

# Technical specification

## Electric Belt Conveyor

Promotex is adding a different kind of low height electric belt conveyor to its range.

The electric conveyor is a response to customer requests for an alternative to pneumatic belt conveyors.

*"A low height electric belt conveyor that runs continuously,  
at different speeds and in either direction"*

It's taken a few years but NOW IT'S HERE!

The belt conveyor has the same low height as the pneumatic conveyor (42 mm), making it just as easy to handle and install.

It is suitable for carrying small and large parts from machines in all segments of manufacturing industry.

The conveyor sides and the underside are flat, making the conveyor particularly suitable for tight spaces. The belt is contained within the lower edge of the profile, allowing it to be installed directly onto a flat surface, for example on a press bed.

The conveyor has an aluminium structure as standard. We can also supply a stainless steel model on request.

The conveyor is powered by an integrated 24 V DC motor. The only thing projecting from the conveyor is an M12 panel connector.

Power consumption is low < 1 A depending on the load.  
The belt speed in the standard model is about 8.5 m/min.



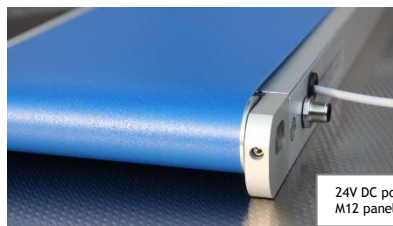
The belt conveyor is CE-marked. By conformance with the standards references, this product follows the provisions of the directives: 2004/108/EC EMC and 2006/95/EC LVD.

The belt conveyor is controlled from a separated box containing different components depending on the customer's needs and capabilities. Operators can use their own computer to individually modify a number of parameters in the control system to match the conveyor cycle to the particular application. The enclosure can be supplied with a continuously variable potentiometer to control the belt speed, also changing the belt direction. The motor acceleration and deceleration program is adjustable. The belt speed can be maximised.

The standard range consists of:

- Conveyor width 200, 250, 300, 350 and 400 mm. \*)
- Conveyor length from 200 mm to 1500 mm. \*)
- Polyurethane belt (blue) as standard. The belt is oil resistant and food grade. The belt can also be fitted with cleats. Other belts available as an option.
- Optional location of electrical connection in belt direction: front right (standard), front left, rear right or left.
- An electric motion detector can be fitted as an option.
- Side controls: L profiles, G profile or H profiles can be fitted as an option.

\*) Other dimensions as an option.



24V DC power supply through M12 panel connector.

The belt conveyor shown here is also equipped with an inductive sensor (option)

The photo shows a control unit with extra equipment.

- Cable fitting
- Electrical connection for remote control
- M12 panel connector to motor
- Potentiometer (option)
- Three position LED rotary switch



## Product Numbersystem

Example : **8 . C . 5 . F . N150**  
a   b   c   d   e

**a**

MODEL	
Code	Specification
8	Electric Belt Conveyor
9	Electric Belt Conveyor equipped with inductive sensor

**b**

ELECTRICAL CONNECTIONS	
Code	Specification
A	Electric connection point: Front right
B	Electric connection point: Rear right
C	Electric connection point: Front left
D	Electric connection point: Rear left
Z	Other position

\*) General conveying belt. Abrasion resistant. Food conveyor and processing belt. Oils and fats resistant. Reverse side coated. Non-adhesive. Operating temp Max 100 °C.

\*\*) High duty conveyor and processing belt. Abrasion resistant. Materials Handling. Metal working, Packaging. Antistatically equipped. Oils and fats resistant. Op. temp Max 80 °C.

\*\*\*) High duty conveyor. Abrasion resistant. Rubber conveyor and processing belts. Constant coefficient of friction. Antistatically equipped. High coefficient of friction surface. Oil resistant. Op. temp Max 80 °C.

**c**

EDGE RAILS	
Code	Specification
0	None
1	Edge rail, L-profile, h= 10 mm
2	Edge rail, L-profile, h= 20 mm
3	Edge rail, L-profile, h= 30 mm
4	Edge rail, L-profile, special
5	Edge rail, G-profile, h= 30 mm
6	Edge rail, G-profile, special
7	Edge rail, H-profile, with seal h= 45 mm
Z	Other

**d**

CONVEYOR BELTS	
Code	Specification
F	F25 Thermoplastic Polyurethane (TPU) (Cobalt blue) *)
G	PU03 Thermoplastic Polyurethane (TPU) (Dark green) **)
H	NBR 85 Acrylonitrile-Butadiene-Rubber (NBR) (Green) ***)
Z	Other Conveyor Belt

**e**

DIMENSIONS - BELT CONVEYOR		
Code	Width	Length ( l )
K+ l	K= 200 mm	From 200 mm to be filled from the customer, interval 100 mm
L+ l	L= 250 mm	From 200 mm to be filled from the customer, interval 100 mm
M+ l	M= 300 mm	From 200 mm to be filled from the customer, interval 100 mm
N+ l	N= 350 mm	From 200 mm to be filled from the customer, interval 100 mm
O+ l	O= 400 mm	From 200 mm to be filled from the customer, interval 100 mm
Z	Other Width	<b>Example:</b> Conveyor: Width 200 mm & Length 800 mm = <b>Code K80</b> Conveyor: Width 350 mm & Length 1500 mm = <b>Code N150</b>