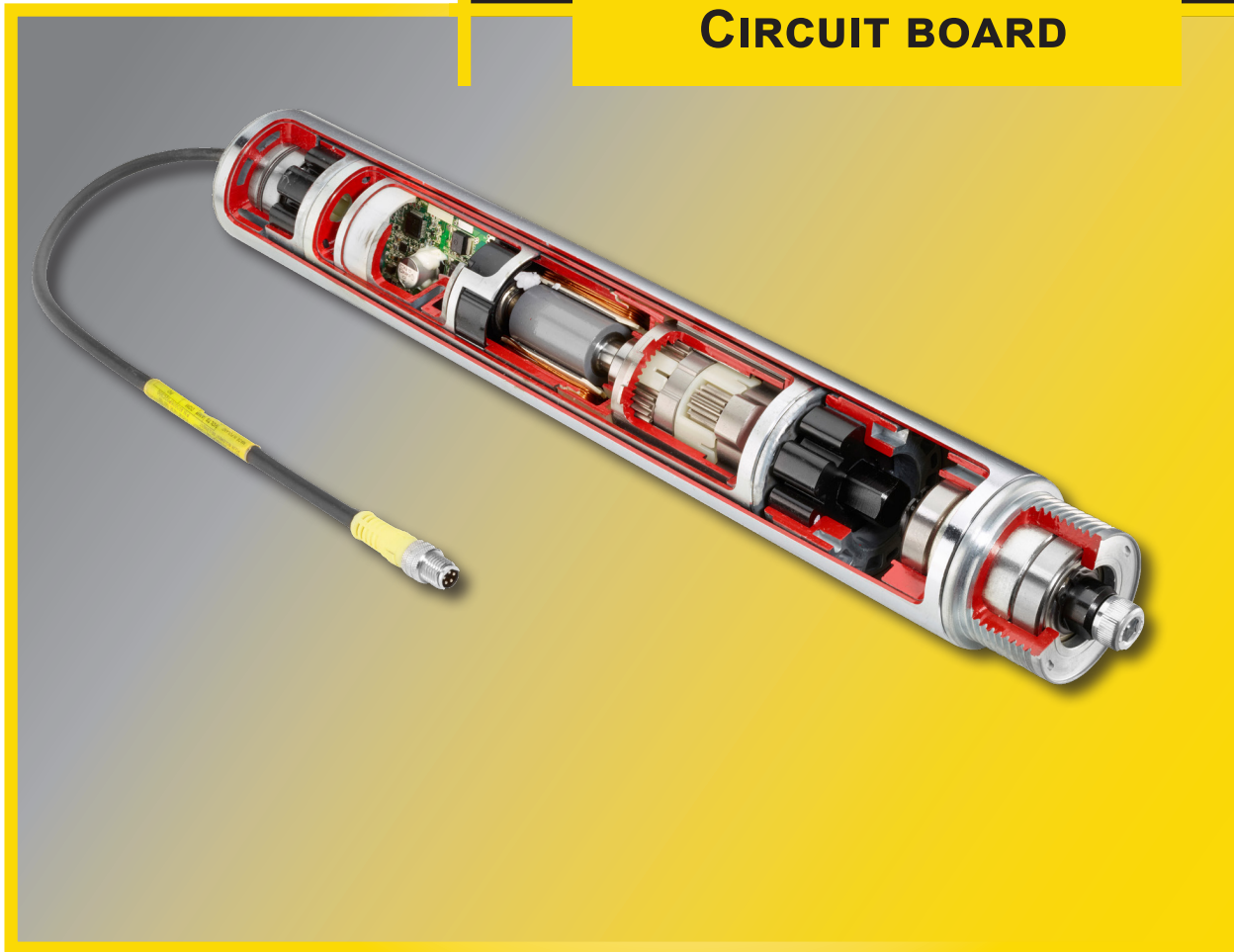


## INTEGRATED CIRCUIT BOARD



The brushless motorized roller PM605XE has the circuit board and gear-motor integrated within the roller allowing a good tightness, easy wiring with M8-5pins connector and space saving.

It can be easily controlled by: PLC, Asi-Bus via Bihl & Wiedemann module, or logic sensors with integrated ZPA from Wenglor, etc. It is designed for conveyor lines of light and medium loads (up to 500Kg max), in order preparation, in distribution, and for assembly lines. The motorized roller PM605XE is the ideal solution to answer to the difficulties coming from the working environment (liquid, dust, ...).

## ADVANTAGES

### COMPACT AND WATERPROOF

All is integrated in the roller and the cable is equipped with a M8 connector insuring a maximum tightness (IP67).

### ECOLOGY AND SAFETY

No noise or oil rejection. Everything works with very low voltage, without compressed air.

### INTEGRATED PROTECTION

Motor and circuit board are protected against overload, overheating, incorrect wiring, backflow...

### EFFICIENT AND RELIABLE

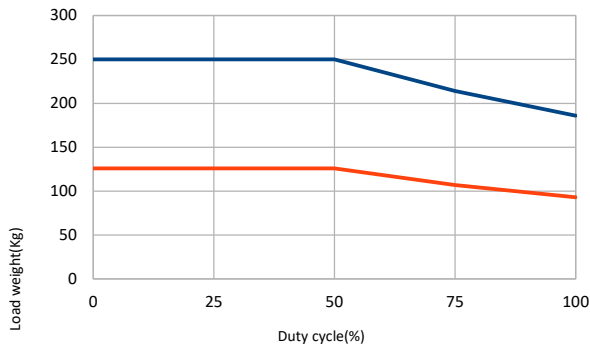
Starting current limited to 2A in order to optimize the 24VDC power supply. The dynamic braking is guaranteed without any risk of energy return generated during motor stopping.

### QUICK AND EASY INSTALLATION

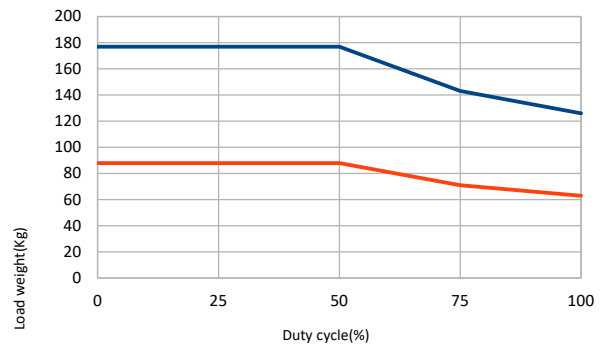
Ease of installation on the conveying systems thanks to a practical and quick wiring.

## TRANSFER CAPACITY

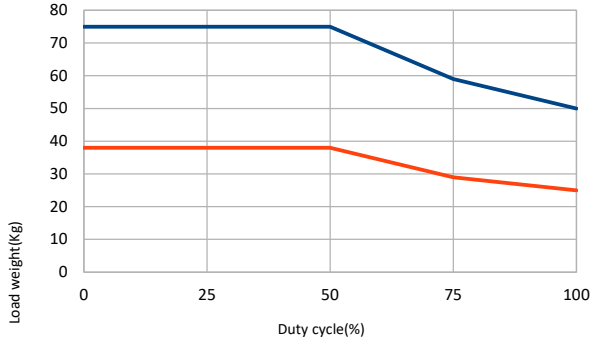
PM605XE 17m/min



PM605XE 30m/min



PM605XE 60m/min



- Load to transport
  - Plastic box ( $\mu = 0,03$ )
  - Cardboard box ( $\mu = 0,06$ )
- 9 slave rollers driven by 1 motorized roller



*These curves are given as a guide. Transfer capacity depends on the nature and quality of the transported load, the belt tension, the quality of the bearings, the nature of the sleeves, the ambient temperature...*

## OPTIONS / VARIANTS

### Motor shaft :



Plain hexagonal



Threaded hexagonal

### Shaft on the non-motor side :



Hexagonal spring loaded



Set screw

### Protection index :



IP 54



IP 65



Cold room  
-30°C

### Material :

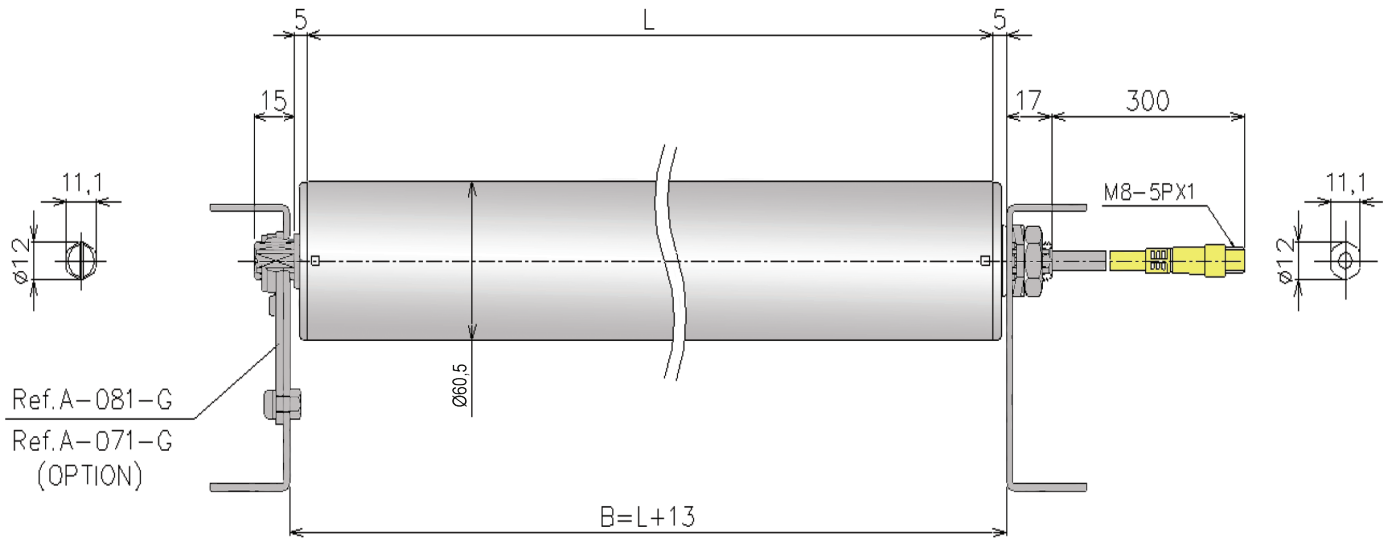


Zinc plated steel



Stainless steel

## STRUCTURES AND DIMENSIONS



## ELECTRO-MECHANICAL CHARACTERISTICS

CHARACTERISTICS		SPEED CODE 17	SPEED CODE 30	SPEED CODE 60	
ELECTRO-MECHANICAL	Motor	Direct current and brushless 24 VDC			
	Absorbed power (W)	nominal	19,2 - 40,8		
		start-up	48		
	Tangential force (N)	nominal	58 - 93	39 - 63	19 - 30
		start-up	215	147	70
	Operation	Continuous or intermittent 1440 starts/h max. Minimum duty cycle : 1s ON / 1,5s OF			
	Brake	Dynamic braking			
	Nominal speed (m/min)	3,5 - 21,0	5,9 - 35,4	12,4 - 74,7	
Protection index (motor roller)	IP54, 65, cold room -30°C				
Lenght	340 à 1500 mm	320 à 1500 mm	320 à 1500 mm		
Static load max.	300 - 1500 mm = 160 - 60 kg per roller				
CONTROL	Input signal	Start / Stop, Direction of rotation			
	Speed setting	10 speeds with speed adaptator (ext. resistance)			
		10 speeds by external analog voltage of 0-10VDC			
Protection	Against polarity reversal 0/24V and power backfeed, fuse, integrated thermal protection				

### Shape :



Crowned

### Pulley :



Ribbed

### Lagging :

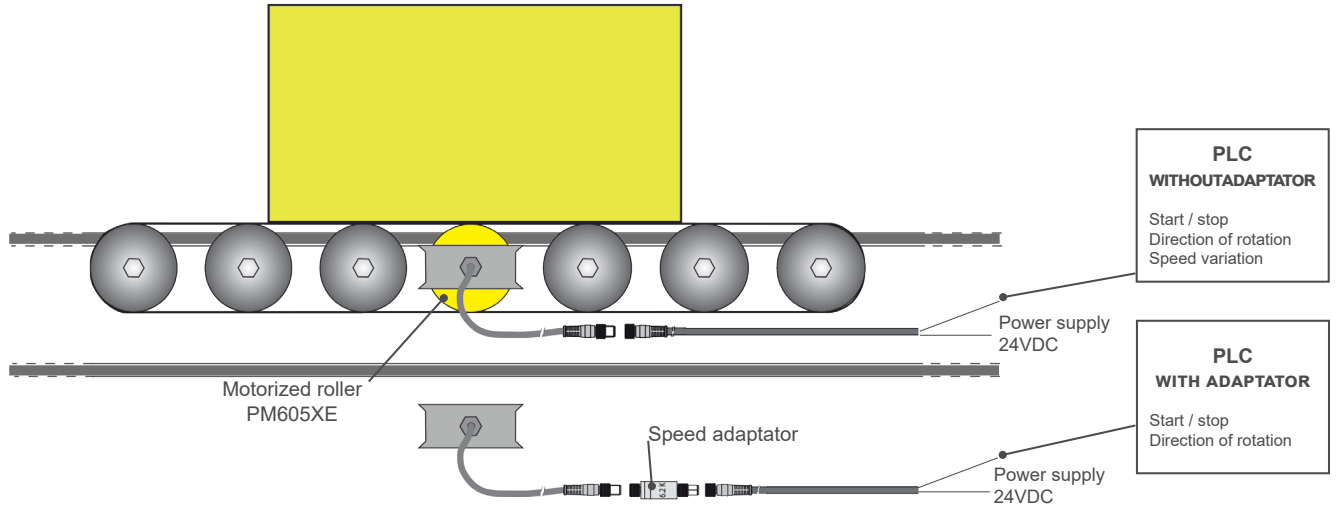


Polyurethane

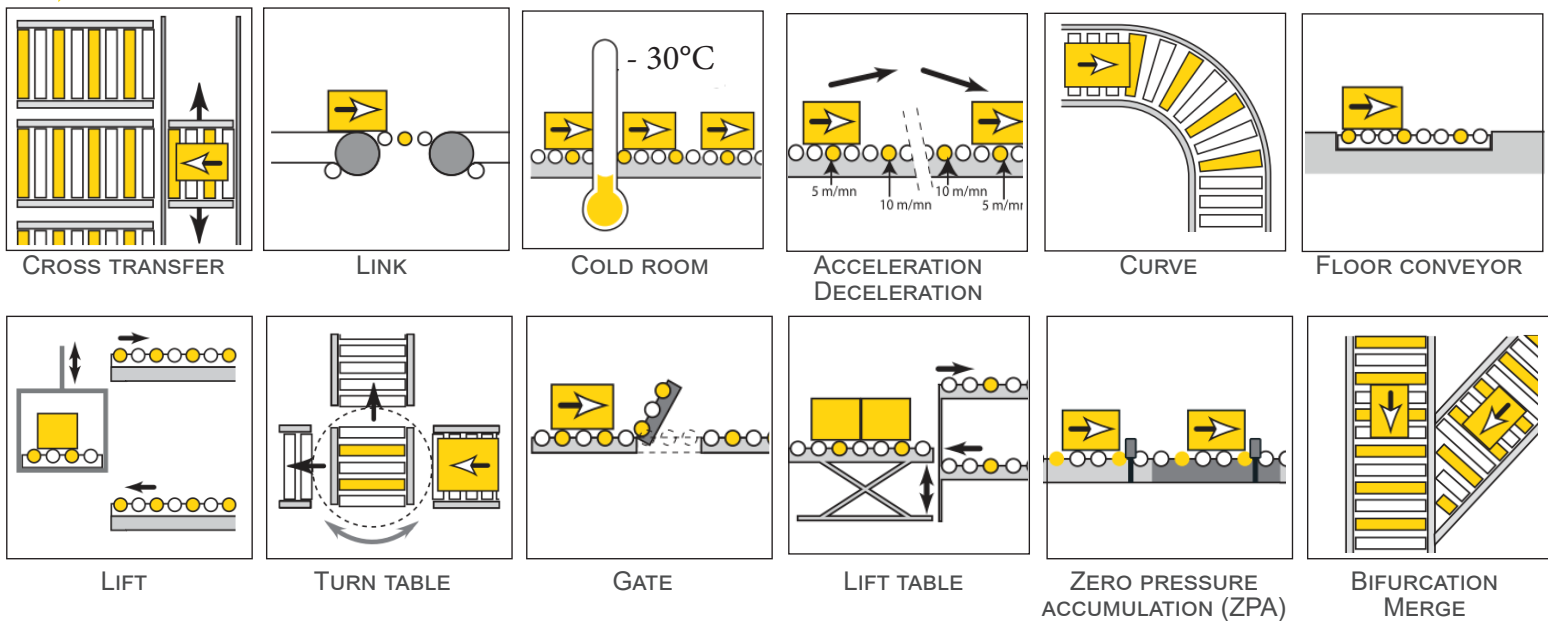


Natural rubber / nitrile

## WIRING



## APPLICATIONS

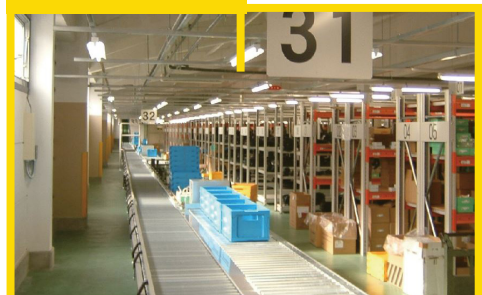


## REFERENCES

### ORDER PREPARATION



### DISTRIBUTION



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