

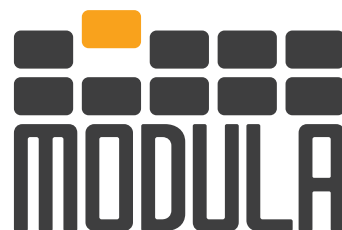


Modula SLIM 灵巧库

Think Vertical, Think Modula

灵活性高, 空间利用率大

ALL THE BENEFITS OF A VLM IN THE SPACE OF A VERTICAL CAROUSEL



紧凑式垂直立体货柜 最小深度，最高效率

Modula Slim 对于寻找具有充分灵活性的立体存储解决方案的用户是一个明智的选择。

升降库的技术优势浓缩在：

- 仅3平方米的占地面积
- 仅1.6 m的外形深度

您可以在Modula SLIM中存储各种材料和产品:零散物料、容器(周转箱、物料盒、纸箱、木箱)、小件物品、备件、线圈、烧瓶等。



MODULA SLIM 能做什么？

- 节省占地面积, 充分利用垂直空间
- 减少拣选时间
- 实现货物到人, 完全符合人体工程学
- 保持库存水平, 使物料处于可控状态
- 可与所有ERP对接, 轻松实现与客户流程的集成
- 实现对每个存取任务的追溯
- 避免存取错误

THE COMPACT VERTICAL STORAGE SYSTEM, MINIMUM DEPTH, MAXIMUM EFFICIENCY.

Modula Slim is the smart choice for anyone looking for a vertical storage solution with complete flexibility.

All the advantages of LIFT technology in:

- 3 m² of floor space
- 1.6 m depth

You can store all sorts of materials and products in your Modula Slim: loose materials, containers (boxes, bins, packs, cartons, cases), small items, spare parts, coils, flasks.



WHAT MODULA SLIM CAN DO FOR YOU?

- Recovers floor space, making the most of storage density
- Reduces picking times
- Makes materials accessible to all operators, quickly and ergonomically
- Keeps stock levels and all warehouse items under control
- Integrates easily into your company processes by communicating with all ERP systems
- Tracks picking and refilling operations, identifying who did what and controls every access
- Eliminates picking and refilling errors by guiding the operator through the process



十年质保 行业新标准

10 YEARS WARRANTY
THE NEW INDUSTRY STANDARD

不是简单延长质保

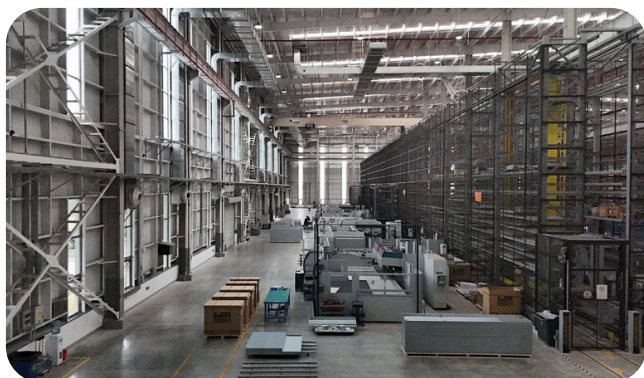
Not just a longer warranty

在垂直升降式自动货柜市场，很多设备在采购当天看起来相似。

真正的差异，往往出现在设备运行一年、三年、五年，甚至十年之后。

In the VLM market, many machines may look similar on purchase day.

The real difference appears after one, three, five, and even ten years of operation.



十年质保

10 Years Warranty

原厂服务

Factory Service

中国制造

Made in China

全球品质

Global Quality

这是长期责任

It's a long-term responsibility

摩登纳中国推出十年质保承诺，是因为我们相信自己的产品质量，也相信我们在中国市场的服务能力。

我们不只是交付设备。我们承诺长期负责。

Modula China introduces 10 Years Warranty commitment because we believe in our product quality and in our service capability in China.

We do not only deliver the machine. We take long-term responsibility.



低价容易承诺，十年很难复制。

Low price is easy to promise. 10 years responsibility is hard to copy.

国际品牌，中国速度。

INTERNATIONAL BRAND, CHINA SPEED.



苏州工厂与本地服务能力
Suzhou Factory and local service capability

为什么要选择国际品牌？

Why choose an international brand?

选择进口品牌，客户通常希望获得可靠的设计、成熟的技术和长期稳定的品质。但如果设备主要在欧洲生产，客户也可能面对更长交期、更高物流成本、更远的备件距离和更复杂的服务响应。

When customers choose an international brand, they expect reliable design, proven technology and long-term quality. But when equipment is mainly produced in Europe, customers may face longer lead times, higher logistics costs, longer spare-parts routes and more complex service coordination.

选择摩登纳您可以获得：

CHOOSE MODULA AND YOU WILL GAIN:

中国本地生产

Local production in China

更有竞争力的价格

More competitive pricing

更快交付

Faster delivery

中国本地备件

All spare parts in China

原厂工程师

Factory engineers

全球品质

Global quality

不是在品质和速度之间选择，Modula 中国让客户同时拥有两者。

No need to choose between quality and speed, Modula China gives customers both.

全球标准，中国效率。

GLOBAL STANDARD. CHINESE EFFICIENCY.

同样的Modula工程标准，更接近中国客户的生产、备件与服务体系。

Identical Modula engineering standards, with localized production, spare parts and service systems for China clients.



Modula **SLIM**

看起来相似，不代表十年后一样可靠。

SIMILAR APPEARANCE DOES NOT MEAN LONG-TERM RELIABILITY.

设计外观一样，但设计能力、制造工艺、质量控制、备件体系和长期服务很难被复制。

Similar appearance does not mean the same design capability, manufacturing process, quality control, spare-parts system or after-sales responsibility.

40

年品牌历史
years of brand history

2,000+

中国累计产量
machines made in China

1,800+

中国装机量
machines installed in China

35+

年验证寿命
years proven service life

价格不是唯一衡量选择的标准。

Price should not be the only criterion for selection.

摩登纳的市场地位来自更可靠的品质、更成熟的技术、更稳定的服务体系，以及长期为客户负责的能力。

Modula's leadership is built through quality, technology, service and long-term customer responsibility.

一年质保和十年质保，不是同一种责任。

1 year warranty and 10 Years Warranty are not the same responsibility.

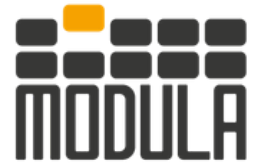
这不是商业条款的差异，而是设备寿命、服务能力和长期责任的差异。

The gap lies not in commercial clauses, but in equipment lifespan, service capabilities and long-term commitment.



设备停机时，真正的差异才开始。

WHEN THE MACHINE STOPS, THE REAL DIFFERENCE BEGINS.



本地备件仓库
Local spare parts storage



快速服务响应
Quick service response

十年质保的价值，不只是维修费用。真正的价值，是停机风险更低、责任更清楚、服务更可靠。

The value of 10 Years Warranty is not only repair cost. The value is lower downtime risk, clearer responsibility and more reliable service.



原厂工程师

Factory engineers

由Modula服务团队负责

Support by Modula service



原厂备件

Original parts

本地备件，快速支持

Local spare parts, fast support



原厂责任

Factory responsibility

十年责任更清楚

Clear 10 years responsibility

停机不仅是技术问题，更是成本问题。

Downtime is not only a technical issue, but also a cost issue.

如果设备停止运行，影响的不止是维修费用。它可能会影响拣选、生产、发货、客户交付和内部效率。

If equipment shuts down, the impact goes far beyond maintenance costs. It may disrupt order picking, production, shipment, customer delivery and internal operational efficiency.

低价只是一时选择，十年质保才是长期责任与担当。

Low price is a temporary choice, 10 Years Warranty stands for long-term accountability.

十年质保适用于符合 Modula 中国官方质保条款的设备。具体质保范围、维护要求和排除条款以正式合同及质保文件为准。

10 Years Warranty applies to equipment that meets Modula's China official warranty conditions. Final coverage, maintenance requirements and exclusions are subject to the official contract and warranty document.

- UP TO 7 METERS
- 1.6 M DEPTH
- 最高可达 7 米
- 1.6 M 深度



紧急按钮

EMERGENCY BUTTON

LED货位指示器

LED ALPHANUMERIC BAR

钢丝加强型齿形传动带

STEEL-REINFORCED TOOTHED TRANSMISSION BELT

符合人体工程学的触摸屏

INTEGRATED ERGONOMIC TOUCH SCREEN INTERFACE

拣选结束键

END OF PICKING BUTTON

技术规格 TECHNICAL SPECIFICATIONS

设备高度:从2,400毫米到7,000毫米 Height: from 2,400 mm to 7,000 mm	存取效率:高达120个托盘/小时(取决于配置) Throughput: up to 120 trays per hour (depending on the configuration)
设备高度增量:100毫米 Unit height increment: 100 mm	操作界面:10.4英寸工业触摸式控制面板 Operator interface: Industrial console with 10.4" touchscreen technology
托盘支架间距:25毫米 Tray storage pitch: 25 mm	存取口数量及类型:内置式单层存取口 Number and type of bay: 1 internal bay with single delivery level
托盘宽度:1,300 - 1,900 - 2,500 毫米 Tray width: 1,300 mm - 1,900 mm - 2,500 mm	最低能源消耗:SLIM1.3型功耗为1.2千瓦/小时,高度为7,000毫米 Minimal energy consumption: 1.2 kW/h for SLIM 1.3 model, H=7,000 mm
托盘有效载荷:350公斤 Net tray payload: 350 kg	电源:支持230V单相和400V三相电源 Power supply: Single-phase (230V) and Three-phase (400V)
托盘深度:425毫米 Tray depth: 425 mm	传动:钢丝加强型齿形传动带(4条) Transmission: Steel-reinforced toothed transmission belt (4 belts)

快捷安装, 轻松上手

Modula Slim的基座是预安装式的, 方便移动, 安装快捷。Modula Slim可以在**48小时内**在您的工厂内安装完毕。Modula Slim可通过Modula WMS (仓库管理系统) 与您公司的**ERP系统**快速集成。

该产品不仅安装快捷, 而且使用方便。操作者可以在界面友好的触摸屏上进行操作并且可以方便地与可选件进行组合使用, 如: 拣选结束键, EKS读卡器, LED货位指示条。

仅需几天的时间, 任何人都能轻松学会操作, 大幅度提升拣货速度。

QUICK TO INSTALL, EASY TO USE

Modula Slim is built on a pre-assembled base module which is easy to move and quick to install.

This means that the VLM can be set up in your plant and ready to use in 48 hours.

Modula Slim also integrates quickly with your company ERP system thanks to Modula WMS (Warehouse Management System).

Not just easy and quick to install but also to use. It's really easy for your operators to interact with Modula Slim. They can use the user-friendly touch screen interface and simple controls integrated into the bay like the end of picking button, EKS reader, LED bar etc.

In just a few days, your Modula Slim can be used by anyone and you will see an incredible increase in picking speed.

48小时内安装即插即用
PLUG & PLAY INSTALLATION IN 48 HOURS



触摸屏控制面板
Touch screen console and integrated electrical panel



拣选结束键
End of picking button



托盘分隔板
Trays with subdividing accessories

您见过如此灵活的产品吗？

毫无限制和约束地充分利用Modula SLIM的内部空间,可自动优化位置轻松实现动态储存。

- 总载荷高达25,000kg, 高度7米, 深度仅1.6米
- Modula Slim内部空间可以得到充分利用, 这受益于Modula的动态托盘管理技术, Modula Slim能够计算出托盘存放的最佳位置从而避免任何空间浪费
- 受益于升降库的特有技术, Modula Slim可以完全避免回转库的偏载问题
- 低能耗:<1.2kw/h
- 电源可以使用三相400V或单相230V
- 维护方便:V型齿带传动系统超静音, 无需润滑, 其自动对准滑轮系统易于安装和调整
- Modula Slim可以搭配丰富的选件, 如: 视觉辅助系统, 播种式电子拣选系统, 存取控制系统, 托盘柔性分隔系统

垂直存储系统

VERTICAL STORAGE SYSTEM



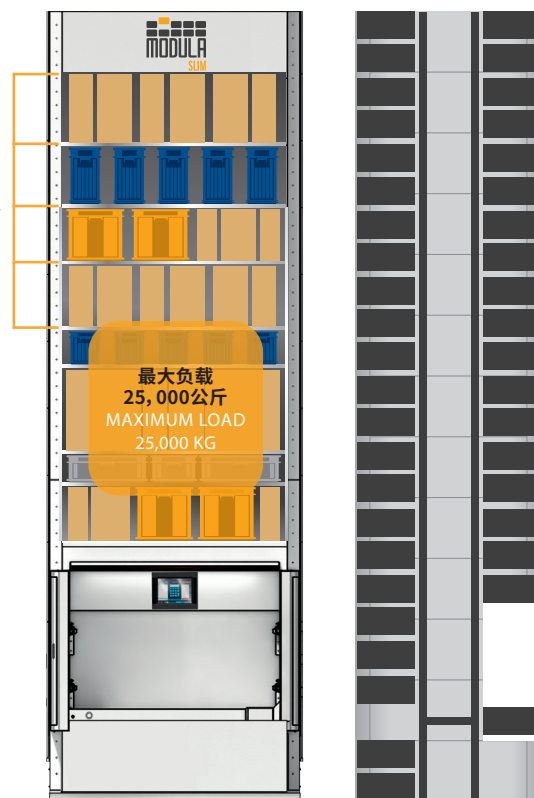
HAVE YOU EVER SEEN SUCH FLEXIBILITY?

Make use of all the space inside your Modula SLIM without limits or constraints. Choose dynamic storage without fixed heights and with a truly SLIM depth.

- Total payload is up to 25,000 kg with 7 metres in height and no more than 1,6 m in depth
- You can make use of all the available space in your VLM thanks to dynamic tray height storage: there are no fixed heights as the Modula Slim calculates the best place to put the trays and eliminates any wasted space between them
- With Lift technology and the way the elevator moves, there are no issues with unbalanced loads unlike with carousel systems
- Energy consumption is relatively low: less than 1.2 kW/h
- You can choose to power the warehouse with a three-phase (400V) or a single-phase (230V) supply
- Maintenance is limited: the V-Shape toothed belt transmission system is super quiet, requires no lubrication and its self-aligning pulley system means it's super easy to install and adjust
- You can add all options from the Modula range such as visual aids, Put to Light, access control systems, partitions, dividers and slotted tray walls to subdivide the trays.

动态托盘存储
DYNAMIC
TRAY
STORAGE

VS



MODULA SLIM

SLIM型号规格 SLIM MODELS



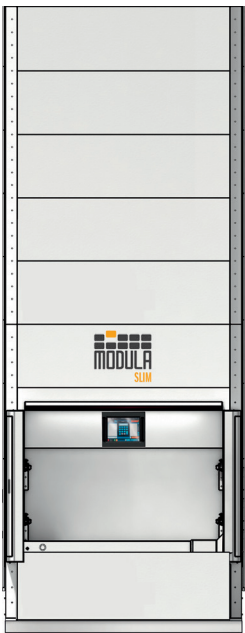
← 1,685 mm →

SLIM 1.3	托盘宽度 Tray width (mm)	托盘深度 Tray depth (mm)	托盘挡边高度 Tray wall height (mm)	托盘净载重量 Net tray payload (kg)	内置式存取口设备占地尺寸 (宽x 深) Unit footprint with INTERNAL bay (Width x Depth mm)
	1,300	425	45	350	1,685x1,675



← 2,285 mm →

SLIM 1.9	托盘宽度 Tray width (mm)	托盘深度 Tray depth (mm)	托盘挡边高度 Tray wall height (mm)	托盘净载重量 Net tray payload (kg)	内置式存取口设备占地尺寸 (宽x 深) Unit footprint with INTERNAL bay (Width x Depth mm)
	1,900	425	45	350	2,285x1,675



← 2,885 mm →

SLIM 2.5	托盘宽度 Tray width (mm)	托盘深度 Tray depth (mm)	托盘挡边高度 Tray wall height (mm)	托盘净载重量 Net tray payload (kg)	内置式存取口设备占地尺寸 (宽x 深) Unit footprint with INTERNAL bay (Width x Depth mm)
	2,500	425	45	350	2,885x1,675

可选件 OPTIONS

托盘 TRAYS

货架盘可以安装额外组件,如托盘分隔板,用来存储不同类别的材料或容器。这些组件在货架盘中布局十分灵活,方便修改。

Trays can be fitted with options such as partitions and dividers to create compartments, meaning you can store materials or containers which might be very different from each other. These options mean that the layout of materials in the trays is incredibly flexible and easy to modify.

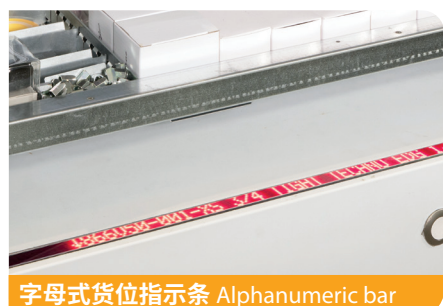
视觉辅助工具 VISUAL AIDS

这些工具可以直观地显示所需物品的位置,并加快拣选和存储操作的速度。引导操作员找到托盘中物品的位置,并显著减少错误。

These give a visual indication of the location of the requested item and speed up picking and refilling operations. They guide the operator to the location of the items within the tray and noticeably reduce errors.



托盘配件 Tray accessories



字母式货位指示条 Alphanumeric bar



货位指示条LED bar



激光式货位指示器 Laser Pointer

访问控制 ACCESS CONTROL

这些设备可以防止未经授权访问存储的材料。您可以根据不同用户的权限为他们提供对不同托盘/材料或隔间的访问权限。可以使用输入到控制台的登录名和密码来授予访问权限,也可以通过个人设备实现,整个操作过程十分便捷。

These devices protect stored materials from unauthorised access. You can give different users access to different trays/materials or compartments based on their permissions. Access can be granted using a login and password entered into the console, or it can be achieved using a strictly personal device which makes the operation very quick.



磁条读卡器 Magnetic badge Reader



RFID 阅读器 RFID Reader



EKS读卡器 EKS Reader

增加生产率的组件 OPTIONS WHICH INCREASE PRODUCTIVITY

增加生产率的组件1D/2D条码扫描仪可以快速扫描产品,免去人工检查,集成亮灯拣选模块,增加多任务处理订单能力,静电放电保护系统(ESD)可以保护敏感物品。

1D/2D barcode readers can quickly scan the product and avoid any manual checks, integrated Put to Light increases the number of order lines processed at the same time or handles multiple orders simultaneously, electrostatic discharge protection systems (ESD) protect sensitive items.



静电放电保护系统 ESD protection system



亮灯拣选系统 Put to Light



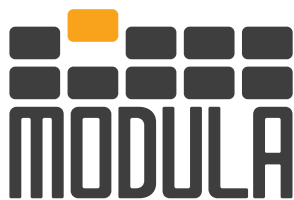
条码扫描仪 1D/2D barcode Reader

MODULA WORLD



Modula 在全球5个大洲 50多个国家均有经销商和分公司

Modula is present in **5 continents** with dealers and branches located in over **50 countries**



摩登纳(中国)自动化设备有限公司
中国江苏省苏州工业园区方洲路7号
电话:400 806 6811
www.modula.cn

MODULA (CHINA) AUTOMATION EQUIPMENT CO.,LTD
No.7, Fangzhou Road, Suzhou Industrial Park, Jiangsu Province, China
Tel. 400 806 6811
www.modula.cn

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