TC
EN

Modula LIFT

Think Vertical, Think Modula

MODULA
www.modula.cn

Modula：垂直升降式自動貨櫃

Modula垂直升降式自動貨櫃，模組化設計，充分利用垂直方向的空間。

標準設備最大高度可達16.1米，最大承載可達90000公斤。
可以安全，潔淨，高效地儲存各種物料，最高可以節省90%的占地面積。

Modula摩登納是一家具有30多年經驗的義大利公司，採用最先進生產線的Modula摩登納蘇州工廠是一個真正的工業4.0典範的智慧工廠。

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垂直升降式自動貨櫃之前 / Without Modula

使用Modula垂直升降式自動貨櫃之後 / With Modula

節省占地面積 / Floor space recovery　最高可達90% / up to **90%**

1. 節省空間
1. RECOVER SPACE

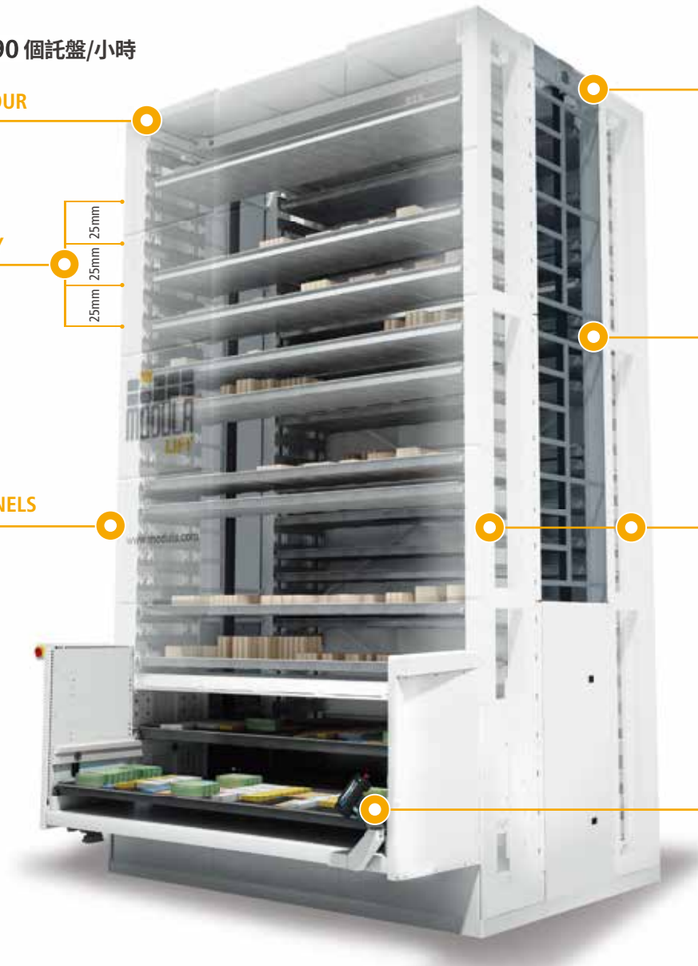
2. 更加安全
2. INCREASE SECURITY

3. 節省時間
3. SAVE TIME

4. 提高效率
4. IMPROVE EFFICIENCY

5. 降低風險
5. REDUCE RISKS

6. 改善庫存
6. BOOST INVENTORY MANAGEMENT



技術規格 / Technical Specifications	
設備高度：3300毫米至16100毫米 Unit heights: from 3.300 mm to 16.100 mm	存取能力達120個託盤/小時（視設備配置而定） Throughput: up to 120 trays/hr (depending on the configuration)
設備高度增量：200毫米 Unit height increment: 200 mm	操作介面：10.4寸觸控式螢幕工業控制台（Copilot） Operator interface: industrial console with 10.4' 'touch screen (Copilot)
託盤存儲調節幅度：25毫米 Tray storage pitch: 25 mm	標準設備存取口數量：最多3個，在地面上，可位於同側 Number of bays: up to 3, also above ground level and on the same side
託盤寬度：1500毫米至4100毫米 Tray widths: from 1.500 mm to 4.100 mm	存取口類型：內寘式存取口或外置式存取口及託盤單層或託盤雙層 Types of bay: internal or external with single or dual delivery level
託盤深度：654毫米和857毫米 Tray depths: 654 mm & 857 mm	• 最低能耗 • Minimal energy consumption • 自動稱重 • Automatic return tray weight check • 託盤上物料高度靈活可變 • Dynamic tray storage height • 承重結構採用鍍鋅鋼板 • Load-bearing structure in galvanised steel • 鋼絲皮帶傳動 • Eagle steel-reinforced toothed belt transmission • 每側6個定位輪的升降機導向系統 • Elevator guide system with 6 rollers per side • 可混合使用不同負載的託盤 • Multiple payload tray management
總載重：配備一個存取口的標準設備總載重70000 kg，加强結構總載重可達90000 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)	
存儲物料最大高度：695毫米（bay S）/ 895毫米（bay M）/ 1295毫米（bay XL） Maximum storage height capacity: 695 mm (bay S) / 895 mm (bay M) / 1,295 mm (bay XL)	

託盤配寘

可以根據您的需求，配寘不同類型的存取口。

- 單層存取口
- 內寘式存取口
- 存取口在背面
- 雙層存取口
- 外置式存取口
- 存取口在不同高度

通過使用雙層存取口，可以讓兩個託盤同時運行，（當一個託盤在存取口時，另一個託盤在自動門後等待）。或通過外置式存取口，操作人員可以借助機械助力裝置，提高工作的便利性，例如使用叉車，輕型起重機或者桁架等。

還可以在設備前後兩側同時揀貨，或者在不同的樓層進行操作。

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**
- **Internal bay**
- **Opposite bay**
- **Double bay**
- **External 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.

單層內寘式存取口
Single internal delivery

單層外置式存取口
Single external delivery

雙層內寘式存取口
Dual internal delivery

雙層外置式存取口
Dual external delivery

您可以在Modula垂直升降式自動貨櫃中存放什麼?

無論您所屬哪個行業，都可以利用Modula垂直升降式自動貨櫃對各種不同大小，重量，高度和數量的產品或備件進行存儲。

Modula垂直升降式自动货柜通常用来存储什么?

- 備件• 小件物品 • 用於配送或銷售的產品或消費品
- 成品及半成品 • 工具，設備，化妝品，藥品
- 電子及電力資料 • 機械零件
- 箱子等

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?

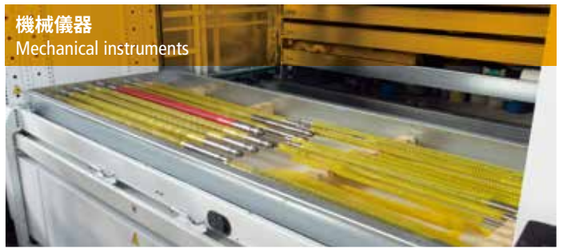
• Spare parts • Small items • Products or consumer goods for distribution or sale • Finished and semi-finished products • Tools, equipment, cosmetics, pharmaceuticals • Electrical and electronic materials • Mechanical parts • Boxes and much more.

刀具和鑽頭
Tooling and drill bits

盤料和電子元件
Reels and electronic components

藥品、包裝盒和化妝品
Pharmaceuticals, boxes and cosmetics

機械儀器
Mechanical instruments



小零件和五金製品
Tools and spare parts

工具和備件
Small parts and hardware

試劑瓶和標籤
Bottles and labels

線軸，繩索，鏈條
Spools, rope, chains

型號 Our models

ME & ME-D

型號 Model	託盤寬度 Tray width (mm)	託盤深度 Tray depth (mm)	託盤擋邊高度 Tray wall height (mm)	託盤淨載重量 Net tray payload (kg)	內真式存取口設備占地尺寸（寬x深毫米） Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口設備占地尺寸（寬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

MA & MA-D

型號 Model	託盤寬度 Tray width (mm)	託盤深度 Tray depth (mm)	託盤擋邊高度 Tray wall height (mm)	託盤淨載重量 Net tray payload (kg)	內真式存取口設備占地尺寸（寬x深毫米） Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口設備占地尺寸（寬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

MC & MC-D

型號 Model	託盤寬度 Tray width (mm)	託盤深度 Tray depth (mm)	托盘挡边高度 Tray wall height (mm)	託盤淨載重量 Net tray payload (kg)	內真式存取口設備占地尺寸（寬x深毫米） Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口設備占地尺寸（寬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

MX & MX-D

型號 Model	託盤寬度 Tray width (mm)	託盤深度 Tray depth (mm)	託盤擋邊高度 Tray wall height (mm)	託盤淨載重量 Net tray payload (kg)	內真式存取口設備占地尺寸（寬x深毫米） Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口設備占地尺寸（寬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

ML & ML-D

型號 Model	託盤寬度 Tray width (mm)	託盤深度 Tray depth (mm)	託盤擋邊高度 Tray wall height (mm)	託盤淨載重量 Net tray payload (kg)	內真式存取口設備占地尺寸（寬x深毫米） Unit footprint with INTERNAL bay (Width x Depth mm)	外置式存取口設備占地尺寸（寬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

各型號託盤最大載重可達990公斤

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

COPILOT工業控制台:10.4寸觸控式螢幕

INDUSTRIAL COPILOT CONSOLE: 10.4 INCH TOUCH SCREEN

MODULA WMS管理軟體:一切盡在掌握

MODULA WMS SOFTWARE: TO HAVE EVERYTHING UNDER CONTROL

操作者安全性:符合人體工程學, 安全, TÜV認證

OPERATOR SAFETY: ERGONOMIC, SAFE, TUV CERTIFICATION

Modula垂直升降式自動貨櫃與其他科技的應用集成

Modula垂直升降式自動貨櫃非常適用於其他科技產品的集成，例如：

•機器人•輸送線•播種式顯示幕•機械手•輕型起重機

Modula WMS庫存管理軟體可以實現與所有ERP系統的集成，藉此，垂直升降式自動貨櫃完全融入到公司的工作流程中，並與您的管理系統實現互動。

通過這種管道，您可以對物料及用戶的建立、生產訂單、庫存和備件進行高效管理，實現對庫存的動態監控。 Modula垂直升降式自動貨櫃可以讓盤點變得非常便捷，同步生成的專屬分析和報告讓一切盡在掌握。

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.

與機器人集成
Integration with anthropomorphic robots

播種式顯示幕與WMS連接
Put-to-Light systems connected to WMS

與機械手和起重機集成
Integration with manipulators and cranes

與輸送線集成
Integration with conveyors

設備安裝在室外
Insulated machines for outdoor installation

與防火系統集成
Fire protection system integration

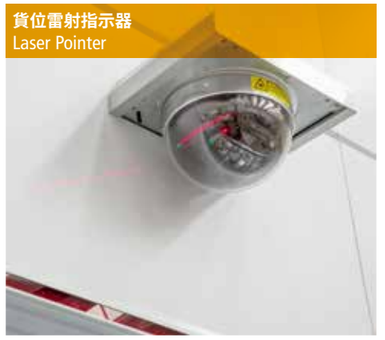
可選配寘

Options

磁條讀卡器
Magnetic badge Reader

EKS式讀卡器
EKS Reader

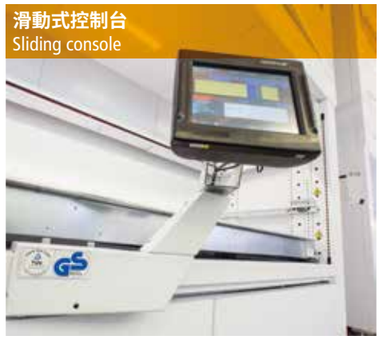
貨位雷射指示器
Laser Pointer



播種式顯示幕
Put-to-Light

一維和二維條碼閱讀器
1D or 2D barcode Reader

滑動式控制台
Sliding console



自動門
Automatic door

帶電源介面的託盤
Electrified tray

揀選完成踏板
Foot bar task complete

揀選完成確認按鈕
End Picking Button

外置式存取口照明燈
External bay lighting

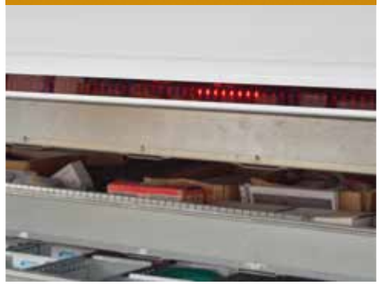
RFID Reader

字母式貨位訓示條
Alphanumeric bar

可选配置

Options

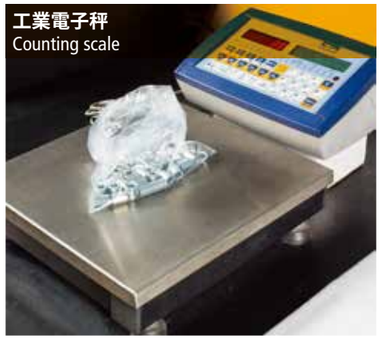
LED货位指示系统
LED bar



防静電保護系統
ESD protection system

標籤印表機
Label printer

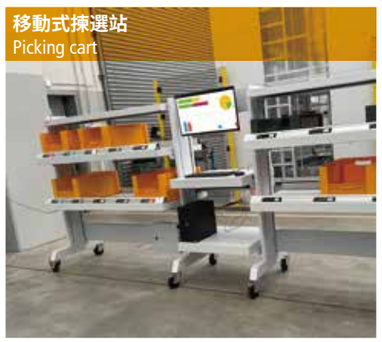
工業電子秤
Counting scale



可伸縮式存取口
Telescopic bay

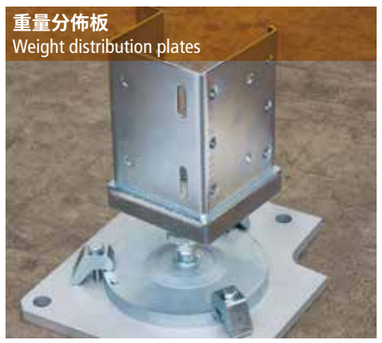
託盤周轉車
Trolley

移動式揀選站
Picking cart



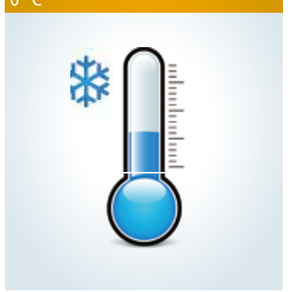
託盤配件
Tray accessories

重量分佈板
Weight distribution plates



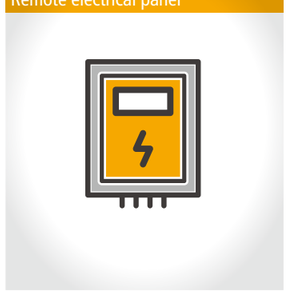
Modula綠色能源回收系統
Modula Green

零攝氏度
0 °C



消防噴淋
Sprinkler predisposition

可遠端安裝的電控櫃
Remote electrical panel



我們的部分客戶
Some Modula references

汽車行業
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
THYSSENKRUPP 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

電子
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

機械
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
LAEPPLE	China
GUHRING	China
TIANHONG MACHINERY	China
SCHAEFFLER	China, Romania
DEUTZ FAHR MACHINERY	China
3M	USA, Poland
ABB	Italy, Poland, Argentina
BLACK & DECKER	USA, Canada
ELECTROLUX	Italy, USA, Hungary
FANUC	Italy, Hungary, Russia
ROLLON	Italy, Germany
SEW	France

生物醫學
CHEMICAL
PHARMACEUTICAL

AFFILIATED HOSPITAL OF GUANGXI MEDI UNIVERSITY	China
XI'AN INTERNATION 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

液壓氣動
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

運輸
TRANSPORT

CRRC	China
DHL	Spain, Australia
FEDEX	USA

航空/航太
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

包裝 PACKAGING

TETRA PAK	China
PROVOL PACKING	China

塑膠/造紙
PLASTIC / PAPER

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

傢俱 FURNITURE

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

量販店/電商
SUPERMARKET/
E-COMMERCE

DECATHLON	Canada
AMAZON	USA

食品 FOOD
飲料 DRINKS

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

服裝/時尚
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

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