



Tomorrow's technology for innovative logistics



During the last 70 years **ITOH DENKI** has become recognized throughout the world for the design, manufacture and marketing of motorized rollers and automated systems adapted for the most innovating logistics.

Founded in Japan in 1946, **ITOH DENKI** has developed and improved its know-how and pionneering leadership in the field of motorized roller technology. **ITOH DENKI** has diversified its range of products and automated systems, in order to remain at the forefront of innovation in the fields of conveyors and logistic systems.

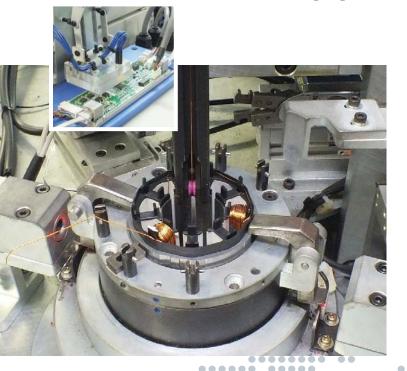


Animated by its values of loyalty, efficiency and courtesy, **ITOH DENKI** has always maintained a shared trust with its customers, suppliers and employees.

Always at your service

ITOH DENKI Group and its distribution network is spread all around the world. All products are developed and industrialized at the head-quarters in Japan, and distributed by 4 subsidiaries in France, the USA, Shanghai and Hong Kong. Each subsidiary is responsible for selling products in its area, and to provide localised customer service.

The European market is managed by **ITOH DENKI Europe**, with its headquarters in France, where the products are assembled, along with two branch offices in Great–Britain and Germany.

















We work for your success

• Pioneer:

Since their industrialization in 1975, our research and development center has continued to improve our motorized asynchronous rollers with creative innovation.

ITOH DENKI was the first company to offer motorized rollers with 24VDC Brushless technology in 1989, and has continued innovating ever since to anticipate your future needs.

• Leader:

Being the only fully autonomous manufacturer of motorized rollers, **ITOH DENKI** manages the entire process from conception to marketing thanks to its know-how and its experience in the fields of mechanics, electronics, automation, and logistics.

• Innovator :

ITOH DENKI is driven by values of research and innovation, to be able to develop new products that forsee and answer your needs.

Conscious :

ITOH DENKI is an environmentally conscious company with ISO 14001 certification. Furthermore we maintain a high level of product quality with our ISO 9001.

Available :

A team of technical salesmen and engineers is ready to recommend the best products for your logistical needs, in a pro-active and timely manner.

Markets & References

The **ITOH DENKI** products are recognized worldwide in all business fields:

Postal services: La Poste, Deutsch Post, Royal Mail, USPS. **E-commerce, Distribution**: Amazon, Gardners Books, Oscaro.

Automotive: Toyota, Peugeot, Michelin, Valéo, Bosch, Jaguar, Volkswagen.
Air transport, airports: SAS, KLM, Heathrow Airport, Liverpool John

Lennon Airport.

Domestic appliances and Computers : Sony, Toshiba, Canon, Dell,

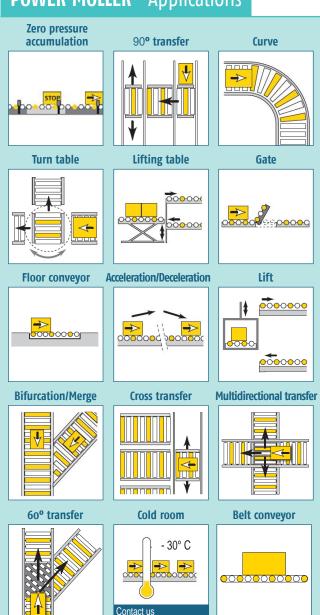
Advertizing display: JC Decaux, Clear Channel.



Productivity, competitiveness, reliability and flexibility...

Innovation, modularity and security are the main features of ITOH DENKI products, enabling customers to create cutting edge logistics technology.

POWER MOLLER® Applications



The advantages of the **POWER MOLLER:**

- + Space saving: compact and ready to fit inside your conveyor equipment.
- + Flexibility and modularity: easy integration within the conveyor, customized sizes.
- only 24VDC is needed, ergonomic and quiet.
- **+** Environement: low energy consumption, clean and recyclable.





Itoh Denki exceeds your expectations!

24V DC Brushless motorized rollers with external circuit board



The circuit board is separated from the gear-motor, which is integrated inside the roller. This optimizes the performance and durability of the roller, and offers diverse functions such as pulse signals, acceleration/deceleration, dynamic brake, optional positioning holder, error signal, etc.

The assembly can be controlled by PLC. Some models provide Zero Pressure Accumulation (ZPA) function thanks to the HB circuit board, to allow separate management of the zones and secure transport of the conveyed loads.

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SERIES	DIAMETER	MAX LOAD TO BE CONVEYED	STANDARD	WITH ZPA FUNCTION	NETWORK CONTROLLER	MECHANICAL Brake
PM320HS	ø 32 mm	10 kg	CB018			
PM500FE	ø 50 mm	300 kg	CBM-105	HB510	IB-E	
PM605FE	ø 60.5 mm	500 kg	CBM-105	HB510	IB-E	
PM500FE-B	ø 50 mm	300 kg	CB016B	HB510B	IB-E	Brake
PM605FE-B	ø 60.5 mm	500 kg	CB016B	HB510B	IB-E	Brake
PM500VE	ø 50 mm	300 kg	CBV-108		IB-P	
PM605VE	ø 60.5 mm	500 kg	CBV-108		IB-P	
PM605KT	ø 60.5 mm	1000 kg	CB030	HBK608	IB-E	

CB016B



CBM-105





CB030





CB018





OPTIONS / VARIANTS

For all other options, please contact us ●

Motor shaft:





threaded hexagonal

Shaft on the non-motor side:





set screw

Protection index:











Material:





stainless steel

Products and VARIATIONS

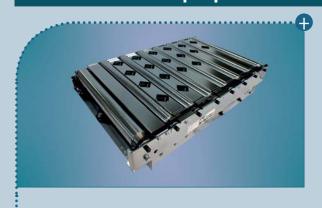
24V DC Brushless motorized rollers with integrated circuit board



The circuit board and gear-motor are integrated within the roller to give a higher level of IP protection, easy wiring with M8-5pins connector and space saving. It can be easily controlled by: PLC, Asi-Bus via Bihl+Wiedemann module, PEPPERL+FUCHS, logic sensors with integrated ZPA from Wenglor, etc.

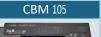
SERIES	DIAMETER	MAX LOAD TO BE CONVEYED	MODULE ASI-BUS	
PM500XE	ø 50 mm	300 kg		
PM605XE	ø 60.5 mm	500 kg	Dibl. Windomann	
PM500XP	ø 50 mm	300 kg	Bihl+Wiedemann	
PM605XP	ø 60.5 mm	500 kg		
PM500XC	ø 50 mm	300 kg	PEPPERL+FUCHS	
PM500XK	ø 50 mm	300 kg	PEPPERL+FUCHS	

POWER MOLLER® Pop-Up module



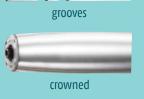
The Pop–Up is a 45° transfer module, in the form of a cassette, that can be integrated within the conveyor frame. It requires only a 24VDC supply with 150W, and has a transfer capacity of about 3000 packages/hour, when the transfer rate is at 50%.

MOTORIZATION	CORRESPONDING CIRCUIT BOARD	CONTROL
PM500FE	CBM-105 CBR-306	To be programmed with PLC





Shape: grooves









Accessories

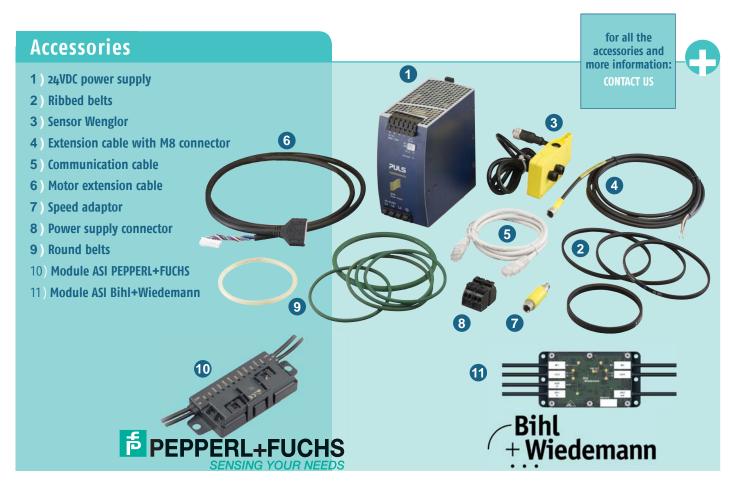


POWER MOLLER® F-RAT module



١	MOTORIZATION	CORRESPONDING CIRCUIT BOARD	CONTROL	
	PM500FE	CBM-105 CBR-306	To be programmed with PLC	
	FINISOUFE	HBR-605	Autonomous controller with integrated transfer program	
	PM500XP		To be programmed with PLC or ASI module	
Circuit board CBM 105 Pre-programmed controller HBR-605				

The F-RAT is a 90° multidirectional transfer unit supplied complete in a highly compact cassette module, that can be easily integrated within the conveyor frame. It requires only a 24VDC supply with 100W. It has a transfer capacity of about 2500 packages/hour, when the transfer rate is at 50% and without making a level change of the transported goods.





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