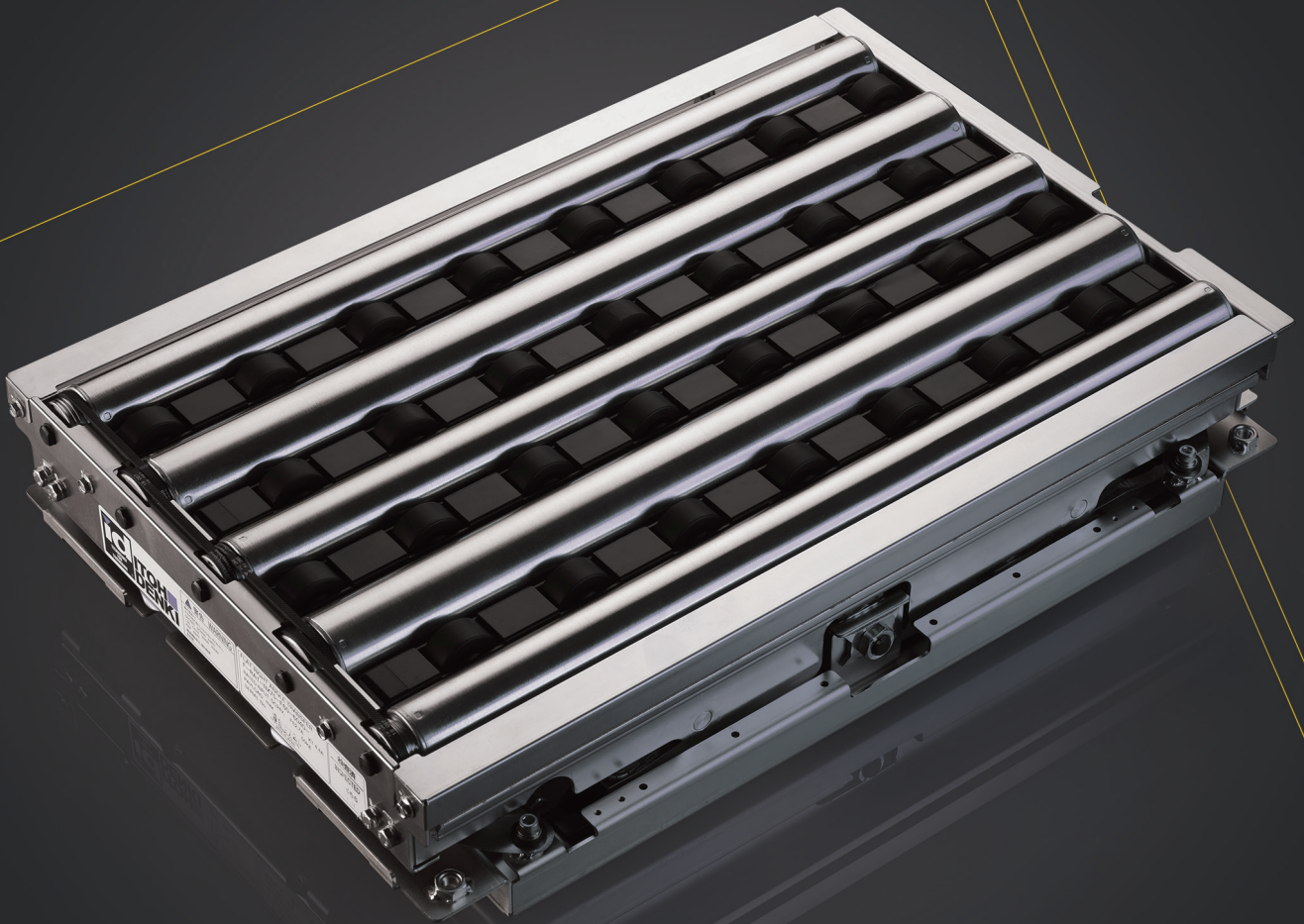


# F-RAT NX

90° Multidirectional Flat Transfer

**High performance module**  
**for smooth and fast sortation**  
**on your conveyor lines**



A 24VDC POWER  
MOLLER **SOLUTION**



With the **new F-RAT NX**, ITOH DENKI introduces a **high performance Right Angle Transfer Unit**, allowing high throughput flawless 90° transfers. Entirely powered by 24VDC brushless motors, providing **high safety standard and low maintenance**.

A groundbreaking patented flat transfer technology for advanced automation and IoT within your conveyor systems.



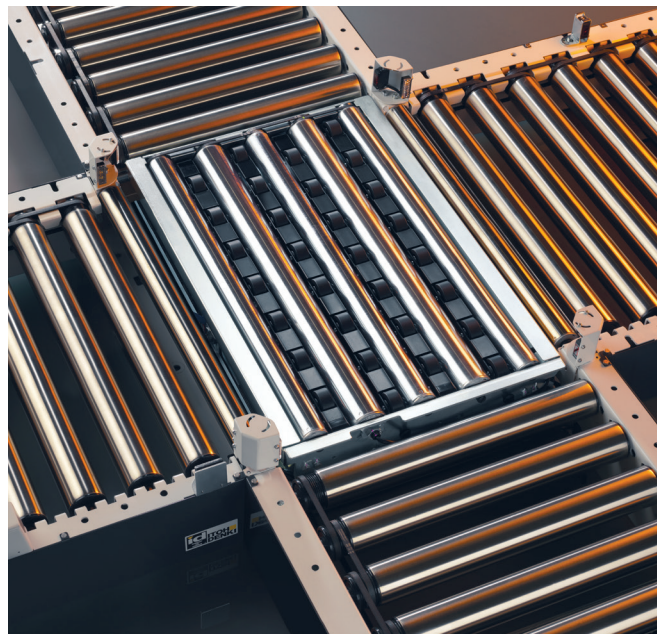
## Multidirectional Flat Transfer

### TRANSFER WITHOUT CHANGING LEVELS



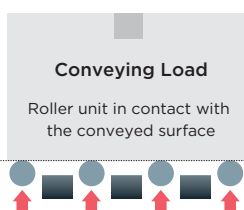
Transferring without changing levels optimizes time and therefore increases productivity. Our technology allows:

- 1 Smooth & secure transfer:**  
no lifting and no vibrations.  
Fragile loads are safely transferred.
- 2 High throughput:** Boost your sorting efficiency with a transfer rate of up to 2,250 totes handled per hour (at a 50% transfer rate).
- 3 Up to 4 reversible entries and exits,**  
with the possibility of quick reassignments. It is possible to combine several F-RATs for advanced sorting or sequencing systems.



#### SEQUENCE 1 - Receiving product (straight transfer)

Roller unit is conveying



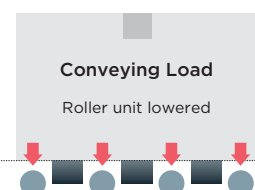
#### SEQUENCE 2 - Direction change

Conveying Load  
Carrier wheel unit in contact with the conveyed surface



#### SEQUENCE 3 - Right Angle Transfer

Right Angle Transfer by Carrier wheel unit







# Convey a great variety of loads



Thanks to its exclusive caster wheel and roller driving, the F-RAT NX can transfer loads of various **sizes and types**, from plastic envelopes to large boxes up to 50kg.



It is therefore the ideal solution for automated high-speed sortation of mixed loads.



## Smart design

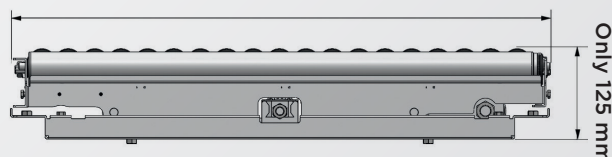
### Very compact design

- Easy integration into all conveyor frames.
- Large range of standard sizes.
- Full 24VDC powered, without pneumatics:
  - Low energy consumption.
  - Easy to install and operate.



### OVER 15 STANDARD SIZES

From 595 to 895 mm



Only 125 mm

Available from 595 to 895 mm



From 395 to 795 mm



## User safety

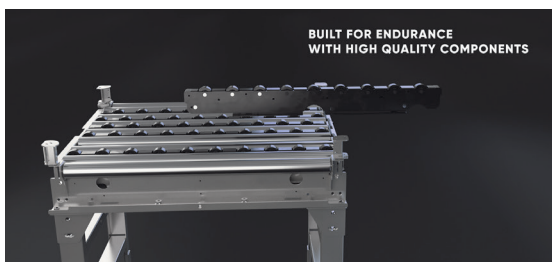
**F-RAT NX** has been designed to facilitate a **CE compliant** installation of the conveyor.

With spacing between moving parts lower than 5mm and with safe 24VDC power, it drastically reduces risks of injury for the operators.





# Easy maintenance



- Durable structure, with full metal rollers and enduring PU wheels.
- Quick replacement of key components with wheel caster cassettes, rollers and belts.

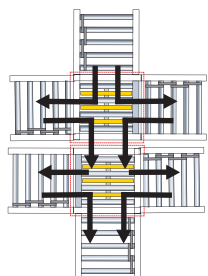
## ► Intelligent controls

On top of conventional usage with a PLC and simple driver card, we provide the possibility to control the F-RAT NX by Profinet and Ethernet/IP.

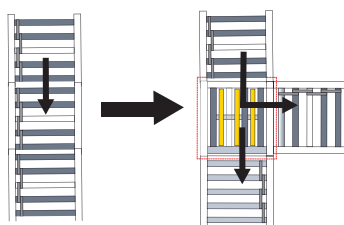


## ► Applications

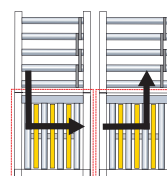
The F-RAT NX can be used in a great variety of applications and industries.



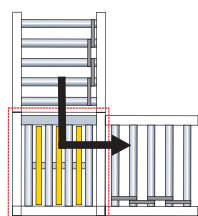
Buffer management



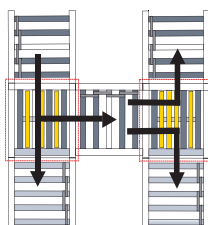
Renovation / Modification



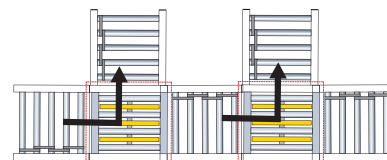
180° transfer



90° transfer



Free flow



Sorting

**ITOH DENKI EUROPE S.A.S.**

490, Avenue des Jourdiés - P.A.E. les Jourdiés  
74800 St-Pierre-en-Faucigny - France

Tel : +33 (0)4 50 03 09 99 - E-mail : [info@itoh-denki.com](mailto:info@itoh-denki.com)

