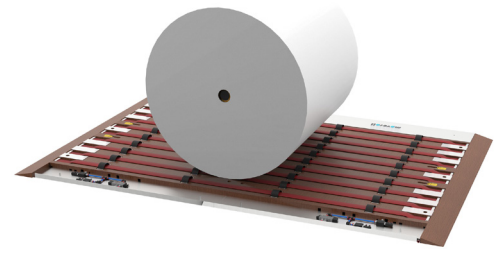


# MoveRoll® Horizontal Conveyor

MoveRoll Horizontal Conveyor provides an efficient solution for transporting paper rolls. This flat (40 mm) and modular conveyor system is designed for quick and easy assembly. Available in various lengths, the modules can be configured as Single Modules or Combined Modules with two or more buffer places to meet project requirements.



The conveyor uses standard pressure elements to move rolls gently and safely. These elements control the motion and speed of the rolls throughout the transport process. With no mechanical parts, the conveyor system requires minimal maintenance. The conveying process does not need receivers, and kickers are only necessary for loading rolls onto the conveyor, not for controlling roll speed.

## Conveying method

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

## Module key data

Length: 2900 - 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 +/- 200 mm  
 Optional positioning feature: accuracy +/- 25mm

## Safety

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

## Controls

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

## Applications

Paper roll horizontal transferring  
 Ramp uphill / downhill is allowed (10mm/m incline  
 - 30 mm/m decline)

*(For ramp applications check MoveRoll Ramp Conveyor)*

## 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

## Capacity

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

## Modularity

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

## Maintenance

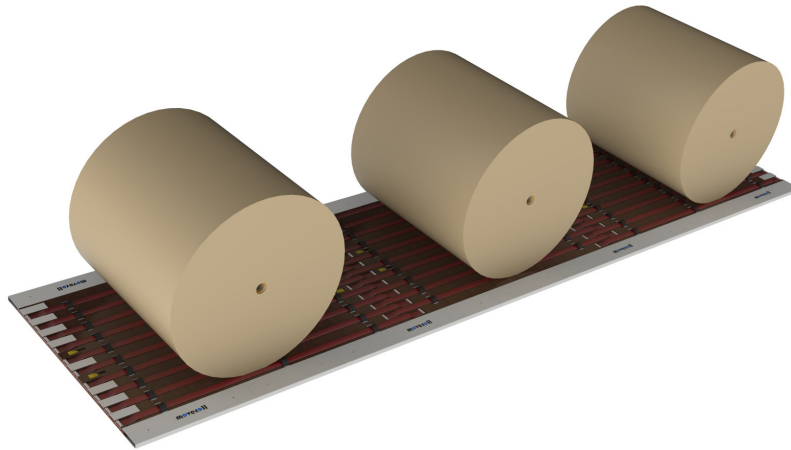
All maintenance can be done with basic hand tools  
 No special skills needed for the maintenance  
 All components are easy to maintain and to replace

## Compressed Air

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

## Sample System

The system below is an example of three MoveRoll modules installed together to create a horizontal conveying system HX10-3-7700 with total length of 7.7 meters and 3 roll storage possibility.



### System Specifications

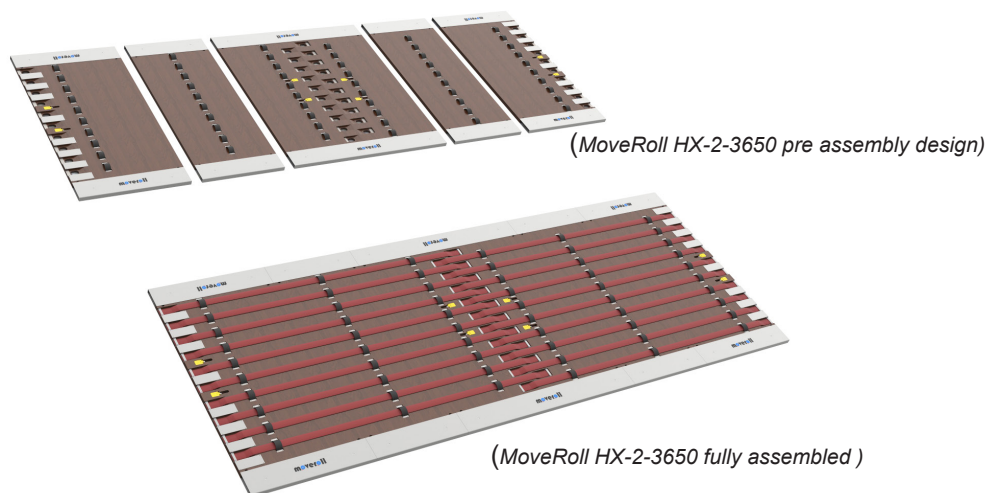
Assembled: 3 modules  
Total length: 9800 mm  
Total width: 2025 mm  
Module height: 40 mm  
Buffering places: 3

### Conveyor's roll capacity

Roll min. weight: 300 kg  
Roll max. weight : 5000 kg  
Roll min. width: 450 mm  
Roll max. width: 2400 mm  
Max. roll capacity: 360 rolls / hour  
Movement time between three modules : 15 sec

## New upgraded modular system

MoveRoll has further developed and upgraded its horizontal conveying system. The new patented modular system now includes Filler Plates to achieve the desired conveyor length according to customer specifications. This innovation simplifies the design process for MoveRoll and makes installation easier and faster for the customer.



For application where paper roll is transported in short distances up to 4 meters, MoveRoll Single Module (HS) can be used. The single module can buffer one roll at a time.

The tables below show the dimensions and key data of our standard modules.

### Dimensions and key data HX - Modular Coneyor

Module ID	Total width (w) mm	Min - Length (w) mm	Min. Roll weight (kg)	Max. Roll weight (kg)	Min. Roll width (mm)	Max. Roll width (mm)
HX - 8	1705	3650	300	4000	450	2100
HX - 10	2025	3650	300	5000	450	2400
HX - 12	2345	3650	300	6000	450	2700
HX - 14	2665	3650	300	7000	450	3100

(There is no limitation for max roll width. For larger rolls please refer to MoveRoll Winder Deck solution or contact us)

### Dimensions and key data HS - Single Module conveyer

Module ID	Total width (w) mm	Min - Max Length (w) mm	Min. Roll weight (kg)	Max. Roll weight (kg)	Min. Roll width (mm)	Max. Roll width (mm)
HS - 8	1705	2000 - 4000	300	4000	450	2100
HS- 10	2025	2000 - 4000	300	5000	450	2400
HS- 12	2345	2000 - 4000	300	6000	450	2700
HS - 14	2665	2000 - 4000	300	7000	450	3100

(There is no limitation for max roll width. Shorter modules are possible by request)