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modu®
MODU System
the Modular Conveyor Company www.mymodu.com

MODU System

Product Brochure

Solutions for every phase of your production line...

modu®
the modular conveyor company

A simple concept - modular & flexible

MODU System was established based on this concept to meet the ever increasing demand for conveyors that are easy to install & reconfigure, highly flexible, reliable, having an aesthetic look, easy to transport and yet economical to own.

Standard Parts
Parts are made of lightweight materials, such as aluminium alloy and engineered plastics designed to exact tolerances for easy accurate fit.

Flexible design - simple assembly

3-Dimensional Layout
MODU System conveyors make the most out of limited factory space by utilizing overhead space and small radius turns.

The conventional conveyor system is normally the belt & roller which is difficult to install & dismantle, expensive to build and maintain, and cannot be reconfigured.
MODU System conveyors are modular and flexible, which makes them very cost effective. The straights, supports, and bends are made up of various re-assembled components. Therefore a ***MODU System*** conveyor can be installed or reconfigured (realigned, extended or shortened) within a very short time-frame easily by using simple tools.

modu® Conveyor System

Economic Ownership

Excellent Quality

Low Maintenance

Short-time Delivery

Environment: Our Dedication

At ***MODU System*** are dedicated to bring continuous environmental improvement through our "reduce, reuse and recycle" programmes. Use of fully recyclable product materials e.g. aluminium, POM, ABS etc. and systematic coding of our products for easy recovery and recycling is an indication of our commitment to better environment. In addition, our conveyor modular design helps to extend the product life cycle

Flat Pack

The shipping model at ***MODU System*** has evolved as an efficient approach for storage and handling of products. This model, together with swift delivery procedure and ready stock enables the company to deliver automation products to global markets like Asia, Europe, America, Australia, and Africa. The efficiency with which we serve our global customers is an endorsement of our technical proficiency and engineering business insight.

Innovation - A Never-Ending Process

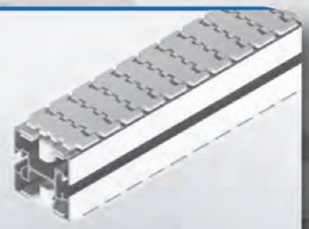
At ***MODU System***, we have always been motivated by imagination and bold decision making to appreciate power of ideas. Our designers and engineers dwell in the future, paying huge emphasis on utilizing cutting-edge technology to spearhead continuous product development and research. This innovative vision of ***MODU System*** has been able to fulfill customers' demands in terms of products and solutions.

Aluminium Conveyor Systems

Thermoplastic chain with aluminium frame

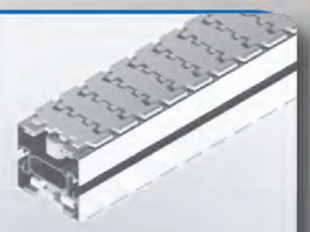
MODU System provides seven diverse plastic chain conveyor systems out of which three systems are plastic belt conveyors. All conveyor systems can be effortlessly assembled with standard tools. Single components are prepared with anodized aluminum and plastic, giving a spotless and artistic outlook. A ready stock availability of conveyer components is ensured at ***MODU System*** at all times. The bends, straights and supports are made up of pre-assembled pieces due to which MODU Conveyors can be reconfigured or assembled in quite a less time using simple hand held tools.

MODU MS2



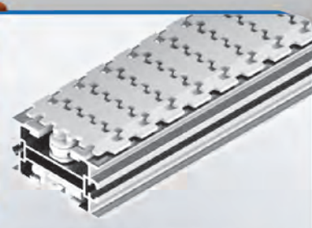
Chain width: 63mm
Beam Width: 65mm

MODU MM3



Chain width: 83mm
Beam Width: 85mm

MODU ML2



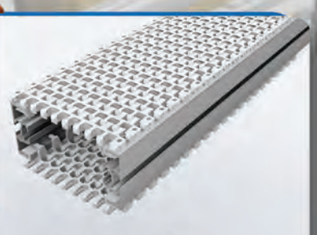
Chain width: 140mm
Beam Width: 145mm

MODU MX2

Chain width: 220mm
Beam Width: 225mm

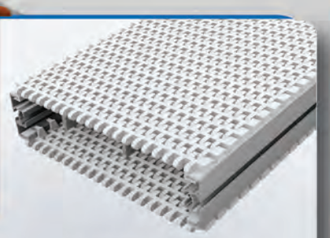
Plastic Belt Chain

MODU MO



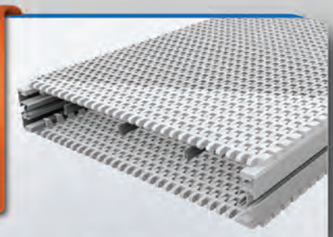
Chain width: 165mm
Beam Width: 170mm

MODU MT



Chain width: 350mm
Beam Width: 355mm

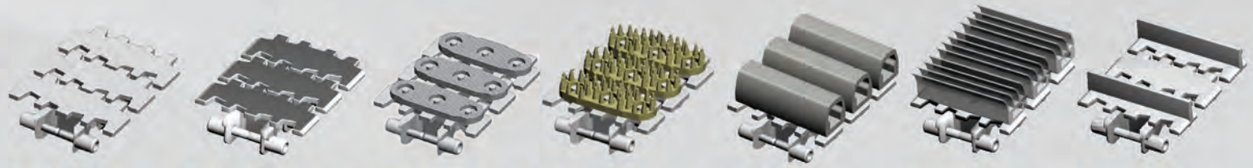
MODU MF



Chain width: 500mm
Beam Width: 505mm

Chain Top - options

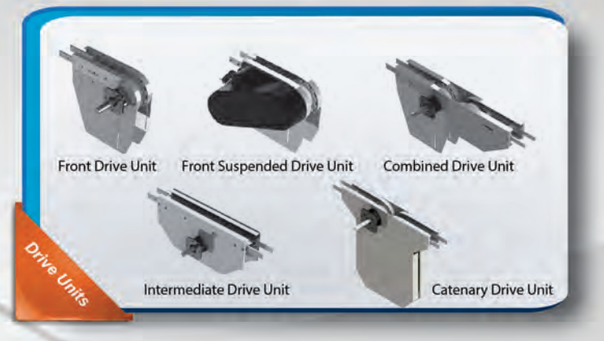
Multiple chain top options allow for a variety of applications. Standard chain material is POM. Other chain materials are also available upon request. Materials available are Anti-Static, and Kevlar.

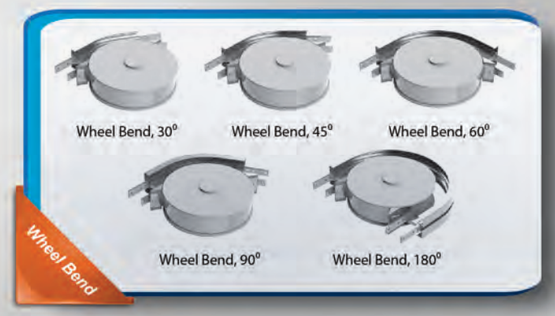


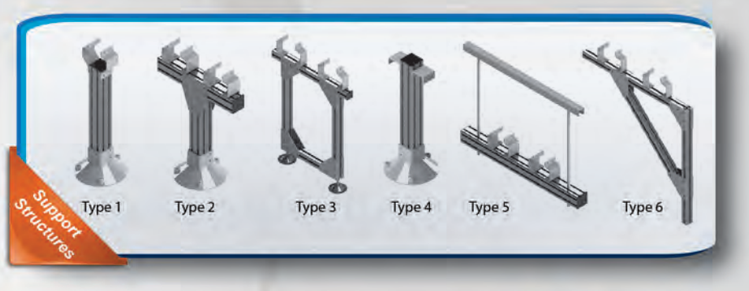
Plain Chain | Flocked Chain | Friction Chain | Finger Gripper Chain | Box Gripper Chain | Wedge Gripper Chain | Cleated Chain

The choice is yours

MODU System has made significant progress in the conveyor business surging ahead of its competitors, to provide a 'one-stop modular conveyor system centre' to serve a varied clientele. This is further accentuated by a proven track record in the international business arena and a widespread acceptance and recognition of its largely superior products, innovative designs and professional services.





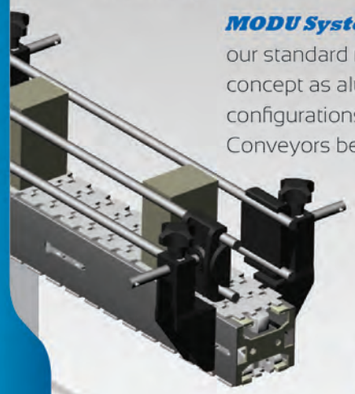


Technical Data

	MS2	MM3	ML2	MX2	MO	MT	MF
Chain width	63mm	83mm	140mm	220mm	165mm	350mm	500mm
Tensile strength at 20°C (POM)	3000N	5000N	6000N	6000N	5000N	7000N	10000N
Tensile strength at 20°C (PP)	-	2000N	2600N	-	-	4200N	6000N
Maximum working tension (POM)	500N	1000N	1300N	1300N	1100N	1300N	1300N
Maximum working tension (PP)	-	600N	800N	-	900N	1000N	1000N
Working temperature	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Recommended running speed	3-50 m/min	3-50 m/min	3-50 m/min	3-60 m/min	3-50 m/min	3-50 m/min	3-60 m/min
Max.conveyor length (depend on layout)	30m	30m	30m	30m	30m	30m	30m
Minimum turning radius	150mm	160mm	200mm	500mm	1000mm	1200mm	500mm
Link spacing (Pitch)	25.4mm	33.5mm	44.5mm	44.5mm	25.4mm	25.4mm	44.5mm
Chain weight (POM plain chain)	0.75kg/m	1.2kg/m	2.5kg/m	3.4kg/m	1.6kg/m	3.5kg/m	5.0kg/m
Chain weight (PP plain chain)	-	-	-	-	-	2.5kg/m	3.6kg/m
Chain weight (POM friction chain)	0.75kg/m	1.42kg/m	1.91kg/m	3.6kg/m	-	-	-
Chain weight (PP friction chain)	-	-	-	-	1.7kg/m	1.7kg/m	3.9kg/m
Chain weight (gripper chain)	-	1.47-1.87kg/m	-	-	-	-	-

Stainless Steel Conveyor Systems

Thermoplastic chain with stainless steel frame

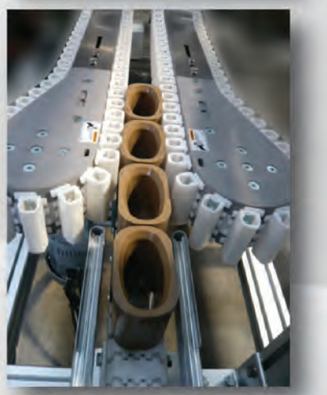


MODU System Stainlesss Steel Conveyor provides a structural stainless steel conveyor which uses our standard multi-flex plastic conveyor chain. The stainless steel conveyors are designed with similar concept as aluminium conveyors. MODU Conveyor's modular design comprehends trouble-free line configurations, site installation and maintenance making them cost effective and simple to use. Conveyors be reconfigured or assembled in quite a less time using simple hand held tools.

Applications

D series conveyors are suitable for a wide range of applications:

- ✓ Application in packaged food handling.
- ✓ Application in the pharmaceutical industry, where hygiene is extremely important.
- ✓ Application in the cosmetics industry.
- ✓ Application in industries where cleanliness, quick and easy cleaning is essential.



Benefits of D Series Conveyor

- ☑ Minimum dust accumulation thus easy to be cleaned.
- ☑ Low noise level and low power consumption.
- ☑ Ability to integrate with other application and device such as sensors and diverters.
- ☑ Flexible to install and match with site arrangement layout.
- ☑ Modular design for easy replacement of component parts, drives, idlers, wheel bends, wear parts, etc allows for flat packing to reduce shipping costs.
- ☑ Lightweight design.

Standard - conveyor size

The conveyor beam consists of two stainless steel profiles joined by connecting plates.

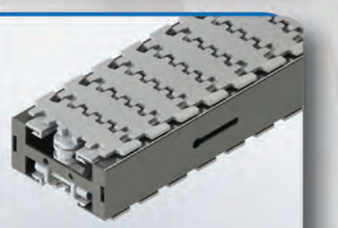
MODU DS2

Chain width: 63mm
Beam Width: 65mm

MODU DM3

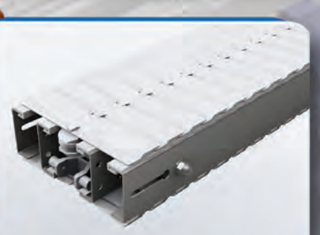
Chain width: 83mm
Beam Width: 85mm

MODU DL2



Chain width: 140mm
Beam Width: 145mm

MODU DX2



Chain width: 220mm
Beam Width: 225mm

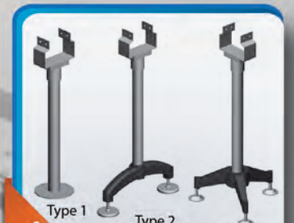
Standard Conveyor Components

Drive Units

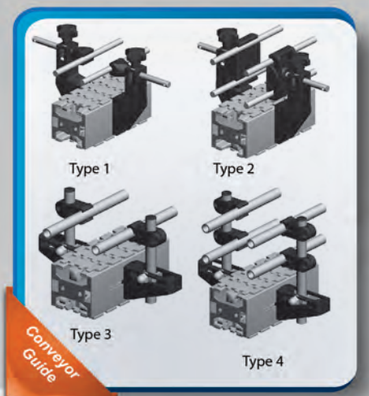
Wheel Bend

Plain Bend

Support Structures



Conveyor Guide



Stainlees Steel Series Conveyor - at work

Packaged food processing line.

Packaged food processing line.

Cooking oil line with stainless steel chain

High speed can production line

Multiple conveyor lines in dairy production.

Special Equipment

Continuous Flow Carton Case Elevator & Lowerator

MODU System Continuous Flow Elevator / Lowerator is commonly used to convey food and beverage cases, bagged products, trays, and other similar items. It is designed for high speed and large payload capacity. Continuous Flow Elevators / Lowerator frees up floor space in case/carton palletizing lines, warehousing, or in work-in-progress storage applications by transferring products to an overhead conveyor section. This machine is idle to create aisleways, clearance for forklifts, transfer product between floors and etc.

Features

- Continuous flow elevating with no reciprocating action.
- Universal mounts for any type of infeed and outfeed conveyor.
- Quick access maintenance panel.
- Comprehensive guiding.
- Available in multiple heights, capacities and payload sizes.
- Available in Aluminium and Stainless Steel frame

Gripper System

Gripper is utilized for moving the products up and down or to put things on a hold between the conveyers or at the finishing stage of the conveyer. Two sets of conveyers are attached in a gripper in order to transport products to higher or lower elevations while taking up minimal floor space. It holds the product in a firm but gentle manner before releasing it to another conveyor.

Advantages

- Saves floor space, reduces conveyance length and entails fewer transfers
- Creates larger holding area at ceiling thus maximizing space utilization.
- Can be integrated easily with other devices e.g. blower and ink printing machine.
- Easy to install and compliments site arrangement layout.

Accumulation Conveyor

Accumulation conveyor momentarily holds products before liberating them to the next production phase. Accumulation conveyers come in two different configurations; accumulation table and alpine conveyor.

Accumulation Conveyor for composite can

Bi-directional Accumulation Conveyor

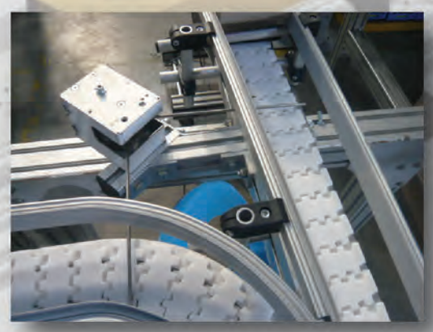
Alpine Conveyor

The alpine accumulating conveyor acts as a buffer between machines. It can be used for cooling, drying or to move the products horizontally. The alpine conveyor contain of many conveyer layers which are stacked above each other

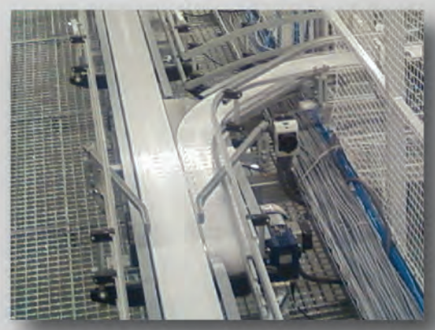
Composite Can Cleaner

The primary function of a MODU Composite Can Cleaner is to blow air into a paper can and eliminate dust inside the composite can.

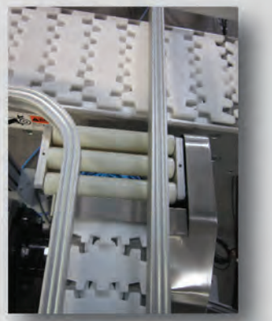
Special Devices



Traffic Controller
(pneumatic / mechanical)



Centering Device

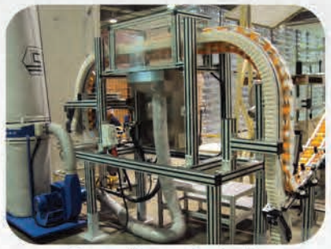


Driven Transfer Roller

Rapid Width Adjustment
(manual / motorized)

MODU Conveyors at work

Food & Packaging Industry


Composite can cleaning line

High speed can manufacturing lines

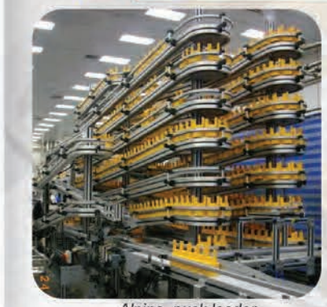
Cleated conveyor for biscuit packaging

Incline friction conveyor for cartons

Bottle production line

Puck handling system for odd shape products

Personal Product & Pharmaceutical Industry


Alpine puck loader

Incline and merge conveyors

Vertical gripper conveyors

Conveyors for shampoo

Conveyor for personal products

Tea Bag Handling Industry

Tea bags filing line

Packet incline unit for tea bags

Tea bags production line

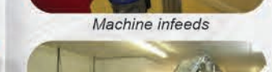
Packaging line for tea bags

Optical Industry

Machine infeeds

Complete distribution systems

Tray distribution


Friction chain inclines

Lens tray pushers

Lens tray conveyors

Paper Converting Industry

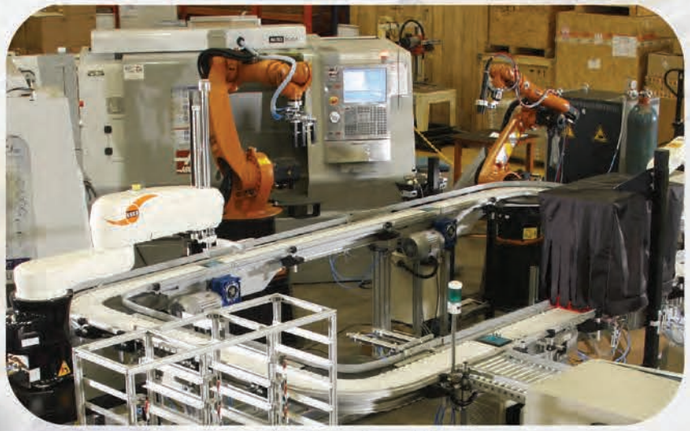
Vertical diverter

Conveyors with automated width adjust

Tissue incline conveyors

Decline conveyors

Automotive & Machnied Part Industry


Automotive part assembly

Automotive oil filter lines

Robotic Palletizing

Meat Processing Industry

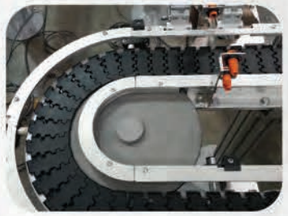
Multi lane conveyor system

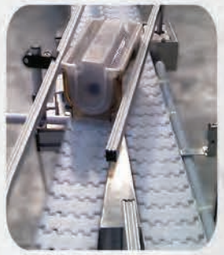
Stainless steel friction incline conveyor

Multiple merging conveyor

Bottling line with stainless steel chain and frame

Electronic & Electrical Industry


Anti-Static conveyor chain


Hard disk substrate production line

Conveyor line for multi electronic components

Flexible and Reliable Solutions for Increased Productivity