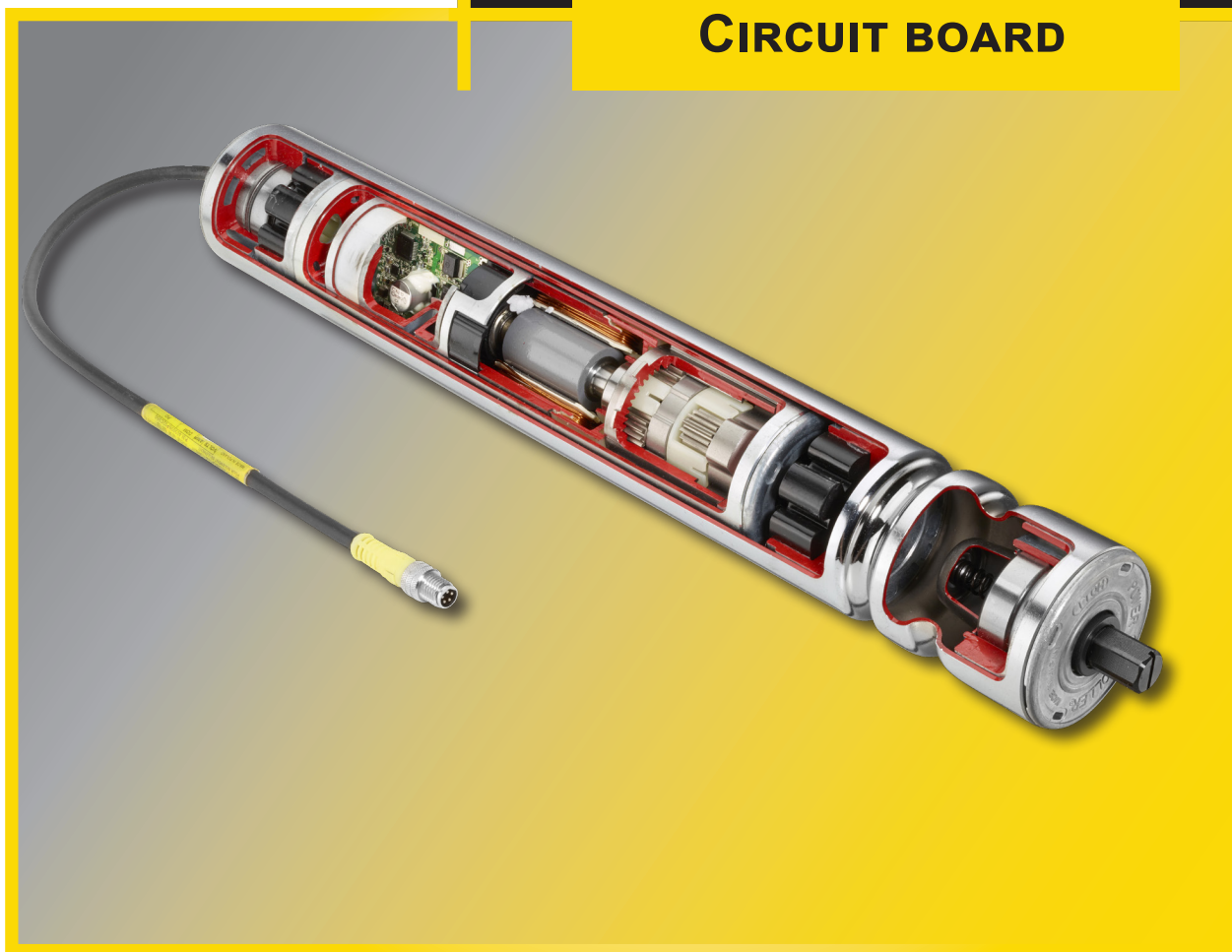


INTEGRATED CIRCUIT BOARD



The brushless motorized roller PM500XE 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 300Kg max), in order preparation, in distribution, and for assembly lines. The motorized roller PM500XE 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, etc.

EFFICIENT AND RELIABLE

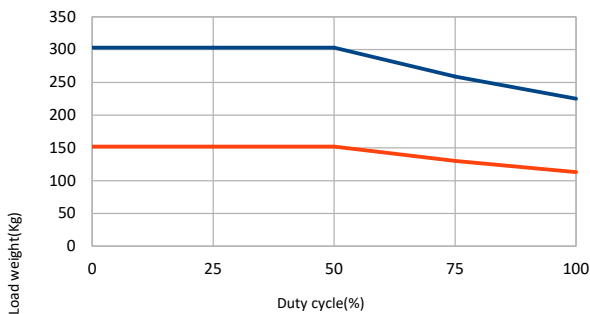
Starting current limited to 2A in order to optimize the 24VDC power supply. The dynamic braking is guaranteed without any risk of energy return generated during motor stopping.

QUICK AND EASY INSTALLATION

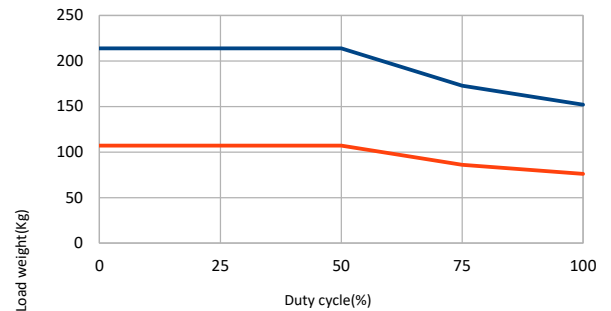
Ease of installation on the conveying systems thanks to a practical and quick wiring.

TRANSFER CAPACITY

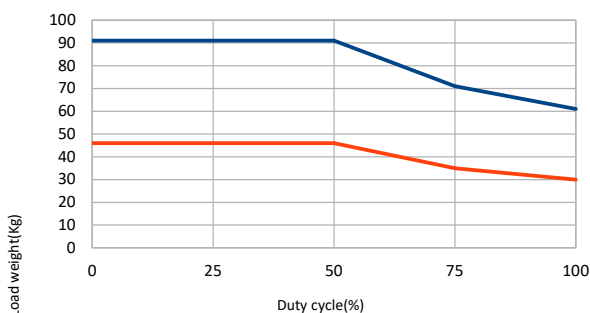
PM500XE 17m/min



PM500XE 30m/min



PM500XE 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 :

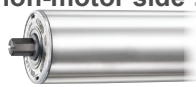


Plain hexagonal



Threaded hexagonal

Shaft on the non-motor side :



Hexagonal spring loaded



Set screw

Protection index :



IP 54



IP 65



Cold room
-30°C

Material :

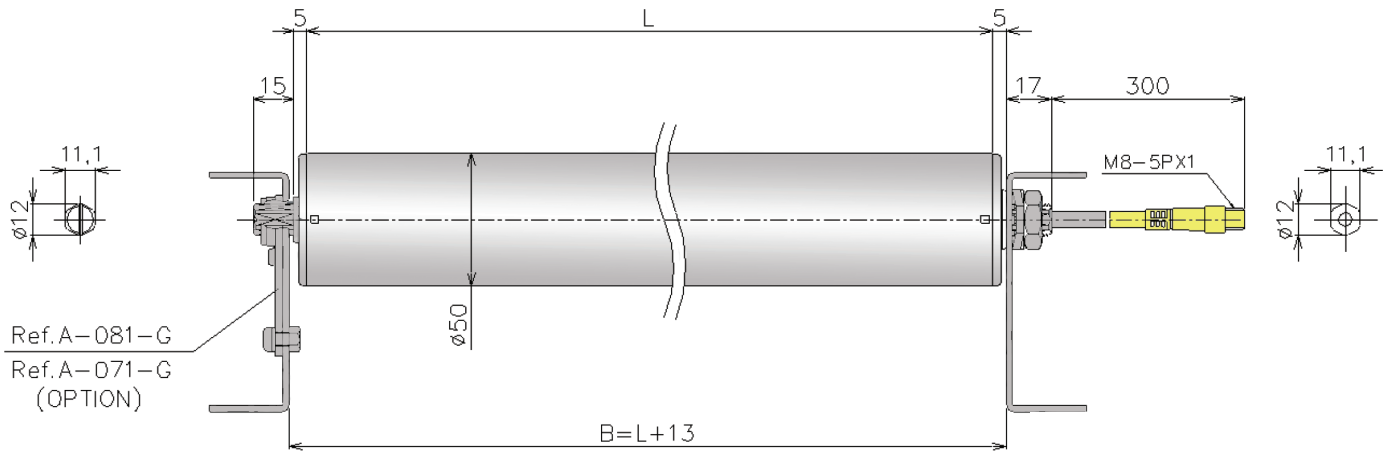


Zinc plated steel



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	16,8 - 40,8		
		start-up	48		
	Tangential force (N)	nominal	70 - 112	48 - 77	23 - 36
		start-up	260	178	84
	Operation	Continuous or intermittent 1440 starts/h max. Minimum duty cycle : 1s ON / 1,5s OF			
	Brake	Dynamic braking			
	Nominal speed (m/min)	2,9 - 17,4	3,7 - 29,2	10,3 - 61,7	
	Protection index (motor roller)	IP54, 65, cold room -30°C			
	Length	330 à 1200 mm	305 à 1200 mm	305 à 1200 mm	
Static load max.	300 - 1200 mm = 60 - 15 kg per roller				
CONTROL	Input signal	Start / Stop, Direction of rotation			
	Speed setting	10 speeds with speed adaptator (ext. résistance)			
		10 speeds by external analog voltage of 0-10VDC			
Protection	Against polarity reversal 0/24V and power backfeed, fuse, integrated thermal protection				

Shape :



Grooves



Crowned

Pulley :



Ribbed



Grooves

Sleeve :



Tapered



PVC

Lagging :

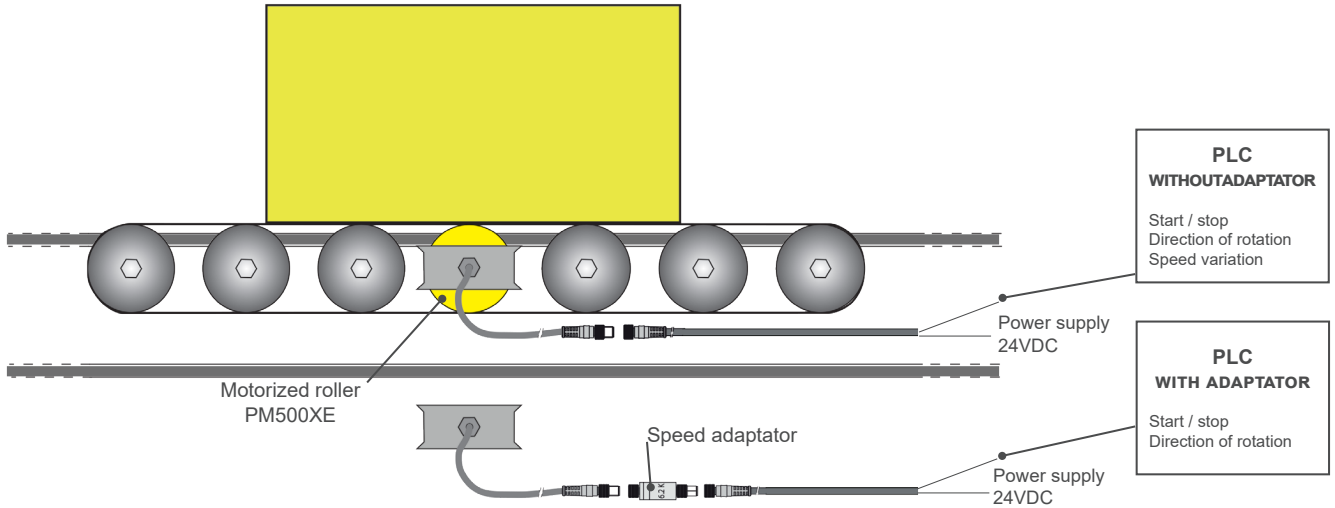


Polyurethane

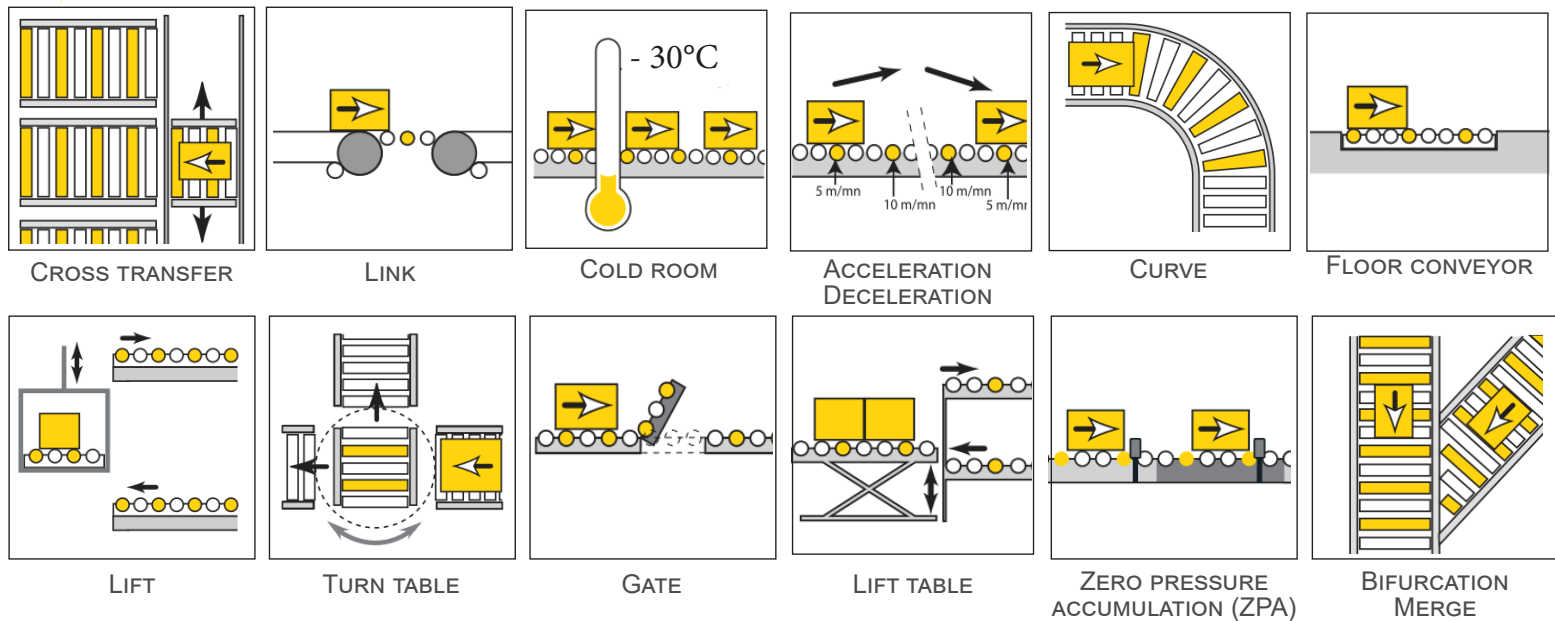


Natural rubber / nitrile

WIRING



APPLICATIONS



REFERENCES

ORDER PREPARATION



DISTRIBUTION



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