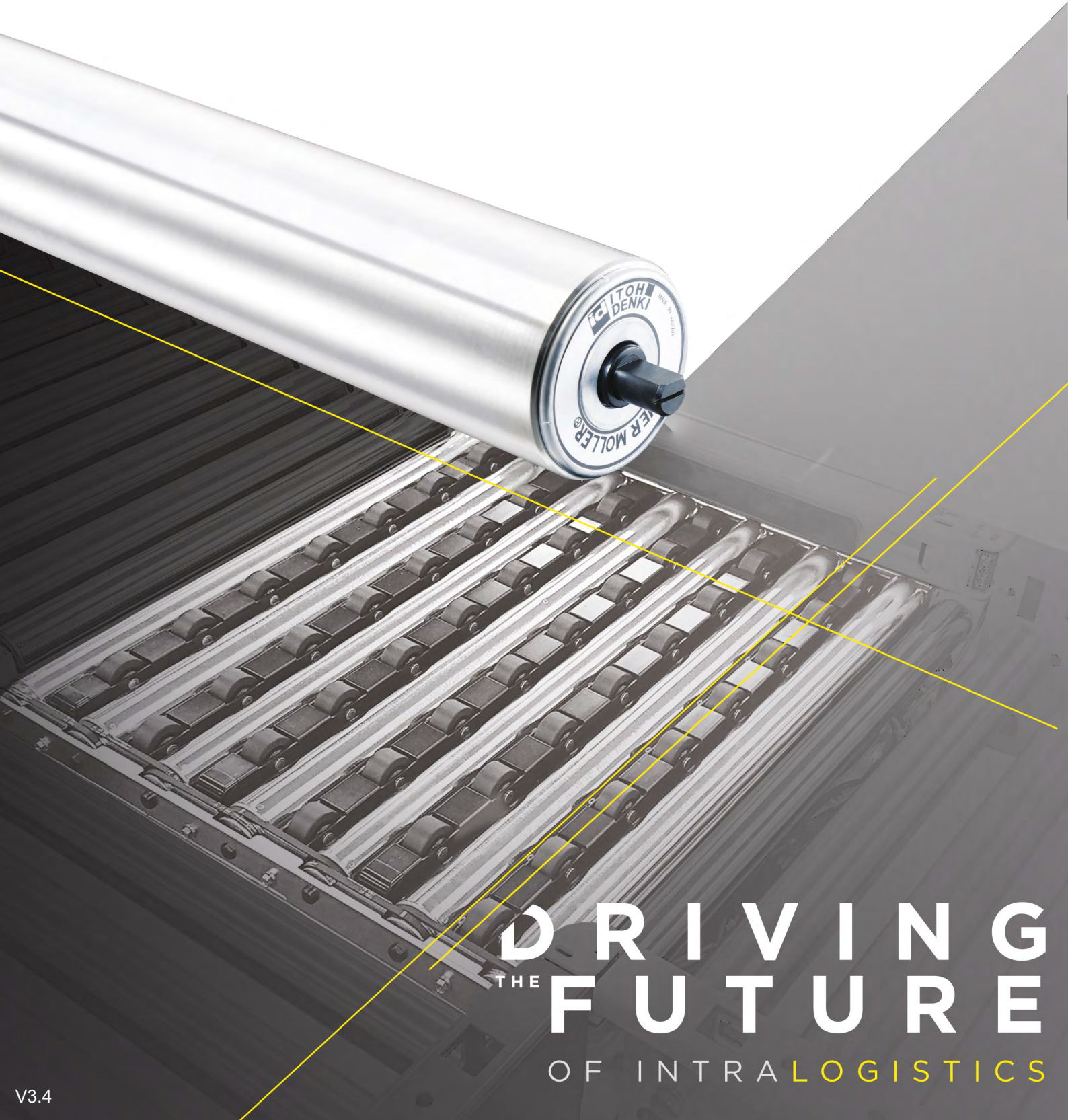




24 VDC MOTORIZED  
ROLLER SOLUTIONS  
FOR EFFICIENT CONVEYORS



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.



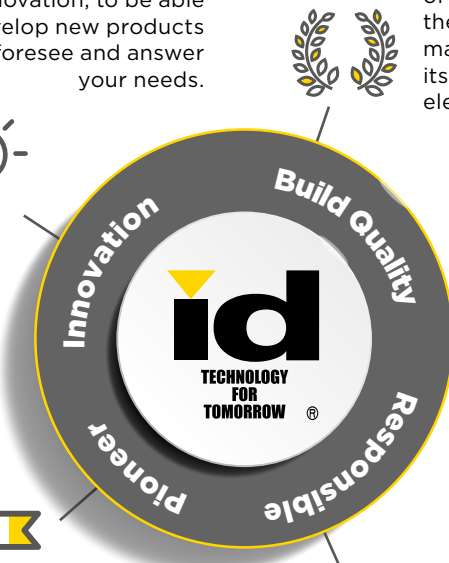
**Established in 1946**



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.

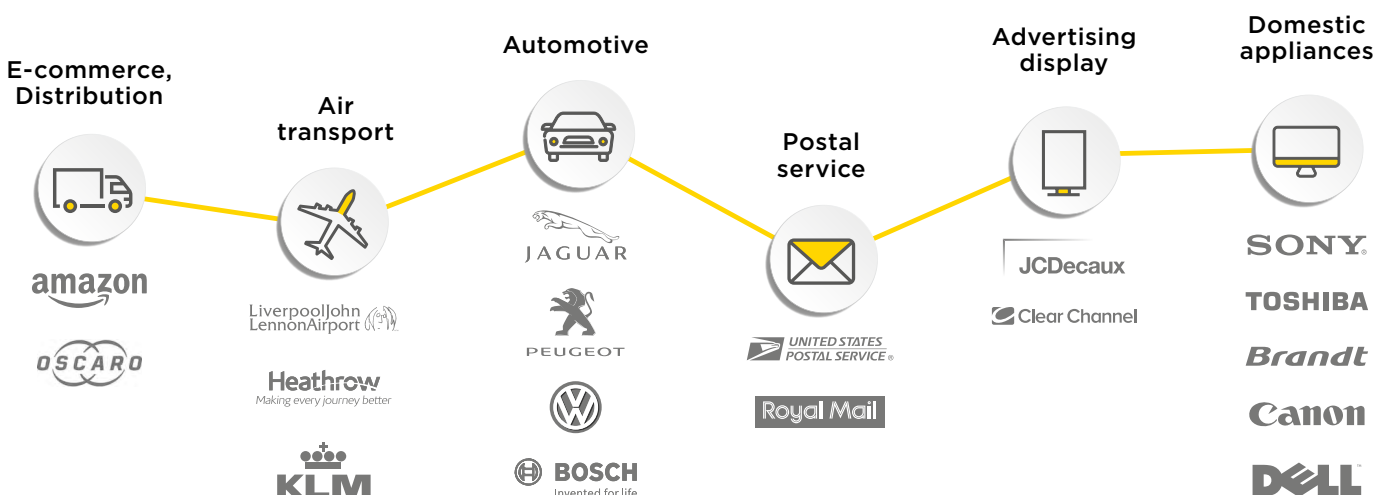
## Environmental awareness

ITOH DENKI is an environmentally conscious company with ISO 14001 certification. Our products are low energy consumption, clean and recyclable.



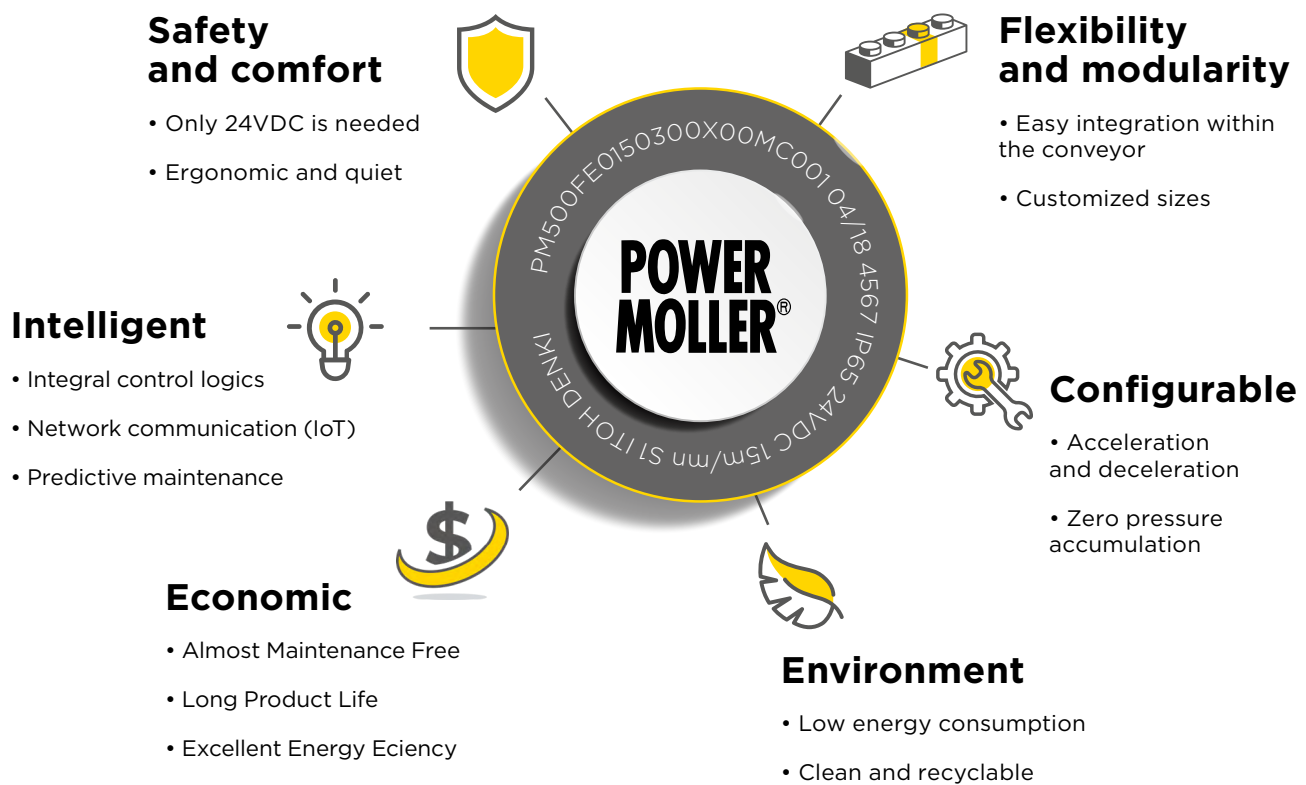
## Our products in use

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

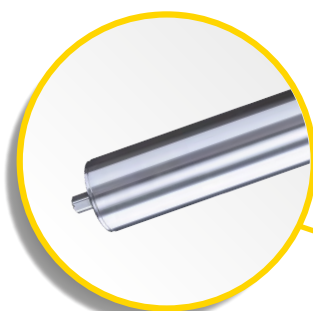


# Power Moller solutions

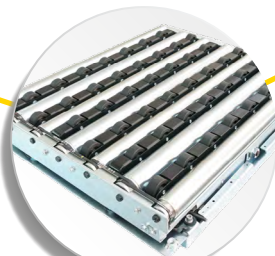
Complex challenges made easy with Itoh Denki Power Moller solutions. Innovation, modularity and security are the main features of ITOH DENKI products, enabling customers to create cutting edge logistics technology.



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



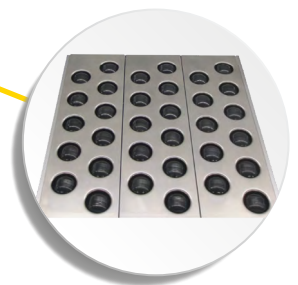
MDR motorized rollers



Horizontal transfer



Vertical transfer



Multidirectional sorter

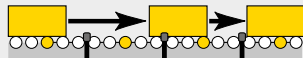


# Our technology in one conveyor

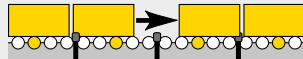
With ITOH DENKI's autonomous decentralized controls, without using a PLC, you can switch between **4 different operation modes** according to your needs.



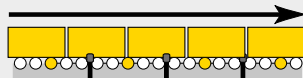
- 1 ZPA (Zero Pressure Accumulation) transfer control**  
Prevents tote collision and impact damage.



- 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.



**VSS (Vertical Sorting System)**  
Achieving a 3-dimensional buffer, merge and divert



**SOG (Slide Open Gate)**  
Retractable conveyor section



**Flat-Right Angle Transfer NX75**  
90° Transfer



**MABS multi angle ball sorter**  
Scalable design



**Motorized Drive Roller PM500VE**

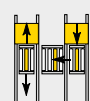


**Profinet / Ethernet Applicable Controller**  
IB-P IB-E

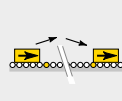


**idPAC**  
POINT AND CLICK  
demonstration modules

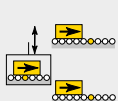
## MULTIPLE APPLICATIONS



90° transfer



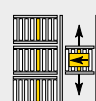
Acceleration / Deceleration



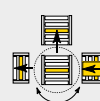
Lift



Bifurcation / Merge



Cross transfer



Turn table



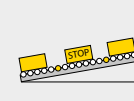
Multidirectional transfer



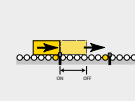
30°/45° transfer



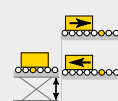
Curve



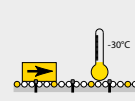
Position holding



Length measurement



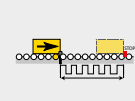
Lifting table



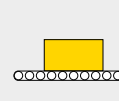
Cold room



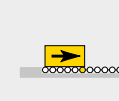
Jogging



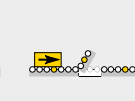
Stopping distance



Belt conveyor



Floor conveyor



Gate





## IdPAC, THE ULTIMATE CONVEYOR SOLUTION READY TO INSTALL

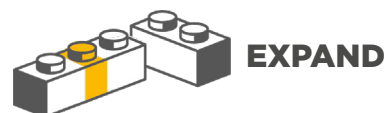
Powered by industry leading 24V DC Motorized Roller solutions from Itoh Denki, now adding total user-friendliness.

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](http://www.itoh-denki.com)





















# ITOH DENKI logistics solutions

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
	 	FE-B	CB-016B	HB-510B
Standard	 			
	With mechanical brake			
	 	VE	CBV-108	HBV-609
	 			PROFI NET IB-P01 IB-P03
Heavy	 	KT	CBK-109	HBK-608
	 	KT-B	CBK-109B	IB-E04 IB-P02
	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

PEPPER+FUCHS  
SENSING YOUR NEEDS

### MODULES

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

#### 45° transfer

Compact pop up diverter  
(Version 45 ° and 30 °)

##### POP-UP



#### 90° transfer

Ability to move product in 4 different directions

##### FRAT-NX75



##### FRAT-S



#### Multi angle diverter

for high capacity, smooth transfers

##### MABS



NEW

### 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





# ITOH DENKI worldwide



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P.A.E les Jourdiés  
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66005 Saarbrücken  
Germany

## TECHNICAL CENTER



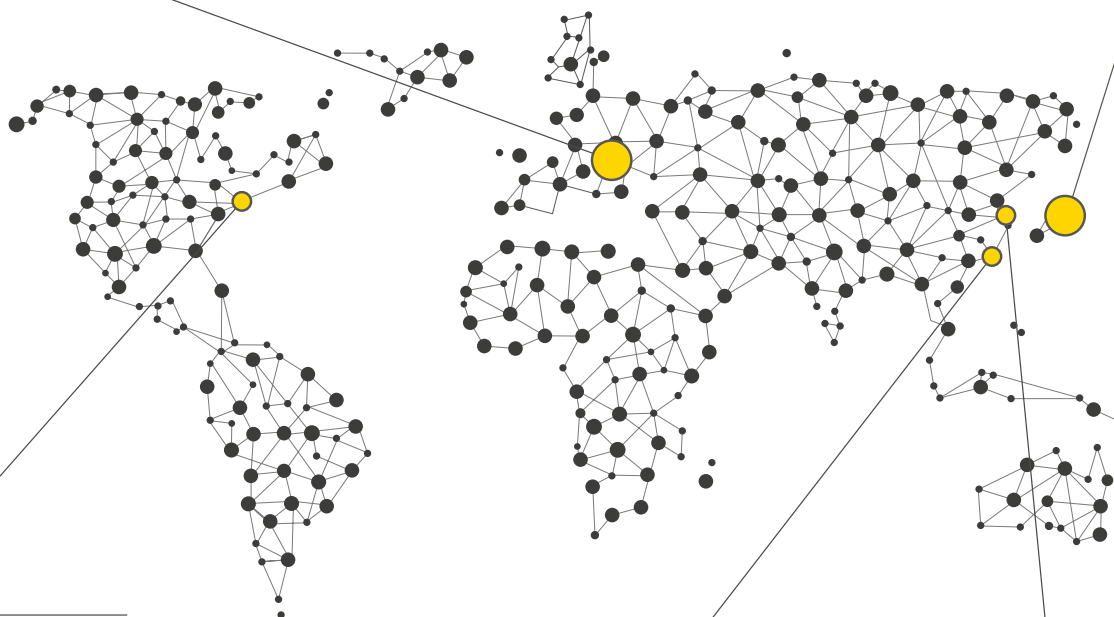
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1046AR Amsterdam  
Netherlands



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**Novi Technical Center**  
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