

The power roller PM605FE with brushless technology is associated with the external HB510 circuit board with zero pressure accumulation (ZPA) control, which allows the traceability of the loads to be transported. It is designed for conveying light and medium loads for order preparation, distribution, and for assembly lines.

ADVANTAGES

HIGH CAPACITY AND RELIABLE

The transfer speed is high with a rate of up to 1800 start up / hour. Stops are accurate and reliable thanks to the dynamic brake, without wear off.

FAST AND MODULAR INSTALLATION

It is easy to add or remove conveyor zones through the design of modules without changing the ZPA program.

PROGRAMMED AREAS' MANAGEMENT

All functions necessary to manage zones are preprogrammed to help manage your conveyor.

ECOLOGY AND SAFETY

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

ELECTRO-MECHANICAL CHARACTERISTICS

CHARACTERISTICS		SPEED CODE 15	SPEED CODE 25	SPEED CODE 55	
ELECTROMECHANIC	Motor	Direct current and brushless 24 VDC			
	Absorbed power (W)	nominal	29,3 - 60	28,8 - 61,9	29,3 - 60
		start-up	96		
	Tangential force (N)	nominal	98 - 105	56 - 62	31,3 - 33,6
		start-up	289,1	186,4	92,4
	Operation	Continuous or intermittent 1800 starts/h max. Minimum duty cycle : 1s ON / 1s OFF			
	Brake	Dynamic braking			
	Nominal speed (m/min)	no load	5,2 - 21,1	8,8 - 35,5	18,6 - 74,7
		nominal	5,2 - 16,8	8,8 - 31,8	18,6 - 59,8
	Protection index (motor roller)	IP54, 65, cold room (<i>Contact us for other classes</i>)			
Lenght	290 à 1500 mm	275 à 1500 mm	270 à 1500 mm		
Static load max.	300 - 1500 mm = 160 - 60 kg per roller				
CONTROL	Speed setting	10 speeds with a rotating switch			
		10 speeds by external analog voltage of 0-10VDC			
	Error signal in-put	Over-heating, wiring error, under-voltage, over-voltage...			
	Sensor output signal	Recovery sensor state for PLC			
	Protection	Against polarity reversal 0/24V and power backfeed, fuse, integrated thermal protection			
	Sensor timer	Timing sequence of the motorized roller depending on the sensor status of the downstream zone			
	Run holding timer	Timing sequence of the motorized roller depending on the sensor status of the zone to be left			
	Jam timer	Jam/blockage detection of the load depending on the sensor status time			
	Emergency stop	Stop of the motorized rollers of all the defined zones			
	Transfer mode	Selection of train mode or singulation mode by dip switch			
	Transfer direction and logic	Invert the direction of travel and logic for all the defined zones			
	Synchronization function	Synchronization of several motorized rollers in the same zone			
	Forced Start / Forced Stop	The forced start enables evacuating the load of the last zone The forced stop enables inserting load in a defined location			
	Speed control block area	Speed variation simultaneous and synchronized of several motorized rollers			
	Modification program	Contact us			

OPTIONS / VARIANTS

Motor shaft :



Plain hexagonal



Threaded hexagonal

Shaft on the non-motor side :



Hexagonal spring loaded



Set crew

Protection index :



IP 54



IP 65

Material :



Zinc plated steel



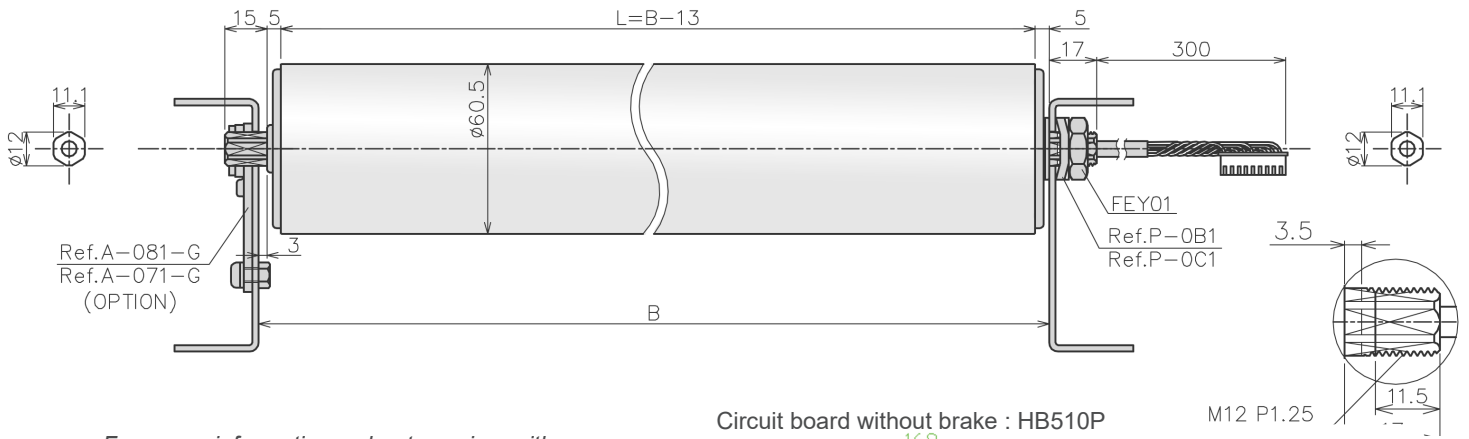
Stainless steel

Contact us for more specifics.

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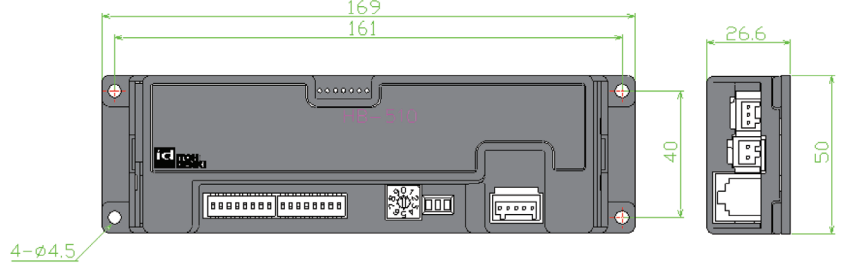
STRUCTURES AND DIMENSIONS

Motorized roller without brake : PM605FE



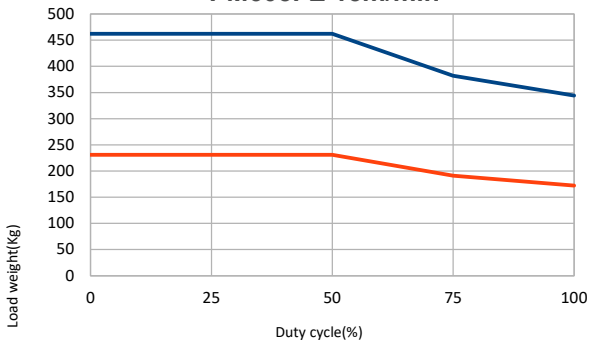
For more informations about version with mechanical brake, contact us.

Circuit board without brake : HB510P

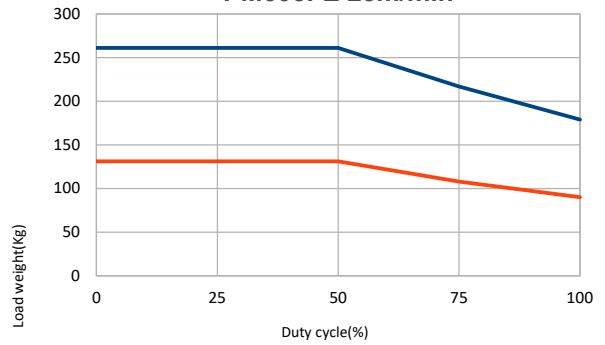


TRANSFER CAPACITY

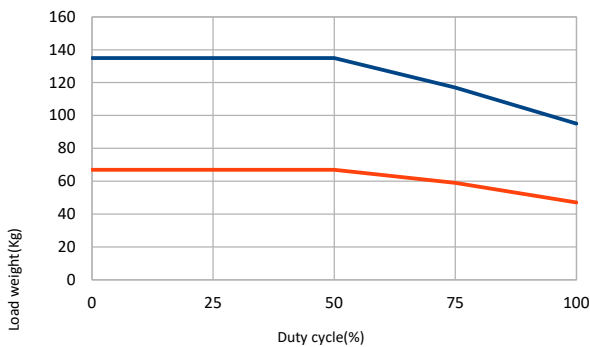
PM605FE 15m/min



PM605FE 25m/min



PM605FE 55m/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...

Shape :



Crowned

Pulley :



Ribbed

Lagging :

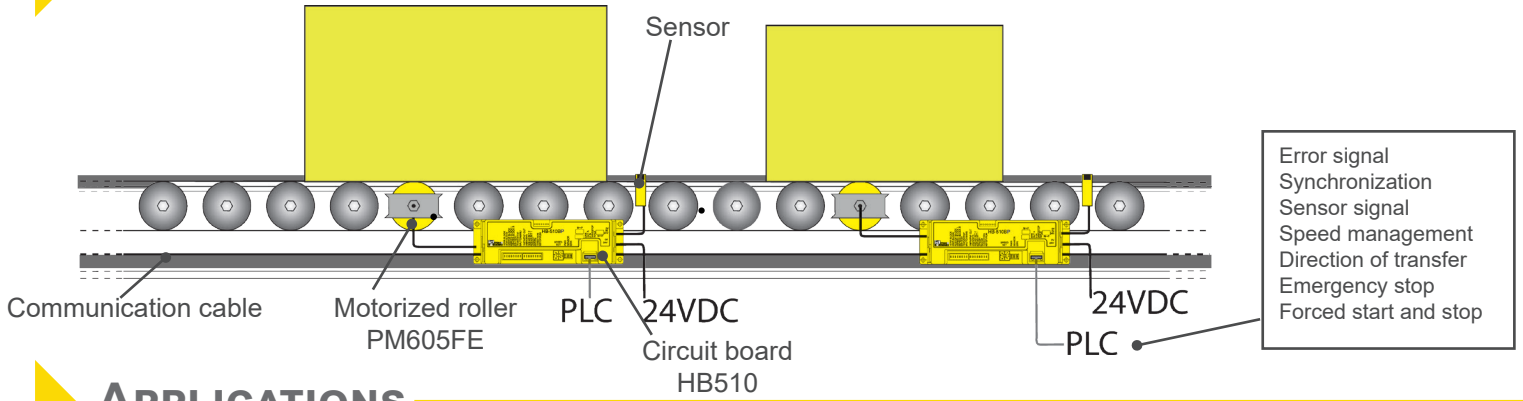


Polyurethane

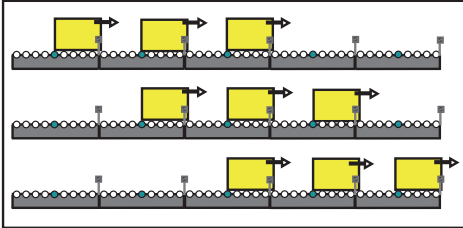


Natural rubber / nitrile

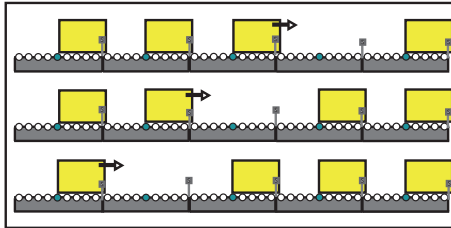
WIRING



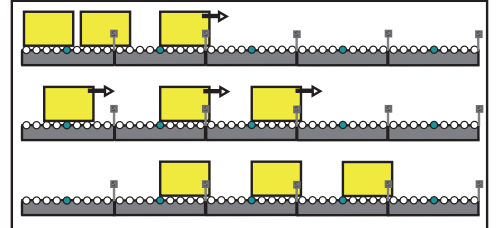
APPLICATIONS



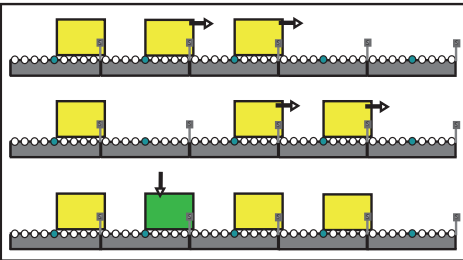
TRAIN - 1 PACKAGE PER ZONE
ALL PACKAGES MOVE AT ONCE



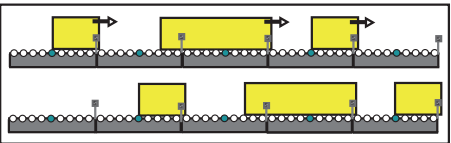
STEPBYPSTEP-1 PACKAGE PER ZONE
1 PACKAGE MOVES AT A TIME



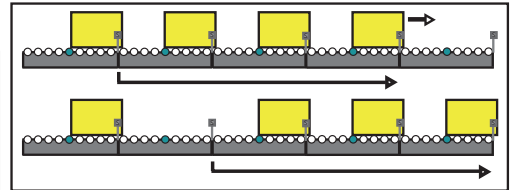
PACKAGE SEPARATION



PACKAGE INSERTION
ZPA STOP



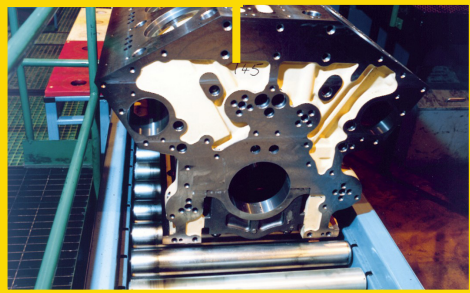
LONG AND SHORT PACKAGES
TRANSPORT



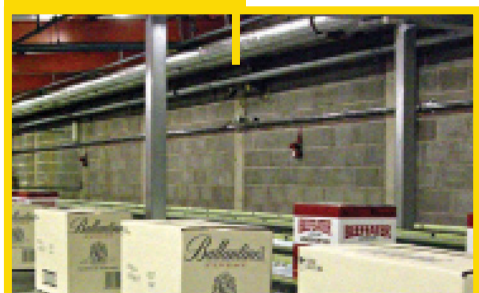
GROUPED EVACUATION

REFERENCES

AUTOMOTIVE INDUSTRY



PRODUCTION LINE



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