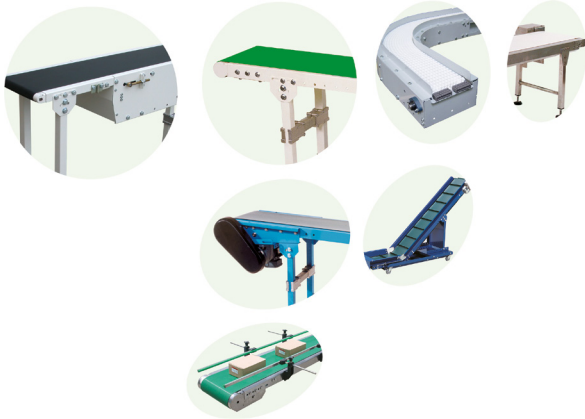


# belts



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



1981



1992



2012

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# PURCHASE GUIDE

## Products carried

Type:

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

Contact:

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

## Size and weight of carried products

	Length	Width	Height	Weight
Mini				
Max				
The most frequent				

For information

The belt width will be 100 mm wider than the carried product.

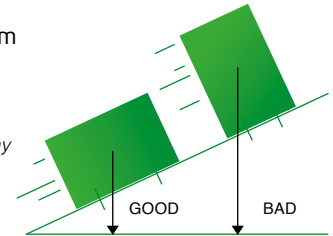
## advice

The mentioned maximum loads (in kilograms) apply if uniformly distributed.

### Determining the maximum slope for a belt conveyor:

The centre of gravity must come through the 2nd third of the conveyed item base, to avoid any risk of tipping over.

\* The drawing is for similar loads.



## The conveying

Travel direction of the loads

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

Items placed on the conveyor

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

Rate ..... loads/hour.

Accumulation area:  YES  NO

Number of items per meter: .....

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

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## BELT CONVEYOR FOR LOADS UP TO 10 KG/M

The SMI is a belt conveyor to transport small loads weighing up to 10 kg/m.

It is designed for the infeed or outfeed of machines, as well as the supply of workstations.

In its “center drive” version, it can be used in a system, with variable widths and lengths. The transfer of loads from one conveyor to the other is achieved due to the small diameter of the tail pulley.

**Chain transmission:** a chain is put around the drive pulley sprocket and the motor sprocket.



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: endless vulcanized with green PVC smooth surface.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI (IP55).
  - Drive pulley Ø66mm, crowned and fully lagged.
  - Tail pulley Ø40mm, crowned.
- Fixed speed: 5, 10, 15 or 20 m/mn.

#### Standard sizes

Belt width	80	120	150	200	250	300	400	500
Frame width	150	190	220	270	320	370	470	570
Length (mm)	1000 - 1500 - 2000 - 2500 - 3000 - 4000							

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## BELT CONVEYOR FOR LOADS UP TO 15 KG/M

The TMI is a belt conveyor to transport loads weighing up to 15 kg/m.

It is designed for the infeed or outfeed of machines, as well as other different type of handling situations as packing and inspection.

Easy maintenance, shaft **mounted end drive**.



### DELIVERY TIME 10 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: endless vulcanized with green PVC smooth surface.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI (IP55).
  - Drive pulley Ø66mm, crowned and fully lagged.
  - Tail pulley Ø40mm, crowned.
- Fixed speed: 5, 10, 15 or 20 m/mn.

#### Standard sizes

Belt width	100	150	200	300	400	500	600
Frame width	140	190	240	340	440	540	640
Length (mm)	1000 - 1500 - 2000 - 2500 - 3000 - 4000 - 5000						

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## BELT CONVEYOR FOR LOADS UP TO 30 KG/M

The NBI is a belt conveyor to transport loads weighing up to 30 kg/m.

It is designed for the infeed or outfeed of machines, **as well as the supply of workstation and assembly line operations.**

The NBI is available extra wide. In its “center drive” version it can be used in a system. Easy maintenance, shaft **mounted end drive.**



### DELIVERY TIME 10 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL or stainless steel are optional).
- Belt: endless vulcanized with green PVC smooth surface.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI (IP55).
  - Drive pulley Ø95mm, crowned and fully lagged.
  - Tail pulley Ø60mm, crowned.
- Fixed speed: 5, 10, 15, 20 or 30 m/mn.

#### Standard sizes

Belt width	300	400	500	600	700	800	900
Frame width	340	440	540	640	740	840	940
Length	1 TO 10 M						

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# ERGO 30

The ERGO 30 is a belt conveyor to transport loads weighing up to 30 kg/m.

Small lateral dimensions thanks to the use of a **motor drum drive**.

It can be fitted on a printing or weighing machine and is perfectly adapted to short “machine to machine” transfers.



## BELT CONVEYOR FOR LOADS UP TO 30 KG/M

**DELIVERY TIME 15 DAYS**

### Technical characteristics

- Frame: medium duty steel frame of 2mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: endless vulcanized with green PVC smooth surface.
- Drive type:
  - Drum motor Ø113mm rubberized fitted at the top end of the conveyor without any overhangs, 240/400 V TRI (IP66)
  - Tail pulley Ø89mm, crowned.
- Fixed speed: 5\*, 10, or 20 m/mn.  
 (\*The ERGO 30 with a width 300 does not exist for a speed of 5m/mn)

### Standard sizes

Belt width	300	400	500	600	700
Frame width	380	500	600	700	800
Length	1 TO 6 M, PITCH 0,5 M				

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## BELT CONVEYOR FOR LOADS UP TO 50 KG/M

The MIB is a robust belt conveyor to transport bulky loads weighing up to 50 kg/m.

It is suitable to operate 24 hours a day, 7 days a week, ideally used for long assembly line operations, inspections, testing, sorting, and packing. Conveyor can be floor supported or ceiling hung.

It can be used in a system in its “center drive” version.  
**Chain transmission: a chain is put around the drive pulley sprocket and the motor sprocket.**



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: endless vulcanized with green PVC smooth surface.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI (IP55).
  - Drive pulley Ø139mm, crowned and fully lagged.
  - Tail pulley Ø89mm, crowned.
- Fixed speed: 5, 10, 15, or 20 m/min.

#### Standard sizes

Belt width	250	300	400	500	600	700
Frame width	330	380	500	600	700	800
Length	1 TO 20 M					

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The DKMIB is a very robust belt conveyor to transport heavy loads weighing up to 80 kg/m.

It is designed for the transport of loads on long distances at high capacities.

**Chain transmission:** a chain is put around the drive pulley sprocket and the motor sprocket (a shaft mounted end drive version is also available)



### 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).
- Belt: endless vulcanized with green PVC smooth surface.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI (IP55).
  - Drive pulley Ø139mm, crowned and fully lagged.
  - Tail pulley Ø89mm, crowned.
- Fixed speed: 5, 10, 15 or 20 m/mn.

#### Standard sizes

Belt width	300	400	500	600	700	800	900	1000
Frame width	400	500	600	700	800	900	1000	1100
Length	1,5 TO 25 M							

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## BELT CONVEYOR C/W FLIGHTS WITH ADJUSTABLE ANGLE UP TO 20 KG ON THE CONVEYOR

The conveyor belt TMI-IC has flights, which allows for small parts (metal, plastic, cardboard...) to be elevated from one level to another.

Inclination of the belt conveyor is adjustable; the maximum weight on the conveyor is 20 kg.

Easy maintenance, shaft **mounted end drive**.



### DELIVERY TIME 10 DAYS

#### Technical characteristics

- Frame: medium duty steel frame of 2 mm with pivoting and lockable casters.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: endless vulcanized PVC with pushers, height=25, pitch 250mm.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI 0,18kW (IP55).
  - Drive pulley Ø66mm, crowned and fully lagged.
  - Tail pulley Ø60mm, crowned.
- Fixed speed: 10 or 15 m/min.

#### Standard sizes

Belt width	300	400
Useful width	240	340
Titling length	1 200 OR 1 800	
Horizontal length	630 mm	

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# MIB ELEVATOR

ELEVATOR BELT CONVEYOR FOR  
LOADS UP TO 50 KG/M

The MIB Elevator is a robust elevating belt conveyor to transport loads weighing up to 50 kg/m.

The MIB Elevator is a floor-to-floor incline conveyor (adjustable up to 30°). It is equipped with a power **feeder** driven from main conveyor and a **nose-over** at the discharge end to insure a smooth transfer from the incline to horizontal plane.

**Chain transmission:** a chain is put around the drive pulley sprocket and the motor sprocket.



## DELIVERY TIME 15 DAYS

### Technical characteristics

- Frame: medium duty steel frame of 2 mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: PVC endless black grip top conveyor belt.
- Drive type:
  - Gear motor located below the conveyor, 240/400 V TRI (IP55).
  - Drive pulley Ø139mm, crowned and fully lagged.
  - Tail pulley Ø89mm, crowned.
- Fixed speed: 5, 10, 15, or 20 m/min.

### Standard sizes

Belt width	250	300	400	500	600	700
Frame width	330	380	500	600	700	800
Length	FROM 1,65 TO 20 M					
Length of transfer belt	MIN 620 MM					
Horizontal length part	MIN 630 MM					

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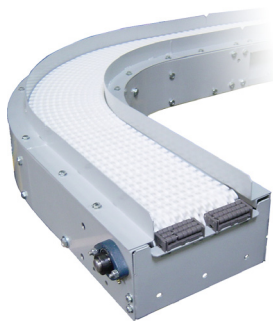
## MODULAR BELT CONVEYOR FOR LOADS UP TO 50 KG/M

The TBM is a modular belt conveyor to transport and/or accumulate a large variety of products, weighing up to 50 kg/m.

It allows straight and curved movements of the loads, without any transfer, with the same motor drive.

Easy maintenance, shaft **mounted end drive**.

This conveyor handles specific environments (chemical, hot, aggressive...)



### DELIVERY TIME 20 DAYS

#### Technical characteristics

- Frame: heavy duty steel frame of 2,5mm.
- Topcoat: electro-galvanized or RAL 5017 blue epoxy paint (other RAL is optional).
- Belt: straight format: modular belt 0,5 or 1,5 pitch ; curved format : modular belt 1 or 1,5 pitch.
- Drive type:
  - Shaft mounted gear motor, 240/400 V TRI (IP55).
  - Modular belt driven by Ø99 acetal injected sprocket mounted on a square shaft 40x40mm.
  - Tail pulley: freewheel, Ø99 acetal injected sprocket mounted on a square shaft 40x40mm.
- Fixed speed: 5, 10, 15, or 20 m/min.

#### Standard sizes

Belt width	200	300	400	500	600
Frame width	310	410	510	610	710
Length	FROM 1 TO 20 M				
Medium radius for a 1" & 1,5" curve	510	780	1 060	1 330	1 610

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## STAINLESS STEEL BELT CONVEYOR FOR LOADS UP TO 15 KG/M

The TMINOX is a stainless steel belt conveyor to transport loads weighing up to 15 kg/m.

This conveyor is particularly well suited for specific environments requiring intensive jet washing or using disinfectant detergents, such as: Food-processing industry, Laboratory, Chemicals, pharmacy ...

Easy maintenance, shaft mounted end drive.



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame: medium duty 304L stainless steel frame of 2 mm, with 135° no-retention open angles.
- Belt: endless vulcanized with white PVC smooth surface (made for food industry).
- Drive type:
  - Shaft mounted gear motor, 240/400 V TRI (IP 55).
  - Drive pulley Ø70mm thermoplastic, fitted with a stainless steel shaft.
  - Tail pulley: Ø70 made of stainless steel.
- Fixed speed: 5, 10, 15 ou 20 m/min.

#### Standard sizes

Belt width	300	400	500	600	700
Frame width	380	480	580	680	780
Lenght	1000 - 1500 - 2000 - 2500 - 3000 - 4000 - 5000				

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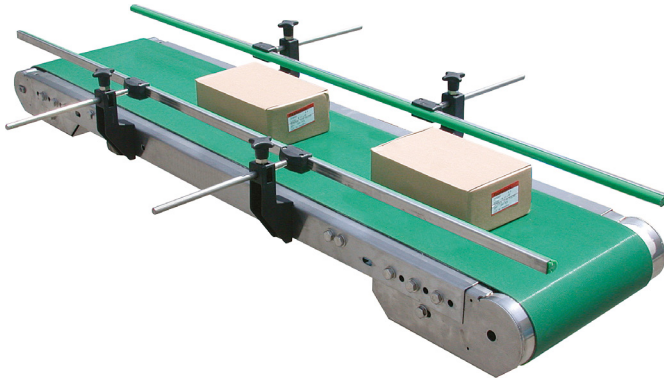
# ERGO 30 INOX

## STAINLESS STEEL BELT CONVEYOR FOR LOADS UP TO 30 KG/M

The ERGO 30 INOX is a stainless steel belt conveyor to transport loads weighing up to 30 kg/m.

This conveyor has compact overall dimensions thanks to the use of a drive motor drum.

The ERGO 30 INOX can be fitted on a printing or weighing machine and is perfectly adapted to short "machine to machine" transfers.



### DELIVERY TIME 15 DAYS

#### Technical characteristics

- Frame: medium duty 304L stainless steel frame of 2 mm.
- Belt: endless vulcanized with white PVC smooth surface.
- Drive type:
  - Motor drum fitted at the top end of the conveyor, without any overhangs, 240/400 V TRI (IP 66).
  - Tail pulley: Ø89, crowned.
- Fixed speed: 5\*, 10, or 20 m/min.

*(\*)The ERGO 30 INOX with a width 300 does not exist for a speed of 5m/min.*

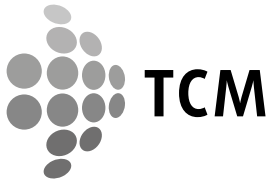
#### Standard sizes

Belt width	300	400	500	600	700
Frame width	380	500	600	700	800
Length	1 TO 6 M, PITCH 0,5 M				

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## STAINLESS STEEL PALLET CHAIN CONVEYOR FOR LOADS **UP TO 20 KG/M**

The TCM is a stainless steel pallet chain conveyor to transport and/or accumulate products such as bottles, flasks, cans, plastic or metal containers weighing up to 20 kg/m.

This conveyor is perfect for bottling, canning and pharmaceutical industries. When used to supply workstations, it allows the combination of straight and curved sections with only one drive.

Easy maintenance, shaft **mounted end drive**.



### DELIVERY TIME 20 DAYS

#### Technical characteristics

- Frame: medium duty 304L stainless steel frame of 2,5 mm.
- Belt: acetal or stainless steel.
- Drive type:
  - Shaft mounted gear motor, 240/400 V TRI (IP 55).
  - Pallet chain driven by Ø153 acetal injected sprocket mounted on a stainless steel axle.
  - Tail pulley: freewheel Ø153 acetal injected sprocket mounted on a Ø30 shaft .
- Fixed speed: 5, 10, 15 ou 20 m/min.

#### Standard sizes

Chain width	82,5	114	190	254	305
Frame width	105	135	215	275	325
Length	1000 - 1500 - 2000 - 2500 - 3000 - 3500 - 4000				
Curve average radius	500	610			

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## STAINLESS STEEL MODULAR BELT CONVEYOR FOR LOADS **UP TO 30 KG/M**

The TBMi is modular belt conveyor in stainless steel to transport and/or accumulate a large different type of products, weighing up to 50 kg/m.

This conveyor is particularly well suited for specific environments requiring intensive jet-washings using disinfectant detergents, such as: Food-processing industry, Laboratory, Chemicals, Para pharmacy ...

It allows straight and curve movements of the loads, without any transfer, with the same motor drive.

Easy maintenance, shaft mounted gear motor.



### DELIVERY TIME 20 DAYS

#### Technical characteristics

- Frame: heavy duty steel frame of 2,5mm ans 304L stainless steel spacer.
- Belt made of polypropylene, polyethane or acetal:
  - Straight format: modular belt with 0.5, 1 or 1.5 pitch.
  - Curved format: modular belt with 1 or 1,5.
- Drive type:
  - Shaft mounted gear motor, 240/400 V TRI (IP 55).
  - Modular belt driven by Ø99 acetal injected sprocket mounted on a stainless steel square axle 40x40mm.
  - Tail pulley: freewheel Ø99 acetal injected sprocket mounted on a stainless steel square axle 40x40mm .
- Fixed speed: 5, 10, 15 ou 20 m/min.

#### Standard sizes

Belt width	200	300	400	500	600
Frame width	310	410	510	610	710
Lenght	FROM 1 TO 20 M				
Medium radius for a 1" & 1,5" curve	510	780	1060	1330	1610

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# 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 narrow **TMI** and **SMI** 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.



# GUIDES ACCESSORIES

## Guide Ø25 galvanized steel tube

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

## Square guide 35mm, epoxy painted steel

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



## Guide Ø12 stainless steel tube

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



## U- Shaped side Guide

- The height and width are fixed,
- Available in 30, 50 ou 100 mm high,

## Guides made of polyethylene

- Fixed height  $h=64$  mm,
- 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.

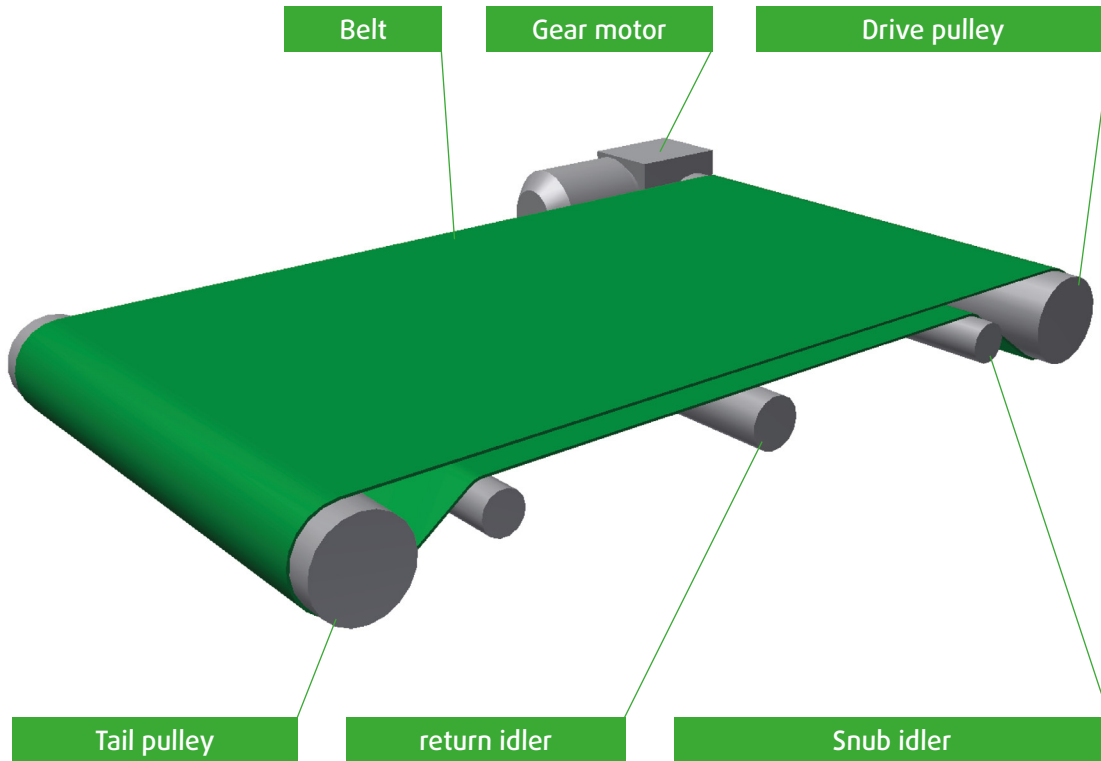
### Supply voltage

- 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*

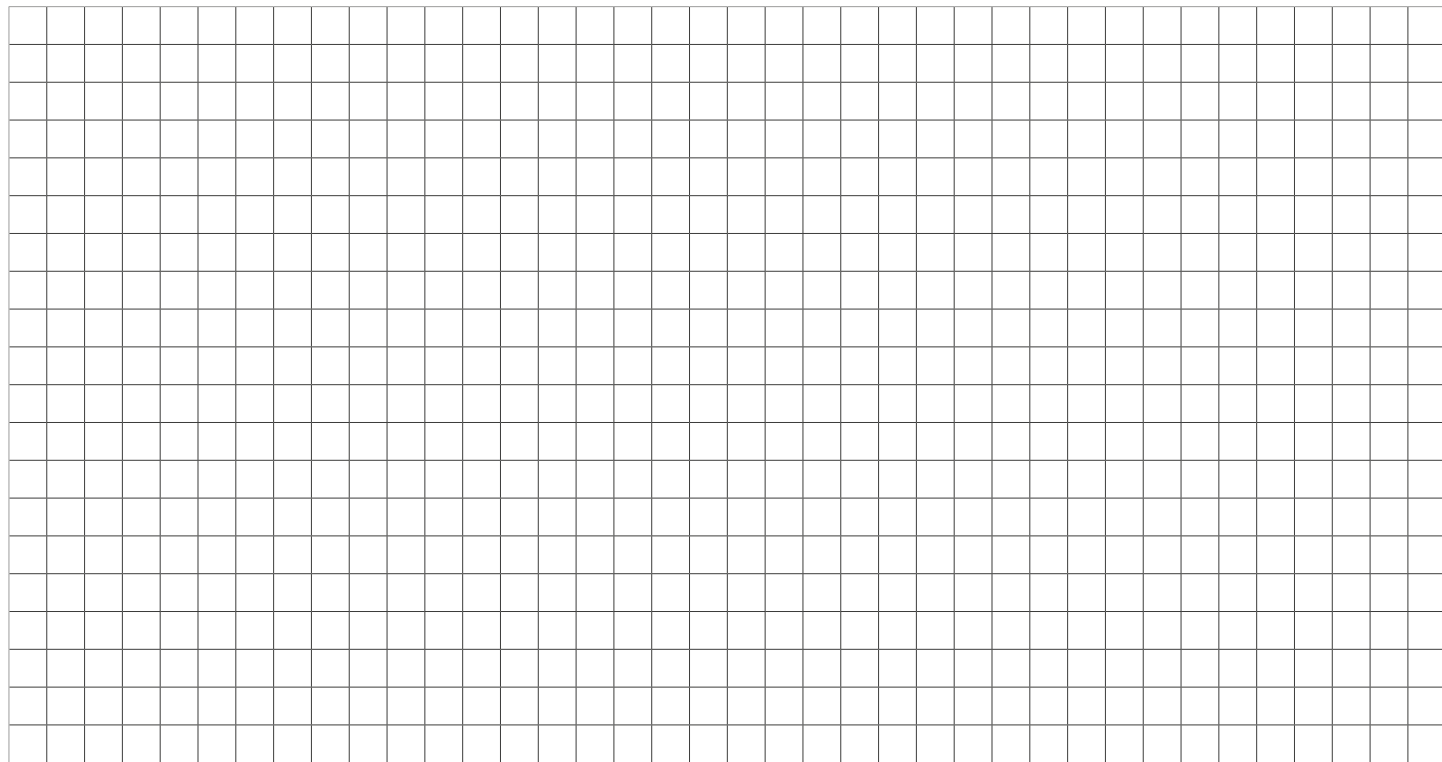


# THINK ABOUT YOUR SPARE PARTS





# NOTES



# CONVEYORS & HANDLING SYSTEM



a complete range for handling



belts



rollers



the pallet range



ergonomics



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