



SMART[®]

MANUFACTURING

solution for every phase of your production line

MODU[®]

Simplicity • Solutions



O 1995

Singapore

O 2007

China & Europe

O 2017

Australia

O 1998

Malaysia

O 2010

America & Indonesia

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RECENT AWARDS

MODU is a renowned modular conveyor, material handling and factory automation turnkey solution provider. We have recently been awarded with three SME awards, namely the Fast Moving Companies Award, the Platinum Export Excellence Award and the SME BestBrands Award.

Fast Moving Companies
by
SME Business Media International

Platinum Export Excellence
by
SME Association of Malaysia

SMEs BestBrands
by
Asia Pacific Brands Foundation



A Simple Concept: Modular & Flexible

MODU System was designed based on this concept to meet the ever-increasing demand for conveyors that are:

- ✓ Easy to install and reconfigure
- ✓ Highly flexible
- ✓ Reliable
- ✓ Possess an aesthetic look
- ✓ Easy to transport and economical to own



Flexible Design - Simple Assembly

MODU System vs **Other Brands**

- | | |
|--|--|
| <ul style="list-style-type: none">✓ Modular & flexible✓ Easy to install✓ Cost effective✓ Can be reconfigured
(-Realigned, Extended, Shortened-)✓ Various re-assembled components
(-Straights, Support, Bends-) | <ul style="list-style-type: none">• Belt & roller• Difficult to install & dismantle• Expensive to build & maintain• Can not be reconfigured |
|--|--|



Flat Pack

The shipping model for MODU System has evolved to become an increasingly efficient approach for the storage and handling of products. This model, along with a swift delivery procedure and ready stock, enables the company to deliver automation products to global markets throughout Asia, Europe, America, Australia and Africa.

The efficiency which we serve our global customers is an endorsement of our technical proficiency and engineering business insight.



Environment - Our Dedication

At MODU, we are dedicated towards continuous environmental improvement through our own 3R program: **Reduce, Reuse, Recycle.**










The use of fully-recyclable product materials (e.g. aluminum, POM, ABS, etc.) and the systematic coding of our products for easy recovery and recycling is an indication of our commitment towards a cleaner environment.

T

Thermoplastic Modular Conveyor







Plastic Chain

MODU System provides diverse plastic chain conveyor systems. All conveyor systems can be effortlessly assembled with standard tools. MODU System components are prepared with anodized aluminium and moulded plastic, giving a spotless and aesthetic outlook. A ready stock availability of conveyor components are ensured at MODU all times. The bends, straights and supports are made up of pre-assembled pieces in which MODU System conveyors can be assembled in a lesser time using simple hand tools.

Aluminium Frame	MP	MS2	MM3	ML2	MX2
					
Stainless Steel Frame		DS2	DM3	DL2	DX2
					
Chain width	35 mm	63 mm	83 mm	140 mm	220 mm
Beam width	45 mm	65 mm	85 mm	145 mm	225 mm

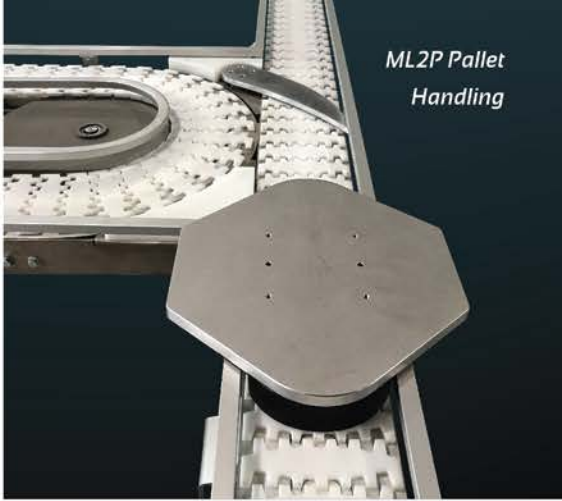
Plastic Belt

The new modular plastic belt conveyor system from MODU is a simplified solution for conveying large products. All components of the plastic belt conveyor are standardized for easy engineering, maintenance and operation. Simplicity in its design makes MODU System’s new plastic belt conveyor reliable, flexible, safe and adaptive to any requirements. The white POM belt surface is flat and smooth which minimizes the risk of scratches on products, allowing safe handling of sensitive products. Plastic belt conveyor systems are designed to integrate with new and existing production equipment. Machinery that has been laid out to fulfill factory and operator requirement can easily be linked using suitable components and conveyors from our modular range.

Aluminium Frame	MT2	MR2	MF2
			
Stainless Steel Frame	DT2	DR2	DF2
			
Chain width	315 mm	438 mm	585 mm
Beam width	360 mm	480 mm	625 mm

Pallet Handling System

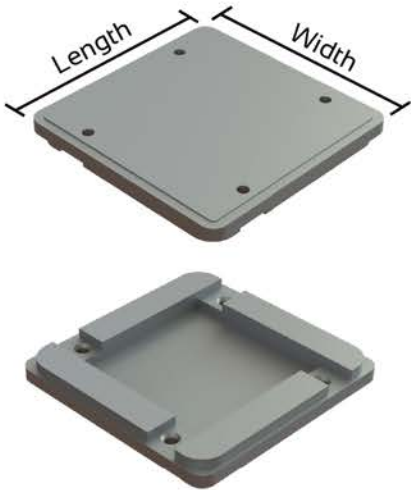
Twin track pallets assembly solutions were designed to convey pallets/slave board from one process or assembly station to another. Based on a modular system, these solutions offered customers plug and play solutions with flexible configurable options.



ML2P Pallet Handling

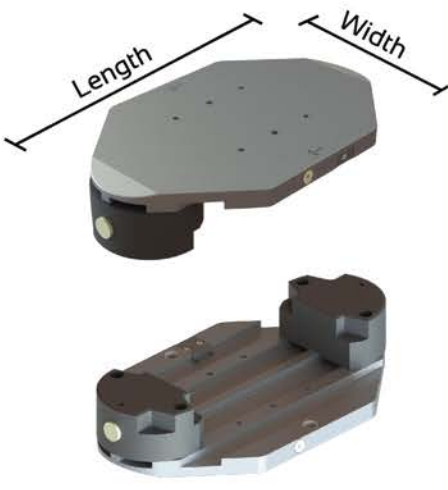


MP Pallet



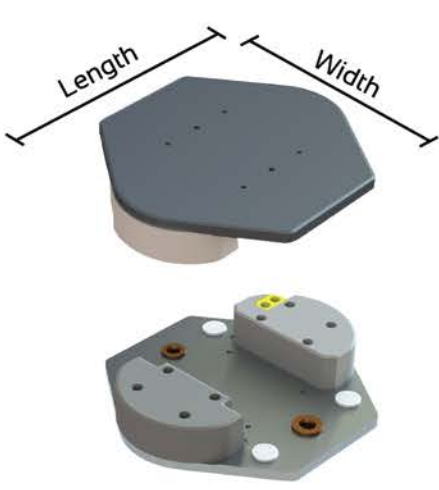
Pallet	Width	Length
Type 1	250mm	490mm
Type 2	330mm	410mm
Type 3	330mm	490mm
Type 4	400mm	640mm

MM3P Pallet



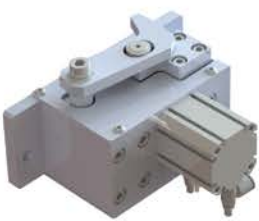
Pallet	Width	Length
Type 1	160mm	265mm
Type 2	160mm	215mm
Type 3	160mm	165mm
Type 4	160mm	141mm

ML2P Pallet



Pallet	Width	Length
Large	306mm	347mm
Medium	256mm	272mm
Small	215mm	222mm

Singulator & Stopper



Locating Station



Divert Devices



Merge Devices



A Accumulation Conveyor

Table-Accumulation

With large storage capacity, Table-Accumulation stores products to generate mass buffering in order to accommodate other processes. This equipment is driven by two gear motors which drive alternating conveyors in opposite directions.

- Straight running chain to avoid damage to the product.
- Falling products are discarded at the turning ends.
- Number of lanes can vary from 3 to 9.



S-Accumulation

S-Accumulation conveyor provide inline first-in-first-out accumulation of containers. Maintains container orientation; maximizes floor space utilization while providing accumulation between line operations. Sanitary clean design suited for pharmaceutical operations.



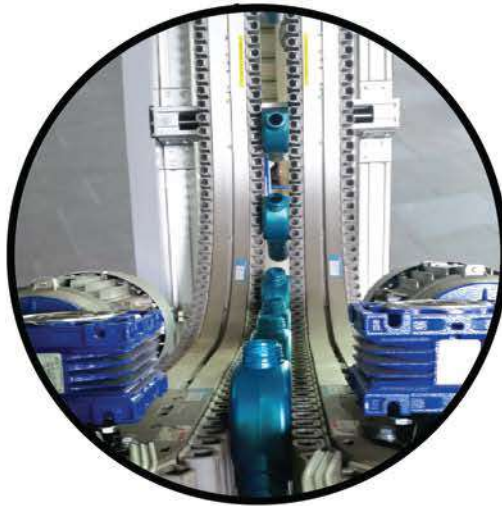
Alpine-Accumulation

Alpine-Accumulation conveyor acts as a buffer between machines.

It can be used for cooling, drying or to move the products horizontally. The alpine conveyor consists of many conveyor layers which are stacked above each other.

E

Elevating & Lowering Solution



Gripper Conveyor System Elevator / Lowerator

Gripper conveyor is a conveyor system which utilises 2 sets of conveyors set up in a gripping format, to move a product from a lower elevation to upper elevation or vice versa, only taking up very minimum floor space. Gripper conveyors is an ideal set up for high speed production or packaging line.



E

Elevating & Lowering Solution



Friction Conveyor



Roller Cleat Conveyor

Friction / Cleated Conveyor

Simple and cost effective way to bring a product from one level to another.



Available Chain Top



Spiral Conveyor

MODU Spirals conveyors are designed to be reliable, flexible and easy to operate. MODU Automatic Lubrication System (ALS) and Chain Tension Adjustment System makes the spiral conveyor easy to maintain.

Specification

Chain Width	Outer Diameter
155mm	1350mm
220mm	1500mm
400mm	1850mm
600mm	2250mm



M

Manufacturing
Automation

Continuous Elevator / Lowerator

- Quick access maintenance touch panel
- Comprehensive guiding
- Continuous flow elevating with no reciprocating action
- Universal mounts for any type of infeed and outfeed conveyor
- Available in multiple heights, capacities and payload sizes
- Available in both Aluminium and Stainless-Steel frame
- High capacity of up to 25 lifts/min
- Small foot print



MODU

Industry 4.0 Solution

We are Industry 4.0 ready, making MODU Technologies your ideal partner in Smart Automation.



Autonomous Robots



System Integration



Cloud Computing



Internet Of Things



Additive Manufacturing



Augmented Reality



Cybersecurity

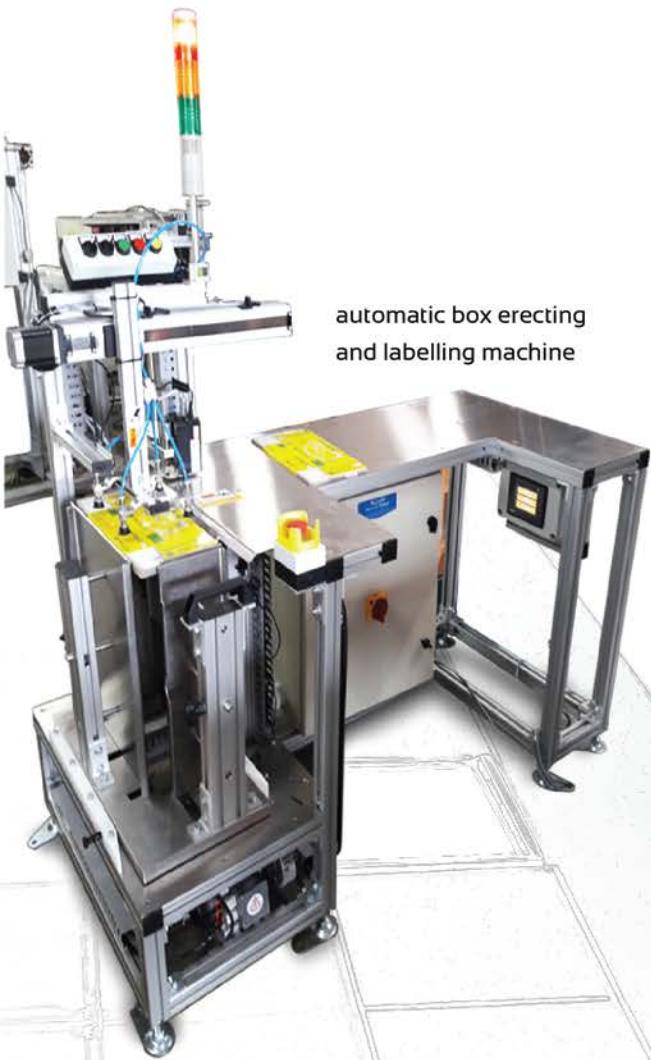


Big data



Simulation

Customised Automation System



automatic box erecting and labelling machine



automatic fluorescent light housing assembly machine

MODU Technologies offers highly customised automation system to our customer. As a turnkey materials handling solutions provider, MODU Technologies also offers customised solutions to each process so all processes could be streamlined into the whole production floor efficiently, without the needs to refer to a multi-party set up.

Automated Guided Vehicle

MODU Technologies Automated Guided Vehicle (AGV) is a mobile robot that can automatically navigate and transport materials from one location to another. It is suitable for (not limited to) manufacturing, textile, automotive, food & beverage, warehousing, hospital operations, etc.



MODU Technologies AGV is a modern AGV equipped with the latest technologies. Its modular design is flexible and easy to maintain. Powered by NavWiz system, the usage and programming of an AGV has never been this easy and simple.

Features ▾

- Modular
- Sixteen I/O
- Auto Charging
- Differential Driven
- Safety
- NavWiz Task
- Bi-Directional
- Internet of Thing



R

Robotic Automation

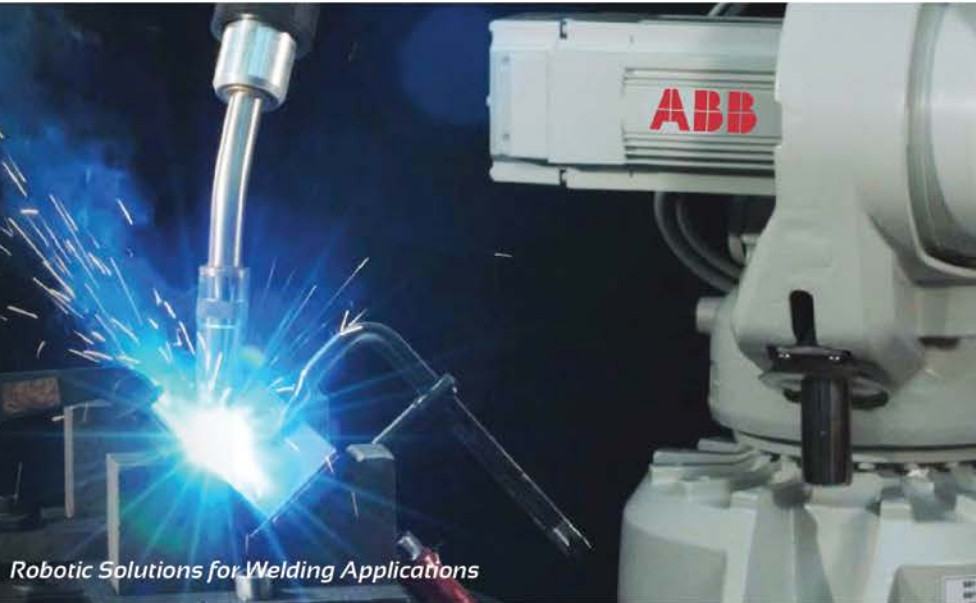
Improving productivity, quality and workplace safety

MODU Technologies is a channel partner with renowned Industrial robot maker ABB Robots. Together we have rolled out many robotic applications across all industries.



Assembly Automation ^

Simple assembly operations, including picking, placing, stacking and kitting, can all be accomplished with a delta-style robot.

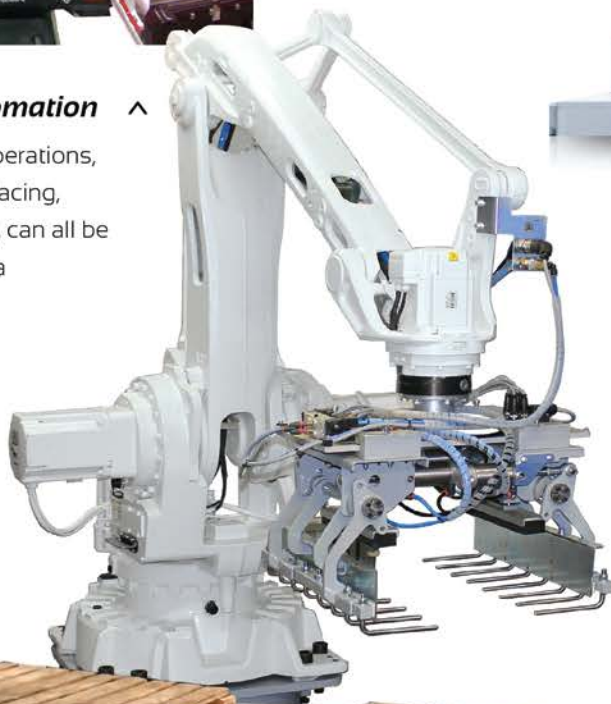


Robotic Solutions for Welding Applications

Collaborative Robot >



Dual arm, small parts assembly robot solution that includes flexible hands, parts feeding systems, camera-based part location, as well as state-of-the-art robot control.



< Palletising System

Product palletising using an industrial robot is very popular in modern packaging line nowadays as it minimises manpower as well as industrial mishaps, ensuring high productivity.

The Industries



Electronic & Electrical Industry



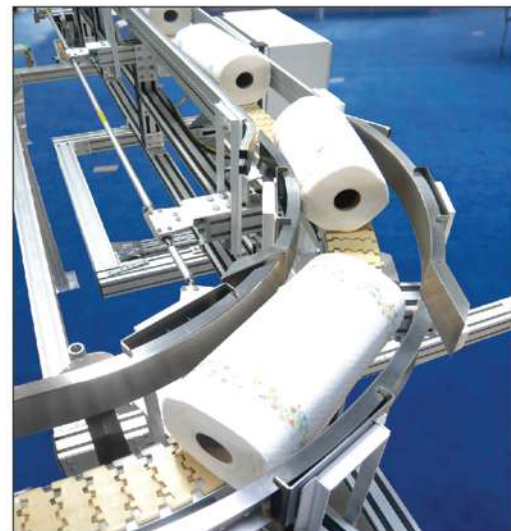
Food & Packaging Industry



Personal & Pharmaceutical Industry



Tea Bag Handling Industry



Paper Converting Industry

At MODU, we understand and care about our customers' needs. We are committed to deliver high quality and reliable, yet cost effective solutions. We work closely with our customers to ensure that the systems and solutions we supply will fulfil the ever-changing demands of the market.

MODU System Conveyors make the most out of limited factory space by utilizing overhead space and small radius.



Automotive & Machined Part Industry



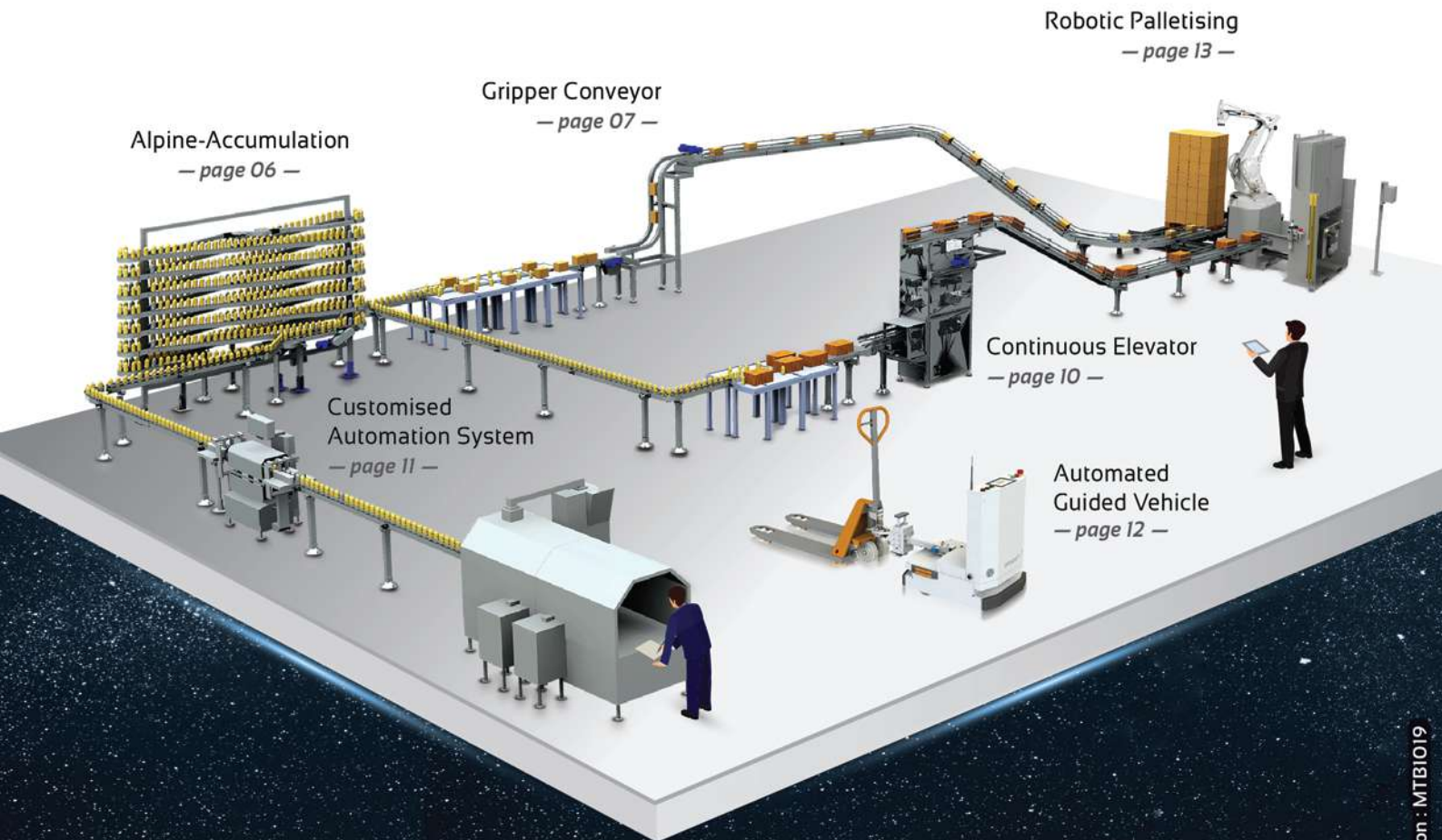
Optical Industry

Our customer base includes many of the world's leading companies



Automated Product Flow

We provide automated product flow for your manufacturing processes needs. With our vast skills and expertise, along with our reliable sales and services networks, we are confident in providing our solutions for every stage of the manufacturing processes.



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