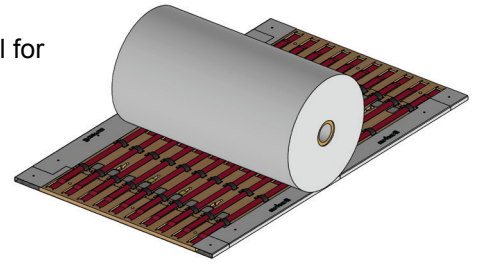# MoveRoll® Centralizing Module

MoveRoll Centralizing Module horizontally transports paper rolls without moving parts and allows an accurate positioning of the roll for the labelling, measuring or during the elevator transportation.The product itself is silent and safe, has a short cycle time and high capacity.The conveyor is modular and can be assembled directly onto plain floor without need for supporting structures or foundation.The modular design allows easy modifications and makes the installation and start up process quick and easy.

Conveying / Centralizing method

Rolling and centralizing is generated by flexible pressure elements which are actuated by compressed air (Patented method)

Module key data

Length: 3350 - 18000 mm
Width: 1380 - 2340 mm
Height: 40 mm
(Other dimensions upon request)

Energy Requirements

Compressed air 3.5 - 10 bar
Control voltage 24VDC (110VAC optional)

Transfer time

2 meter transfer time max 6 sec
4 meter transfer time max 10 sec
8 meter transfer time max 18 sec
12 meter transfer time max 26 sec

Buffering and positioning

One buffering place in each module
Positioning accuracy +/- 20 mm

Safety

Less than 4 bar compressed air
No moving parts
Low voltage (24VDC)

Controls

6 outputs per module
Output: 18-30VDC, max 5W / output
3 inputs per module
Inputs: 18-30VDC, PNP or NPN

Applications

Paper roll horizontal transferring and centralizing
Typical applications: lifts, scales, labelling etc.

Roll key data

Width: 450 - 5000 mm
Weight 300 - 6000 kg
Dia: 500 - 2500 mm
(Other parameters upon request)

Environment

Air humidity 30 - 100%
Temperature +10 - +50 C

Capacity

360 rolls / hour
Note:
Feeding/receiving devices typically reduce capacity
(due to longer cycle time than MoveRoll conveyor)

Modularity

Conveyor consists of prefabricated modules
Layout design is easy and quick
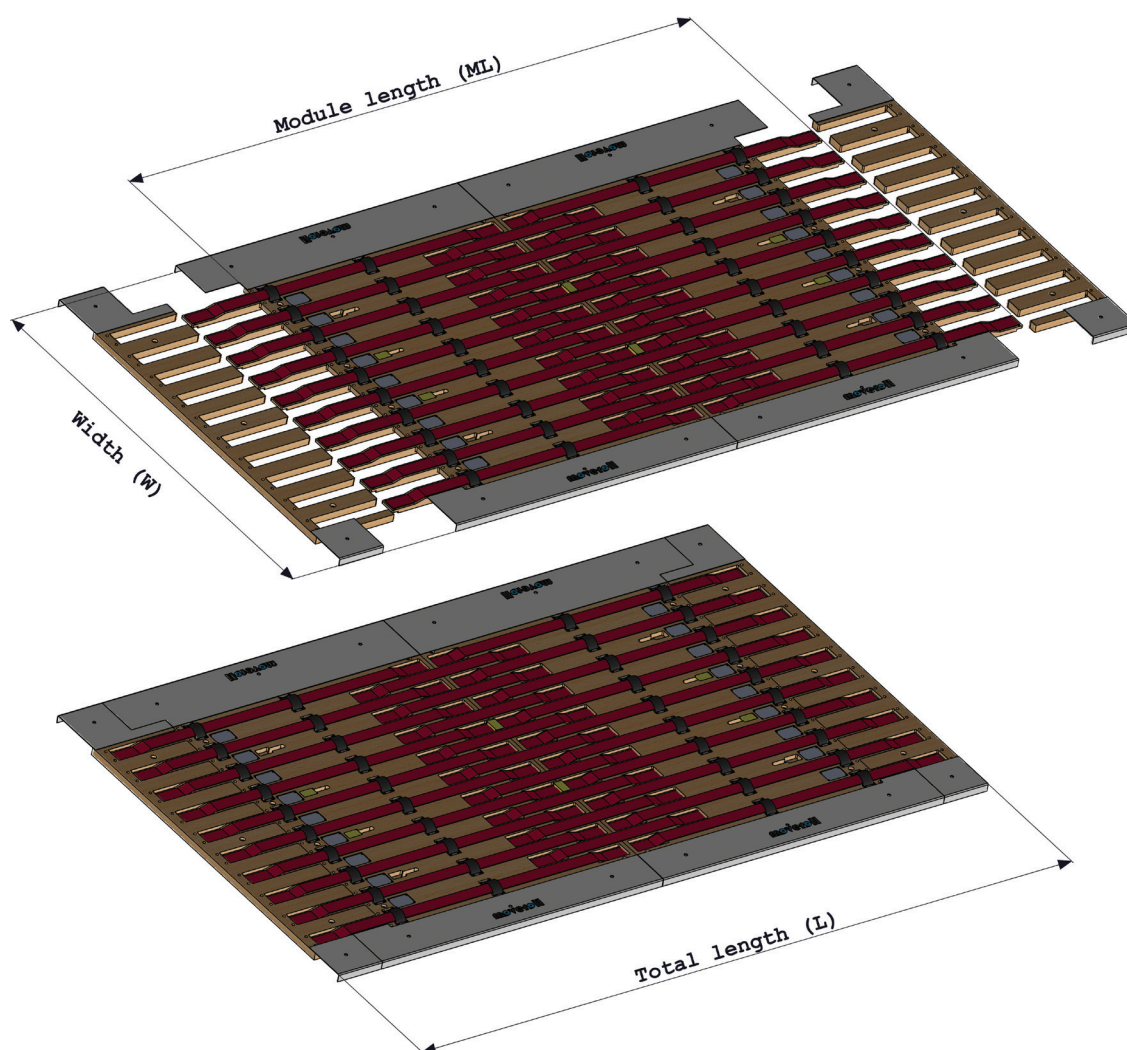Modifications are easy even after the installation

Maintenance

All maintenance can be done with basic hand tools
No special skills needed for the maintenance
All components are easy to maintain and to replace

Compressed Air

Supply pressure 3.5 - 10 bar
Air consumption 135Nl per 3m transfer
Air quality: ISO 8573.1 class 3.3.2

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Dimensions and key data

Module ID	Total length (L) mm	Module length (ML) mm	Total width (w) mm	Min. Roll weight (kg)	Max. Roll weight (kg)	Min. Roll width (mm)	Max. Roll width (mm)
HC6 - 2900	3350	2900	1380	300	3000	450	2000
HC6 - 3350	3800	3350	1380	300	3000	450	2000
HC8 - 2900	3350	2900	1700	300	4000	450	2300
HC8 - 3350	3800	3350	1700	300	4000	450	2300
HC10 - 2900	3350	2900	2020	300	5000	450	2600
HC10 - 3350	3800	3350	2020	300	5000	450	2600
HC12 - 2900	3350	2900	2340	300	6000	450	3000
HC12 - 3350	3800	3350	2340	300	6000	450	3000

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Sample System

The system below is an example of one MoveRoll Centralizing Module installed after two MoveRoll Horizontal Modules. The system which transports paper rolls in the distance of 6 meters horizontally and stops the rolls onto the measurement/labelling system via MoveRoll centralizing module

System Specifications

Assembled: 1xHC10-2900 + 2xH10-2900
Total length: 9150 mm
Total width: 2020 mm
Module height: 40 mm
Buffering places: 3

Conveyor´s roll capacity

Roll min. weight: 300 kg
Roll max. weight : 5000 kg
Roll min. width: 450   mm
Roll max. width: 2600 mm
Max. roll capacity: 360 rolls / hour
Movement time between three modules : 14 sec.

H10- Horizontal module

Measurement/labeling system

H10 - Centralizing module

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