



24 VDC MOTORIZED
ROLLER SOLUTIONS
FOR EFFICIENT CONVEYORS



DRIVING
THE FUTURE
OF INTRALOGISTICS

Company profile



"Our objective: anticipate industry 4.0"

Kazuo Itoh,
ITOH DENKI President

R&D

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



Control

ITOH DENKI's products are designed and built to last. Furthermore we maintain a high level of product and customer service quality with rigorous quality control and our ISO9001 certification.

Established in 1946



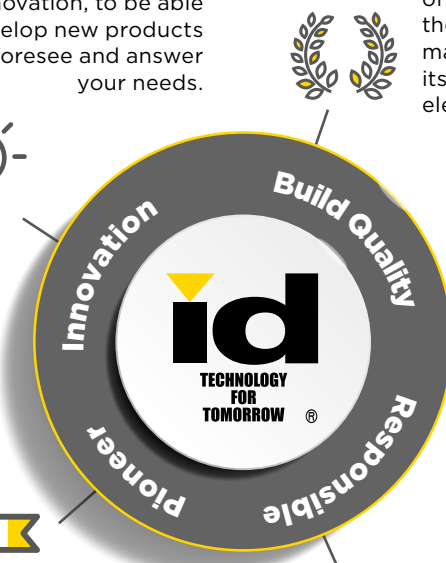
Since their industrialization in 1975, our research and development center has continued to improve our motorized asynchronous rollers. ITOH DENKI was the first company to offer motorized rollers with 24VDC Brushless technology in 1989, and has continued innovating ever since to anticipate your future needs.



Environmental awareness

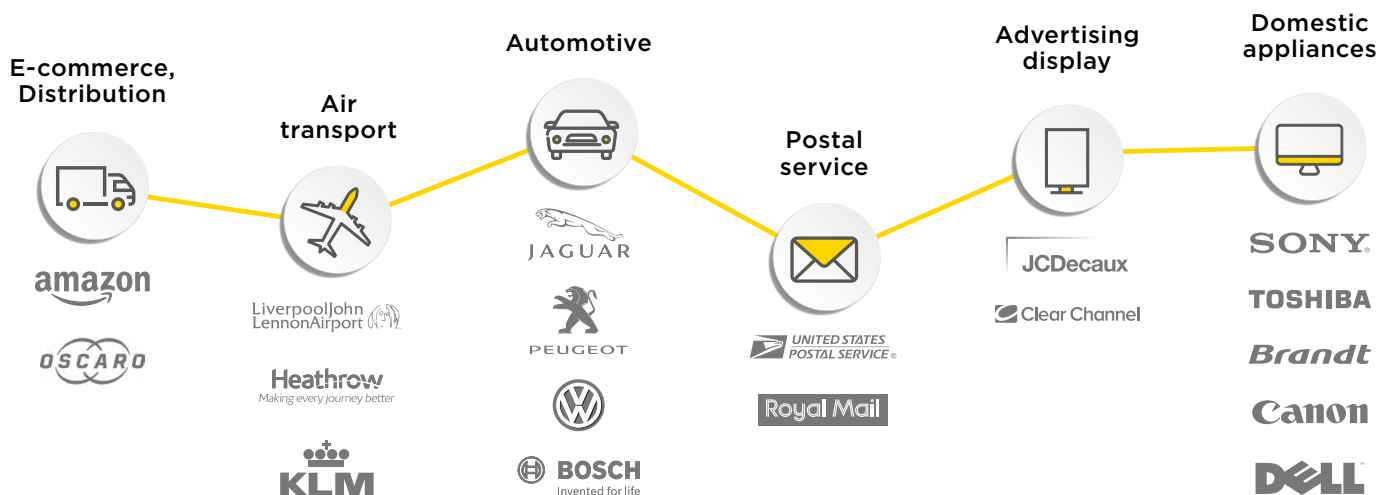
ITOH DENKI is an environmentally conscious company with ISO 14001 certification.

Our products are low energy consumption, clean and recyclable.



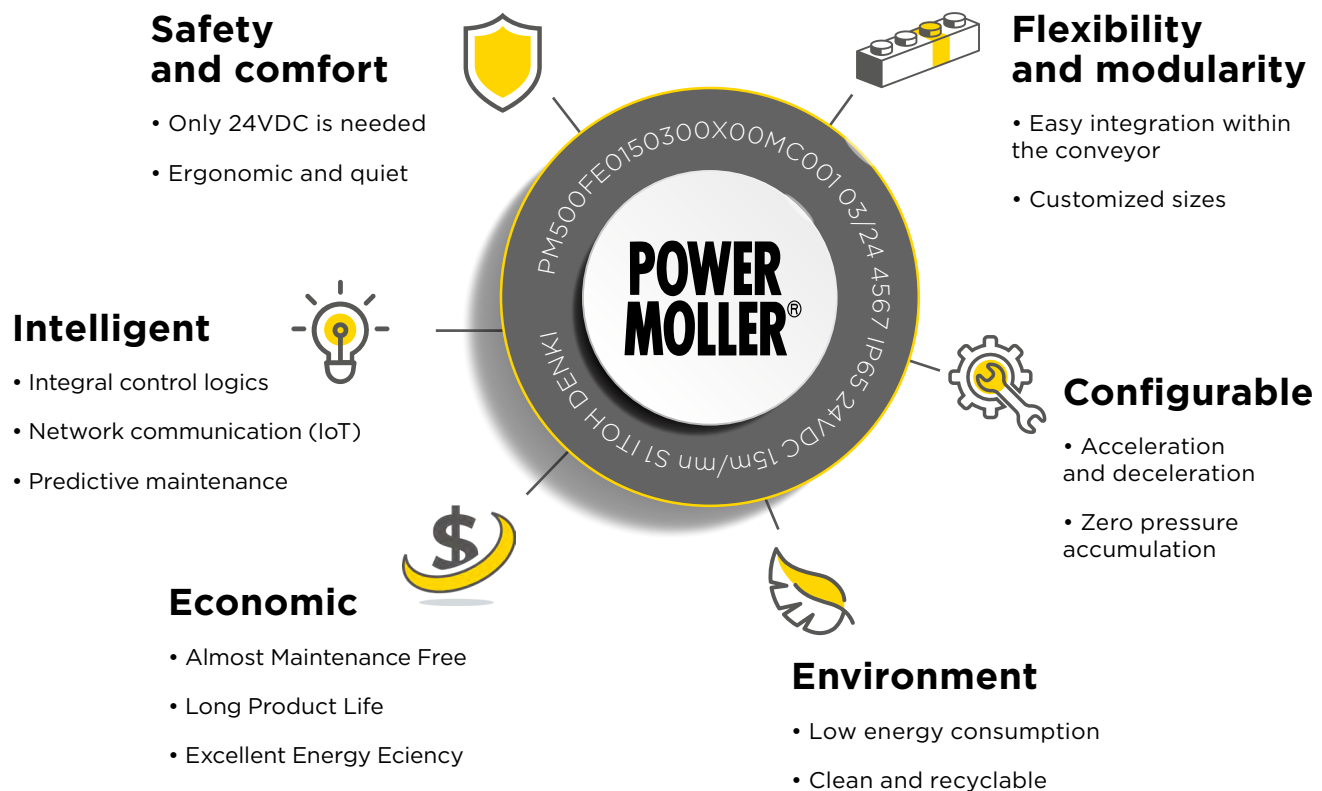
Our products in use

Providing the most innovative industries with high quality solutions for conveyors.



Power Moller solutions

Complex challenges made easy with Itoh Denki Power Moller solutions. Innovation, modularity and security are the main features of ITOH DENKI products, enabling customers to create cutting edge logistics technology.



Power Moller® motorized rollers are the key component of groundbreaking solutions for conveyor lines.



Setting intralogistics in motion

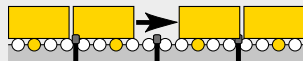
Power Moller technologies allow for **smooth and precise transport flows** on your conveyor lines.



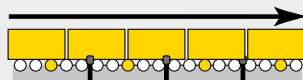
- 1 ZPA (Zero Pressure Accumulation) transfer control**
Prevents tote collision and impact damage.



- 2 Auto gapping transfer control**
More throughput by catch-up transfer.



- 3 Batch forming transfer control**
Batch forming while conveying, achieving highly efficient sorting.



- 4 High density accumulation control**
Increased throughput with minimal footprint by narrowing gaps between totes.



Motor Driven Rollers

Controllers
Basic/ZPA/networked programmable

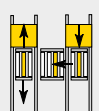


F-RAT NX
Flat diverts at 90°

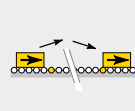


MABS
High throughput, multidirectional sorter

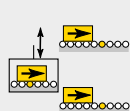
MULTIPLE APPLICATIONS



90° transfer



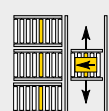
Acceleration / Deceleration



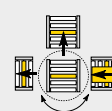
Lift



Bifurcation / Merge



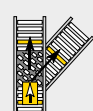
Cross transfer



Turn table



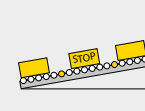
Multidirectional transfer



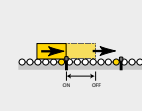
30°/45° transfer



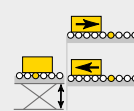
Curve



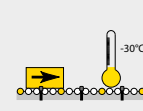
Position holding



Length measurement



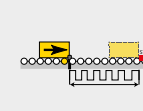
Lifting table



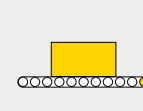
Cold room



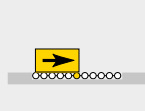
Jogging



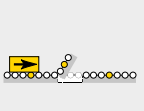
Stopping distance



Belt conveyor



Floor conveyor



Gate

Power Moller range

A complete and modular range that adapts to your specific needs.

3 KEY COMPONENTS

MOTORIZED ROLLER AND CIRCUIT BOARD

With external circuit board

		Standard	With ZPA	Network controller
Light	 	HS	CB-018	
	 	FE	CBM-105	HB-510
	 			EtherNet/IP IB-E03
Standard	 	FE-B	CB-016B	HB-510B
	 			EtherNet/IP IB-E03
	With mechanical brake			
	 	VE	CBV-108	HBV-609
Heavy	 			IB-P01 IB-P05
	 	KT	CBK-109	HBK-608
	 	KT-B	CBK-109B	
	With mechanical brake			

With internal circuit board

		Compatible with Module ASI - BUS
Standard	 	XE
	 	
	 	XP
With high starting torque	 	
	 	XK
	 	XC
	With high starting torque	

Bihl
+ Wiedemann

PEPPERL+FUCHS
SENSING YOUR NEEDS

MODULES

No pneumatics needed, 24v MDR controls all lifting & transfer operations. Fits into existing motor roller conveyor frames.

45° transfer

POP-UP
Up to 30kg



90° transfer

FRAT-NX75 | FRAT-S
Up to 50kg



MRAT
Up to 250kg



Multi angle, high throughput

MABS
Up to 30kg



OPTIONS

Motor shaft



Plain hexagonal



Threaded hexagonal

Shaft on the non-motor side



Hexagonal spring loaded



Set screw

Shape



Grooved



Crowned

Pulley



Ribbed



Grooved

Sleeve



Tapered



PVC

Lagging



Polyurethane



Natural rubber / nitrile

IP 54



IP 65



Cold Room





IdPAC, THE ULTIMATE CONVEYOR SOLUTION READY TO INSTALL

Powered by industry leading 24V DC Motorized Roller solutions from Itoh Denki, now adding total user-friendliness.

Easy to set-up, easy to run, easy to expand... idPAC provides excellent performance, it's E.A.S.Y.!

We embedded an electronic control board and software into each module zone, thanks to this Itoh Denki's proprietary technology of Autonomic Decentralized Control, each module/zone becomes fully modular.

idPAC is the optimal solution for those who want to; save money by reducing installation and commissioning time, start small and expand later, modify their conveyors without employing high level software engineers

www.itoh-denki.com



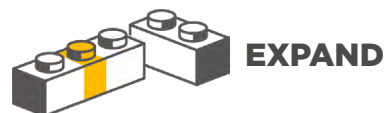
**PLUG
& PLAY**



**POINT
& CLICK**



RUN



EXPAND

ITOH DENKI worldwide



ITOH DENKI EUROPE S.A.S.

490 avenue des Jourdies
P.A.E les Jourdies
74800 St Pierre en Faucigny
France

www.itoh-denki.com

UK Branch office
Suite 1 Trinity Space Centre
Waldorf Way, Wakefield WF2 8DH
United Kingdom

German Branch office
Postfach 10 05 43
66005 Saarbrücken
Germany

TECHNICAL CENTER



Netherlands Branch office
Limmerick 3
1046AR Amsterdam
Netherlands



ITOH DENKI CO., LTD

1146-2 Asazuma-Cho Kasai
Hyogo 679-0180
Japan

www.itohdenki.co.jp



ITOH DENKI USA, INC

21 Great Valley Blvd,
Hanover Crossings Business Park,
Wilkes-Barre, PA 18706-5332 U.S.A

www.itohdenki.com



ITOH DENKI SHANGHAI CO., LTD

Room 1812, No. 689, Guangdong Road,
Huangpu district, Shanghai 200001
R.P. China

www.itohdenki.com.cn



Novi Tech Center
Michigan, U.S.A.



WWW.ITOH-DENKI.COM