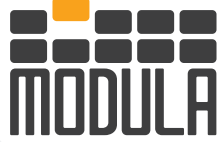




Modula LIFT

Think Vertical, Think Modula

NEW GENERATION



Modula: 垂直升降式自动货柜

Modula垂直升降式自动货柜，模块化设计，充分利用垂直方向的空间。

标准设备最大高度可达16.1米，最大承载可达90,000公斤。
可以安全，洁净，高效地储存各种物料，最高可以节省90% 的占地面积。

Modula摩登纳是一家具有30多年经验的意大利公司，采用最先进生产线的Modula摩登纳苏州工厂是一个真正的工业4.0典范的智能工厂。

Modula: your Vertical Lift Module

Modula are automatic vertical lift modules with trays, based on the concept of vertical storage and space saving on the ground.

They can reach a unit height of 16,1 metres high and hold up to 90.000 kg.
They can store all types of materials in a secure, clean, efficient manner, and they allow a ground surface area saving of up to 90%.

Modula have over 30 years' experience as an Italian company boasting the highest technology lines: a real smart factory 4.0.

使用Modula垂直升降式自动货柜之前 / Without Modula



使用Modula垂直升降式自动货柜之后 / With Modula



节省占地面积 / Floor space recovery

最高可达90% / up to 90%



1. 节省空间
1. RECOVER SPACE



2. 更加安全
2. INCREASE SECURITY



3. 节省时间
3. SAVE TIME



4. 提高效率
4. IMPROVE EFFICIENCY



5. 降低风险
5. REDUCE RISKS



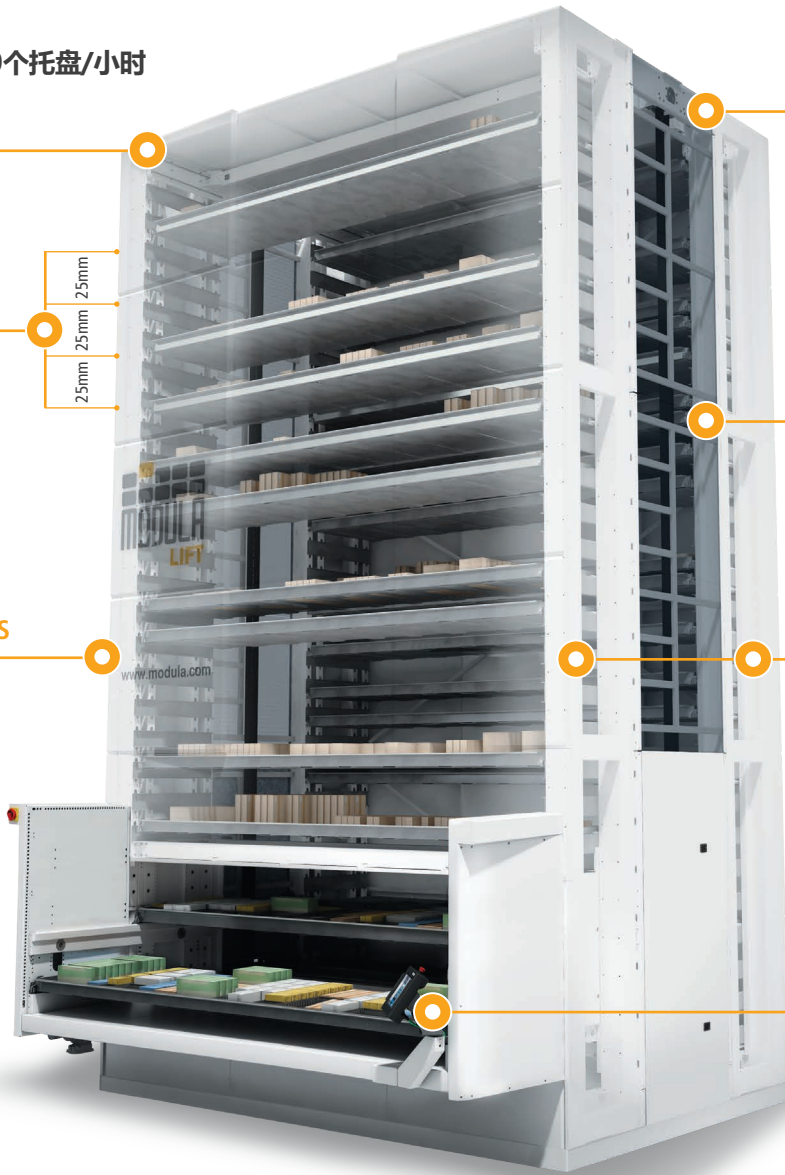
6. 改善库存
6. BOOST INVENTORY MANAGEMENT

存取能力最大可达 120个托盘/小时
THROUGHPUT OF
UP TO 120 TRAYS/HOUR

托盘间距可调
TRAY ADJUSTABILITY



预塑化面板
PLASTIC-COATED
STEEL EXTERIOR PANELS



自定心皮带轮
SELF-CENTERING PULLEYS

V形钢丝皮带
EAGLE SELF-CENTERING
V-SHAPE BELT

自支撑钢结构
STEEL LOAD-BEARING
STRUCTURE

触摸屏操作控制台
TOUCH SCREEN
OPERATOR CONSOLE

友好的用户界面
SIMPLE, INTUITIVE
SOFTWARE



技术规格 / Technical Specifications

设备高度: 3,300毫米至16,100毫米 Unit heights: from 3.300 mm to 16.100 mm	存取能力达120个 托盘/小时 (视设备配置而定) Throughput: up to 120 trays/hr (depending on the configuration)
设备高度增量: 200毫米 Unit height increment: 200 mm	操作界面: 10.4 寸触摸屏工业控制台 (Copilot) Operator interface: industrial console with 10.4' touch screen (Copilot)
托盘存储调节幅度: 25毫米 Tray storage pitch: 25 mm	标准设备存取口数量: 最多3个, 在地面上, 可位于同侧 Number of bays: up to 3, also above ground level and on the same side
托盘宽度: 1,500毫米至4,100毫米 Tray widths: from 1.500 mm to 4.100 mm	存取口类型: 内置式存取口或外置式存取口及托盘单层或托盘双层 Types of bay: internal or external with single or dual delivery level
托盘深度: 654毫米和857毫米 Tray depths: 654 mm & 857 mm	• 最低能耗 • Minimal energy consumption • 自动称重 • Automatic return tray weight check • 托盘上物料高度灵活可变 • Dynamic tray storage height • 承重结构采用镀锌钢板 • 钢丝皮带传动 • Eagle steel-reinforced toothed belt transmission • 每侧 6 个定位轮的升降机导向系统 • Elevator guide system with 6 rollers per side • 可混合使用不同负载的托盘 • Multiple payload tray management
总载重: 配备一个存取口的标准设备总载重70,000 kg, 加强结构总载重可达90,000 kg Gross total payload: For standard machine with 1 bay, actual gross load is 70,000 kg (standard structure) and 90,000 kg (with reinforce structure)	
存储物料最大高度: 695毫米 (bay S) / 895毫米 (bay M) / 1,295毫米(bay XL) Maximum storage height capacity: 695 mm (bay S) / 895 mm (bay M) / 1,295 mm (bay XL)	

托盘配置

可以根据您的需求，配置不同类型的存取口。

- 单层存取口
- 双层存取口
- 内置式存取口
- 外置式存取口
- 存取口在背面
- 存取口在不同高度

通过使用双层存取口，可以让两个托盘同时运行，（当一个托盘在存取口时，另一个托盘在自动门后等待）。或通过外置式存取口，操作人员可以借助机械助力装置，提高工作的便利性，例如使用叉车，轻型起重机或者桁架等。

还可以在设备前后两侧同时拣货，或者在不同的楼层进行操作。

Modula's tray configurations

You can configure the Modula in different ways according to how you plan to use it, with different types of picking bays.

- Single bay
- Double bay
- Internal bay
- External bay
- Opposite bay
- Displaced bay

With Modula you can select the dual delivery level to work on two trays at the same time (while one is in the bay, the other is preparing the subsequent picking), or with an external bay which facilitates worker activity if he is using mechanical aids like forklifts, zero-weight cranes or overhead hoists.

You can also carry out picking simultaneously on two sides of the machine or have access to trays in different levels.

单层内置式存取口
Single internal delivery



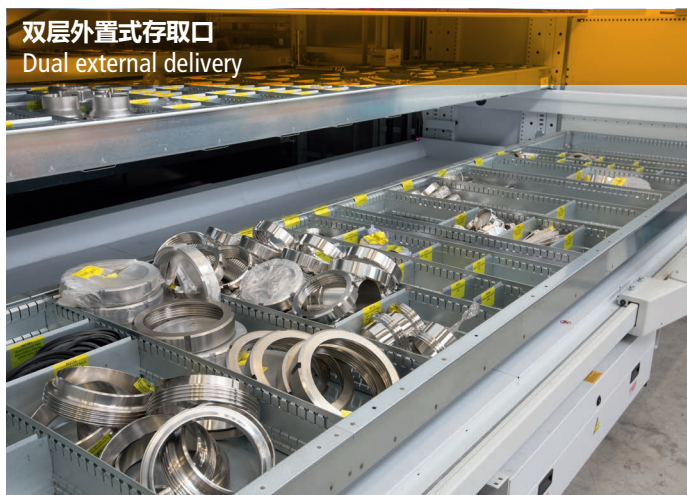
单层外置式存取口
Single external delivery



双层内置式存取口
Dual internal delivery



双层外置式存取口
Dual external delivery



您可以在Modula垂直升降式自动货柜中存放什么？

无论您所属哪个行业，都可以利用Modula垂直升降式自动货柜对各种不同大小，重量，高度和数量的产品或备件进行存储。

Modula垂直升降式自动货柜通常用来存储什么？

- 备件 • 小件物品 • 用于配送或销售的产品或消费品
- 成品及半成品 • 工具，设备，化妆品，药品
- 电子及电气材料 • 机械零件
- 盒装等多种形式物料。

刀具和钻头
Tooling and drill bits



药品、包装盒和化妆品
Pharmaceuticals, boxes and cosmetics



小零件和五金制品
Tools and spare parts



试剂瓶和标签
Bottles and labels



What can you store in a Modula?

Whatever your industrial sector, Modula lets you store any type of product or spare part, in different sizes, weights, heights and volumes.

What do companies usually stock?

- Spare parts • Small items
- Products or consumer goods for distribution or sale • Finished and semi-finished products
- Tools, equipment, cosmetics, pharmaceuticals
- Electrical and electronic materials • Mechanical parts • Boxes and much more.

盘料和电子元件
Reels and electronic components



机械仪器
Mechanical instruments

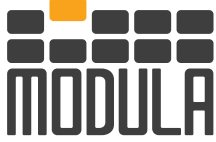


工具和备件
Small parts and hardware



线轴，绳索，链条
Spools, rope, chains





我们的型号

Our models

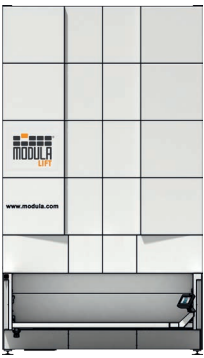
ME & ME-D



1,917 mm

型号 Model	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 深毫米) Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口设备占地尺寸 (宽 x 深毫米) Unit footprint with EXTERNAL bay (Width x Depth mm)
ME25	1,500	654	45 / 70 / 120	250	1,917x2,556	1,917x3,246
ME25D	1,500	857	45 / 70 / 120	250	1,917x3,165	1,917x4,058
ME50	1,500	654	70 / 120	500	1,917x2,556	1,917x3,246
ME50D	1,500	857	70 / 120	500	1,917x3,165	1,917x4,058
ME75	1,500	654	70 / 120	750	1,917x2,556	1,917x3,246
ME75D	1,500	857	70 / 120	750	1,917x3,165	1,917x4,058
ME1000	1,460	654	70 / 120	990	1,917x2,556	1,917x3,246
ME1000D	1,460	857	70 / 120	990	1,917x3,165	1,917x4,058

MX & MX-D



3,517 mm

型号 Model	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 深毫米) Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口设备占地尺寸 (宽 x 深毫米) Unit footprint with EXTERNAL bay (Width x Depth mm)
MX25	3,100	654	45 / 70 / 120	250	3,517x2,556	3,517x3,246
MX25D	3,100	857	45 / 70 / 120	250	3,517x3,165	3,517x4,058
MX50	3,100	654	70 / 120	500	3,517x2,556	3,517x3,246
MX50D	3,100	857	70 / 120	500	3,517x3,165	3,517x4,058
MX75	3,100	654	70 / 120	750	3,517x2,556	3,517x3,246
MX75D	3,100	857	120	750	3,517x3,165	3,517x4,058
MX1000	3,060	654	120	990	3,517x2,556	3,517x3,246
MX1000D	3,060	857	120	990	3,517x3,165	3,517x4,058

MA & MA-D



2,317 mm

型号 Model	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 深毫米) Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口设备占地尺寸 (宽 x 深毫米) Unit footprint with EXTERNAL bay (Width x Depth mm)
MA25	1,900	654	45 / 70 / 120	250	2,317x2,556	2,317x3,246
MA25D	1,900	857	45 / 70 / 120	250	2,317x3,165	2,317x4,058
MA50	1,900	654	70 / 120	500	2,317x2,556	2,317x3,246
MA50D	1,900	857	70 / 120	500	2,317x3,165	2,317x4,058
MA75	1,900	654	70 / 120	750	2,317x2,556	2,317x3,246
MA75D	1,900	857	70 / 120	750	2,317x3,165	2,317x4,058
MA1000	1,860	654	120	990	2,317x2,556	2,317x3,246
MA1000D	1,860	857	120	990	2,317x3,165	2,317x4,058

ML & ML-D



4,517 mm

型号 Model	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 深毫米) Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口设备占地尺寸 (宽 x 深毫米) Unit footprint with EXTERNAL bay (Width x Depth mm)
ML25	4,100	654	70 / 120	250	4,517x2,556	4,517x3,246
ML25D	4,100	857	70 / 120	250	4,517x3,165	4,517x4,058
ML50	4,100	654	120	500	4,517x2,556	4,517x3,246
ML50D	4,100	857	120	500	4,517x3,165	4,517x4,058
ML75	4,100	654	120	750	4,517x2,556	4,517x3,246
ML75D	4,100	857	120	750	4,517x3,165	4,517x4,058
ML1000	4,060	654	145	990	4,517x2,556	4,517x3,246
ML1000D	4,060	857	145	990	4,517x3,165	4,517x4,058

MC & MC-D



2,917 mm

型号 Model	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 深毫米) Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口设备占地尺寸 (宽 x 深毫米) Unit footprint with EXTERNAL bay (Width x Depth mm)
MC25	2,500	654	45 / 70 / 120	250	2,917x2,556	2,917x3,246
MC25D	2,500	857	45 / 70 / 120	250	2,917x3,165	2,917x4,058
MC50	2,500	654	70 / 120	500	2,917x2,556	2,917x3,246
MC50D	2,500	857	70 / 120	500	2,917x3,165	2,917x4,058
MC75	2,500	654	70 / 120	750	2,917x2,556	2,917x3,246
MC75D	2,500	857	70 / 120	750	2,917x3,165	2,917x4,058
MC1000	2,460	654	120	990	2,917x2,556	2,917x3,246
MC1000D	2,460	857	120	990	2,917x3,165	2,917x4,058



各型号托盘最大载重
可达990公斤

MAXIMUM PAYLOAD
FOR ALL TRAYS:
UP TO 990 KG
PER TRAY



COPILOT
工业控制台:
10.4 寸触摸屏

INDUSTRIAL COPILOT
CONSOLE:
10.4 INCH TOUCH
SCREEN



MODULA WMS
管理软件:
一切尽在掌握

MODULA WMS
SOFTWARE:
TO HAVE EVERYTHING
UNDER CONTROL



操作者安全性:
符合人体工程学,
安全, TÜV 认证

OPERATOR SAFETY:
ERGONOMIC, SAFE,
TUV CERTIFICATION

Modula垂直升降式自动货柜与其他技术的应用集成

Modula垂直升降式自动货柜非常适用于其他科技产品的集成，例如：

• 机器人 • 输送线 • 播种式显示屏 • 机械手 • 轻型起重机。

Modula WMS 库存管理软件可以实现与所有ERP系统的集成，藉此，垂直升降式自动货柜完全融入到公司的工作流程中，并与您的管理系统实现交互。

通过这种方式，您可以对物料及用户的建立、生产订单、库存和备件进行高效管理，实现对库存的动态监控。Modula垂直升降式自动货柜可以让盘点变得非常便捷，同步生成的专属分析和报告让一切尽在掌握。

Modula integrates with all technology

Modula is ideal for those who also need complete integration with other technologies such as:

• Robots • Roller conveyor • Put-To-Light systems • Manipulators • Zero Weight cranes.

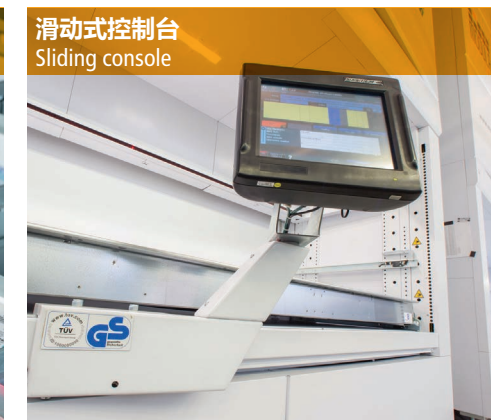
Thanks to Modula WMS warehouse software, your VLM can be integrated with all ERP systems to connect the warehouse Modula into the company workflow and make it interact with the management system.

This way you can manage the materials and users registries, production orders, stocks, spare parts, and you can better check on stocks and all warehouse movements: picking and restoring. With Modula, taking inventory is very easy, while producing dedicated analyses and reports to have everything under control.



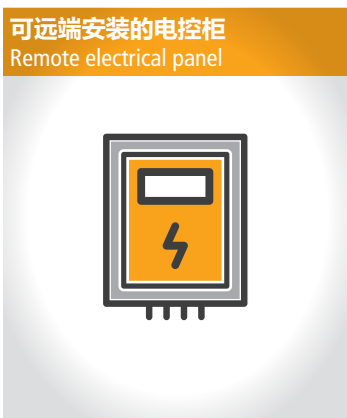
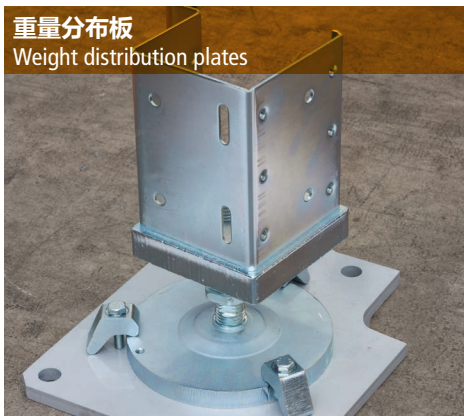
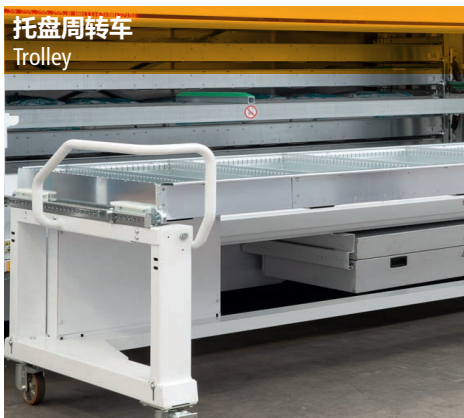
可选配置

Options



可选配置

Options



我们的部分客户

Some Modula references



汽车行业
AUTOMOTIVE
INDUSTRIAL

BMW China, Germany, Austria, UK, Belgium, USA, Mexico, Canada
VOLKSWAGEN China, Germany, Spain, Argentina
DAIMLER China, Italy, Germany, Mexico
FERRARI Italy
AUTOMOBILI LAMBORGHINI Italy
MASERATI Italy
JAGUAR Netherlands
AUDI Spain, Mexico, Belgium
FORD USA, Canada, Spain, Mexico, Turkey
PEUGEOT-CITROEN France
OPEL Spain
RENAULT Spain, France, UK
FIAT Italy, Poland, Brasil, Serbia
GENERAL MOTORS USA
TATA MOTORS LIMITED India
HARLEY DAVIDSON USA
DUCATI MOTOR Italy
BREMBO Italy, Poland, USA, Czech Republic
TRW AUTOMOTIVE Italy, USA
GKN DRIVELINE Italy, Spain, USA, UK, Poland
CONTITECH Germany, Romania, Hungary, Serbia, Mexico
ROBERT BOSCH USA, Germany, Mexico, Spain, Hungary
THYSENKRUPP ENGINE China, Brasil
VALEO Italy, Spain, France, Belgium, Turkey, India
FAURECIA Italy, Spain, France, USA
MAGNETI MARELLI Italy
MUBEA Germany, Poland, Czech Republic, USA, Mexico
CATERPILLAR Italy, USA, Belgium



电子
ELECTRONIC

BYD China
EUTRON China
GREAT WALL PC China
COMMSCOPE China, India
SPIRAXSARCO China, Italy
SCHNEIDER ELECTRIC China, Spain, Indonesia
SIEMENS China, Spain, USA, Serbia, India
PROFACE China
BSH ELECTRICAL China
CELESTICA China, Spain, Mexico, Romania, Malaysia
BARCO VISUAL China
UNISTEEL China
HAIER GROUP China
INFINEON Portugal, Singapore, Malaysia
GARMIN USA
GENERAL ELECTRIC France, Israel
EATON CORPORATION USA, Mexico, Singapore
FOXCONN Czech Republic
DELL USA



机械
MACHINERY

AGCO China, Italy, Spain, USA
BONFIGLIOLI RIDUTTORI China, Italy, Germany, USA, Slovakia, India
HONEYWELL China, Italy, Romania, Mexico, Slovakia, South Korea
DANIELI China, Italy, Russia, Thailand
PRIMA POWER China, Italy
MARPOSS China, Italy, Germany
BOLLHOFF China
GETRAG TRANSMISSION China
BITZER China, Germany
KROHNE China
LAEPPLER China
GUHRING China
TIANHONG MACHINERY China, Romania
SCHAEFFLER China
DEUTZ FAHR MACHINERY USA, Poland
3M Italy, Poland, Argentina
ABB USA, Canada
BLACK & DECKER Italy, USA, Hungary
ELECTROLUX Italy, Hungary, Russia
FANUC Italy, Germany
ROLLON France
SEW



生物医学
CHEMICAL
PHARMACEUTICAL

AFFILIATED HOSPITAL OF GUANGXI MEDICAL UNIVERSITY China
XI'AN INTERNATIONAL MEDICAL CENTER China
TCI China
ABBOTT Italy, France, USA
AKZO NOBEL Italy
BAYER Germany, Argentina, Mexico
DUPONT USA
GLAXO SMITH KLINE Italy, UK, USA
JOHNSON & JOHNSON USA, Brasil



液压气动
HYDRAULIC

HAWE HYDRAULIC China
PEM PENN ENGINEERING China
GEA BOCK COMPRESSORS China
BITZER REFRIGERATION China
BOSCH REXROTH Italy, Germany, USA, Mexico, India
VAILLANT GROUP France, UK



运输
TRANSPORT

CRRC China
DHL Spain, Australia
FEDEX USA



航空 / 航天
AERONAUTICS/
AEROSPACE

LUFTHANSA TECHNIK China, Germany
CHINA ACADEMY OF SPACE TECHNOLOGY China
BEIJING SATELLITE China
SICHUAN AIRLINES China
CHINA EASTERN AIRLINES China
AIRBUS USA, France
BOEING USA
BOMBARDIER Germany
CONTINENTAL Germany, USA
EMBRAER Brasil
GE AVIATION USA
LOCKHEED MARTIN USA, UK
UNITED AIRLINES USA



包装 PACKAGING

TETRA PAK China
PROVOL PACKING China



塑料 / 造纸
PLASTIC / PAPER

MINGHUA MOULD & PLASTICS China
INTERNATIONAL PAPER USA
KIMBERLY-CLARK USA
SAINT-GOBAIN China, USA



家具 FURNITURE

IKEA China
LYRECO Italy, Spain, Germany, Poland, Belgium



超市 / 电商
SUPERMARKET/
E-COMMERCE

DECATHLON Canada
AMAZON USA



食品饮料
FOOD
DRINKS

OISHI - LIWAYWAY China
YILI GROUP China
COCA COLA Germany, UK, USA, Chile, Malaysia
FERRERO Italy, France, Turkey
PEPSICO USA, Australia



服装 / 时尚
CLOTHING/
FASHION

IRO - WUXI China
PRADA Italy
LOUIS VUITTON Italy
GIORGIO ARMANI Italy
HERMES Italy
LUXOTTICA Italy
DIOR Italy
VALENTINO Italy
NIKE USA, Belgium, Netherlands

Modula 在全球 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

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Tel. 400 806 6811

www.modula.cn

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