

POWER MOLLER®



Innovative and intelligent conveyor drive solution. Power Moller is Motor Driven Roller (MDR), or internally motorized conveyor roller, that can be used wherever conveying force is needed.

Since its inception, the Power Moller, a revolutionary conveyor driving solution, has enjoyed continued success almost 40 years as a vital component for automation needs. ITOH DENKI has successfully developed various motor functions, specifications, options and control technology to satisfy sophisticated conveyor technology. Our remarkable evolution in last decades has allowed us to provide more than just conveyor components; total engineering support and solutions to your automation needs.

Ideally suited for green technology, the Power Moller contributes to protect the environment with a safe, clean, quiet driving force as well as with energy saving solutions resulting in reduced carbon dioxide emission.

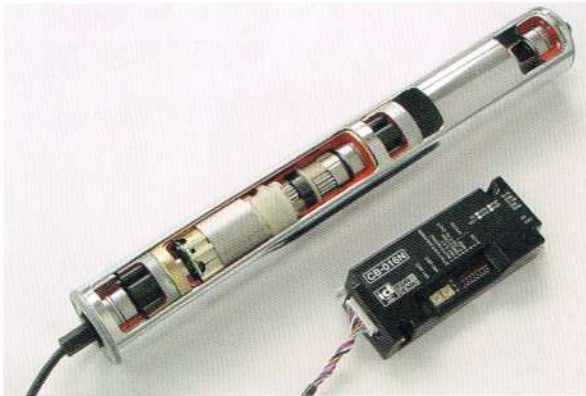


Features & Benefits

- Space saving: Motor and gearbox are integral with the roller tube.
- Easy installation: Spring-loaded shaft enables quick and easy installation into new or existing equipment.
- Safe, simple and clean: Totally sealed construction with no exposed chains or sprockets.
- Quiet and smooth operation: Enables quiet and low vibration transfer.
- Maintenance free: Lifetime lubrication ensures long life and maintenance free operation.
- Green drive technology: Run on demand operation saves more than 60% power consumption compared with conventional drive solution.
- Intelligence: Easy control of speed, acceleration and deceleration as well as self diagnosis of motor health.

DC Power Moller

POWER MOLLER[®] 24



Power Moller in DC voltage

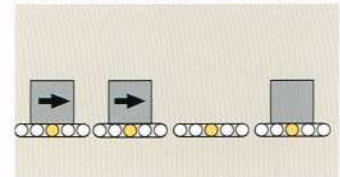
The development of a highly efficient brushless DC motorized roller has opened new horizons for material handling with its high torque, speed, and intelligence.

Suitable for handling loads up to 50kg, state of the art DC motor and control technology have made the Power Moller the best choice for automating logistical distribution centers. 24V DC Power Moller features include stopping accuracy, acceleration, deceleration and flexible conveyor speed control. Along with the Power Moller roller, we supply standard motor driver cards, hybrid driver cards having integral ZPA logic and network based controllers.

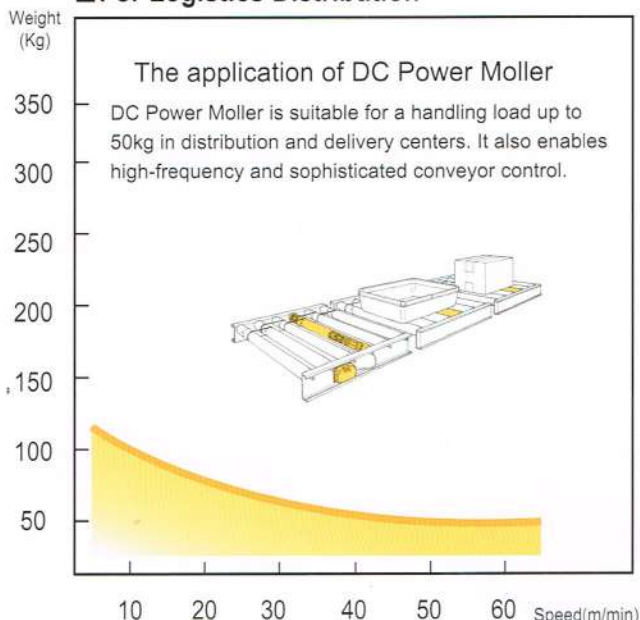
● Applications

Virtually requiring no maintenance the 24V DC Power Moller provides safe, quiet operation, easy installation, and plug & play wiring. The 'Run on Demand' operation with distributed control saves energy significantly. The 24V DC Power Moller is widely employed in logistical distribution centers for mail, tobacco, books, and pharmaceutical products as an indispensable conveyor drive solution.

ZPA (Zero Pressure Accumulation)



■ For Logistics Distribution



Wide Motor Range

	φ 48.6	φ 50.0	φ 57.0	φ 60.5
Standard Type (FE)	PM486FE	PM500FE	PM570FE	PM605FE
High Power Type (FP)	PM486FP	PM500FP		
Ultra High Power Type (KE)			PM570KE	PM605KE
Integral Driver Type (XE/XP)	PM486XE PM486XP	PM500XE PM500XP		

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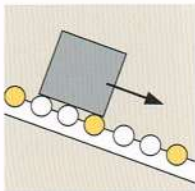


Power Moller in AC voltage

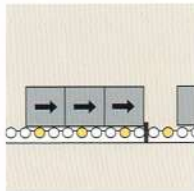
The AC Power Moller, with its three or single-phase induction motor and gearbox, is available with a broad range of roller tube diameters, (38, 42.7, 48.6, 50, 57, 60.5mm) and tube lengths, (minimum 200mm up to 1000mm). It is offered in speeds from 4m/min up to 60m/min.

Generally Power Moller's in AC voltage are used to automate production lines and bridge between machines. It is suitable for handling light to heavy loads at many different speeds. Various options including tapered rollers, rubber lagging, waterproof, and built-in brakes are available to satisfy your specific automation needs.

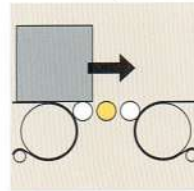
Gravity speed deceleration



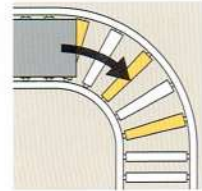
Low pressure accumulation



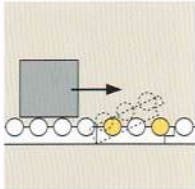
Bridge between conveyors



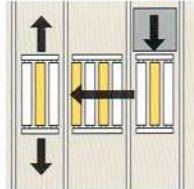
Powered curve



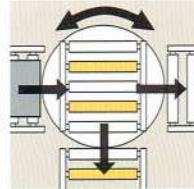
Powered gate



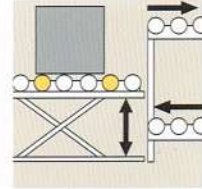
90° transfer



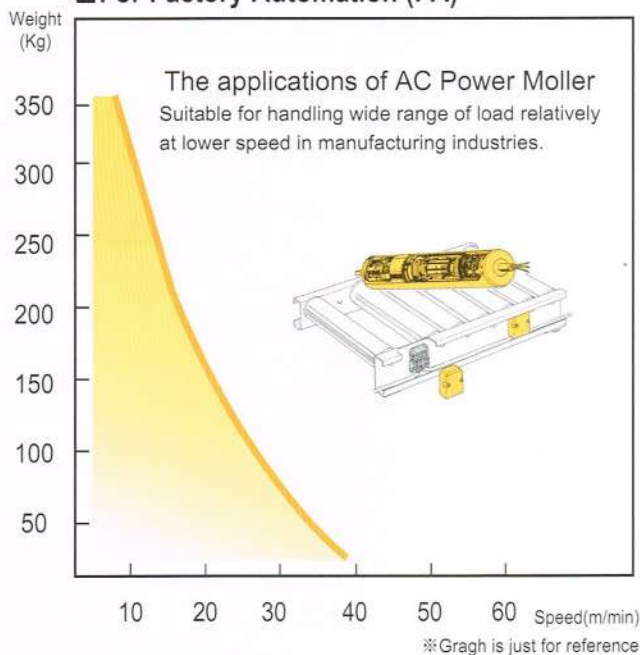
Turn table



Lift table



For Factory Automation (FA)



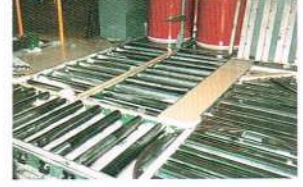
For Roller Conveyor Applications

	For light load < 30kg		For medium load < 100 kg		For heavy load < 300kg	
	φ 38.0	φ 42.7	φ 48.6	φ 50.0	φ 57.0	φ 60.5
Standard Type (AS/BS)	PM380AS	PM427AS	PM486BS	PM500BS	PM570AS	PM605AS
High Torque Type (BP)					PM570BS	PM605BP
Accumulation Type (AU/BU)	PM380AU	PM427AU	PM486BU	PM500BU	PM570AU	PM605AU
Standard Tapered Roller Standard Motor (AS/BS)		PMT42YS PMT42AS PMT42BS		PMT50AS		

Motorized Drum for Belt Drive Applications

Output	52 W	60 W	120 W
	φ 76.3	φ 102.0	φ 115.0
Standard Type	PM763BS	OR-F	OR-G
High Torque Type			IP-G

present.



Clean room, food processing, appliances assembly and hospital
Power Moller is factory lubricated for lifetime service, ensuring clean structure, thus is useful for those industries where cleanliness is critical.



Nuclear plant and heavy load handling
Power Moller's space saving feature is useful for creating floor conveyor line, and its no maintenance feature is useful for the place like nuclear plant where human access is prohibited.



Other unique applications
Aircraft baggage handling, checkweigher and advertising poster scroll systems.



Global distribution network

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