

# rollers



KEEP ON ROLLING





SOMEFI is a company dedicated to the manufacture and sale of conveyors and modular handling equipment.

For more than 40 years SOMEFI has offered a complete range of industrial conveyors, of flexible design and able to suit your application.

Automate your installations and benefit from:

- Better use of your production lines or your order preparation systems
- Increased efficiency and ergonomic use your workstations
- Better conditions for employees for avoidance of injury

You will find in this catalogue a presentation of our belt conveyors.

Our conveyors are highly configurable to meet the needs of your application (speed, height, guidance, color ...).

Our sales team is at your disposal to give you all the necessary information to meet all your expectations. We will help you to select the most cost effective and technically suitable conveyor to meet the needs of your project.

SOMEFI, keep on rolling...

**SO.ME.FI.**

1971

**somefi**  
FABRICATIONS

1981

**Somefi**  
FABRICATIONS

1992

**somefi**  
LES DÉPÔTS TRANSPORTÉS

2012

# Index

4 Purchase guide

6 7 8 Free roller conveyor

9 10 11 Motorized roller conveyor

12 INOX free roller conveyor

13 14 15 Accessories & options



# PURCHASE GUIDE

## Products carried

Type :

- Cardboard boxes
- Plastic boxes
- Steel boxes
- Wooden crate
- Keg
- Plastic pieces
- Steel pieces
- Other: .....

Contact :

- Flat bottom
- Petaloid bottom
- sharp edged cutting
- Greasy
- Hot: ..... °C
- Foodstuff
- Other: .....
- Environment: .....

## Size and weight of carried products

	Length	Width	Height	Weight
Mini				
Max				
The most frequent				

For information

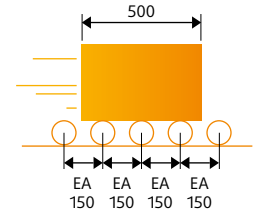
The roller width will be 100 mm wider than the carried products.

## advice

Functions with gravity and needs a 5 to 6% slope (adjust the legs).

Distance between rollers:

To know the roller center distance, knowing that it needs 3 rollers under the load: package loaded length  $\times 1/3$   
 Hear the center distance:  
 $500mm \times (1/3) = 150mm$



## The conveying

Travel direction of the loads

- Lengthwise (short face leading)
- Widthwise (long face leading)

Items placed on the conveyer

- Automatically by a machine
- Manually
- Automatically by a robot
- Other: .....

Rate ..... loads/hour.

Accumulation area:  YES  NO

Number of items per meter: .....

## Motorized conveyors

Starting loaded:  YES  NO

If yes, Total weight (in kilograms) on the machine when starting: . . . . .

Transport speed in m/min:

5  10  15  20  Other: . . . . .

Motor characteristic:

- Single phase 220V  IP. . .  Explosion proof  
 Tropicalised  Specific brand: . . . . .  
 Other: . . . . .

Operating duration: . . . . . hours per day and . . . . . days per week

## Options & accessories

Support legs:  YES  NO

If Yes, height needed (way in/way out): . . . . .

Wheels:  YES  NO

Bilateral guides:  YES  NO

If yes, type of guide:  Adjustable  Fixed

Topcoat:

- Epoxy painted steel, RAL 5017 (standard)  Stainless steel  
 Zinc-plated steel (standard)  Epoxy painted steel, RAL : . . . . .

## Electric accessories

- "On/Off" electrical cabinet to be fixed on the machine, with an emergency stop button.
- "Forward/reverse/stop" electric cabinet (conditionally) to be fixed on the machine, with an emergency stop button.
- Speed control unit for the motor:  
Speed range: mini . . . . . m/mn maxi. . . . . m/mn  
Most frequently used speed: . . . . . m/mn

TO SEND US BACK THIS GUIDE

T +33 (0)4 42 60 68 28  
F +33 (0)4 42 24 96 25

mjmonnier@somefi.com

[www.somefi.com](http://www.somefi.com)





# THE KIT

The KIT is a gravitational roller conveyor, in plastic or steel, designed to transport and accumulate every product with flat-bottom or rigid containers (cases, baskets, trays...) weighing up to 120 kg/m.

Delivered in a kit, it is easy and simple for assembling (on average 15 minutes).

Do not forget your accessories: support legs adjustable from 750 to 900mm, bilateral fixed guide height: 35mm, fixed stop, height: 35mm to be assembled at the end of the conveyor.



## PLASTIC OR STEEL ROLLER CONVEYOR FOR LOADS UP TO 120 KG/M

### 24 H DISPATCH

#### Technical characteristics

- Frame: medium duty steel frame of 2mm with curved iron, height (H) 90mm, steel spacer.
- Topcoat galvanized.
- Rollers: Ø50 plastic (RLP model)  
Ø50 zinc plated steel (RLA model),  
smooth spring axle Ø8, handling conveyors bearing.

#### Standard sizes

Roller	250	350	450	550
Pitch	60 - 150			
Length	1000 - 1500 - 2000			

#### Limited loads

Pitch 60	<b>RLP</b>	90 kg/m	<b>RLA</b>	120 kg/m
Pitch 150	<b>RLP</b>	40 kg/m	<b>RLA</b>	80 kg/m

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST



# MICRO TRS

## PLASTIC OR STEEL ROLLER CONVEYOR FOR LOADS UP TO 30 KG/M

The MicroTRS is a gravitational and accumulator conveyor of any small, rigid and flat-bottomed objects for loads up to 30 kg/m.

Easy maintenance: drop-in replacement (spring shaft).



Curved version: differential effect achieved using two rows of cylindrical rollers.  
3 support legs for 90°.

### DELIVERY TIME 10 DAYS

#### Technical characteristics

- Frame: L-Shaped medium duty steel frame of 2mm with steel spacers.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Rollers: Ø20 plastic (RLP model)  
Ø20 zinc plated steel (RLA model),  
smooth spring axle Ø6, handling conveyors bearing.

#### Standard sizes

Roller	100	150	200	250	300	400
Pitch	24 - 32 - 40					
Length	1000 - 1500 - 2000					
Curve	Medium Radius 750 mm / 30° - 60° - 90°					

#### Limited load

Width 100 à 250	30 kg/m
Width 300 à 400	25 kg/m

Accessories page 13 - 14

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST

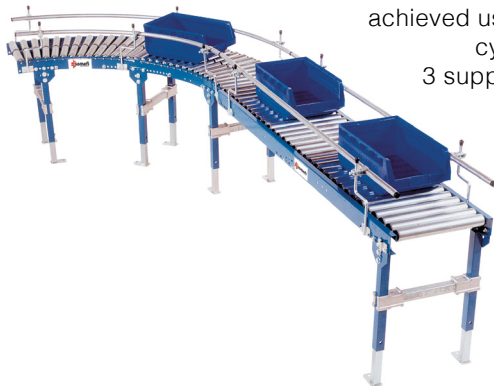


## PLASTIC OR STEEL ROLLER CONVEYOR FOR LOADS UP TO 160 KG/M

The TRS is a gravity roller conveyor, diameter Ø50 or Ø60 in plastic or steel designed to transport and accumulate every product with a flat-bottom or rigid containers (cases, baskets, trays...) weighing up to 160 kg/m.

It is a robust and low noise conveyor.

Easy maintenance: drop-in replacement (spring shaft).



Curved version: differential effect achieved using two rows of cylindrical rollers.  
3 support legs for 90°.

### DELIVERY TIME 8 DAYS

#### Technical characteristics

- Frame: C-Shaped medium duty steel frame of 2mm with steel spacers.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Rollers: Ø50 plastic (RLP model) or Ø50 zinc plated steel (RLA model), smooth spring axle Ø10, handling conveyors bearing. Ø60 galvanized steel (RLA model), smooth spring axle Ø12.

#### Standard sizes & limited loads

Roller	300	400	500	600	700	800
Roller model	RLP or RLA Ø50				RLA Ø60	
Length	1000 - 1500 - 2000 - 2500					
Curve	30° - 60° - 90°					
Medium radius	1200 mm				1500 mm	

Pitch	62,5	75	100	150	200
RLP Ø50	80 kg/m	70 kg/m	60 kg/m	50 kg/m	40 kg/m
RLA Ø50	120 kg/m				
RLA Ø60	160 kg/m				

Accessories page 13 - 14

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST



The RCAS is a roller conveyor driven by powered rollers, for loads of up to 40 kg/m.

The rollers are belt-driven.

This conveyor allows hands-free collection and transport and will integrate into full goods handling circuits.



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2,5mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Rollers:
  - Straight format: Ø50 zinc plated steel, spring shaft,
  - Curved format: Plastic conical Ø50 int, Ø72 to Ø93 ext.
- Motorized roller: Ø50 Brushless 24 V DC (IP 54).
- Speed variable via potentiometer on the control box: 0,26 to 1,36 m/s (define the adjustment).
- Curved version: 1 motorized roller every 45° and 3 support legs for 90°.

#### Standard sizes

Roller	400	500	600	700	800
Width frame	500	600	700	800	900
Pitch	60 - 90 - 120 - 150 - 180 - 210				
Zone length	From 300 to 1000				

Accessories page 13 - 15

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST

The RCLA is a low intensity transporter/accumulator using powered steel rollers allowing the transport of flat-bottomed or rigid loads up to 40 kg/m.

Load security: at the least resistance, the rollers immobilize.

This technology realizes full circuits (straight format, curved format, transfer) and reduces the number of motorization.



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2,5mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Rollers:
  - Straight format: Ø50 zinc plated steel, spring shaft.
  - Curved format: Plastic conical Ø50 int, Ø72 to Ø93 ext.
- Gear motor located below the conveyor, 240/400 V TRI, (IP55)
- Fixed speed: 10, 20 or 30m/mn.

#### Standard sizes

Roller	400	500	600	700	800
Width frame	500	600	700	800	900
Pitch	75 - 100 - 150				
Minimum length	600 without power unit 1000 power unit (pitch 100) 1050 power unit (pitch 75 & 150)				
Length of the intermediate modules	Per meter (multiple of the pitch) Lengths > 2400, obtained by bolting several modules				

Accessories page 13 - 15

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST



## CHAIN-DRIVEN ROLLER CONVEYOR FOR LOADS UP TO 80KG/M

The RCC is a chain-driven roller conveyor allowing the transport of flat-bottomed loads, weighing up to 80 kg/m.

It is in a circuit or independently and is designed for intensive work and is suited to transporting boxes and trays continuously.

The rollers are fitted with chain-driven cog-wheels.



### DELIVERY TIME 20 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2,5mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Rollers:
  - Straight format: Ø60 zinc plated steel, Ø15 shaft with a 13 tooth double pinion for chainlink length of 12,7 mm.
  - Curved format: Ø42 interior, conical (same characteristics).
- Gear motor located below the conveyor, 240/400 V TRI, (IP55)
- Fixed speed: 5, 10, 15 or 20m/mn.

#### Standard sizes

Roller	300	400	500	600	700
Width frame	410	510	610	710	810
Pitch	70 - 100 - 120				
Length	1000 - 1500 - 2000 - 3000 - 3500 - 4000 + (Length 1 m)				
Curve 90°; medium radius	850	1100	1400	1700	2000

Accessories page 13 - 15

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST



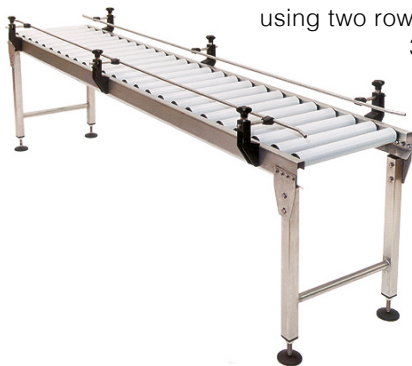
## STAINLESS STEEL CONVEYOR WITH PLASTIC ROLLERS FOR LOADS **UP TO 70 KG/M**

The TRINOX is a stainless steel conveyor with plastic rollers, allowing the transport and collection of all flat-bottomed or slatted objects, weighing up to 70 kg/m.

This product is ideal when antibacterial or jet washing is an industry requirement: food processing, laboratories, chemistry, pharmaceutical industry...

It is a robust and low noise conveyor.  
Easy maintenance: drop-in replacement (spring shaft).

Curved version: differential effect achieved using two rows of cylindrical rollers.  
3 support legs for 90°.



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame:
  - Straight format: medium duty 304L stainless steel frame of 2mm, angle open to 135°, anti-retention.
  - Curved format: medium duty 304L stainless steel frame of 3mm, bended .
- Rollers: Ø30 (TRINOX 30) or Ø50 (TRINOX 50), plastic, smooth stainless steel axle.

#### Standard sizes

Roller	300	400	500	600
Pitch TRINOX 30	35 - 50 - 75 - 100 - 125			
Pitch TRINOX 50	62,5 - 75 - 100 - 125			
Length	1000 - 1500 - 2000 - 2500			

#### Limited loads

Pitch	35	50	62,5	75	100	125
TRINOX 30	50 kg/m	40 kg/m		30 kg/m	25 kg/m	25 kg/m
TRINOX 50			70 kg/m	60 kg/m	50 kg/m	50 kg/m

Accessories page 13 - 14

PLEASE, CONTACT US FOR ANY SPECIFIC REQUEST



# ACCESSORIES SUPPORT LEGS

## Type PS1

- Steel support legs, zinc plated (or epoxy painted in option), for conveyor w/useful width  $\leq 150$ mm,
- To be fixed to the floor,
- Adaptable to Micro TRS conveyors.



## Type PS2

- Steel support legs, zinc plated (or epoxy painted in option), for conveyor w/useful width  $>150$  and  $<800$ mm,
- Height  $\leq 1500$ ,
- To be fixed to the floor,
- Adaptable to all our range of conveyors.



## Type PS3

- Welded steel support legs, zinc plated (epoxy painted or stainless steel in option), for conveyor w/useful width  $>150$  and  $<800$ mm,
- Height  $\leq 1500$ ,
- To be fixed to the floor,
- Adaptable to all our range of conveyors.



## Type PS4

- Steel support legs, zinc plated (or epoxy painted in option), for conveyor w/useful width  $>700$ ,
- Height  $> 1500$ ,
- To be fixed to the floor,
- Adaptable to all our range of conveyors.



## Option R\*

- Pivoting and lockable  $\varnothing 100$  casters for conveyor w/useful width  $> 150$ mm,
- Adaptable to all our range of conveyors.



THE SUPPORT LEGS HEIGHT IS ADJUSTABLE.

(\* ) WARNING: THE MOVEMENT OF THE CONVEYOR HAS TO BE DONE WHEN IT IS EMPTY.



# STOPS & GUIDES ACCESSORIES

## STOPS

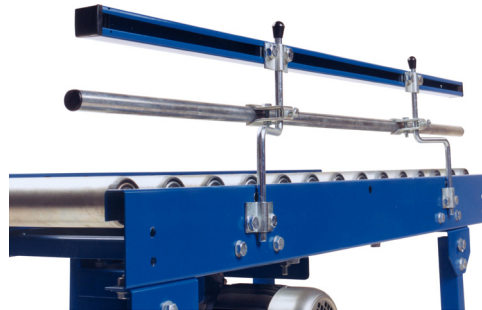
- The fixed or retractable stops prevent goods moving past the end of conveyors.
- Adaptable to all free roller conveyors.



## LES GUIDES

Ø25 galvanized steel tube  
& square guide 35mm, epoxy painted steel

- Height and width-adjustable  $\pm 100$  mm.
- Available for both straight and curved conveyors (tube Ø25).
- Sold by linear meter of conveyor.
- Adaptable to all our conveyors except for the Micro TRS and the stainless steel range.



Guide Ø 12 stainless steel tube

- Fixed height  $h=64$ .
- Width adjustable  $\pm 30$  mm.
- Available for both straight and curved conveyors.
- Sold by linear meter of conveyor.
- Adaptable on our conveyors Micro TRS and on our stainless steel range.



Guides made of polyethylene

- Fixed height  $h=64$ .
- Width-adjustable  $\pm 70$  mm.





# ELECTRICAL ACCESSORIES

## Control box C1/C2

Box “C1” is designed to control one motor in only one direction.

Box “C2” is designed to control one motor, forward and reverse.

### Technical characteristics

- Protection: IP 65/7,
- Push button (Start/Stop),
- Lockable emergency stop.

## Electrical cabinet A1

Electrical cabinet “A1” is designed to control one or several motors with all peripherals devices required (emergency stops, photocells, solenoid valves ...).

### Electrical specification

- Dependant on the operating parameters of your installation.

## Variable speed drive V1

Speed variation available by frequency inverter.

### Speed ranges

- Factory preset: 3 to 8 m/min, 5 to 15 m/min, 10 to 20 m/min or 15 to 30 m/min.

### Supply voltage

- The frequency inverter is suitable for 240 V, 50/60 Hz single phase,
- The motor is powered by 240 volts 3 phases from the frequency inverter (delta-connection in the terminal box)

*EACH UNIT IS SUPPLIED WITH ITS SUPPORT AND PREWIRED*

# CONVEYORS & HANDLING SYSTEM



a complete range for handling



belts



rollers



the pallet range



ergonomics



ZI AVON  
420 AVE DES CHASSÉENS  
13120 GARDANNE

T +33 (0)4 42 60 68 20  
F +33 (0)4 42 24 96 25

[www.somefi.com](http://www.somefi.com)