

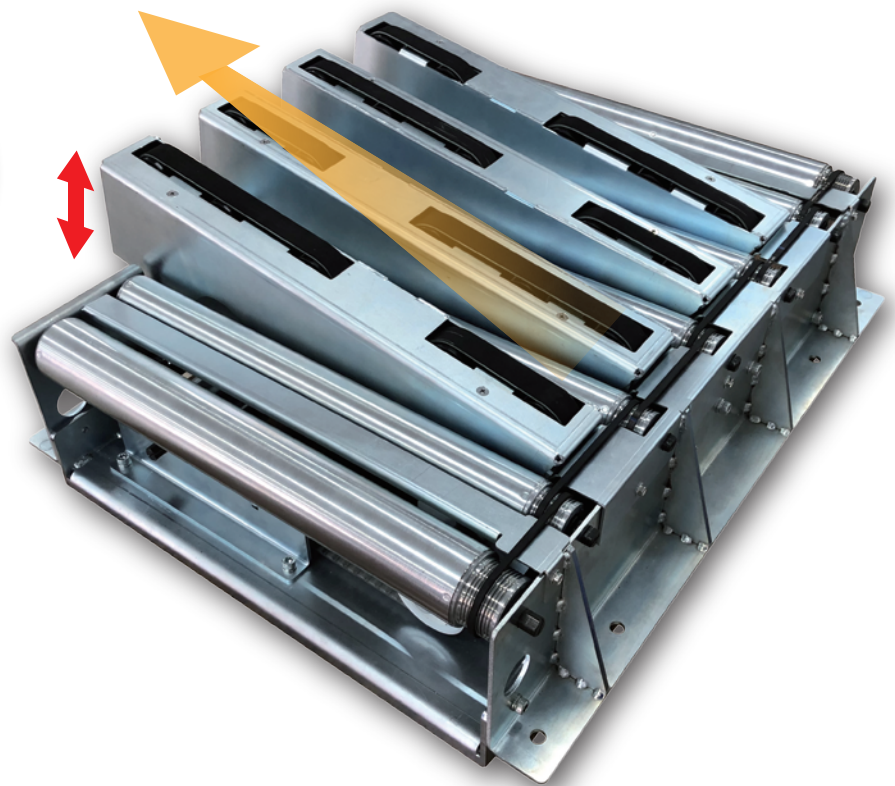


Tilt Right Angle Diverting Unit T-RAT-S

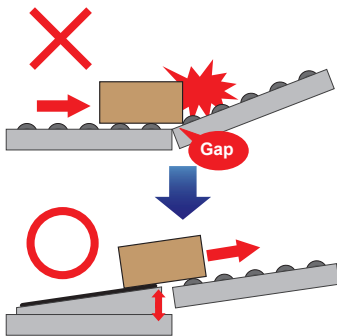
Flat-right angle transfer module combined to tilting or spiral conveyor

LSL Control (Limit Sensor Less)

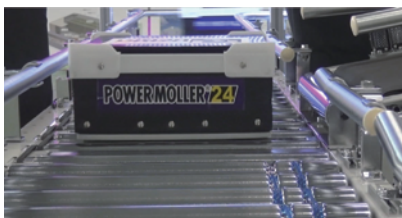
MDR and Itoh Denki's original technology realize lifting and positioning without limit sensor.



Smooth transfer



01. Carry in



02. Tilt up



03. Carry out



- Transfer products to the right angle without giving impact on products.
- Installable in a location where space restriction exists.

↓ Check here for video ↓



Model and Dimensions

Model : T - RAT - S - ① - ② ③ - ④ - V ⑤

(1) Tilt angle

070 ... 7.0°
085 ... 8.5°
100 ... 10.0°

(2) Horizontal (roller) transfer MDR nominal speed

60 ... Nominal speed of 60m/min type

(3) Input/output signal type

N ... NPN (driver card only for input and output)
P ... PNP (driver card only for input and output)

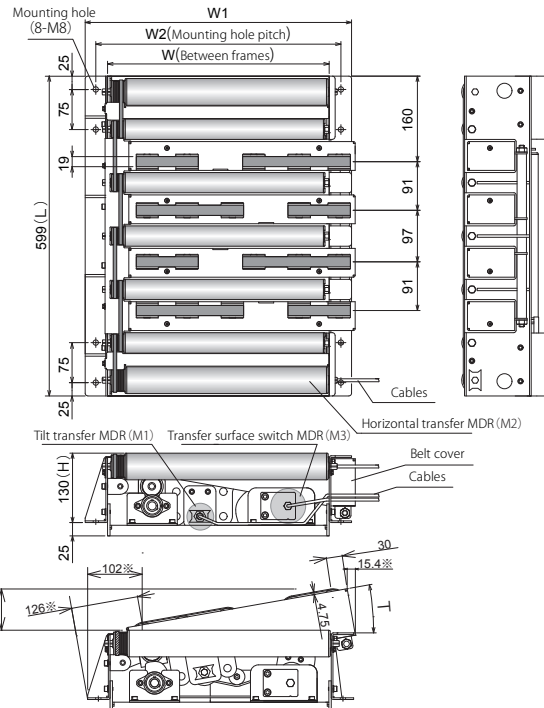
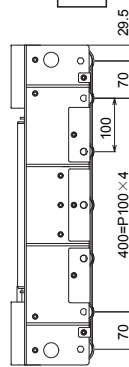
(4) Size

A ... L599mm×W499mm (415mm wide between frames)
B ... L599mm×W599mm (515mm wide between frames)
C ... L599mm×W699mm (615mm wide between frames)

(5) Version

1

W : Width between frames	415mm	515mm	615mm
W1 : Unit width	499mm	599mm	699mm
W2 : Mounting hole pitch	459mm	559mm	659mm
L : Unit length	599mm		
H : Mounting surface	130mm		
T : Tilt angle of transfer surface	7.0°、8.5°、10°		



※ The dimensions above are for Size A with tilt angle 10°.

Specifications

Tray

Maximum weight	30kg (20kg for W615)		
Material	Tray, cardboard, etc.		
Size	A	415mm ※	W300×L300 ~ W400×L600mm
	B	515mm ※	W300×L300 ~ W500×L600mm
	C	615mm ※	W300×L300 ~ W600×L600mm

※Between frames

- Values of the tray size and weight are reference only, since they may change depending on tray conditions.
- Depending on the bottom shape of trays, they may not be transferred normally, even if they are within the above size range.

Speed

Transfer speed	Roller	61.7 m/min (Nominal speed of: 60m/min type)
	Belt	17.4 m/min (Nominal speed of: 17m/min type)

Power supply

Voltage specifications	24V DC±10%
Rated current	2.7A

Installation environment

Ambient temperature	0 to 40°C (no freezing)
Ambient humidity	90%RH or less (no condensation)
Altitude	1,000m or less
Atmosphere	No corrosive gas
Vibration	0.5G or less
Installation location	Indoor
Mounting surface tilt (inclination)	0.5° or less
Degree of contamination	2 (according to the definition of IEC60640-1, UL840)

Driver card specifications

1. For transfer run (For horizontal transfer: 1 unit, for tilt transfer: 1 unit)

Model		CB-016 □6 (□=N: NPN, P: PNP)	
Power supply voltage		24V DC±10%	
Rated voltage		24V DC	
Static current		0.03A	
Starting current		4.0A	
Peak current		20A (1ms or less)	
Wire diameter	Power connector (CN1)	0.50 ~ 1.5mm ² (AWG : 20 ~ 14)	Note)
	Control connector (CN2)	0.08 ~ 0.5mm ² (AWG : 28 ~ 20)	Note)
Time from RUN signal input to motor starting		15msec or less	
Protective function		Incorrect wiring protection Built-in 6.3A fuse	
Thermal protection		Driver card 95℃ Motor 105℃	
Current limitation		4.0A	
Operating environment	Ambient temperature	0 to 40℃ (no freezing)	
	Ambient humidity	90%RH or less (no condensation)	
	Atmosphere	No corrosive gas	
	Vibration	0.5G or less	
Installation location		Indoor	

Note) Applicable wires to connectors included as standard

2. For switching the transfer surface x 1 unit

Model		HBM-201F□ (□=N:NPN, P:PNP)
Power supply voltage		24V DC±10%
Rated voltage		24V DC
Static current		0.06A
Starting current		3.7A ~4.4A
Peak current		20A (1ms or less)
Wire diameter	Power connector (CN1)	0.50 ~ 1.5mm ² Note) (AWG: 20 ~ 14)
	Control connector (CN2)	0.08 ~ 0.5mm ² Note) (AWG: 28 ~ 20)
Protective function		Incorrect wiring protection Built-in 7A fuse
Thermal protection		Driver card 85℃ Motor 110℃
Current limitation		4.0A
Operating environment	Ambient temperature	0 to 40℃ (no freezing)
	Ambient humidity	90%RH or less (no condensation)
	Atmosphere	No corrosive gas
	Vibration	0.5G or less
Installation location		Indoor

Note) Applicable wires to connectors included as standard



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