroke	mm	2000	2200
前后行程/Crosswise stroke	mm	2200	2400
横行程/Swing stroke	mm	3200	3500
驱动方式/Drive system	XYZ轴-伺服 (XYZ-Servo motor)		
姿势角度/Gripper rotation angle	°	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3
最小取出时间/Minimum take time	sec	2	2
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5
工作气压/Working air pressure	kgf/cm ²	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25
电源消耗量/Power consumption	KVA	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	800	900

注：图片仅供参考，随着产品不断更新，请以实物为准！

Note: The picture is for reference only. As the product is constantly updated, please refer to the actual product!

KAW

三轴侧挂伺服机械手臂

THREE-AXIS SIDE-MOUNTED SERVO MANIPULATOR



适合320-680吨注塑机使用

XYZ均采用进口AC伺服电机驱动。XYZ手臂均使用进口的高刚性线性滑轨。XYZ手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定度，并且可配合厂房高度低的场所，手臂采用270°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气管路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度270°。

Suitable for 320-680T injection molding machine

XYZ are driven by imported AC servo motors. The XYZ arms use the imported high-rigid linear sliding rails. The XYZ arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 270°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 270°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-1100	KAW-1300	KAW-1500
手臂型式/Type		双段 (Telescopic type)		
上下行程/Vertical stroke	mm	1100	1300	1500
前后行程/Crosswise stroke	mm	1450	1550	1650
横行程/Swing stroke	mm	2300	2300	2500
驱动方式/Drive system		XYZ轴-伺服 (XYZ - Servo motor)		
姿势角度/Gripper rotation angle	°	270	270	270
最大荷重 (含制具) / Max load (with tool)	kg	10	10	10
最小取出时间/Minimum take time	sec	3	3	3
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	9.5
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	25
电源消耗量/Power consumption	KVA	1.5	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	260	270	280

注：图片仅供参考，随着产品不断更新，请以实物为准！

Note: The picture is for reference only. As the product is constantly updated, please refer to the actual product!

KAW

三轴侧挂伺服机械手臂
THREE-AXIS SIDE-MOUNTED
SERVO MANIPULATOR

适合90-320吨注塑机使用

XYZ 均采用进口AC伺服电机驱动。XYZ 手臂均使用进口的高刚性线性滑轨。XYZ 手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定度，并且可配合厂房高度低的场所，手臂采用90°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度 90°。

Suitable for 90-320T injection molding machine

XYZ are driven by imported AC servo motors. The XYZ arms use the imported high-rigid linear sliding rails. The XYZ arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 90°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 90°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAW-750	KAW-850	KAW-950
手臂型式/Type	双段 (Telescopic type)			
上下行程/Vertical stroke	mm	750	850	950
前后行程/Crosswise stroke	mm	800	1100	1200
横行程/Swing stroke	mm	1680	2000	2300
驱动方式/Drive system	XYZ 轴-伺服 (XYZ - Servo motor)			
姿势角度/Gripper rotation angle	°	90	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3	3
最小取出时间/Minimum take time	sec	2	2	2
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	9.5
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	25
电源消耗量/Power consumption	KVA	1.5	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	220	230	230

注：图片仅供参考，随着产品不断更新，请以实物为准！

Note: The picture is for reference only. As the product is constantly updated, please refer to the actual product!

KAF

两轴伺服机械手臂

TWO-AXIS SERVO MANIPULATOR



► 适合90-320吨注塑机使用

Y Z 均采用进口AC伺服电机驱动。Y Z 手臂均使用进口的高刚性线性滑轨。Y Z 手臂使用质量轻高刚性铝合金结构梁，能达到取出速度快、动作平稳顺畅、高效能、震动小、使用寿命长的要求。

双截式手臂

采用高刚性线性滑轨及铝合金结构梁，特殊设计齿条加皮带倍速结构，大幅度的缩短上下手臂的高度，上下只需一半的行程即可达到全行程。除了可增加上下行程速度及稳定度，并且可配合厂房高度低的场所，手臂采用90°互锁结构，使手臂更加稳定、顺畅快速。产品专利号：CN201620682443.8

治具回路

预留气管路与检测信号，预留二吸一抱三个回路，可做吸夹抱等取出治具，可满足各种成品的取出要求。侧姿机构可配合公模或母模取出。旋转角度 90°。

► Suitable for 90-320T injection molding machine

Y Z are driven by imported AC servo motors. The Y Z arms use the imported high-rigid linear sliding rails. The Y Z arm uses the light-weight and high-rigid aluminum alloy structural beams, which can meet the requirements of fast fetching, smooth and unhindered action, high efficiency, low vibration and long service life.

Double-section arm

It adopts the high-rigid linear sliding rails, aluminum alloy structural beams, specially designed rack and belt speed multiplier, which greatly shortens the height of upper and lower arms. It takes only half of the stroke to reach the full stroke. In addition to increasing the speed and stability of the up and down stroke, it can adapt to the places with low height in the factory and uses a 90°-interlocking equipment to make the arm more stable, smooth and fast. Product patent number: CN201620682443.8.

Jig circuit

The pneumatic pipeline and inspection signal are pre-set for the jig, with three return circuits for both sucking and holding. This structure can be used for such take-out operations of the jig as sucking, nipping and holding, as well as for take-out of various finished products. The side mechanism can be removed by using the male or female mold. The rotation angle is 90°.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAF-750	KAF-850	KAF-950
手臂型式/Type		双段 (Telescopic type)		
上下行程/Vertical stroke	mm	750	850	950
前后行程/Crosswise stroke	mm	800	1100	1200
横行程/Swing stroke	mm	1680	2000	2300
驱动方式/Drive system		Y Z 轴-伺服 (Y Z - Servo motor)		
姿势角度/Gripper rotation angle	o	90	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3	3
最小取出时间/Minimum take time	sec	2	2	2
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	9.5
工作压力/Working air pressure	kgf/cm ²	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	25
电源消耗量/Power consumption	KVA	1.5	1.5	1.5
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	220	230	230

注：图片仅供参考，随着产品不断更新，请以实物为准！

Note: The picture is for reference only. As the product is constantly updated, please refer to the actual product!

标准功能与选配功能

标 配

真空吸着确认回路	当产品需要通过真空回路利用吸盘等治具取出时，吸着确认回路的标准配置为1组。（增加需另购）
模内移动功能	可在模具内任意横行移动，取出有倒钩的产品。
模具内夹放	在模具内夹住水口料头或吸住产品取出后，可在模内放开水口料头及产品。
模外待机功能	如模具上的障碍物与手臂或治具板相遇时，使手臂在行走复归途中在模外（安全门外）待机。
中英语言切换	操作系统可切换中英语言。
固定模式	固定取产品模式。
输送带接口	控制输送带运行、停止功能。
自由编辑模式	教导程式自由编辑，可任意编辑非固定模式外的附加动作。
模外慢速下降功能	当产品取出至置物区使手臂缓慢下降，避免发生意外。
抱具压力精密调整功能	可对抱具的压力进行精密调整，以保证稳定取出的同时不损伤产品。
快速排气	增加排气阀以便在换模调整时快速除系统内的气体，免除不规范作业。（拔气管排气）
中板模感应	中板模到位信号确认后，手臂才会下行。

选 配

剪刀回路	利用气动剪刀治具对产品上的水口料头进行剪切时，需要此功能。（剪刀装置另购）
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STANDARD AND OPTIONAL FUNCTION

STANDARD

Vacuum confirmation circuit	While part need to use suction cup by vacuum, 1 set for standard, (additional one need pay)
Mould area movement	Robot can do horizontal movement freely in the mould area to take out the product with barb or others.
Release or grip in mould area	Can release part or runner in mould area after grip the runner or absorbs the part.
Outside mould area stand-by	Robot can stan-by outside mould (outside the safety door) when robot end arm meets those mould obstructions.
Chinses and English language selection	Language can be changed between Chinese and English.
Standard program sequences	Use with standard program sequences.
Conveyor interface	Control conveyor to run or stop.
Free edit mode	Freely programmable teach programs for flexible applications
Out mould descent slow speed	Used to slow the speed when the product is taken out mould, to avoid accidents.
Grip pressure	You can have a precision adjustment of the grip pressure to ensure the products can be take out stability without any damage.
Quick exhaust	The exhaust valve at the air supply system is added to exhaust air quickly to release air pressure, it is used when a new mould will be changed to reset all actions, with this function an operator don't need to do a improper operation (Remove the air supply system connector to exhaust) to avoid any damage.
Mid-Mould induction	Just after the mid-mould in right position sinal confirmed, the robot second arm (assistant arm) will move down into mould area.

OPTIONAL

Air nippor circuit	While cutting runner, use this function. (Scissor device is optional)
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INTELLIGENT
智能型

www.kefairobot.com

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KAS

一轴框架伺服机械手臂
ONE-AXIS FRAME SERVO
MANIPULATOR

► 适合200-320T注塑机使用

新一代一轴框架伺服机械手臂是经过多年市场需要演变而来的高性能机械手臂，引拔采用框架式加线性滑轨配合，（取消老式框架结构加导杆的模式），模内快速下降时手臂下降到底不摇晃，从而快速取出产品，缩短成型周期。

► Suitable for 200-320T injection molding machine

The new-generation one-axis frame servo manipulator is the high-performance manipulator that has evolved over the years as the market needs. It uses the frame linear sliding rail (replace the old frame structure and the guide rod), and the mold is rapidly descending. The arm lowers the molds without shaking to quickly take out the products and shorten the molding cycle.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAS-850PR	KAS-950PR	KAS-1100PR
手臂型式/Type		双段 (Double section)		
上下行程/Vertical stroke	mm	850	950	1100
前后行程/Crosswise stroke	mm	800	900	1000
横行程/Swing stroke	mm	1840	1840	2000
驱动方式/Drive system		Z轴-伺服 (Z-Servo motor)		
姿势角度/Gripper rotation angle	°	90	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3	3
最小取出时间/Minimum take time	sec	2	2	2.5
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	10
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	30
电源消耗量/Power consumption	KVA	1.5	1.5	1.8
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	220	230	240

注：图片仅供参考，随着产品不断更新，请以实物为准！

Note: The picture is for reference only. As the product is constantly updated, please refer to the actual product!

KAS

一轴框架伺服机械手臂

ONE-AXIS FRAME SERVO
MANIPULATOR

► 适合200-320T注塑机使用

新一代一轴框架伺服机械手臂是经过多年市场需要演变而来的高性能机械手臂，引拔采用框架式加线性滑轨配合，（取消老式框架结构加导杆的模式），模内快速下降时手臂下降到底不摇晃，从而快速取出产品，缩短成型周期。

► Suitable for 200-320T injection molding machine

The new-generation one-axis frame servo manipulator is the high-performance manipulator that has evolved over the years as the market needs. It uses the frame linear sliding rail (replace the old frame structure and the guide rod), and the mold is rapidly descending. The arm lowers the molds without shaking to quickly take out the products and shorten the molding cycle.

主要规格 Main specifications

机型/Model	单位 (Unit)	KAS-850PR	KAS-950PR	KAS-1100PR
手臂型式/Type		双段 (Double section)		
上下行程/Vertical stroke	mm	850	950	1100
前后行程/Crosswise stroke	mm	800	900	1000
横行程/Swing stroke	mm	1840	1840	2000
驱动方式/Drive system		Z轴-伺服 (Z-Servo motor)		
姿势角度/Gripper rotation angle	o	90	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3	3
最小取出时间/Minimum take time	sec	2	2	2.5
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5	10
工作气压/Working air pressure	kgf/cm ²	5-7	5-7	5-7
空气消耗量/Air consumption	NL/cycle	25	25	30
电源消耗量/Power consumption	KVA	1.5	1.5	1.8
电源/Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/Net weight	kg	220	230	240

注：图片仅供参考，随着产品不断更新，请以实物为准！

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KAS

一轴侧挂伺服机械手臂

ONE-AXIS SIDE-MOUNTED SERVO
MANIPULATOR

► 适合90-160吨注塑机使用

一轴侧挂伺服系列机械手是科辉新一代的通用型机械手，引拔X轴采用悬挂式结构设计，比普通导杆式机械手结构更稳定，使用寿命更长，模内快速下降取物。模外慢速下降置物，且“快拿轻放”动作功能，针对不同产品配备各类治具，实现稳定、完美的取出动作，使整机的维护更为安全、方便，此款机械手可广泛应用于换模具事低，产品取出方式相对简单的产品，如：保温瓶、小家电外壳、电子电器类等。

► Suitable for 90-160T injection molding machine

One-axis side-hanging servo manipulator series is the new-generation universal manipulator manufactured by Kehui. It has the more stable structure and longer service life than the ordinary guide-rod manipulator and. It can fetch goods quickly in the mold and place the goods slowly outside the mold. The “quickly fetching and lightly placement” function can achieve the stable and perfect fetching actions and ensure the convenient and safe maintenance for different products by using various jigs. This manipulator can be widely used for the products with lower mold replacement frequency and relatively simple fetching mode, such as: thermos bottle, small appliance shell, electronics etc.

主要规格 Main specifications

机型/ Model	单位 (Unit)	KAS-650P	KAS-750P
手臂型式/ Type	单段 (Telescopic type)		
上下行程/ Vertical stroke	mm	650	750
前后行程/ Crosswise stroke	mm	800	900
横行程/ Swing stroke	mm	1680	1680
驱动方式/ Drive system	Z轴-伺服 (Z-Servo motor)		
姿势角度/ Gripper rotation angle	o	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3
最小取出时间/ Minimum take time	sec	2	2
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5
工作气压/ Working air pressure	kgf/cm ²	5-7	5-7
空气消耗量/ Air consumption	NL/cycle	25	25
电源消耗量/ Power consumption	KVA	1.5	1.5
电源/ Power	AC	220V 50/60Hz	220V 50/60Hz
净重/ Net weight	kg	220	230

注：图片仅供参考，随着产品不断更新，请以实物为准！

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KAS

一轴侧挂伺服机械手臂

ONE-AXIS SIDE-MOUNTED SERVO
MANIPULATOR

► 适合90-160吨注塑机使用

一轴侧挂伺服系列机械手是科辉新一代的通用型机械手，引拔X轴采用悬挂式结构设计，比普通导杆式机械手结构更稳定，使用寿命更长，模内快速下降取物。模外慢速下降置物，且“快拿轻放”动作功能，针对不同产品配备各类治具，实现稳定、完美的取出动作，使整机的维护更为安全、方便，此款机械手可广泛应用于换模具事低，产品取出方式相对简单的产品，如：保温瓶、小家电外壳、电子电器类等。

► Suitable for 90-160T injection molding machine

One-axis side-hanging servo manipulator series is the new-generation universal manipulator manufactured by Kehui. It has the more stable structure and longer service life than the ordinary guide-rod manipulator and. It can fetch goods quickly in the mold and place the goods slowly outside the mold. The “quickly fetching and lightly placement” function can achieve the stable and perfect fetching actions and ensure the convenient and safe maintenance for different products by using various jigs. This manipulator can be widely used for the products with lower mold replacement frequency and relatively simple fetching mode, such as: thermos bottle, small appliance shell, electronics etc.

主要规格 Main specifications

机型/ Model	单位 (Unit)	KAS-650P	KAS-750P
手臂型式/ Type	单段 (Telescopic type)		
上下行程/ Vertical stroke	mm	650	750
前后行程/ Crosswise stroke	mm	800	900
横行程/ Swing stroke	mm	1680	1680
驱动方式/ Drive system	Z轴-伺服 (Z-Servo motor)		
姿势角度/ Gripper rotation angle	o	90	90
最大荷重 (含制具) / Max load (with tool)	kg	3	3
最小取出时间/ Minimum take time	sec	2	2
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	9	9.5
工作气压/ Working air pressure	kgf/cm ²	5-7	5-7
空气消耗量/ Air consumption	NL/cycle	25	25
电源消耗量/ Power consumption	KVA	1.5	1.5
电源/ Power	AC	220V 50/60Hz	220V 50/60Hz
净重/ Net weight	kg	220	230

注：图片仅供参考，随着产品不断更新，请以实物为准！

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KA

回斜式机械手臂
RECLINING MANIPULATOR

► 适合60-160T注塑机使用

整机采用模组化生产，高强度铝合金精密铸造，CNC加工成型取件手臂及引拔采用高强度铝挤出型材，配合精密线性滑轨，高速，高刚性，振动小，耐磨使用寿命长等优点。

► Suitable for 60-160T injection molding machine

The modular production and high-strength aluminum alloy precision casting is used for the overall machine and the high-strength aluminum extrusion profiles are used for CNC machine-shaping arm to achieve the high speed, high rigidity, lower vibration, abrasion resistance and long service life with the help of the precision linear sliding rails.

主要规格 Main specifications

机型/ Model	单位 (Unit)	KA-550	KA-650	KA-750
手臂型式/ Type	单段 (Telescopic type)			
上下行程/ Vertical stroke	mm	550	650	750
前后行程/ Crosswise stroke	mm	540	540	540
旋转角度/ Angle of rotation	o	50-90	50-90	50-90
爪缸角度/ Gripper rotation angle	o	90	90	90
最大荷重 (含制具) / Max load (with tool)	kg	2	2	2
最小取出时间/ Minimum take time	sec	1	1.2	1.5
空循环时间 (不含制具) / Dry cycle time (without tool)	sec	5	5.5	6.2
工作气压/ Working air pressure	kgf/cm ²	5—7	5—7	5—7
空气消耗量/ Air consumption	NL/cycle	10	11	12
电源消耗量/ Power consumption	KVA	0.2	0.2	0.2
电源/ Power	AC	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
净重/ Net weight	kg	35	37	40

注：图片仅供参考，随着产品不断更新，请以实物为准！
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承接台

让机械手发挥最大的效益，为配合机械手取物，提供有效的产品承接、输送功能，可根据注塑车间的实际情况，为您量身定做理想的产品输送设备。为注塑车间实现无人自动化生产提供最佳的整体自动化解决方案与服务。

Token-up platform

Customize the ideal product conveying equipment for you based on the actual conditions of injection workshop to enable the manipulator maximize the benefits, assisting the manipulator in taking goods and provide the effective product receiving and conveying functions. Provide the optimal integrated automation solutions and service for the injection workshop to achieve the unmanned automatic production.

承接台

输送带标准：

- ※ 高强度铝合金材料制造，重量轻、结构紧凑、外形精美
- ※ 高质量防静电橡胶工作平台，更有效保护产品外观。工作台面高度可自动调节，装配容易，适应各种工作场合
- ※ 可外接外部信号、配合自动化机械做连续运转或控制性运转

承接台标准：

- ※ 与机械手信号相连接，准确接住产品，保护产品
- ※ 不锈钢承接台面，不刮伤产品，外型美观耐磨
- ※ 下降后自动倾斜角度，将产品滑向工作台
- ※ 可调节上行程，可依据射出机与机械手高度调整

Token-up platform

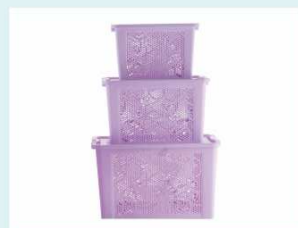
Conveyor belt standard

- ※ Made of high-strength aluminum alloy material, light weight, compact structure and beautiful appearance.
- ※ High-quality anti-static rubber working platform, effectively protecting the product appearance; automatically adjustable worktable height, easy in assembly and suitable for various workplaces.
- ※ Externally connect the external signals, and assist in the automatic machine in continuous operation or controlled operation.

Token-up platform

- ※ Connect with the manipulator signal to accurately catch the products and protect the products.
- ※ Stainless steel token-up platform, no product scratching, beautiful and wearable appearance.
- ※ Automatically tilt angle after falling, slide the products to the working platform.
- ※ The upstroke can be adjusted according to the height of injection molding machine and manipulator.





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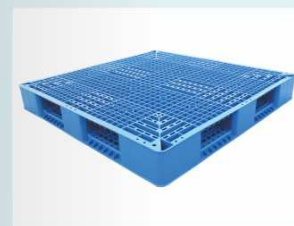
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备忘录

MEMORANDUM

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