



# *Spiral Conveyor*

**MODU<sup>®</sup>**

*Simplicity • Solutions*

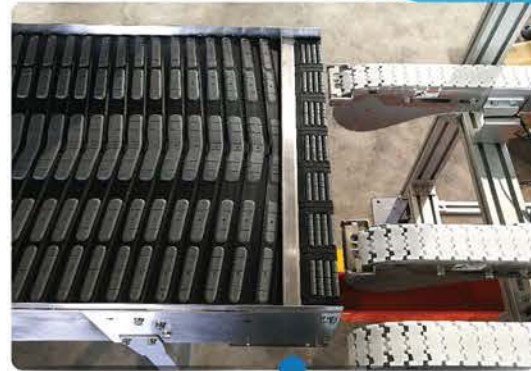


# OVERVIEW

MODU Spiral Conveyors are of modular design, available in several standard configurations to accommodate a wide range of products.



Reducing the number of transfers and drives  
Smart and simple way to create extra space



Friction pads (TPE) are added onto the standard chain for upwards/downwards conveying with incline/decline angle of less than 25°.



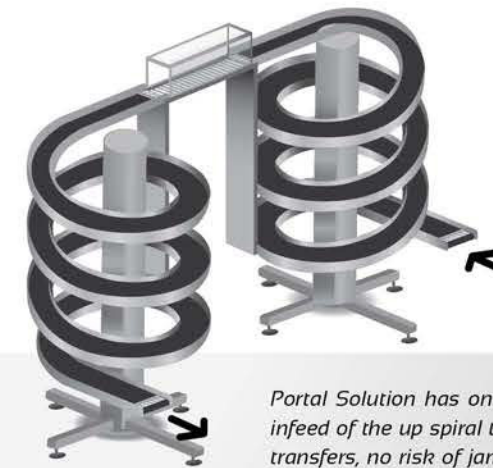
## EASY MAINTENANCE

MODU Spiral Conveyor is designed to be reliable and high in quality. Design measures have been carefully considered to ensure low maintenance. Features such as overload protection, automatic lubrication system (chain) and smart tension adjustment modules are integrated to ensure smooth operation.



# SOLUTION

FAST DELIVERY  
INNOVATIVE DESIGN  
EXCELLENT QUALITY  
LOW MAINTENANCE  
ECONOMICAL OWNERSHIP



PORTAL

Portal Solution has only ONE belt that goes all the way from the infeed of the up spiral to the outfeed of the down spiral. No product transfers, no risk of jams high up and out of reach. It's that simple! Two spirals, one on either side, with an overhead bridging conveyor element suspended in between.



ELEVATION

MODU Spiral Conveyors can convey cartons, cases, trays, totes and all sorts of packaged goods up or down in a continuous flow. MODU's propriety slat-style belts are designed with rolling friction without any sliding movements on wear strips. This facilitates small footprint, high speed, low noise, low maintenance and long life.



BUFFERING

MODU Mass Flow Spiral Conveyor is specially configured to elevate or store mass flows of containers such as cans or items of glass.



CONVEYING

The "3-dimensional connection" concept features compact and continuous elevation, coupled with the ability to reach flexibly with just one conveyor throughout a building complex horizontally, making it suitable for the most complicated layouts.



## INNOVATION CENTER

Simplicity in MODU's Spiral conveyor design makes the system reliable, flexible, safe and trouble-free in operation. MODU's development in area of maintenance and installation includes automatic lubrication system (ALS) and tension adjustment.

## PROPRIETARY CHAIN

Spiral Conveyor belts are made from composite plastic material, (PP / POM) which has good material characteristics such as high in rigidity, impact resistance and low in friction. The modular design of MODU's spiral conveyor belt simplifies the maintenance and replacement task.





# CONSTRUCTION

Most of our Spiral Conveyors are shipped without controls as they are integrated with an overall conveyor control system. Our spirals includes an inverter duty gear motor and two proximity sensors, one for the automatic chain tensioner and one for the overload protection device.

• & Stainless Steel

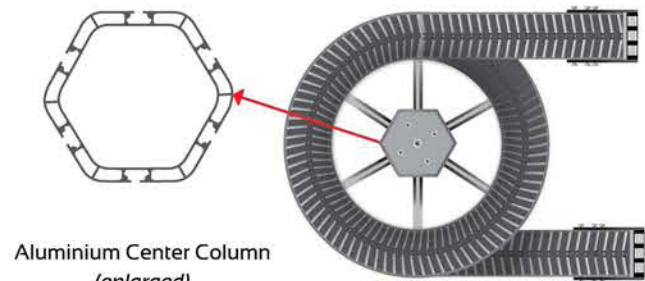
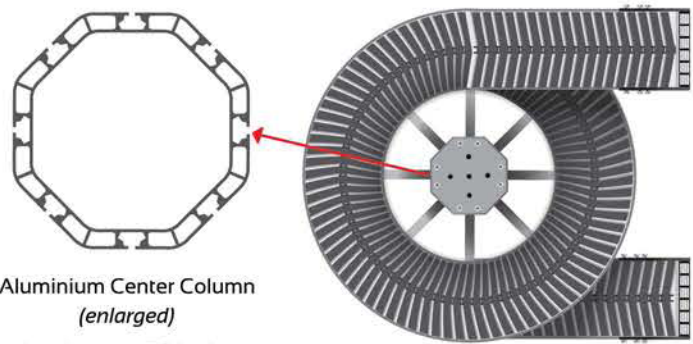


• Fully Aluminium



## MEDIUM DUTY SPIRAL CONVEYOR

## LIGHT DUTY SPIRAL CONVEYOR



Aluminium Center Column  
(enlarged)

Aluminium Center Column  
(enlarged)

Loads up to: 50 kg/m  
Speed: 50m/minute

Loads up to: 20 kg/m  
Speed: 50m/minute

• Fully Steel

• Fully Stainless Steel



## SINGLE LANE SPIRAL CONVEYOR



The Single lane Spiral Conveyor is modular built with a small footprint to save floor space. These spirals are easy to install as they are pre-assembled before delivery.



## DUAL LANE SPIRAL CONVEYOR



MODU Dual Lane provides large flexibility for production facilities where floor space is of utmost importance. The double tracks transports twice as much products with a speed of 50 kg/m and 50 m/min per track.

- ✓ Continuous elevator/buffer system
- ✓ Two or more parallel product flows
- ✓ Space-saving design
- ✓ Designed for high capacity dual lane packing lines



## Product Industry



Cans



Bottles



Containers



Cartons



Bundles

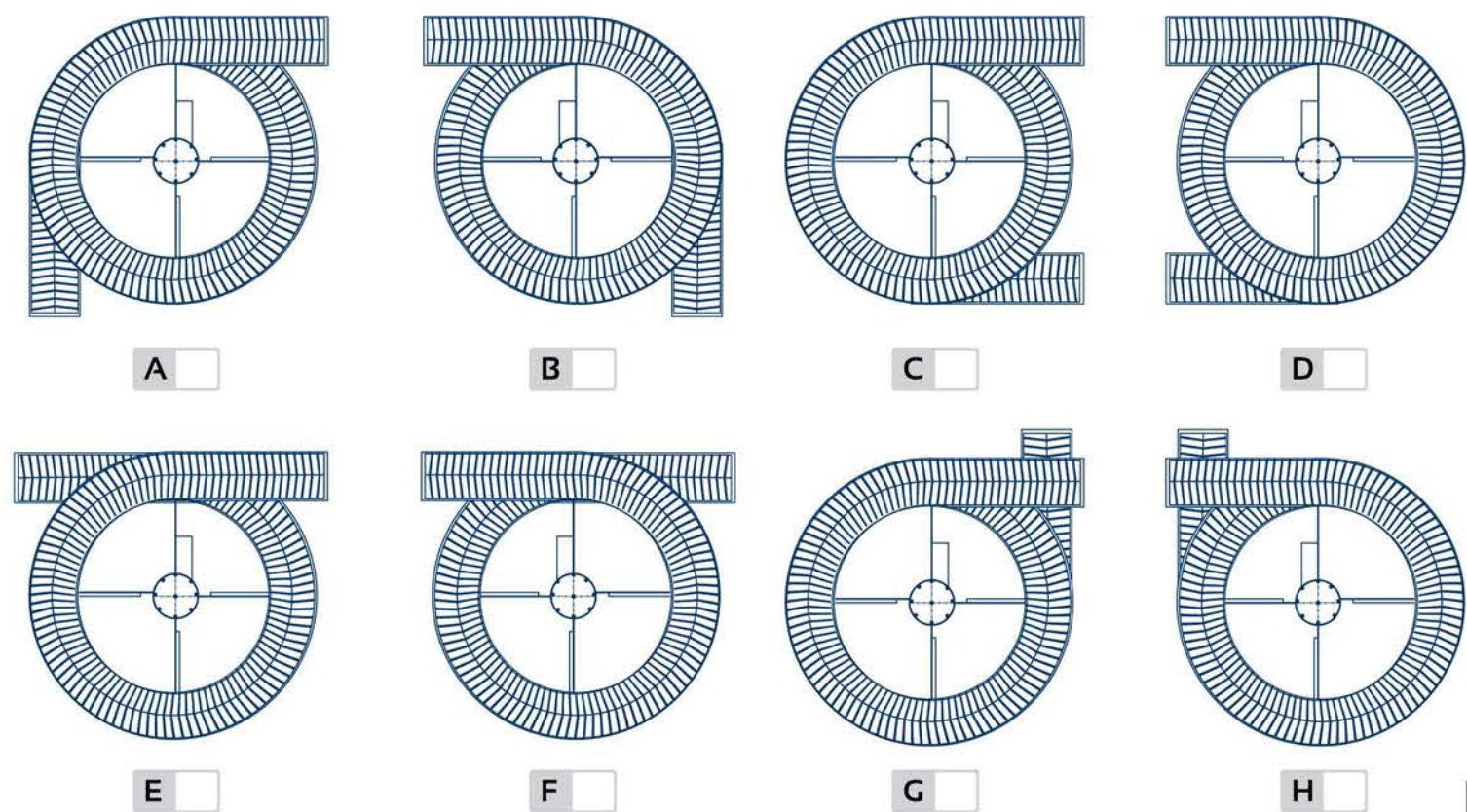


# ORDERING GUIDELINES

MODU Spiral Conveyors are of modular design, available in several standard versions to accommodate a wide range of loads and applications.



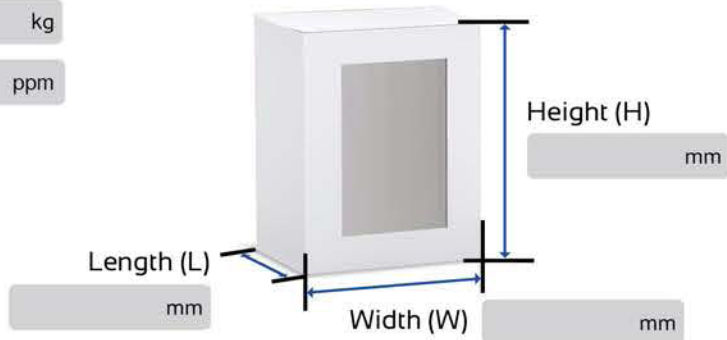
## AVAILABLE CONFIGURATION



## PRODUCT DETAILS

Weight  kg

Capacity  ppm



Leading Direction ☐ L ☐ W

Contact Materials

[ Hard Plastic ] [ Carton ] [ Metal ] [ Soft Paper ] [ Soft Plastic ] [ Glass ] [ Wood ]

Product Height Range	Proposed Side Guide Height
0-99 mm	25
100-199 mm	50
200-299 mm	75
300-399 mm	100
400-499 mm	125
500-599 mm	150

### Proposed side guide height

The height of the side guide is determined based on the product height. The table above shows an example of the product height and its proposed side guide height.

## BELT TYPE

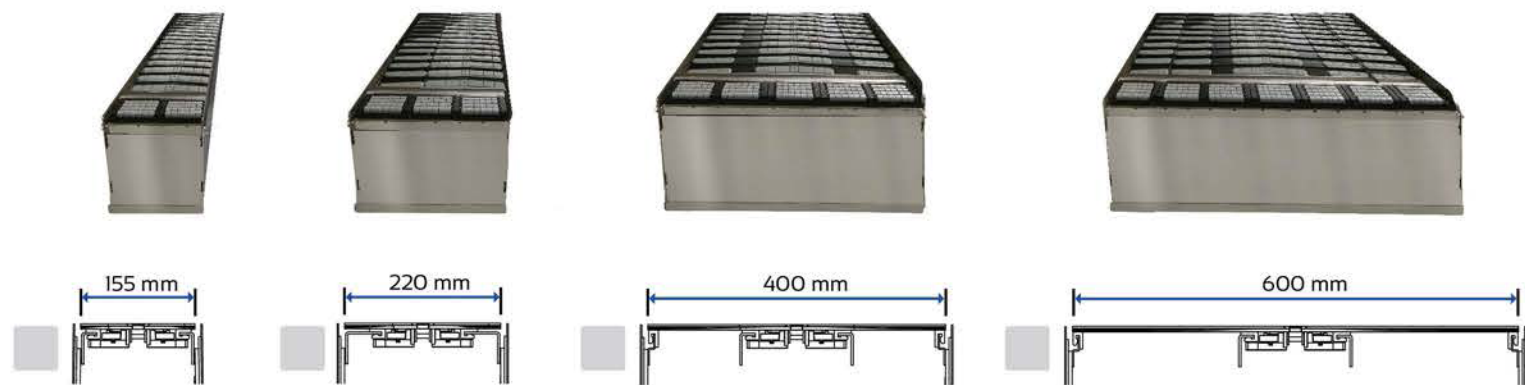


☐ Plain

☐ Friction

Width	Outer Diameter (OD)	Chain Type	Pitch	Allowable Load	Allowable Speed	Operating Temperature
155 mm	1310 mm	Plain (P)	38.1 mm	40 kg/m	50 m/min	10°C - 60°C
220 mm	1440 mm					
400 mm	1800 mm	Friction (F)				
600 mm	2200 mm					

## BELT WIDTH



## APPLICATION

Operating Temperature  °C (10°C - 60°C)

Voltage Current value  V  Hz

Maximum Speed  m/min (max 50 m/min)

Specify Brand of Motor

☐ No Specific ☐ Specific  Please Specify

Speed Adjustable  m/min -  m/min

## IN STANDARD BUILD AS

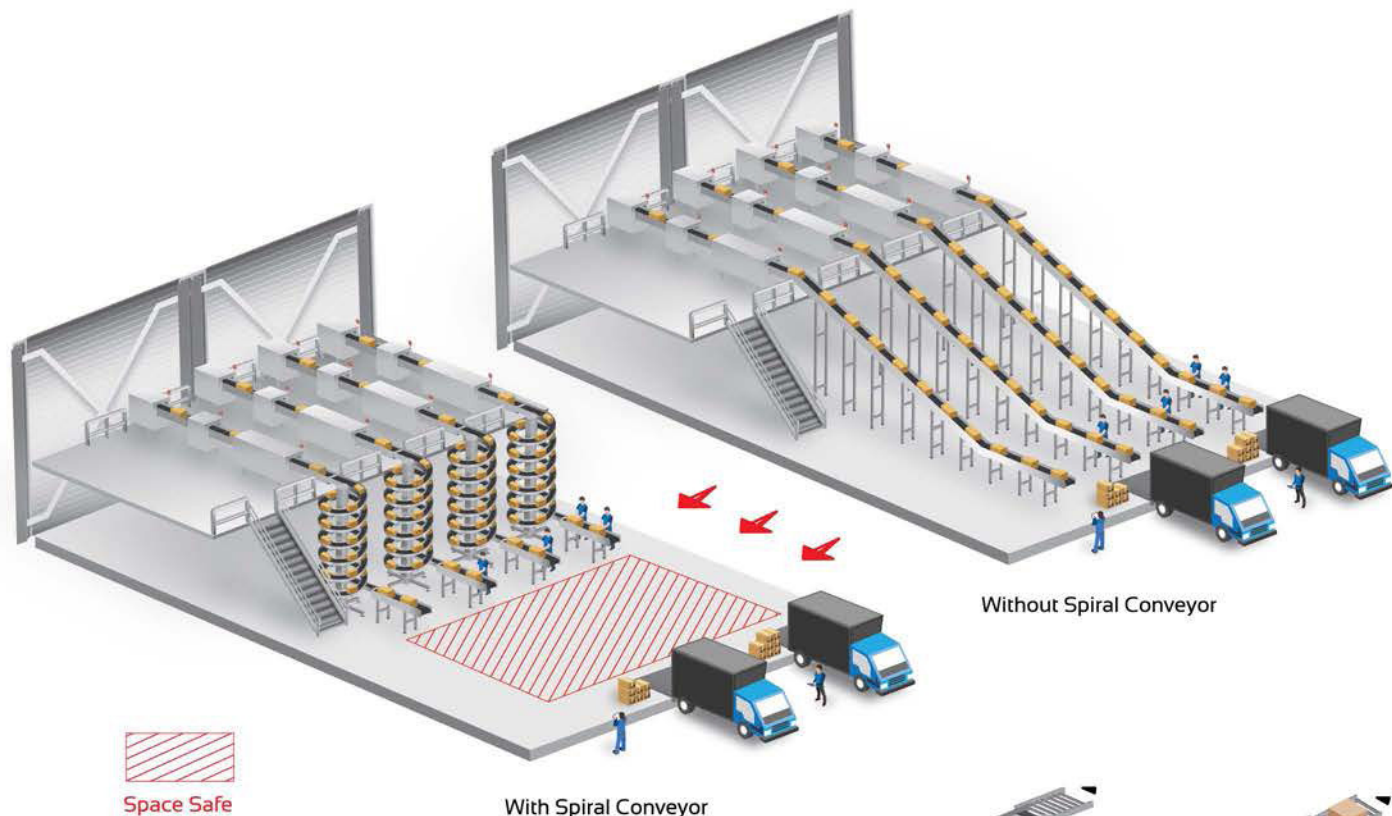
Aluminium center column  
Stainless steel conveyor frame  
25 mm height stainless steel outer side guide (without inner side guide)

## LIMITATION

Allowable height of 10 meters  
Allowable layers of 10  
Allowable conveyor length of 60 meters

Allowable range depends on product size, weight, capacity and conveyor speed





**MODU Spiral Conveyors** has a very small footprint which enables you to save more space compared to conventional incline conveyors. All illustrated in the comparison above, **MODU Conveying Solutions** clearly utilizes space more effectively. Spirals allows for expansion within an existing facility or reduce the size of a new building.



**Spiral Conveyor**  
Space Saving  
Accumulation  
Energy Savings



**Incline conveyors**  
Space Wasting  
Dispersion  
Energy Consuming



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