



最专业的LED SMT方案提供商

Most Professional LED SMT Solution Provider

广东翊科自动化设备有限公司
Guangdong Langke Automation Equipment Co., Ltd

深圳市翊科自动化设备有限公司
Shenzhen Langke Automation Equipment Co., Ltd

东莞市翊科自动化设备有限公司
Dongguan Langke Automation Equipment Co., Ltd



朗科自动化是一家研发、生产、销售LED高速贴片机、无铅回流焊、半自动锡膏印刷机及SMT周边设备（SMT接驳台，全自動上板机，全自動下板机等）的国家级高新技术企业。

我司立足科技创新，潜心技术研究，注重产品质量及售后服务体系，拥有专业SMT售后工程师团队和经验丰富的SMT研发团队，致力于为客户提供更快捷高效的服务和更具竞争力的产品。

“高产能，高精度，高可靠性”是我们的经营理念。

为客户创造价值，为社会做出贡献，创建世界领先的中国企业是我们的目标。

目前，我们已经与超过500家中国客户建立合作关系，同时，我们正一步一步地拓展海外市场，相信我们稳定高质量的产品和专业的服务一定能赢得全球客户的信赖。

公司在专注于为客户提供超高速LED贴片机的同时，也在根据客户需求，拓展周边业务，投入大量资源研发和生产LED SMT周边设备，为客户提供一站式整体解决方案。

为了更快更好地服务客户，我司先后设立中山分公司、华东办事处以及印度售后服务点，欢迎广大新老客户来电或者到访。在经济全球化趋势下，我们真诚的希望和全球客户共同发展，我们将继续秉持“产品征服客户，服务感动客户”的经营理念，立足中国，服务全球。

优质的售后服务体系：

1. 整机2年质保期（直线电机10年质保）；
2. 免费软件更新服务；
3. 定期回访客户，搜集客户使用意见；
4. 提供最新技术以及设备支持；
5. 一次成交，终身服务。

Langke Automation is a nation high-tech enterprise which specialized in integrating R&D, production, sales and service for the LED high speed mounting machine, lead free reflow oven machine, semi-auto solder paste printer and SMT periphery equipment, such as SMT conveyor, SMT loader, SMT unloader ect.

Our company based on scientific and technological innovation, committed to technical research, focusing on product quality and after-sales service system, our company has a professional SMT after-sales engineer team and an experienced SMT research and development team, devote ourselves to providing customers with faster and more efficient service and more competitive products.

High output, high precision, high reliability is our business philosophy.

Creating value for our customers, contribute to society and create a world leading Chinese enterprise is our goal.

At present, we have established cooperative relations with more than 500 Chinese customers. At the same time, we are expanding overseas markets step by step. We believe that our stable high-quality products and professional services will win the trust of global customers.

While focusing on providing customers with super-high-speed LED placement machine, our company is also expanding peripheral business according to customer needs, investing a lot of resources in r&d and production of LED SMT peripheral equipment, to providing customers with one-stop overall solution.

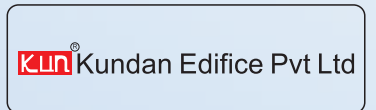
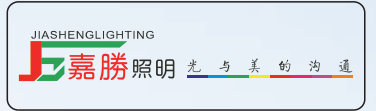
In order to provide better and faster service to our customers, our company We established Zhongshan branch, East China branch and Indian service office. welcome all of our customers call or visit us. under the trend of economic globalization, We sincerely hope to develop together with global customers, We will continue to uphold the business philosophy of “Product to conquer customers, Service moved customers”, Based in China, serve the global customers.

After-sale Service

1. 2 years warranty period for whole machine, 10years for linear motor;
2. Free software upgrade;
3. Visiting customer regularly and gather information.
4. Provide latest information about technology and equipment.
5. Once deal, life-long service.

H 荣誉客户

Honorary customers



(排名不分先后 This list is not ranked)

L500

双吸杆磁悬浮无导线灯带高速贴片机

Dual Nozzle Holder Linear Motor Ultra High Speed Wireless LED Strip Mounter



采用最新款大功率双磁铁磁悬浮直线电机加磁栅尺组合，动力更强劲，贴装更精确，直线电机10年保修
最新双吸杆结构，最小贴装间距6.5MM，产能可达CPH 270K；
配备第四代双马达电动飞达，满足双吸杆快节奏喂料需求，大大减少拉丝卡带现象；
采用真空吸附加定位气缸的进板方式，提高贴装精度；

Adopt the combination of new high power magnetic levitation linear motor and imported grating ruler, more powerful, more accurate mounting, 10 years warranty.

Adopt the latest double nozzle holder structure, the minimum mounting spacing is 6.5mm, the capacity can reach CPH 270K; Equipped with the fourth generation of double motor electric Feeder, to meet the needs of high speed feeding for double nozzle holder structure, greatly reduce the phenomenon of stuck tape;

Adopt PCB loading method of vacuum adsorption and positioning cylinder, improve the mounting accuracy.



- 第四代电动双马达飞达
- Fourth generation of double motor electric Feeder



- 新款大功率磁悬浮直线电机
- New high power magnetic levitation linear motor



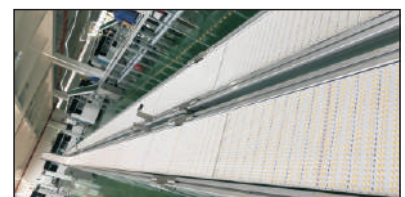
- 双吸杆结构
- Double Nozzle Holder Structure



- 漏料检测
- Visual Inspection



- 德国力士乐导轨
- German Rexroth Guide Rail



- 贴装效果
- Mounting Performance

技术参数 Features

型号(Model)	L500
PCB	
PCB尺寸/PCB Size	最大: W:280mm L:无限长 Max: W:280mm L:No limitation
PCB厚度/PCB thickness	0.3-5mm
PCB定位/PCB Positioning	CCD视觉, Mark点定位 CCD visual, Mark point positioning
PCB传送速度/PCB Transmitting Speed	320mm/s
PCB传送方向/PCB Transmitting Direction	前→后 Front to Back
贴装/Monuting	
贴装头驱动/Mounting Head Driver	磁悬浮直线电机 Maglev linear motor
贴装头数量/Mounting Head Amount	2头 2Heads
吸嘴数量/Nozzles Amount	每头32个, 共计64个 32 Pcs per head, totally 64Pcs
贴装精度/Mounting Accuracy	±0.03mm
贴片速度/Mounting Speed	250000 - 270000 CPH
重复精度/Repeat Accuracy	±0.01mm
最小贴片间距/Min Mounting Gap	6.5mm
贴片元件范围/Components Range	0805, 1206, 2835, 3014, 3528, 5050, 5630, 5730, RGB等LED带装料; 0805, 1206, 2835, 3014, 3528, 5050, 5630, 5730, RGB and other LED stripped material.
贴片元件高度/Component Height	10mm
飞达数量/Feeder Amount	48/64 Pcs
飞达种类/Feeder Type	双马达电动飞达 Dual motor electric feeder
贴装模式/Mounting Type	群取群贴 Group picking and group placing
进出板方式/PCB Input/Output Method	真空吸附+定位气缸传送 Vacuum Absorb + Positioning Cylinder Transmission
系统/System	
电脑系统/Computer System	Windows
操作软件/Operating Software	朗科独立开发 Independent R&D by Langke
视觉系统/Visual System	7套光学相机, 标配视觉飞拍, 漏料报警(可选装 漏件自动补料) 7 sets of optical camera. Equipped with Visual inspection for missing component alarm (Add missing component automatically is optional)
运动控制模块/Motion Control Module	固高/高川运动控制卡 Googol/Gaochuan motion control card
X、Y轴驱动	日本富士电机 Japanese Fuji Servo Motor
工作要求/Working Requirement	
电源/Power	交流50HZ, 三相380V±10%; 380V AC/50Hz/3 Phase
最大耗电量/Max Power	5.0 KW
气压/Air Pressure	0.5-0.8Mpa
工作环境温度/Temperature	23℃±3
尺寸及重量/Dimension	
外形尺寸/Dimension	2970*2500*1550mm
重量/Weight	2680KG

S500

双吸杆磁悬浮有导线灯带高速贴片机

Dual Nozzle Holder Linear Motor Ultra High Speed With Wire LED Strip Mounter



采用最新款大功率双磁铁磁悬浮直线电机加磁栅尺组合，动力更强劲，贴装更精确，直线电机10年保修
最新双吸杆结构，最小贴装间距6.5MM，产能可达CPH 270K；
配备第四代双马达电动飞达，满足双吸杆快节奏喂料需求，大大减少拉丝卡带现象；
采用德国进口力士乐导轨，更加静音、耐磨；

Adopt the combination of new high power magnetic levitation linear motor and imported grating ruler, more powerful, more accurate mounting, 10 years warranty.

Adopt the latest double nozzle holder structure, the minimum mounting spacing is 6.5mm, the capacity can reach CPH 270K; Equipped with the fourth generation of double motor electric Feeder, to meet the needs of high speed feeding for double nozzle holder structure, greatly reduce the phenomenon of stuck tape;

Adopt Germany imported Rexroth guide rail, more quiet wear - resistant.



- 第四代电动双马达飞达
- Fourth generation of double motor electric Feeder



- 新款大功率磁悬浮直线电机
- New high power magnetic levitation linear motor



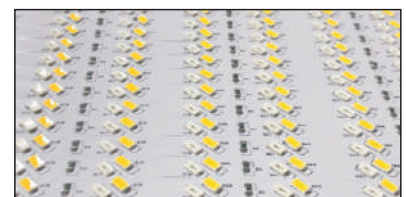
- 双吸杆结构
- Double Nozzle Holder Structure



- 高精度磁栅尺
- High Accuracy Magnetic Scale



- 德国力士乐导轨
- German Rexroth Guide Rail



- 贴装效果
- Mounting Performance

技术参数 Features

型号(Model)	S500
PCB	
PCB尺寸/PCB Size	最大: 1200*320mm 最小: 90*90mm Max:1200*320mm Min:90*90mm
PCB厚度/PCB thickness	0.5-5mm
PCB 定位/PCB Positioning	CCD视觉, Mark点定位 CCD visual, Mark point positioning
PCB传送速度/PCB Transmitting Speed	320mm/s
PCB传送方向/PCB Transmitting Direction	前→后 Front to Back
贴装/Monuting	
贴装头驱动/Mounting Head Driver	磁悬浮直线电机 Maglev linear motor
贴装头数量/Mounting Head Amount	2头 2Heads
吸嘴数量/Nozzles Amount	每头32个, 共计64个 32 Pcs per head, totally 64Pcs
贴装精度/Mounting Accuracy	±0.03mm
贴片速度/Mounting Speed	250000 - 270000 CPH
重复精度/Repeat Accuracy	±0.01mm
最小贴片间距/Min Mounting Gap	6.5mm
贴片元件范围/Components Range	0805, 1206, 2835, 3014, 3528, 5050, 5630, 5730, RGB等LED带装料; 0805, 1206, 2835, 3014, 3528, 5050, 5630, 5730, RGB and other LED stripped material.
贴片元件高度/Component Height	10mm
飞达站数/Feeder Amount	48/64 Pcs
飞达种类/Feeder Type	双马达电动飞达 Dual motor electric feeder
贴装模式/Mounting Type	群取群贴 Group picking and group placing
进出板方式/PCB Input/Output Method	皮带传送 Belt transfer
导轨尺寸/Conveyor Size	1300*330mm
系统/System	
电脑系统/Computer System	Windows
操作软件/Operating Software	朗科独立开发 Independent R&D by Langke
视觉系统/Visual System	5套光学相机(可选装视觉飞拍, 漏料报警, 漏件自动补料) 5 sets of optical camera (Visual inspection for missing component alarm is optional)
运动控制模块/Motion Control Module	固高/高川运动控制卡 Googol/Gaochuan motion control card
X、Y轴驱动	日本富士电机 Japanese Fuji Servo Motor
工作要求/Working Requirement	
电源/Power	交流50HZ, 三相380V±10%; 380V AC/50Hz/3 Phase
最大耗电量/Max Power	5.0 KW
气压/Air Pressure	0.5-0.8Mpa
工作环境温度/Temperature	23℃±3
外形/Dimension	
外形尺寸/Dimension	2600*2500*1550mm
重量/Weight	2680KG

L400

单吸杆磁悬浮无导线灯带高速贴片机

Single Nozzle Holder Linear Motor Ultra High Speed Wireless LED Strip Mounter



采用最新款大功率双磁铁磁悬浮直线电机加磁栅尺组合，动力更强劲，贴装更精确，直线电机10年保修
配备第四代电动双马达飞达，大大减少贴装过程中的拉丝和卡顿现象，使贴装更顺畅；
采用真空吸附加定位气缸的进板方式，使FPCB在贴装过程中保持稳定和平整，提高贴装精度；
采用一体成型铸铁机架，极大提高机器稳定性。

Adopts the combination of latest high-power maglev linear motor and imported grating ruler, more powerful, more accurately, we provide 10-year warranty for the motor;

Equipped with the fourth generation of electric double motor feeder, greatly reduce the drawing and stalling phenomenon in the process of mounting, so that mounting more smoothly;

Adopt PCB loading method of vacuum adsorption plus positioning cylinder, so that the FPCB in the process of mounting can keep stable and smooth, improve the mounting accuracy

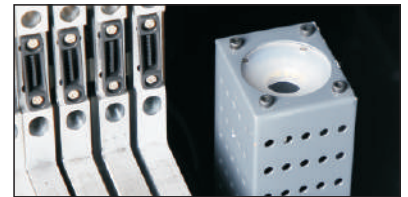
Adopt cast iron machine frame, make sure the machine can keep the fuselage stable in the process of high speed working.



- 第四代电动双马达飞达
- Fourth generation of double motor electric Feeder



- 新款大功率磁悬浮直线电机
- New high power magnetic levitation linear motor



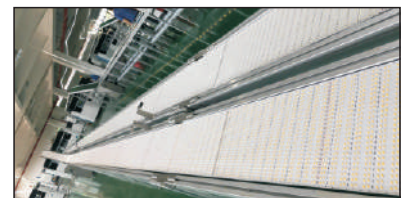
- 漏料检测
- Visual Inspection



- 真空吸附加定位气缸式进板平台
- Platform of vacuum adsorption plus positioning cylinder



- 德国力士乐导轨
- German Rexroth Guide Rail



- 贴装效果
- Mounting Performance

技术参数 Features

型号/Model	L400
PCB	
PCB尺寸/PCB Size	最大: W:280mm L:无限长 Max: W:280mm L:No limitation
PCB厚度/PCB thickness	0.3-5mm
PCB定位/PCB Positioning	CCD视觉, Mark点定位 CCD visual, Mark point positioning
PCB传送速度/PCB Transmitting Speed	320mm/s
PCB传送方向/PCB Transmitting Direction	前→后 Front to Back
贴装/Mounting	
贴装头驱动/Mounting Head Driver	磁悬浮直线电机 Maglev linear motor
贴装头数量/Mounting Head Amount	2头 2Heads
吸嘴数量/Nozzles Amount	每头18个, 共计36个 18 Pcs per head, totally 36Pcs
贴装精度/Mounting Accuracy	±0.03mm
贴片速度/Mounting Speed	150000 -190000 CPH
重复精度/Repeat Accuracy	±0.01mm
最小贴片间距/Min Mounting Gap	12.5mm
贴片元件范围/Components Range	0603,0805,1206,2835,3014,3528,5050,5630,5730,RGB等LED带装料; 0603,0805,1206,2835,3014,3528,5050,5630,5730,RGB and other LED stripped material.
贴片元件高度/Component Height	10mm
飞达数量/Feeder Amount	54/72 Pcs
飞达种类/Feeder Type	双马达电动飞达 Dual motor electric feeder
贴装模式/Mounting Type	群取群贴 Group picking and group placing
进出板方式/PCB Input/Output Method	真空吸附+皮带传送 Vacuum Absorb + Belt transfer
系统/System	
电脑系统/Computer System	Windows
操作软件/Operating Software	朗科独立开发 Independent R&D by Langke
视觉系统/Visual System	7套光学相机, 标配视觉飞拍, 漏料报警(可选装 漏件自动补料) 7 sets of optical camera. Equipped with Visual inspection for missing component alarm (Add missing component automatically is optional)
运动控制模块/Motion Control Module	固高/高川运动控制卡 Googol/Gaochuan motion control card
X、Y轴驱动	日本富士电机 Japanese Fuji Servo Motor
工作要求/Working Requirement	
电源/Power	交流50HZ, 三相380V±10%; 380V AC/50Hz/3 Phase
最大耗电量/Max Power	5.0 KW
气压/Air Pressure	0.5-0.8Mpa
工作环境温度/Temperature	23℃±3
外形/Dimension	
外形尺寸/Dimension	2970*2500*1550mm
重量/Weight	2680KG

S5

双头四站高速专用贴片机

Dual Heads Four Groups Feeder High Speed Placement Machine



实际产能可达190K CPH，可选配72支飞达。

最多可同时贴装8种物料，产能不受物料比例影响，4彩、6彩、7彩、单色5050、RGB通贴。

采用直线电机驱动贴装模组，进口磁栅尺定位贴装头运动，高速、精确，直线电机两年免维护,10年质保。

采用一体成型铸铁机架，极大提高机器稳定性。

Can mount max 8 kinds of component meanwhile and actual capacity can reach 190K.72 pieces feeders is optional.

Adopt imported linear motor and grating ruler to locate the position, make sure the machine mounting with high speed and high accuracy.

We provide 10 years guarantee for the linear motor.

Adopt cast iron machine frame,al grade carbon steel,make sure the machine can keep the fuselage stable in the process of high speed working.



- 新款大功率磁悬浮直线电机
- New high power magnetic levitation linear motor



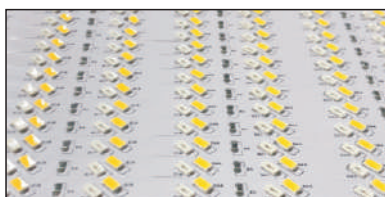
- 第四代电动双马达飞达
- Fourth generation of double motor electric Feeder



- 德国力士乐导轨
- German Rexroth Guide Rail



- 高精度磁栅尺
- High Accuracy Magnetic Scale



- 可贴装多种物料
- Can place variety of component



- 有导线灯带成品
- Finished With Wire LED Strip

技术参数 Features

型号(Model)	S5
PCB	
PCB尺寸/PCB Size	最大: 1200*320mm 最小: 50*50mm Max:1200*320mm Min:50*50mm
PCB厚度/PCB thickness	0.5-5mm
PCB定位/PCB Positioning	CCD视觉, Mark点定位 CCD visual, Mark point positioning
PCB传送速度/PCB Transmitting Speed	320mm/s
PCB传送方向/PCB Transmitting Direction	前→后 Front to Back
贴装/Monuting	
贴装头驱动/Mounting Head Driver	磁悬浮直线电机 Maglev linear motor
贴装头数量/Mounting Head Amount	2头 2Heads
吸嘴数量/Nozzles Amount	每头18个, 共计36个 18 Pcs per head, totally 36 Pcs
贴装精度/Mounting Accuracy	±0.03mm
贴片速度/Mounting Speed	150000 - 190000 CPH
重复精度/Repeat Accuracy	±0.01mm
最小贴片间距/Min Mounting Gap	12.5mm
贴片元件范围/Components Range	0603,0805,1206,2835,3014,3528,5050,5630,5730,RGB等LED带装料; 0603,0805,1206,2835,3014,3528,5050,5630,5730,RGB and other LED stripped material
贴片元件高度/Component Height	10mm
飞达站数/Feeder Amount	标配54支(可选配72支) 54PCS (72 PCS Optional)
飞达种类/Feeder Type	双马达电动飞达 Dual motor electric feeder
贴装模式/Mounting Type	群取群贴 Group picking and group placing
进出板方式/PCB Input/Output Method	皮带传送 Belt transfer
导轨尺寸/Guide Rail Size	1300*330mm
系统/System	
电脑系统/Computer System	Windows
操作软件/Operating Software	朗科独立开发 Independent R&D by Langke
视觉系统/Visual System	5套光学相机(可选装视觉飞拍, 漏料报警, 漏件自动补料) 5 sets of optical camera (Visual inspection for missing component alarm is optional)
运动控制模块/Motion Control Module	朗科独立开发运动控制卡 Langke Independent R&D motion control card
X、Z轴驱动/X Z Axis Driver	日本富士电机 Japanese Fuji Servo Motor
工作要求/Working Requirement	
电源/Power	交流50HZ, 三相380V±10%; 380V AC/50Hz/3 Phase
最大耗电量/Max Power	5.0 KW
气压/Air Pressure	0.5-0.8Mpa
工作环境温度/Temperature	23℃±3
尺寸及重量/Dimension	
外形尺寸/Dimesion	2600*2500*1550mm
重量/Weight	2680Kg

Remark: This model named L2D in overseas market

S3/S4

双头四站高速专用贴片机

Dual Heads Four Groups Feeder High Speed Placement Machine



实际产能可达150K CPH，可选配72支飞达。
最多可同时贴装8种物料，产能不受物料比例影响，4彩、6彩、7彩、单色5050、RGB通贴。
采用直线电机驱动贴装模组，进口光栅尺定位贴装头运动，高速、精确，直线电机两年免维护,10年质保。
一体机架，由工业级钢管及钢板焊接而成，极大提高机器稳定性。

Can mount max 8 kinds of component meanwhile and actual capacity can reach 150K.72 pieces feeders is optional.
Adopt imported linear motor and grating ruler to locate the position, make sure the machine mounting with high speed and high accuracy.
We provide 10 years guarantee for the linear motor.
Integrated machine frame,welded into a whole by industrial class steel tubes and panels, greatly increase the stability.



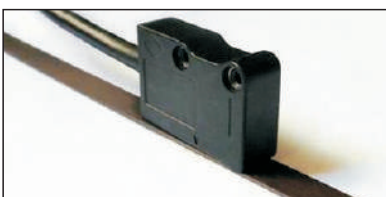
- 磁悬浮直线电机(10年质保)
- Maglev linear motor(10 years warranty)



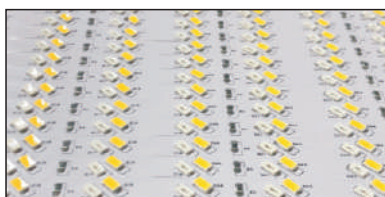
- 第四代电动双马达飞达
- Fourth generation of double motor electric Feeder



- 德国力士乐导轨
- German Rexroth Guide Rail



- 高精度磁栅尺
- High Accuracy Magnetic Scale



- 可贴装多种物料
- Can place variety of component



- 有导线灯带成品
- Finished With Wire LED Strip

技术参数 Features

型号(Model)	S3/S4
PCB	
PCB尺寸/PCB Size	最大: 1200*320mm 最小: 50*50mm Max:1200*320mm Min:50*50mm
PCB厚度/PCB thickness	0.5-5mm
PCB定位/PCB Positioning	CCD视觉, Mark点定位 CCD visual, Mark point positioning
PCB传送速度/PCB Transmitting Speed	320mm/s
PCB传送方向/PCB Transmitting Direction	前→后 Front to Back
贴装/Monuting	
贴装头驱动/Mounting Head Driver	磁悬浮直线电机 Maglev linear motor
贴装头数量/Mounting Head Amount	2头 2Heads
吸嘴数量/Nozzles Amount	每头18个, 共计36个 18 Pcs per head, totally 36 Pcs
贴装精度/Mounting Accuracy	±0.03mm
贴片速度/Mounting Speed	110000 - 150000 CPH
重复精度/Repeat Accuracy	±0.01mm
最小贴片间距/Min Mounting Gap	12.5mm
贴片元件范围/Components Range	0603,0805,1206,2835,3014,3528,5050,5630,5730,RGB等LED带装料; 0603,0805,1206,2835,3014,3528,5050,5630,5730,RGB and other LED stripped material
贴片元件高度/Component Height	10mm
飞达站数/Feeder Amount	标配54支(可选配72支)54PCS (72 PCS Optional)
飞达种类/Feeder Type	双马达电动飞达 Dual motor electric feeder
贴装模式/Mounting Type	群取群贴 Group picking and group placing
进出板方式/PCB Input/Output Method	皮带传送 Belt transfer
导轨尺寸/Guide Rail Size	1300*330mm
系统/System	
电脑系统/Computer System	Windows
操作软件/Operating Software	朗科独立开发 Independent R&D by Langke
视觉系统/Visual System	5套进口相机 5 sets of imported camera
运动控制模块/Motion Control Module	朗科独立开发运动控制卡 Langke Independent R&D motion control card
X、Z轴驱动/X Z Axis Driver	日本富士电机 Japanese Fuji Servo Motor
工作要求/Working Requirement	
电源/Power	交流50HZ, 单相220V±10%; 220V AC/50Hz/1 Phase
最大耗电量/Max Power	3.0 KW
气压/Air Pressure	0.5-0.8Mpa
工作环境温度/Temperature	23℃±3
尺寸及重量/Dimension	
外形尺寸/Dimesion	2650*2650*1650mm
重量/Weight	2000Kg

Remark: This model named L2D in overseas market

L4

无限长软板/无导线灯带专用贴片机

Infinite Length FPC/None Wire LED Strip Placement Machine



采用吸附式进板方式，配备先进的进板纠偏系统，每半米自动纠正进板偏差，提高贴装精度。
最多可同时贴装8种物料，产能不受物料比例影响，专为LED软板设计，可贴装0.5米至无限长软板。
精准及顺畅的进板方式，解决偏摆，可满足RGB的贴装需求。

采用直线电机驱动贴装模组，进口光栅尺定位贴装头运动，高速、精确，直线电机两年免维护，10年保修。
一体机架，由工业级钢管及钢板焊接而成，极大提高机器稳定性。

Adopting adsorption type feeding plate, equipped with advanced feeding plate rectifying system, every half meter automatically corrects the feeding plate deviation, improving the mounting accuracy.

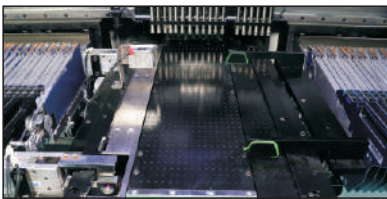
Machine can place 8 kinds of components (max) on the same time, special for the LED FPCB which is 0.5m to any length.

High precision and transport smooth, can solve the deflection problem and make sure RGB placement requirement.

Adopt imported linear motor and grating ruler to locate the position, make sure the machine mounting with high speed and high accuracy.

We provide 10 years guarantee for the linear motor.

Integrated machine frame, welded into a whole by industrial class steel tubes and panels, greatly increase the stability.



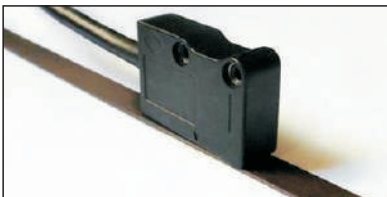
- 自动纠偏进板平台
- Automatic deviation correction PCB transmitting platform



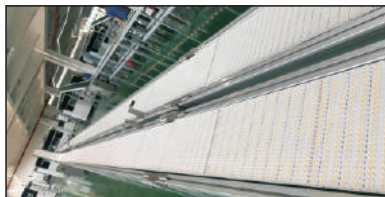
- 磁悬浮直线电机(10年质保)
- Maglev linear motor (10 years warranty)



- 德国力士乐导轨
- German Rexroth Guide Rail



- 高精度磁栅尺
- High Accuracy Magnetic Scale



- 贴装效果
- Mounting Performance



- 无导线灯带成品
- Finished Non-wire LED strip

技术参数 Features

型号(Model)	L4
PCB	
PCB尺寸/PCB Size	宽: 255mm 长: 任意长度 W:255mm L:Anylength
PCB厚度/PCB hickness	0.3-5mm
PCB 定位/PCB Positioning	CCD视觉, Mark点定位 CCD visual, Mark point positioning
PCB传送速度/PCB Transmitting Speed	320mm/s
PCB传送方向/PCB Transmitting Direction	前→后 Front to Back
贴装/Monuting	
贴装头驱动/Mounting Head Driver	磁悬浮直线电机 Maglev linear motor
贴装头数量/Mounting Head Amount	2头 2Heads
吸嘴数量/Nozzles Amount	每头18个, 共计36个 18 Pcs per head, totally 36 Pcs
贴装精度/Mounting Accuracy	±0.03mm
贴片速度/Mounting Speed	130000 - 150000 CPH
重复精度/Repeat Accuracy	±0.01mm
最小贴片间距/Min Mounting Gap	12.5mm
贴片元件范围/Components Range	0805, 1206, 2835, 3014, 3528, 5050, 5630, 5730, RGB等LED带装料; 0805, 1206, 2835, 3014, 3528, 5050, 5630, 5730, RGB and other LED stripped material
贴片元件高度/Component Height	10mm
飞达站数/Feeder Amount	标配54支(可选配72支)54PCS (72 PCS Optional)
飞达种类/Feeder Type	双马达电动飞达 Dual motor electric feeder
贴装模式/Mounting Type	群取群贴 Group picking and group placing
进出板方式/PCB Input/Output Method	真空吸附+皮带传送 Vacuum Absorb+Belt transfer
系统/System	
电脑系统/Computer System	Windows
操作软件/Operating Software	朗科独立开发 Independent R&D by Langke
视觉系统/Visual System	5套光学相机 5 sets of Optical camera
运动控制模块/Motion Control Module	朗科独立开发运动控制卡 Langke Independent R&D motion control card
X、Z轴驱动/X Z Axis Driver	日本富士电机 Japanese Fuji Servo Motor
工作要求/Working Requirement	
电源/Power	交流50HZ, 单相220V±10%; 220V AC/50Hz/1 Phase
最大耗电量/Max Power	3.0 KW
气压/Air Pressure	0.5-0.8Mpa
工作环境温度/Temperature	23℃±3
尺寸及重量/Dimension	
外形尺寸/Dimension	2650*1500*1650mm
重量/Weight	1600Kg

LK-AP500/1000

无导线灯带全自动锡膏印刷机

Wireless LED Strip Light Full-auto Solder Paste Printer



专利的数学运算模式，确保机器实现高精度的对位，印刷精度可达±0.05mm。

专用数控调节顶升平台：结构精准可靠，调节方便，可快速实现各类不同厚度灯带的印刷。

图像及光路系统：全新的光路系统，均匀的环形和高度的同轴光，配以均可无极调节的亮度功能，使得各类型的Mark点均可被很好的识别。

刮刀的压力、升降速度、印刷速度、印刷范围均可快速调节，以及刮刀可快速地取下进行锡膏清洁等，为设备操作人员提供了一个良好的印刷控制平台。

Patented mathematical operation mode, to ensure the machine to achieve high precision, printing accuracy up to 0.05mm.

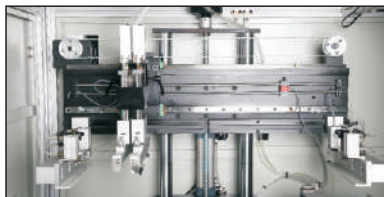
Special CNC adjustment platform: accurate and reliable structure, convenient adjustment, can quickly realize the printing of all kinds of FPCB of different thickness.

Image and optical path system: the new optical path system, uniform ring and high coaxial light, with the brightness function can be adjusted without pole, so that all types of Mark points can be well recognized.

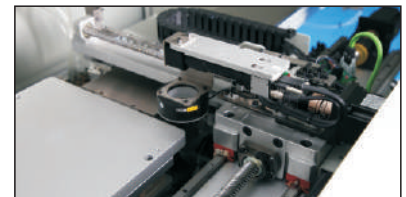
Pressure, up and down speed, printing speed, printing range of the scraper can be quickly adjusted, and scraper can be quickly removed for paste cleaning, providing a good printing control platform for equipment operators.



- 三菱运动控制CPU
- Mitsubishi Motion control CPU



- 快速钢网装夹系统
- Fast Stencil clamping system



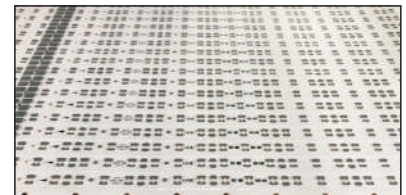
- 图像及光路系统
- Image and Optical System



- 伺服控制进板系统
- Servo Control PCB Loading System



- 伺服扭矩张紧系统
- Servo torque tensioning System



- 印刷效果
- Printing Performance

技术参数 Features

型号(Model)	LK-AP500 / LK-AP1000
钢网/Stencil	
钢网尺寸/Stencil Size	800*450mm / 1450*450mm
钢网网框厚度/Stencil Thickness	12-40mm
PCB	
PCB-尺寸/PCB Size	长:无限制 宽 :250MM Width:250MM Length: No limitation
PCB-厚度/PCB Thickness	0.05-1.2mm
PCB支撑方式/PCB Supporting Method	高平整度铝板 (os6061) High flatness aluminum plate (os6061)
PCB夹紧方式/PCB Clamping Method	气缸压紧+伺服扭矩张紧 (实时更新张紧力度) Air cylinder + Servo torque tensioning(Update tension strength in real time)
传送方式/Transmit Mode	
传输高度/Transport Height	900±100mm
送板速度/Transport Speed	500mm/s (可软件设置/Adjustable)
进板方向/PCB Loading Direction	左→右, 右→左 (设备组装时确定, 不可改) Light to right, or right to left(Be set while manufacturing)
进板方式/PCB Loading Method	模组拖拽+伺服辊轴 Drag by module + Servo Roller
联机方式/Connection Method	进板位置和出板位置均为本机感应信号 The position of PCB Loading and PCB Unloading are the induction signals of the machine
控制方式/Control Method	PC+三菱运动控制CPU PC + Mitsubishi Motion control CPU
印刷/Printing	
印刷头/Printing Head	气缸 (可调行程: 0-50MM) Air Cylinder(The adjustable stroke:0-50MM)
刮刀速度/Scrapper Speed	10-200mm/sec
刮刀类型/Scrapper Type	快拆式钢片刮刀 (角度45°) Detachable steel blade scrapper(Angle 45°)
清洗方式/Cleaning Method	可设定次数提醒人工清洗 Can be set in a certain number of printing to remind manual cleaning
相机纠偏范围/Camera Scanning Range	±5mm
重复定位精度/Repeated Positioning Accuracy	±0.02mm
印刷精度/Printing Accuracy	±0.05mm
印刷周期/Printing Cycle	≤16sec
操作系统/Operation System	Win7
工作要求/Working Requirements	
换线时间/Time for Switch Line	≤5min
主供气源/Air Consumption	5-6Kgf/cm ²
主供电源/Power	AC220V±10%,50/60Hz, 2.5KW
外形尺寸/Dimension	L1700*W1100*1950(mm) / L2500*W1100*1950(mm)

大型热风无铅回流焊 Hot air lead free reflow oven machine



型号 Model	LK-800	LK-1000	LK-1200
机体参数 GENERAL			
外型尺寸(L*W*H) (mm)	5300*1400*1500	6100*1400*1500	6900*1400*1500
颜色 Color	电脑灰 computer grey	电脑灰 computer grey	电脑灰 Computer grey
重量 Weight	2200/2300kg	2400/2500kg	2600/2700kg
加热区数量 Heating zones	上8下8 top 8 bottom 8	上10下10 top 10 bottom 10	上12下12 top 12 bottom 12
加热区长度 Heating length	3100mm	3800mm	4700mm
冷却区数量 Cooling zones	上2下2 top 2 bottom 2	上2下2 top 2 bottom 2	上2下2 top 2 bottom 2
整流板结构 Nozzle plate	厚铝板 Aluminium Alloy Plate	厚铝板 Aluminium Alloy Plate	厚铝板 Aluminium Alloy Plate
排风量要求 Exhaust volume	10m ³ /min*2(通道) Exhausts	10m ³ /min*2(通道) Exhausts	10m ³ /min*2(通道) Exhausts
控制系统 CONTROL SYSTEM			
电源要求 Power supply	3 phase 380V 50/60HZ (Option 3 phase 220V 50/60HZ)		
总功率 Total power	64/66kw	80/83kw	92/95kw
启动功率 Start power	28/32kw	34/36kw	38/40kw
正常消耗功率 Power consumption	9/11kw	10/11kw	11/12kw
升温时间 Warm-up time	About 30mins		
温度控制范围 Temperature setting range	室温-300℃ Room temperature-300℃		
温度控制方式 Temperature Control mode	PID闭环控制+SSR驱动 PID close loop control+ SSR driving		
温度控制精度 Temperature control precision	±1.0℃		
PCB板温度分布偏差 Temperature deviation on PCB	±2.0℃		
参数存储 Data storage	可存多种生产设置参数与状况 Process data and status storage(80GB)		
异常报警 Abnormal alarm	温度异常 (恒温后超高温或者超低温) Abnormal temperature (Extra-high or Extra-low Temperature)		
掉板报警 Board dropped alarm	三色信号灯: 黄-升温, 绿-恒温, 红-异常 Tower light: Yellow- Warming, Green-Normal, Red-Abnormal		
运输系统 CONVEYOR SYSTEM			
导轨结构 Rails Structure	整体分段式 Subsection integrated Type		
导轨固定方式 Fixed Rail mode	前端固定 (选配: 后端固定) Front rail fixed (Option: Rear rail fixed)		
链条结构 Chain Structure	单链扣 Single Buckle (选配: 双链扣 Option: double buckle)		
PCB最大宽度 Max width of PCB	400mm (选配 option: 600mm)		
导轨调宽范围 Range of Rail width	50-400mm (选配 option: 50-600mm)		
部品高度 Components clearance	上下各25mm top and bottom 25mm		
运输高度 Transport height	900±20mm		
运输方式 Transport method	网带 (可选配导轨) Mesh (Rail is optional)		
运输方向 Transport Direction	从左到右 Left to Right (选配: 从右到左 Option: Right to Left)		
运输速度 Transport speed	300-2000mm/min		
润滑油自动加注 Auto-Lubrication	自动或手动 Auto or Manual		
冷却系统 COOLING SYSTEM			
冷却方式 Cooling method	强制空气冷却 Force air cooling		
氮气系统 Nitrogen	Option		
中央支撑 Center support	Option		
双导轨运输 Dual conveyor	选配: 1, 4固定, 2,3活动 Option: front and rear fixed, 2 central rails are adjustable		

朗科半自动锡膏印刷机 Langke semi-auto solder paste printer



采用直线导轨,配合调速马达传动,确保机器稳定和印刷精密度
采用双启动按钮开关保证作业员作业的安全性
采用微电脑控制,显示屏显示菜单操作界面,人机对话更方便
可采用钢刮刀及橡胶刮刀
具有自动记数功能,方便产量统计
有固定沟槽和定位孔,安装调节方面,适用于单双面板印刷

Adopt Linear rail and adjustable motor to make sure the stability of device and its printing accuracy

Adopting the creative switch with dual security buttons to ensure the operator safety

Microcomputer control, Screen display menu operation interface, more easy human-machine dialogue

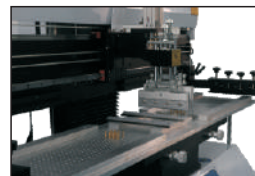
Steel scraper and rubber scraper can be used

Automatic counting function, more convenient for collecting production capacity

With fixed grooves and PIN holes, easy to install and adjust, suitable for single and double panel printing

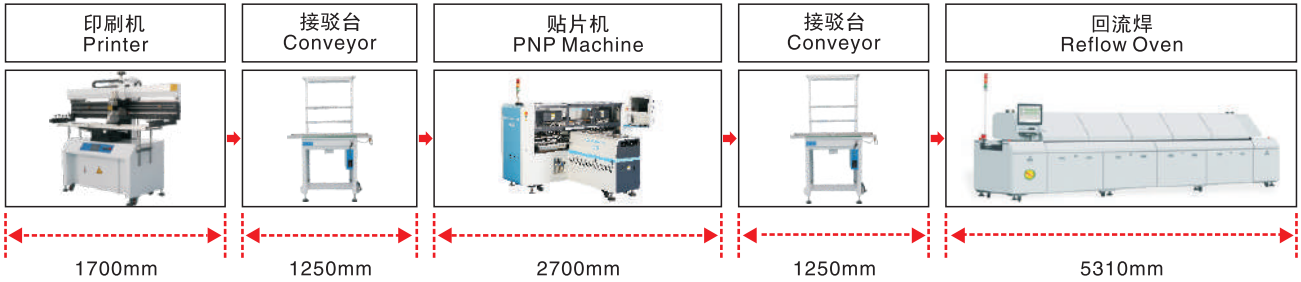
技术参数 Features

型号Model	S400	S600	S1200
外形尺寸Dimensions(mm)	850*800*1650	1000*800*1650	1700*800*1650
印刷台尺寸Print table size(mm)	320*400	320*600	320*1300
基板尺寸PCB size(mm)	250*350	250*550	250*1200
网框尺寸Screen frame size(mm)	550*680	550*830	550*1500
印刷速度Printing speed	Labour control		
基板厚度PCB thickness	0.2-5mm		
台板微调Platen adjustment	前/后 ±10mm Front/rear ±10mm		
电源Power supply	1P AC220V 50/60HZ		
操作台高度Platform height	850±20mm		
重复精度Repeating precision	±0.02mm		
印刷精度Printing Accuracy	±0.02mm		
定位方式Positioning mode	基板大小/基准针PCB Size/ reference Pin		
重量Weight	Approx.260Kg	Approx.280Kg	Approx.300Kg

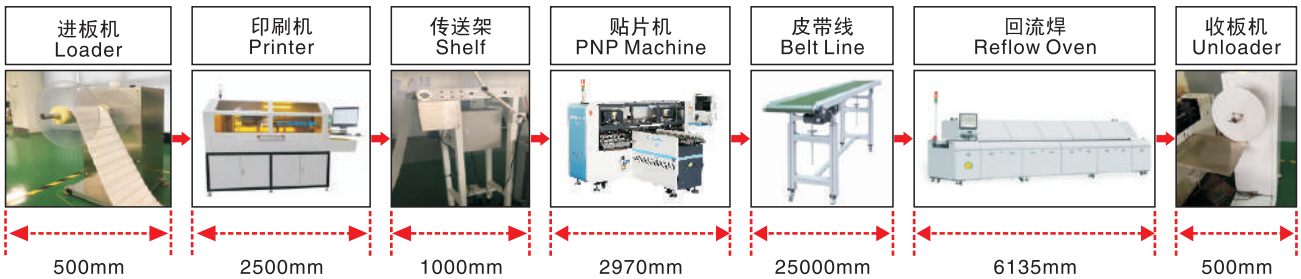


朗科超高速LED贴片线配置方案 Langke Super High Speed LED SMT Solution

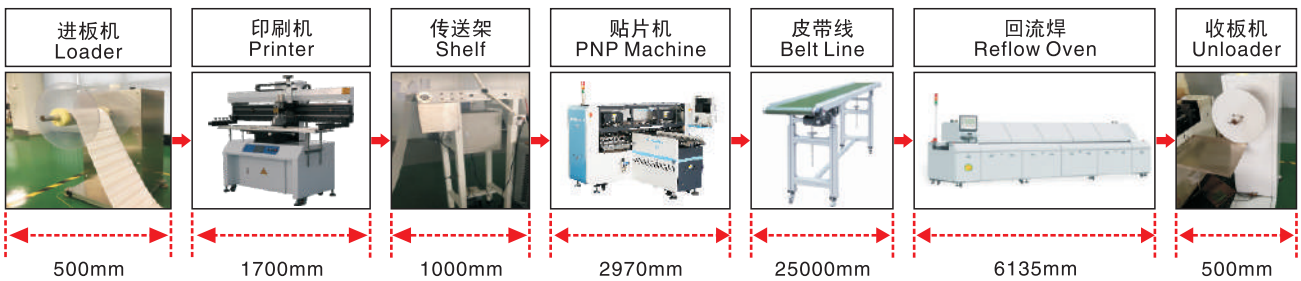
S500双吸杆有导线灯带贴片线 S500 Double Nozzle Holder With Wire LED Strip SMT Line



L500双吸杆无导线灯带全自动贴片线 L500 Double Nozzle Holder Wireless LED Strip Full-auto SMT Line



L500双吸杆无导线灯带半自动贴片线 L500 Double Nozzle Holder Wireless LED Strip Semi-auto SMT Line

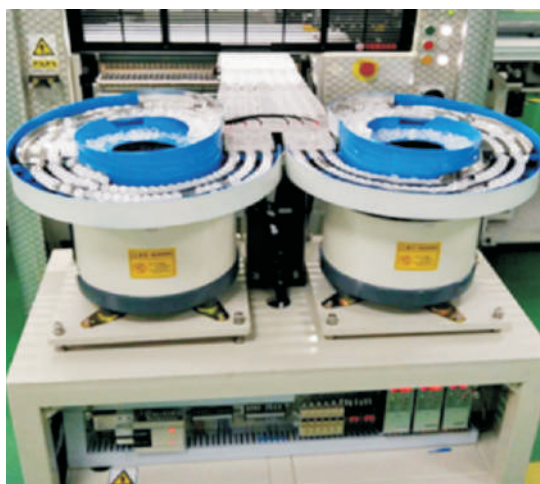


无导线灯带SMT 生产线产能计算 Capacity of The None Wire LED Strip SMT Line

备注：假设每米灯带160颗料，每贴1米板需耗费6秒进行马克点扫描及进板纠偏。
Remarks: Assuming 160 LED chips/m/Line, it costs 6s to scan the Mark point and fix the PCB input deviation.

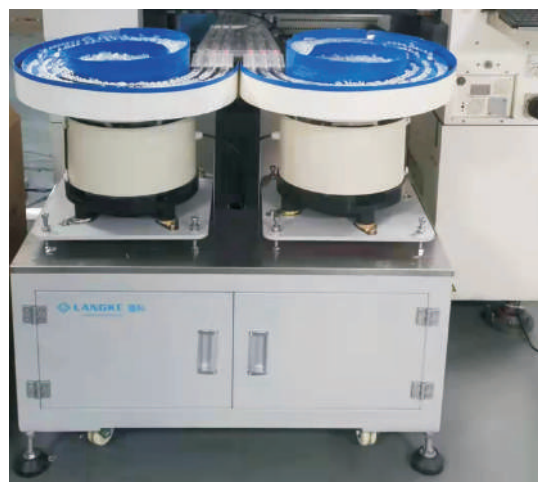
机器实际运行周期 (秒/次) Actual cycling time (Second/time)	拼板数量 (拼) Row Quantity (Line)	使用吸嘴数量 (支) Nozzle Amount (Pcs)	理论产能 (颗/每小时) Theoretical Capacity (CPH)	扫Mark点及纠偏损耗 (颗/每小时) Mark Point Scanning and Deviation fixing loss (CPH)	实际产能 (颗/每小时) Actual Capacity (颗/每小时)
0.9	32	64	256000	26000	230000

散装透镜供料机器 Bowl feeder



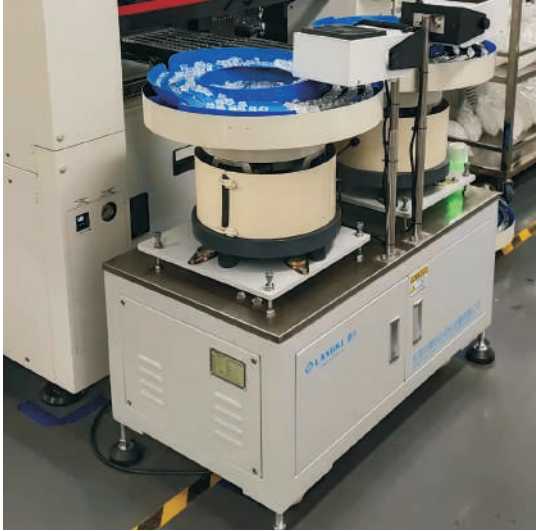
贴片机型号Model of pick and place machine	iPulse M10
供料产能Feeder Mounting capacity	12K CPH
取料高度Picking height	900±40mm
取料数量Picking amount	6Pcs
工作气压Air pressure	0.5Mpa
电源功率Power supply	AC110V/220V 1.2kw
重量Weight	220kg
机器尺寸Dimension	900*550*1280mm

搭配贴片机Pick and Place Machine model	JUKI JX350
供料产能Feeder Mounting capacity	9K CPH
取料高度picking Height	900±40mm
吸取数量Picking Amount	3Pcs(6Pcs可选6Pcs optional)
工作气压Air Pressure	0.5Mpa
功率Power	1KW
电源Power Supply	AC110V/220V
重量Weight	150KG
外形尺寸Dimension	600*600*1280mm



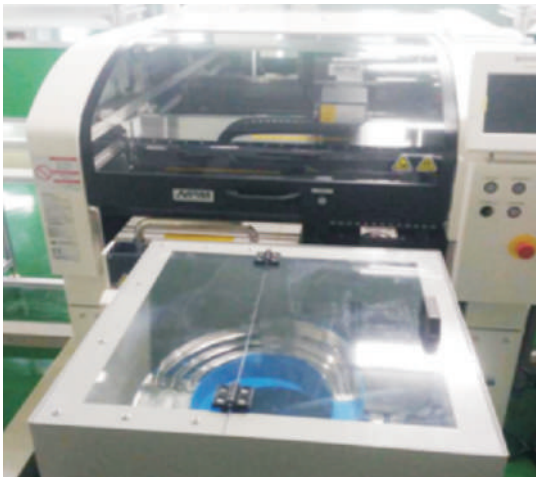
搭配贴片机Pick and Place Machine model	SAMSUNG 120S
供料产能Feeder Mounting capacity	10K CPH
取料高度Picking Height	900±40mm
单臂吸取数量One arm Picking Amount	5 Pcs(每次)(2个臂*2台供料器)
工作气压Air Pressure	0.5Mpa
功率Power	1.2KW
电源Power Supply	AC110V/220V
重量Weight	200KG
外形尺寸Dimension	920*500*1050mm

散装透镜供料机器 Bowl feeder



搭配贴片机Pick and Place Machine model	SAMSUNG DECAN L2
供料产能Feeder Mounting capacity	12K CPH
取料高度Picking Height	900±40mm
单臂吸取数量One arm Picking Amount	6 Pcs(每次)(2个臂*2台供料机)
工作气压Air Pressure	0.5Mpa
功率Power	1.0KW
电源Power Supply	AC110V/220V
重量Weight	160KG
外形尺寸Dimension	600*600*1050mm

搭配贴片机Pick and Place Machine model	Yamaha YS12F/YG12F
供料产能Feeder Mounting capacity	8K CPH
取料高度Picking Height	900±40mm
吸取数量Picking Amount	5Pcs
工作气压Air Pressure	0.5Mpa
功率Power	1.0KW
电源Power Supply	AC110V/220V
重量Weight	160KG
外形尺寸Dimension	600*600*1200mm



搭配贴片机Pick and Place Machine model	Panasonic NPM-W2
供料产能Feeder Mounting capacity	10K CPH
取料高度Picking Height	900±40mm
单臂吸取数量Single Arm Picking Amount	3 Pcs*2
工作气压Air Pressure	0.5Mpa
功率Power	1.0KW
电源Power Supply	AC110V/220V
重量Weight	150KG
外形尺寸Dimension	600*600*1200mm

企业证书

Enterprise Certificates



现场案例

Practical Cases





LANGKE AUTOMATION.

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