

BOREY | ^{an} **ASMP**
company

博瑞先进

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公众号

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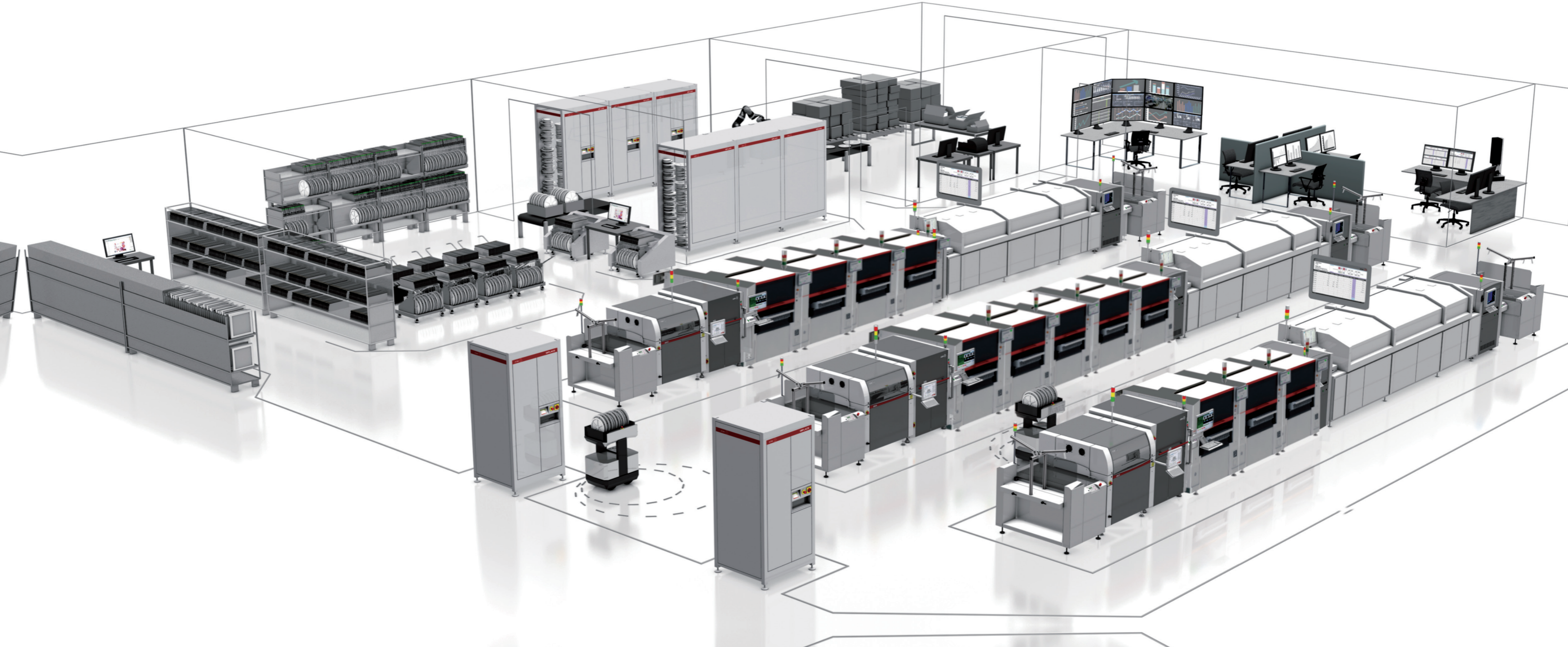


全球领先的SMT解决方案提供商

The World's Leading SMT Solution Provider

北京博瑞先进科技有限公司

Beijing Borey Advanced Technology Co.,Ltd.



北京博瑞先进科技有限公司 Beijing Borey Advanced Technology Co.,Ltd.

Beijing Borey Advanced Technology Co., LTD. (Borey Advanced) was founded in 2023. The main products are full-automatic Pick & Place Machine. We are committed to becoming the World's Leading SMT Solution Provider. As a technology-driven as the core of the high-tech company, we devote to provide customers with high stability, high precision, high efficiency, cost-effective products and whole line solutions. We pay more emphasis on the construction of Enterprise Brand, Service and Culture, and constantly improve the technical level and industry influence, to provide high-quality services and support for the global electronics industry.

北京博瑞先进科技有限公司(简称:博瑞先进)创立于2023年,主要产品以全自动贴片机为主,我们致力于成为全球领先的SMT解决方案提供商,作为一家以技术驱动为核心的高科技企业,持之以恒为客户提供高稳定性,高精度,高效率,高性价比的产品及整线解决方案;我们更加注重企业的品牌,服务和文化建设,不断提高技术水平和行业影响力,为全球电子产业提供优质的服务与支持。



公司愿景 VISION

The World's Leading SMT Solution Provider
全球领先的SMT解决方案提供商

公司使命 MISSION

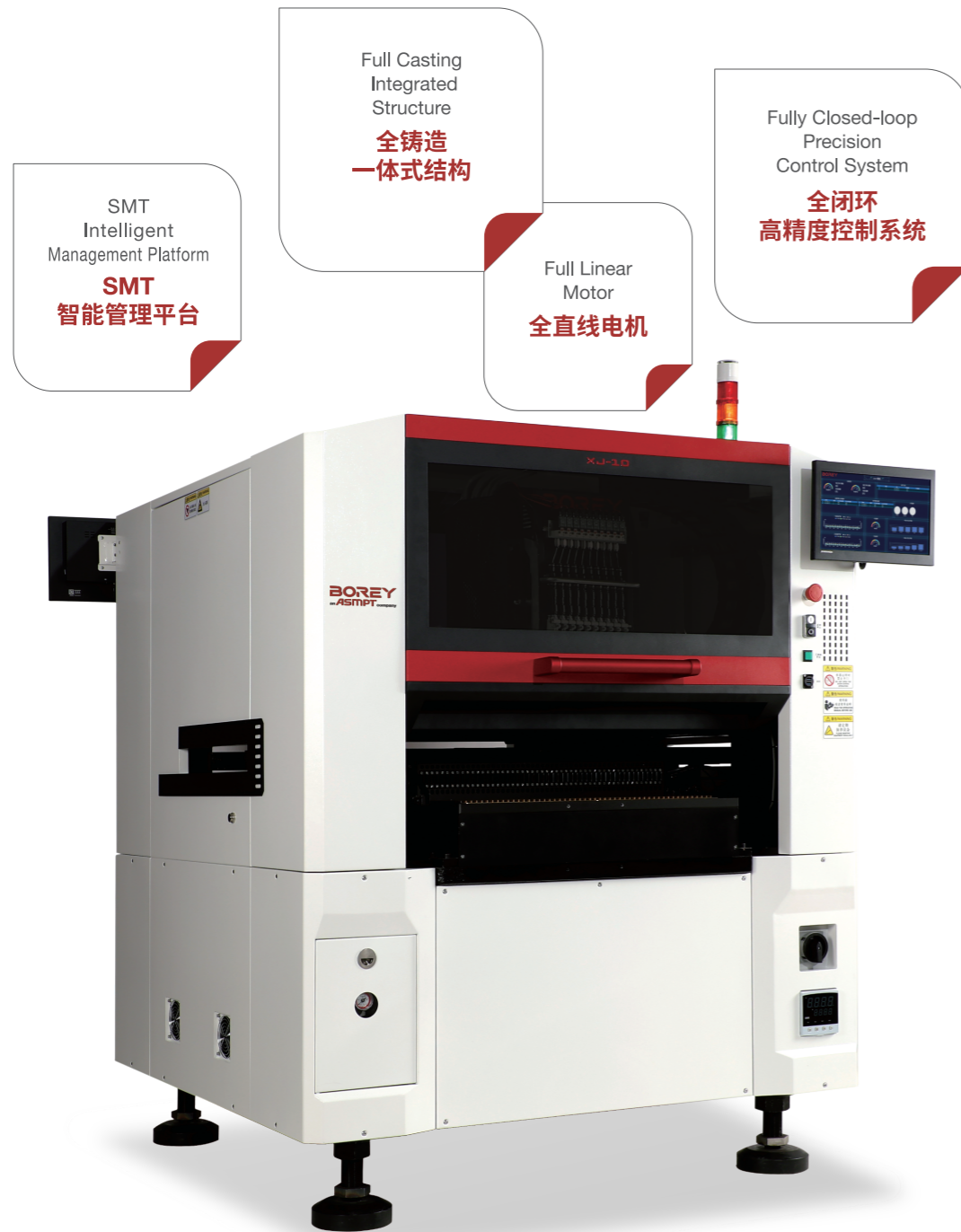
Devote to provide customers with Best-In-Class Performance Price Ratio products and total line solutions.
为客户提供高效率、高精度、高稳定性、高性价比的产品

公司战略 STRATEGY

Better Brand
Better Quality
Better Service
More Innovative Products
Become a recognized Technology Leader
更好的品牌
更好的品质
更好的客户服务
更有创新性的产品
成为公认的技术领先者

全自动多功能贴片机 XJ10

Fully automatic multi-function placement machine XJ10



FEATURE

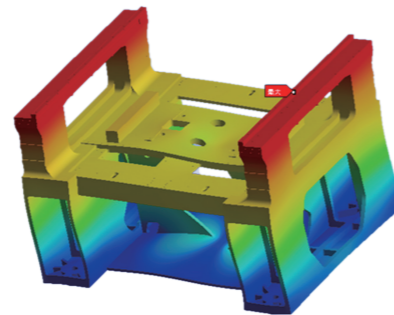
1

一体式铸造结构

Unibody Cast Frame

The machine base uses a unibody precision casting optimized through finite element analysis. Stress-relief annealing ensures long-term structural stability, with critical mounting surfaces controlled within 0.01 mm.

有限元辅助设计, 采用一体铸造成形, 采用退火工艺, 保证重要配合面的变形量在0.01mm以内。



全直线闭环控制系统

Closed-Loop Linear Motor Motion Control System

Both X and Y axes are driven by high-performance linear motors with full closed-loop feedback. This architecture delivers:

- Fast axis response
- Smooth high-speed motion
- Consistent placement accuracy

The result is extremely stable performance even during high-speed operation.

X/Y轴采用了业内先进的直线电机驱动, 实现高速响应, 高精度全闭环控制。

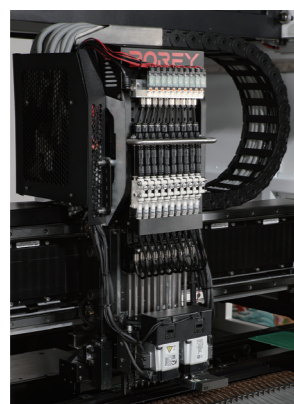
定制化直线电机驱动系统

Optimized Linear Motor Gantry System

The X-Y gantry uses a custom linear motor drive design combined with a patented X-Beam structure. This design improves gantry rigidity and motion stability during high-speed travel while minimizing settling time. The enhanced structural stability ensures reliable placement accuracy across the entire machine envelope.

X-Y Gantry采用贴片机工艺定制化直线电机, 全闭环控制。采用专利设计X-beam保证X-Y Gantry行走过程的稳定性, 减少整定时间。

更加有效的保证整机精度, 设备性能稳定。



Head-高速轻量化的吸嘴HM贴装头

HM Placement Head

High-Speed Lightweight Design

The integrated HM placement head supports components from 0201 up to 30 × 30 mm, with a maximum component height of 10 mm. The integrated head design eliminates frequent head replacement, simplifying maintenance and reducing downtime.

This design improves serviceability while maintaining high-speed placement performance.

无需更换Head, 实现0201微小型元件-30*30mm, 高度10mm等大型元件的贴装, 对应范围更广。

一体化高效贴装头, 拆装便捷, 维护保养更省时省力。

FEATURE

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自动吸嘴站

Automatic Nozzle Changer

The machine automatically switches placement nozzles according to production requirements. This eliminates manual nozzle changes and keeps production running continuously, improving overall equipment efficiency.

无需停机, 自动切换所需贴装吸嘴, 提高设备生产效率。

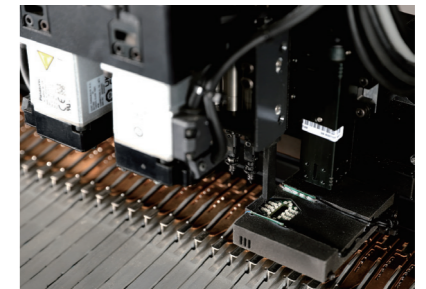


飞拍相机

Fly Camera Vision System

The high-speed flying vision system uses a prism-based optical design to inspect and correct component alignment during placement. Small components below 5 mm can be inspected while the head is in motion, maintaining high throughput while ensuring placement accuracy.

新型飞行相机搭配超薄棱镜可在高速贴装过程中对所有5mm以下微小元件进行识别校正, 同时更有效的规避吸嘴对相机的损坏。

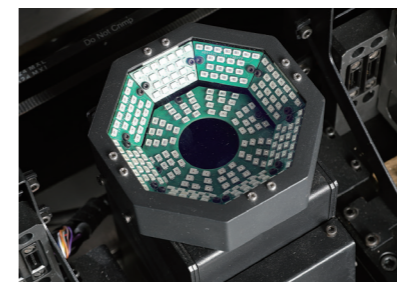


多功能相机系统

Advanced Vision Recognition System

The self-developed vision system provides reliable identification of non-standard and irregular components. This capability improves component recognition flexibility and supports a wider range of production applications.

自主研发全新识别系统, 具有非标物料识别能力, 可满足客户物料多样性贴装功能。



多样化供料器

Flexible Feeder Configuration

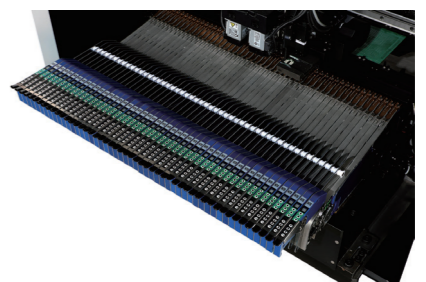
The machine supports 8 / 12 / 16 / 24 / 32 / 44 / 56 mm tape feeders.

The front and rear feeder banks provide up to 88 feeder slots, supporting multiple feeder types including:

- Electric feeders
- Vibratory feeders
- Tray feeders

This flexible configuration allows the machine to support a wide variety of production setups.

支持8/12/16/24/32/44/56mm供料, 前后供料拥有88个站位, 轻松对接各种形式Feeder, 如电动飞达, 震动飞达, 标签飞达, IC托盘等。



自动废料剪切系统

Automatic Carrier Tape Cutting

The automatic carrier tape cutting system removes waste tape during production. This reduces operator workload and helps maintain a clean, efficient production environment.

废料带自动剪除, 节约工人时间, 提高生产效率。

FEATURE

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强大元件库

Powerful component library

Realize automatic one-click import of PCB file coordinates, with powerful component library function, to achieve fast placement.

实现PCB文件坐标自动一键导入, 具有强大的元件库功能, 实现快速贴装。

路径优化

Path optimization

Genetic algorithms, ant colonies and other neural network algorithms, use AI deep learning to achieve the best path for placement.

遗传算法, 蚁群等神经网络算法, 以AI深度学习实现贴装的最佳路径。

SMCS监测与提示系统

SMCS monitoring and alerting system

SMCS system, with an original calibration system, guarantees a repeatability of 0.05mm.

SMCS系统, 通过独创的校正系统, 保证重复精度0.05mm。

BOREY-XJ10参数

参数规格	XJ10	SPECIFICATIONS	XJ10
PCB尺寸	MIN 50*50mm	APPLICABLE PCB SIZE	MIN 50*50mm
	MAX 430*380mm		MAX 430*380mm
PCB厚度	0.5mm – 3mm	APPLICABLE PCB THICKNESS	0.5mm – 3mm
元件尺寸	0201 Chip - L30*W30*H10mm	APPLICABLE COMPONENTS	0201 Chip - L30*W30*H10mm
吸嘴数量	10	MOUNTING CAPABILITY	10
贴片精度	±0.05mm (XY)	MOUNTING ACCURACY	±0.05mm (XY)
贴片速度	40,000 CPH (本公司最优条件下)	MOUNTING SPEED	40,000 CPH (Optimum Speed)
飞达容量	88 (8mm)	FEEDER CAPACITY	88 (8mm)
飞达类型	电动	FEEDER TYPE	Electric
电 源	AC380/420/480, 3.5KVA	POWER SUPPLY	AC380/420/480, 3.5KVA
气 源	0.55MPa, 150L/min	AIR SUPPLY	0.55MPa, 150L/min
设备尺寸	L 1310 x W 1310 x H 1575 mm	EXTERNAL DIMENSIONS	L 1310 x W 1310 x H 1575 mm
重 量	≈1600KG	WEIGHT	≈1600KG
X - 轴	直线电机	X - AXIS	Linear Motor
Y - 轴	双直线电机	Y - AXIS	Dual Linear Motor
Z - 轴	高精度电机	Z - AXIS	High Precision Motor