

System Tech

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Innovation to Revolution



Belting Solutions in Motion



ตัวแทนจำหน่ายอย่างเป็นทางการในประเทศไทย
Authorized Distributor in Thailand



System Tech

เราเป็นตัวแทนจำหน่าย Power Roller ของ ITOHDENKI และสายพานลำเลียง HABASIT อย่างเป็นทางการในประเทศไทย และเป็นสินค้าคุณภาพสูงอันดับต้น ๆ ของโลก

เราจึงมีความมั่นใจในการวางสเปค รุ่น และชนิดให้ตรงกับการใช้งานของลูกค้า ด้วยความชำนาญจากประสบการณ์ตรง และมีความเชี่ยวชาญในสายงานจากความเป็นวิศวกรจากสถาบันเทคโนโลยีพระจอมเกล้าในสาขา MHT เทคโนโลยีขนถ่ายวัสดุ (MHT 24) จึงทำให้ลูกค้าได้รับความไว้วางใจ คุ่มค่า คุ่มทุน ลดการ Shut Down line เพิ่มกำลังการผลิต ทำให้มีกำไรเพิ่มขึ้นอย่างมีนัยสำคัญ เราจึงมั่นใจว่า เราเป็นหุ้นส่วนทางธุรกิจที่จะช่วยแก้ปัญหากระบวนการทำงาน ในสายการผลิตโรงงานอุตสาหกรรมได้เป็นอย่างดี

อดีตที่ผ่านมา บริษัท ชิสเท็ม เทคโนโลยี จำกัด ก่อตั้งเมื่อปี พ.ศ. 2544 เพื่อประกอบธุรกิจการออกแบบผลิต รับสร้างเครื่องจักรตามแบบ จำหน่ายเครื่องจักร และระบบลำเลียง ตลอดระยะเวลาที่ผ่านมา 14 ปี ได้มีการพัฒนารูปแบบสายพานลำเลียง ระบบขนถ่ายลำเลียงวัสดุทุกประเภท (All type of Conveyor systems and materials handling) ระบบสายพานลำเลียง (Conveyor Belts) Modular & PVC Belt Conveyor, Slat Chain Conveyor, Top Chain Conveyor, Over Head Conveyor, Ball Roller, Free Roller, Power Roller, Mesh Belt

เพื่อให้ตรงตามความเหมาะสมของลักษณะการขนถ่ายที่มีประสิทธิภาพ ลดต้นทุนในการผลิต ประหยัดค่าใช้จ่ายในการบำรุงรักษา

เพราะเราคือพันธมิตรของคุณในการแก้ไขปัญหาทางธุรกิจ

YOUR PARTNER IN BUSINESS SOLUTION

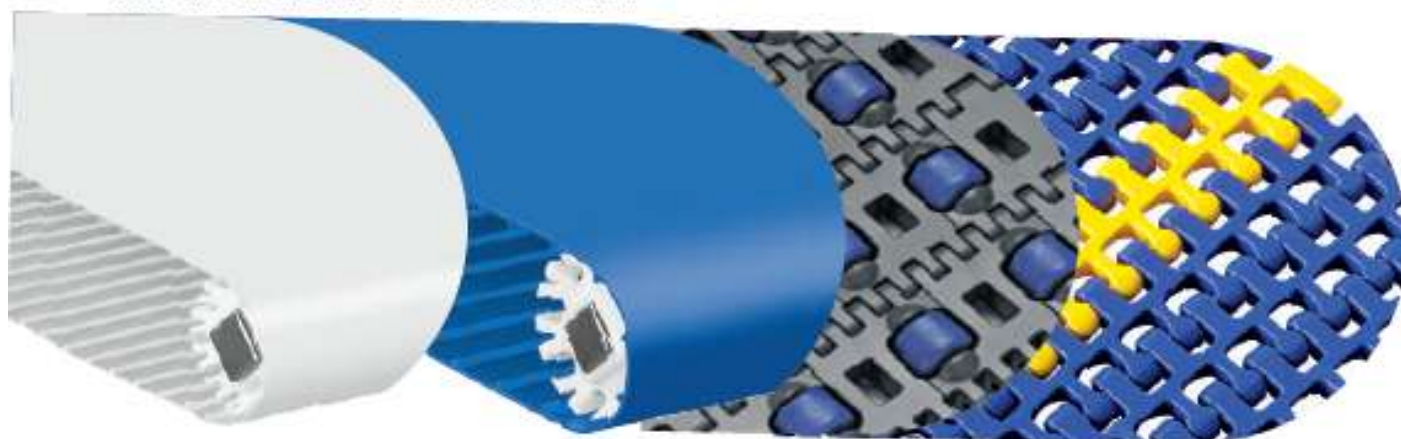
REFERENCE





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สายพานลำเลียง Habasit คุณภาพสูงจากประเทศสวิตเซอร์แลนด์ อาทิเช่น Fabric Belts, Timing Belts, Monolithic Belts, Plastic Modular Belts, Conveyor Chains, Wear Strips Guides, Accessories เรามีประสบการณ์ตรงในสายงานกว่า 22 ปี ในการวางสเปคสายพาน Plastic Modular Belts HABASIT ในโรงงานอุตสาหกรรมชั้นนำในประเทศเป็นรายแรกๆ ในประเทศไทยที่เราได้วางสเปคการใช้งานให้จนถึงปัจจุบัน เช่น มารีนโกลด์โปรดักส์ CPF TUF สยามแบตเตอรี่ สหฟาร์ม สุรพลฟู้ดส์ GFPT ฟาร์มแฮส เบทาโกร FBแบตเตอรี่ 3Kแบตเตอรี่ ฯลฯ



ITO DENKI System Tech

ITO DENKI เป็นผู้ผลิต Power Roller เจ้าแรกของโลกจากประเทศญี่ปุ่น คุณภาพสูงมีทั้งท่อเหล็ก ท่อสแตนเลส กระแสไฟ DC/AC กันน้ำ (IP66) กันฝุ่น (IP55) สำหรับอุณหภูมิต่ำ (-30C) ด้วยการออกแบบทำให้ประหยัดไฟได้ถึง 60% และด้วยมาตรฐาน JAPANESE QUALITY AND SERVICE, SHORT LEAD TIMES ทำให้เป็นที่ยอมรับในยุโรป อเมริกา และทั่วโลกอีกด้วย ตลอดระยะเวลาที่ผ่านมาบริษัทในประเทศไทยไว้วางใจใช้งานเช่น โรงงานยาสูบ กาแฟเขาช่อง ธนาคารกสิกรไทย เชียงใหม่เบฟเวอเรจ ฯลฯ





0.3" pitch belting



M0870
Micropitch Flat Top



M0873
Micropitch Non Slip



M0885
Micropitch Flush Grid



M0863
Cone Top



M0863
Cone Top MTW

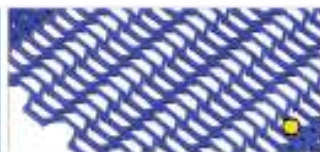


M0876
Diamond Top

0.5" pitch belting



M1065
Flat Top HyCLEAN



M1185
Flush Grid



M1220
Flat Top



M1220
GripTop



M1220
HighGrip-L



M1220
ActivXchange



M1230
Flush Grid



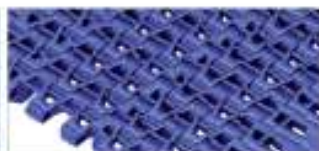
M1233
Flush Grid



M1234
Nub Top Flush Grid



M1280
Flush Grid



M1280
ActivXchange



SM605
Smooth Mesh

 Habasit Saniclip available



0.5" pitch belting

SM605
GripTopCM605
Curved MeshHDS605 FT
Flat TopHDS605 TT
Texture TopRS511
Tight Turn
Radius Flush GridRS515
Tight Turn
Radius Curved Top

0.75" pitch belting

106 FT
Flat Top106 10
Mesh Top 10% open106 22
Flush Grid 22% open106 RT
Rough Top106 V
Vacuum

1" pitch belting

M2420
Flat TopM2420
ActivXchangeM2423
Non SlipM2470
Flat Top



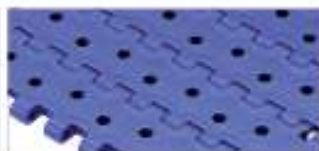
1" pitch belting



M2470
GripTop



M2470
ActivXchange



M2472
Perforated Flat Top



M2480
Flush Grid



M2480
ActivXchange



M2510
Flat Top



M2511
Mesh Top



M2514
Nub Top



M2516
Diamond Top



M2520
Flat Top



M2520
GripTop



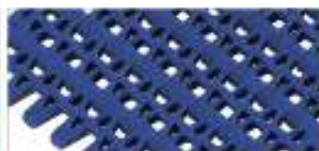
M2520
Roller Top



M2527
Minirib



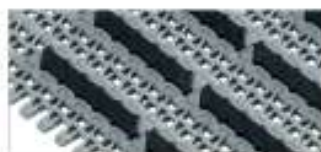
M2531
Raised Rib



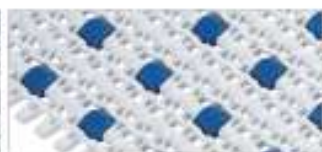
M2533
Flush Grid



M2533 MTW



M2533
GripTop



M2533
Roller Top



M2585
Flush Grid



M2586
Raised Rib



M2540
Radius Flush Grid



M2540
Radius Flush Grid MTW



M2540
Radius GripTop



M2540
Roller Top

Habasit Saniclip available



1" pitch belting



M2544
Tight Radius



M2544
Tight Radius MTW



M2544
Tight Radius GripTop



M2620
Flat Top Heavy Duty



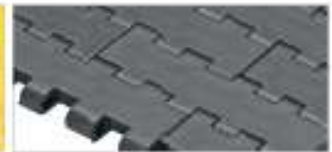
M2620
GripTop



M2620
Roller Top LBP



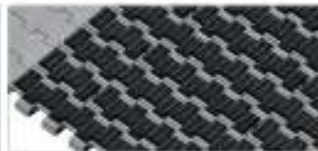
M2623
Non Slip



M2670
Flat Top Heavy Duty



M2670
FlatTop Heavy Duty MTW



M2670
GripTop



M2670
ActivXchange



M2791
Radius Flush Grid MTW



IS610 GT
GripTop



IS610-R
Radius Flush Grid



CT610-R
Radius Curved Top



ST610
Flat Top



VT610
Vented Top



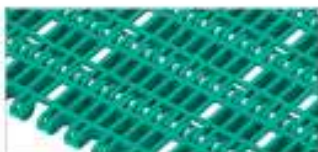
HDS610 FT
Flat Top



HDS610 CVT
Curved Vented Top



208 FT
Flat Top



208 35
Flush Grid 35% open



208 RR
Raised Rib



MB610
Heavy Duty Flat Top



MB610 MTW
Heavy Duty Flat Top



1.1" pitch belting



F51
0.5" x 1" Flat Wire



F52
Smart Fit 0.5" x 0.5"
Flat Wire



F53
Smart Fit 0.5" x 0.5"
Raised Rib Flat Wire



F54
1" x 1" Flat Wire

1.2" pitch belting



PR612 1.6
Tight Turn
Radius Flush Grid



PR612 2.2
Radius Flush Grid

1.3" pitch belting



M3398
Radius Flush Grid
Curved Top

1.5" pitch belting



M3840
Radius Flush Grid



M3840
Roller Top



M3843
Tight Radius



M3843
Tight Radius GripTop



1.5" pitch belting



M3892
Raised Deck



SP615
Flush Grid



IS615-R
Radius Flush Grid



ST615
Flat Top



VT615
Vented Top

1.75" pitch belting



CC41
Flat Top



CC42
Vented Top

2" pitch belting



M5010
Flat Top



M5010
Roller Top



M5011
Perforated Flat Top



M5013
Cone Top



M5014
Nub Top



M5015
Flat Top



M5015
GripTop



M5020
Flat Top Heavy Duty



2" pitch belting



M5020
GripTop



M5021
Perforated Flat Top



M5023
Non Slip



FF620
Fluid-Flo



FF620 WR
Fluid-Flo with Ribs



FF620 MC
Fluid-Flo with Mini-Cleat



MB620 FT
Flat Top



MB620 VT
Vented Top



MB620 TT
Tread Top



PR620
Spiral Pro



PR620 SPS
Spiral Pro Small
Product Surface



PR620 SPS CT
Spiral Pro Small Product
Surface Curved Top



PR620 TTR
Spiral Pro Tight Turn
Radius



M5032
Flush Grid Heavy Duty



M5032
Roller Top



M5033
Flush Grid



M5033
Roller Top



M5060
Flat Top



M5064
Nub Top



M5065
Flat Top HyCLEAN



2" pitch belting



M5067
Minirib



M5085



M5131
Raised Rib



M5182
Roller Top 90 °



M5290
Radius Flush Grid



M5293
Tight Radius



SP620
Flush Grid



SE620
Straight Edge Flush Grid



IS620-R
Radius Flush Grid



HDS620
Flat Top



HD SCT 620
Curved Top



HDSEZR620
Easy Release



HDSVT620
Vented Top



HDU620 FT
Flat Top



HDU620 VT
Vented Top



HDU620 CT
Curved Top



HDU620 EZR
Easy Release





2.2" pitch belting



M5482
Roller Top

2.5" pitch belting



M6360
Flat Top



M6420
Flat Top Heavy Duty



M6423
Non Slip



M6424
Non Slip Perforated



M6425
Reel Top MTW



Sprockets

- Flight modules are injection-molded one-piece designs that become an integral part of the belt when assembled. The flight prevents the product from slipping back while being moved upwards.
- Side guards positioned at the edges of the belt stop goods falling off. Details about standard and clip-on side guards can be found in the respective product data sheets.



Solid sprocket
Double row of teeth



Split sprocket
Double row of teeth



HyCLEAN sprocket
Double row of teeth



Lug type sprocket
Single teeth row

Flights, side guards and lane dividers



Flights



Curved flights



Scoops



Side guards



Lane dividers

Hold-down tabs, hold-down devices and finger transfer plates

- Hold-down tabs applied in radius belts are used to prevent the belt from lifting in the curve sections.
- Hold-down devices are used in Z-conveyors (swan-neck) to avoid belt buckling in the back-bending section.
- Finger transfer plates (combs) are installed at the belt ends of a raised rib belt. The fingers extend between the ribs of the belt for smooth product transfer.



Hold-down tabs



Hold-down devices
(reverse side)



Finger transfer plate

Habasit Saniclip



- The Habasit Saniclip is an innovative device for quick belt assembly and easy belt sanitation.
- Our Habasit Saniclip permits simple rod installation and removal in applications where frequent belt sanitation is required.
- Multiple Habasit Saniclips can be installed on a single belt to allow an easy opening at several locations.



Plastic modular belts are widely used in many industries, where their specific product features provide numerous benefits to our customers.

Habasit Saniclip



Key features

- Extracted and reinstalled directly by line operators (no tool required)
- Robust
- Available in yellow color
- Multiple Saniclips can be installed along the belt length

Your benefits

- Quick belt opening and easy belt and conveyor sanitation
- Prevents the accidental loss of plug component
- Easy identification
- Easy opening at several locations

Micropitch



Key features

- Smallest belt pitch with rod distance 8 mm (0.3")
- Nosebar diameter 6 mm (0.24")

Your benefits

- Smallest longitudinal transfer between two conveyors
- Perfect for small footprint products

Flat Top



Key features

- Up to 24" wide single modules available
- Dynamic open hinge
- Strong link design
- Broad range of accessories

Your benefits

- Less soiling and waste
- Robust, reliable performance
- Less link breakage
- No trap for debris, easy to clean
- Reduced downtime



GripTop



Key features

- Soft GripTop surface
- Positively linked to module
- Available for straight and radius belts

Your benefits

- For steep inclined and declined applications
- Abrasion resistant, long belt life
- Straight and radius sections with one drive

Non Slip



Key features

- Non slip surface
- Strong and stiff belt design
- Antistatic material

Your benefits

- Safety platform for workers
- Long belts with low speed variation
- No electrical charge up

Nub Top



Key features

- Solid plate with nub top structure
- Dynamic open hinge
- Strong link design

Your benefits

- Easy release = limited soiling and waste
- Robust, reliable performance
- Good grip and exact product positioning

Radius Flush Grid



Key features

- Suitable for straight and radius applications
- Open area
- Open hinge

Your benefits

- Straight and radius sections with one drive
- Excellent for cooling and draining
- Easy to clean



Flush Grid



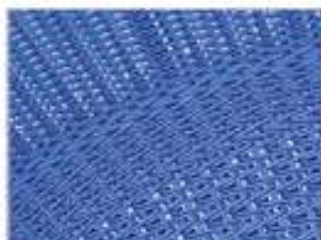
Key features

- Large open area
- High temperature materials

Your benefits

- For increased air or fluid flow
- Fast product cooling
- For high temperature applications up to 240°C (464°F)

Spiral Pro



Key features

- Suitable for spiral application
- Open area
- Open hinge

Your benefits

- For spiral systems with long belts up to 1,000 m (3,000 ft)
- For increased air flow
- Easy to clean

Roller Top



Key features

- Large and robust roller in belt
- Rollers in 15° step orientation
- Small roller pattern

Your benefits

- For heavy duty transports
- For transversal loading and discharging
- For accumulation or move product to edge
- For small footprint products

Food processing challenges



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Working towards reduced Total Cost of Ownership

Cost effective operations depend on striking the right balance of product output and yield, and an uninterrupted running of the line. Unplanned downtime due to belt failure, extended cleaning time caused by belt damage or frequent machine stops for belt replacements have a substantial impact on overall productivity.

Designed for enhanced hygiene performance

Food safety remains the key concern for food processing and packaging industry. Recalls due to foreign body or bacterial contamination are costly, damaging the reputation and trust of consumers in brands. The industry puts a high priority on adequate hygiene protocols and invests in solutions which prevent unnecessary incidents impacting food safety.

Habasit Premium TPU Food Belts offer improved cost of ownership and enhanced food safety addressing the challenges arising from the demands of production environment.



Challenge	Habasit Premium TPU performance	
	Improved Operational Efficiency	Better Food Safety
Continued operation at elevated temperatures	- Suitable for continuous operations at belt temperatures up to 110°C/230°F. - Lower risk of joint damage and extended belt lifetime result in fewer stops for belt replacement	- No delamination caused by high operating temperatures - Suitable for cleaning with steam – reduced belt ageing caused by high temperatures
Reducing the risk of foreign object contamination	Prayless fabric eliminates the need of edge sealing to reduce belt edge damage	Combination of spun fabrics and knitwear limits the risk of long fibers tearing, which could get into the product
Moist and oily production environment impacting belt performance	Increased resistance to hydrolysis and stable chemical resistance reduce the belt degradation caused by water and influence of frequent cleaning	Innovative impregnation prevents the ingress of water and oils into the belt fabric improving hygiene and inhibiting microbial and biofilm growth which could cause food safety risk
Avoiding product waste and improving yield	- With good release properties the loss of product leading to yield waste is limited - Through combination of longitudinal flexibility and lateral stiffness the belts are designed for tight transfer (nosebar suitable) of small or fragile goods	Reduction in food residue on the belt resulting from release improves food safety preventing microbial growth

Habasit Premium TPU range



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Habasit Premium TPU range

The new TPU Food Belt range includes as first package 8 two-ply designs in four surface structures, which give an added flexibility to food and packaging processors to select the best suited belts for the application requirements.

Belt	Features	
Smooth – matt		
	FNB-SEZWH-P1	• good mechanical resistance • excellent performance in frequently cleaned areas • suitable for lines equipped with food scrapers • good product release • suitable for high-speed operations
	FNB-SEZCH-P1	
Smooth – glossy		
	FAB-SEZWH-P1	• good mechanical resistance • excellent performance in frequently cleaned areas • suitable for lines equipped with food scrapers • good product adherence • suitable for incline and decline conveying • Improves precise positioning of dry or semi-dry product
	FAB-SEZCH-P1	
Structured		
	FMW-6EZWH-P1	• good grip and release properties • recommended for incline and decline conveying • prevents vacuum effect
	FMW-6EZCH-P1	
Impregnated		
	FNI-SBWH-P1*	• low coefficient of friction, good push-off • recommended for product accumulation • ideal for applications requiring precise positioning of product
Open Fabric		
	FNT-SMRWH-P1*	• good dough release • recommended for dry, moist and oily environment • prevents product damage in raw state

* to serve target applications best this belt does not feature frayless fabrics and low-wicking impregnation

The advanced design of Habasit Cleandrive™ friction drive conveyor belts meets customers' most complex process requirements, while also providing stringent hygiene and high cost-efficiency.

Increased processing yield

Habasit Cleandrive™ friction drive conveyor belts with their flexible yet strong construction cater for the smallest possible pulley diameters, thus minimizing product damage and product loss in transfer situations, and improving processing yield.



Narrow transfers possible

Habasit Cleandrive™ friction drive monolithic conveyor belts are the right choice when the food processing application requires maximum hygiene and/or easy transfer of products.

Product Range Overview – Friction drive belts

CD FD3

Colors: cobalt blue and white

Surface: smooth

Min. diameter = 30 mm / 1.18"

Surface: waffle

Min. diameter = 35 mm / 1.38"

Hygienic alternative
to coated fabric belts



CD FD2

Colors: cobalt blue and white

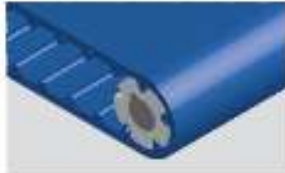
Surface: smooth

Min. diameter = 25 mm / 0.98"

Ideal for narrow transfers



Habasit Cleandrive™ positive drive aramid reinforced monolithic conveyor belts deliver significant advantages for wet and dry applications in the food processing industry.



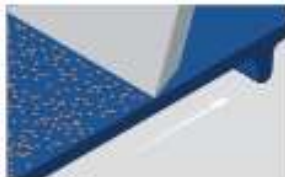
Easy conveyor construction, installation and retrofit

Habasit Cleandrive™ belts reduce the amount of design work needed when building a conveyor. Their zero-tension belt design eliminates the need for special active sprocket engagement, which reduces complexity and cost, and extends belt lifetime due to less abrasion.



Aramid reinforced design

Aramid cords guarantee reliable sprocket engagement and dimensional stability without the risk of fraying.



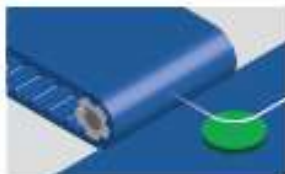
Scraper friendly

Our proprietary manufacturing process allows us to produce Habasit Cleandrive™ belts with a completely even surface, free of depressions and sink marks. This facilitates a very scraper-friendly solution, as all residual products can be safely removed by a scraper, which maximizes yield, reduces the risk of cross-contamination, and makes the belt easier to clean.



Hygienic design

Hygienic design plays an increasingly important role in food-safe production. Smooth, rounded shapes make it easy to remove foodstuff residues – even from the backside of the belt.



Narrow transfers

Flexible and strong construction allows the smallest possible pulley diameters, thus minimizing product damage and loss in transfer situations.



Product range overview – Positive drive belts

CD M50

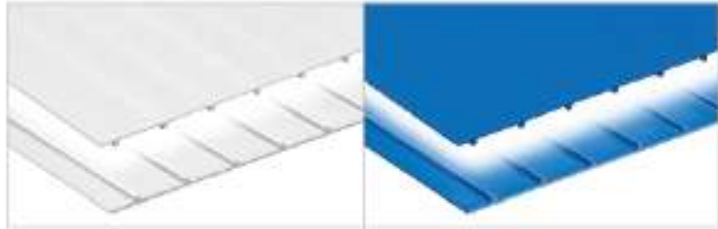
Colors: cobalt blue and white

Surface: smooth

Min. pitch diameter = 80.8 mm / 3.20"

All-purpose conveying

Smallest 2" drive pulley on the market



CD M25

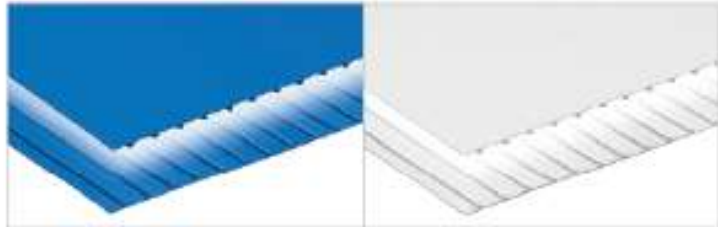
Colors: cobalt blue and white

Surface: smooth

Min. pitch diameter = 60.1 mm / 2.37"

Compact installations

Narrow transfers



CD H5

Colors: cobalt blue and white

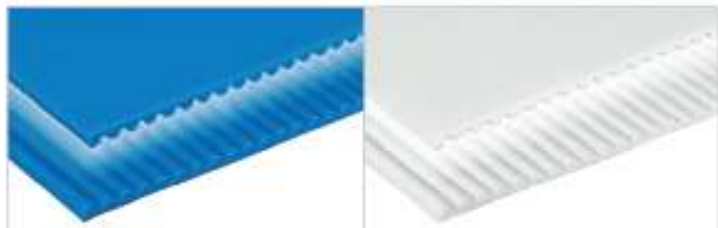
Surface: smooth

Min. pitch diameter = 60.1 mm / 2.37"

Min. pulley diameter = 20 mm / 0.8"

Compact installations

Narrow transfers





The use of options and modifications to Cleandrive™ belts can enhance the possibilities in your applications. Options such as flights, sidewalls, guiding profiles and different machining sources can optimize the product and improve the usage.

Standard and customized flights

A variety of standard flight solutions can be found in the chapter "Profiles" (page 10). Depending on the application and product shape, customized flights can be cut out of flat flight material according to your drawings. Customized flights can help to support or convey products.

Flight gussets

In order to support flights in heavy duty applications, gussets can be applied to the back side of flights.



**Standard and customized sidewalls**

Sidewalls can be added in different height and thickness.
For technical information, see chapter "Sidewalls" (page 12).
Customized sidewalls help to optimize the belt features to specific application needs.

Grinding guiding slots (grooves) for supports or profiles

In positive drive Habasit Cleandrive™ belts, slots can be grinded through the drive bars in running direction for different purposes, such as better belt tracking. In addition, profiles can be welded into the slots for guiding purpose as well. The edge sections of the drive bars can be grinded away to close gaps at the belt edge and to guide the belt.

Cutting flush holes

For applications in wet surrounding the belt can be produced with machined holes in order to flush water away in front of flights or throughout the whole belt.
Note: Holes can only be cut between the cords.





TPU Flat

		
Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrol. Resist.	*	*
Thickness [mm]	Product name	
1.3		E-FB13-HW-C100
2.2		E-FB22-HW-C100
5.0	E-FB50-HC-C25	E-FB50-HW-C50



E-PN Narrow

		
Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrol. Resist.	*	*
Height [mm]	Product name	
30	E-PN30-HC-B100	E-PN30-HW-B100
80	E-PN80-HC-B43	E-PN80-HW-B43



E-PQ Rectangular

		
Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrol. Resist.	*	*
Height [mm]	Product name	
8	E-PQ08-GC-B300	E-PQ08-GW-B300
12	E-PQ12-GC-B150	E-PQ12-GW-B150
18	E-PQ18-GC-B150	E-PQ18-GW-B150



E-PS Scoops

		
Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrol. Resist.	*	*
Height [mm]	Product name	
75 (3")	E-PS03-HC-B144	E-PS03-HW-B144
100 (4")	E-PS04-HC-B144	E-PS04-HW-B144
150 (6")	E-PS06-HC-B72	E-PS06-HW-B72

Belt accessories – Tracking guides



System Tech

Tracking guides are placed on the running side of conveyor belts. This provides true belt tracking in applications where long narrow belts are used for conveying products.

Tracking guides are also common where products are side loaded, which could otherwise cause a lateral shift in the belt's direction of travel.

The tracking guides can be notched or deep notched to provide maximum flexibility around the pulleys.



E-PV - Standard

		
Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrof. Resist.	*	*
Thickness [mm]	Product name	
6	E-PV06-GC-C300	E-PV06-GW-C300
8	E-PV08-GC-C200	E-PV08-GW-C200
10	E-PV10-GC-C200	E-PV10-GW-C200
13	E-PV13-GC-C100	E-PV13-GW-C100



E-PV+N - Notched

		
Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrof. Resist.	*	*
Thickness [mm]	Product name	
6	E-PV06-GC-C300+N	E-PV06-GW-C300+N



E-PV+NN - Deep notched

		
Material	TPU+	TPU+
Hardness	83ShA	83ShA
Color	Cobalt blue	White
Food grade	*	*
Hydrof. Resist.	*	*
Thickness [mm]	Product name	
8	E-PV08-GC-C200+NN	E-PV08-GW-C200+NN
10	E-PV10-GC-C200+NN	E-PV10-GW-C200+NN
13	E-PV13-GC-C100+NN	E-PV13-GW-C100+NN

Belt accessories – Sidewalls



System Tech

Habasit Habibord flexible and wear resistant corrugated sidewall profiles can be applied on TPU conveyors and processing belts.

Profiles are applied to the conveying side of a belt using a high-frequency welding process. Habibord can be used in a wide range of applications in order to contain bulk goods at the sides of conveyor belts. Pre-formed flat profiles can be cut down in height; the excellent flexibility of the polyurethane permits small pulley diameters.



E-PL Standard / E-FB

		
Material	TPU+	TPU+
Hardness	87ShA	87ShA
Color	Cobalt blue	White
Food grade	•	•
Hydroly. Resist.	•	•
Thickness [mm]	Product name	
1.3	E-PL13-HC-B40	E-PL13-HW-B40
2.2	E-FB22-HC-C100	E-FB22-HW-C100



The Habasit round belts range offers a wide selection of standard, Food grade and hydrolysis resistant sand-finish TPU belts, with a choice of different surface finishes and textile yarn reinforcement configurations.

Open end – standard

- Polycord® – Made in Switzerland
- Habicord – Optionally in rough, smooth and reinforced versions

Open end – Food grade

- Polywhite – Food grade and high wear resistance
- Habiblu® – Polyether TPU, hydrolysis resistant round belts

Molded – standard

- Habiring – Endless molded round belts



Applications:

Standard: textile, packaging, paper, ceramics and wood industries; live roller drives and linear conveyors

Hydrolysis resistant: bakery, meat and cheese processing

Brand	Polycord®	Habicord	Habiblu®	Polywhite
Material	TPU	TPU	TPU+	TPU
Hardness	87ShA	87ShA	87ShA	87ShA
Color	Green	Green	Cobalt blue	White
Surface	Sand-finish	Sand-finish	Sand-finish	Sand-finish
Food grade			*	*
Hydrolysis Resist.			*	
Ø [mm]	Product name			
3	E-RB03-KG	E-RB03-KG-C300	E-RB03-HC-C300	E-RB03-FW-C300
4	E-RB04-KG	E-RB04-KG-C250	E-RB04-HC-C250	E-RB04-FW-C250
5	E-RB05-KG	E-RB05-KG-C250	E-RB05-HC-C250	E-RB05-FW-C250
6	E-RB06-KG	E-RB06-KG-C250	E-RB06-HC-C250	E-RB06-FW-C250
7	E-RB07-KG	E-RB07-KG-C200		E-RB07-FW-C200
8	E-RB08-KG	E-RB08-KG-C200	E-RB08-HC-C200	E-RB08-FW-C200
10	E-RB10-KG	E-RB10-KG-C100	E-RB10-HC-C100	E-RB10-FW-C100
12	E-RB12-KG	E-RB12-KG-C100	E-RB12-HC-C100	E-RB12-FW-C100
15	E-RB15-KG	E-RB15-KG-C50		E-RB15-FW-C50
18		E-RB18-KG-C50		
20		E-RB20-KG-C50		



Brand	Rough Habicord	Smooth Habicord	Reinforced Habicord
Material	TPU	TPU	TPU
Hardness	87ShA	87ShA	87ShA
Color	Green	Green	Cobalt blue
Surface	Rough	Smooth	Sand-finish
Ø [mm]	Product name		
2	E-RB02-KG-C600+R		
3	E-RB03-KG-C300+R		
4	E-RB04-KG-C250+R		E-RR04-KC-C250
5	E-RB05-KG-C250+R	E-RB05-KG-C250+S	
6	E-RB06-KG-C250+R	E-RB06-KG-C250+S	E-RR06-KC-C250
w	E-RB08-KG-C200+R	E-RB08-KG-C200+S	
10		E-RB10-KG-C100+S	E-RR10-KC-C100
12	E-RB12-KG-C100+R	E-RB12-KG-C100+S	E-RR12-KC-C100
15	E-RB15-KG-C50+R		

Surface finishings



Smooth



Regular (Sand-finish)



Rough

Molded round belts



System Tech

Brand		Habirring			
					
Material		TPU	TPU	TPU	TPU
Hardness		87ShA	87ShA	87ShA	87ShA
Color		Cobalt blue	Green	Natural	Yellow
Ø [mm]	L [mm]	Product name			
2.0	118		M-RB2.0x118-KG-B1000		
	128		M-RB2.0x128-KG-B1000		
	147		M-RB2.0x147-KG-B1000		
2.5	78	M-RB2.5x78-KC-B1000	M-RB2.5x78-KG-B1000		M-RB2.5x78-KY-B1000
2.7	268	M-RB2.7x268-KC-B1000			M-RB2.7x268-KY-B1000
	307	M-RB2.7x307-KC-B1000			M-RB2.7x307-KY-B1000
3.0	140		M-RB3.0x140-KG-B1000		
	155		M-RB3.0x155-KG-B1000		
	175		M-RB3.0x175-KG-B1000	M-RB3.0x175-KN-B1000	
	245		M-RB3.0x245-KG-B1000		
3.2	133		M-RB3.2x133-KG-B1000		
3.5	207			M-RB3.5x207-KN-B1000	
4.0	112		M-RB4.0x112-KG-B1000		
	122		M-RB4.0x122-KG-B1000		
	258	M-RB4.0x258-KC-B1000			
5.0	123		M-RB5.0x123-KG-B1000		
	182		M-RB5.0x182-KG-B1000		
	196		M-RB5.0x196-KG-B1000		
6.0	95		M-RB6.0x95-KG-B1000		
	119		M-RB6.0x119-KG-B1000		
	130		M-RB6.0x130-KG-B1000		
	142		M-RB6.0x142-KG-B1000		
	200		M-RB6.0x200-KG-B1000		
6.5	445		M-RB6.5x445-KG-B1000		
7.0	119		M-RB7.0x119-KG-B1000		
	128		M-RB7.0x128-KG-B1000		
	130		M-RB7.0x130-KG-B1000		
	170		M-RB7.0x170-KG-B1000		
	173		M-RB7.0x173-KG-B1000		



V-belts are highly flexible V-shaped smooth TPU belts running over pulleys compliant with DIN2215. They are used in linear conveyors, especially in the ceramics and materials handling industries.

Features

- High abrasion and chemical resistance
- Easy to weld

Options

- Reinforced
- Grip top (with grip cover)
- Crested top
- Raised top



Type	Standard	Grip top	Reinforced	Reinforced + grip top
Material	TPU	TPU	TPU	TPU
Hardness	87ShA	87ShA	87ShA	87ShA
Color	Green	Green	Cobalt blue	Cobalt blue
Surface	Smooth	Smooth	Smooth	Smooth
DIN 2215 B [mm]	ISO 4184 equivalent	Product name		
10	Z	E-VT10-KG-C200	E-VT10-KG-C50+G	
13	A	E-VT13-KG-C100	E-VT13-KG-C50+G	E-VR13-KC-C100
17	B	E-VT17-KG-C50	E-VT17-KG-C50+G	E-VR17-KC-C50
22	C	E-VT22-KG-C50	E-VT22-KG-C50+G	E-VR22-KC-C50

Type	Crested	Crested + reinforced	Raised
Material	TPU	TPU	TPU
Hardness	87ShA	87ShA	87ShA
Color	Green	Cobalt blue	Green
Surface	Smooth	Smooth	Smooth
B [mm]	Product name		
10			E-VU10-KG-C100
13			E-VU13-KG-C100
17	E-MC17-KG-C100	E-VS17-KC-C50	E-VU17-KG-C50
22	E-MC22-KG-C30	E-VS22-KC-C50	

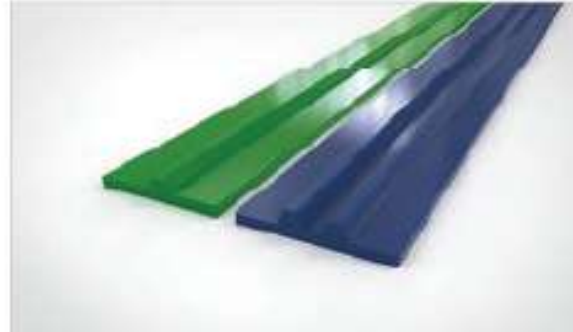
T-belts



System Tech

Habasit offers narrow flat belts with one or two tracking guides integrated on the running side, available in standard and Food grade smooth TPU.

Applications: linear conveyors and diverters



	Single T					
Material	TPU+	TPU+	TPU+	TPU+	TPU	TPU
Hardness	87ShA	87ShA	83ShA	83ShA	85ShA	85ShA
Color	Cobalt blue	White	Cobalt blue	White	Green	White
Surface	Smooth	Smooth	Smooth	Smooth	Smooth	Smooth
Food grade	*	*	*	*		
Hydrol Resist.	*	*	*	*		
B [mm]	Product name					
12			E-TT12-GC-C200	E-TT12-GW-C200		E-TT12-KW-C50
25	E-TT25-HC-C100	E-TT25-HW-C100			E-TT25-KG-C200	E-TT25-KW-C50

	Double T
Material	TPU+
Hardness	87ShA
Color	Cobalt blue
Surface	Smooth
Food grade	*
Hydrol Resist.	*
B [mm]	Product name
28	E-TT28-HC-C100



System Tech

24 VDC MOTORIZED
ROLLER SOLUTIONS
FOR EFFICIENT CONVEYORS



DRIVING
THE FUTURE
OF INTRALOGISTICS

Setting intralogistics

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



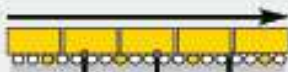
- 1 ZPA (Zero Pressure Accumulation) transfer control**
Prevents tote collision and impact damage.



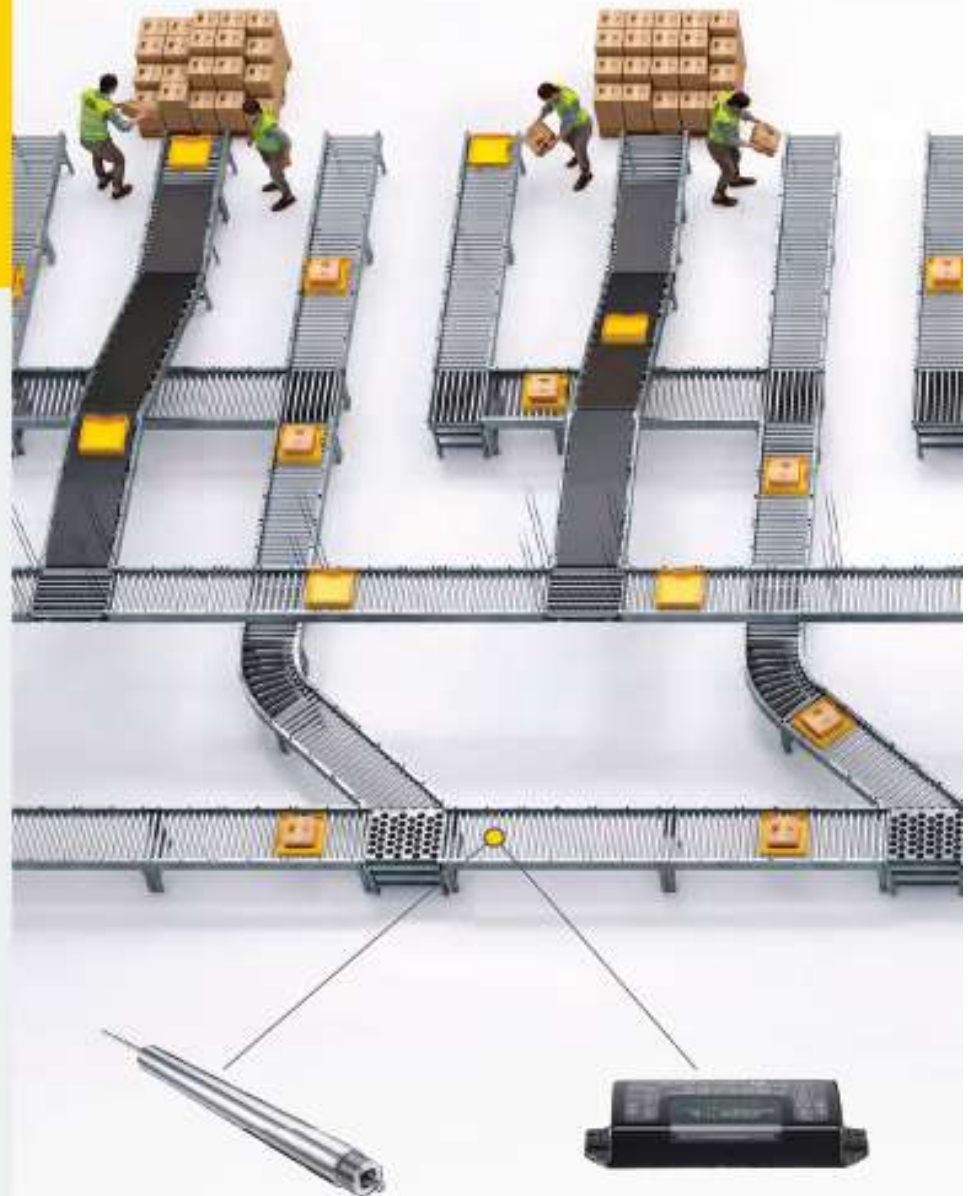
- 2 Auto gapping transfer control**
More throughput by catch-up transfer.



- 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

MULTIPLE APPLICATIONS



90° transfer



Acceleration/
Deceleration



Lift



Bifurcation /
Merge



Cross transfer



Turn table



Multidirectional
transfer



30°/45°
transfer



Curve

in motion



F-RAT NX
Flat diverts at 90°



MABS
High throughput, multidirectional sorter



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	IB-P01 IB-P05
Heavy	KT	CBK-109	HBK-608	Ethernet/IP IB-E04 IB-P02
	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
SECURE YOUR MESS

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



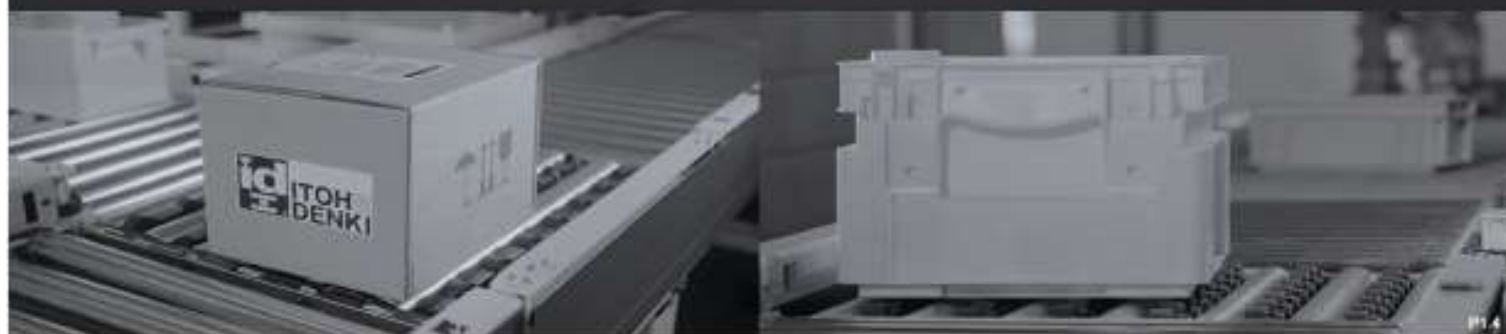
F-RAT NX

90° Multidirectional Flat Transfer

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



A 24VDC POWER
MOLLER **SOLUTION**





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.



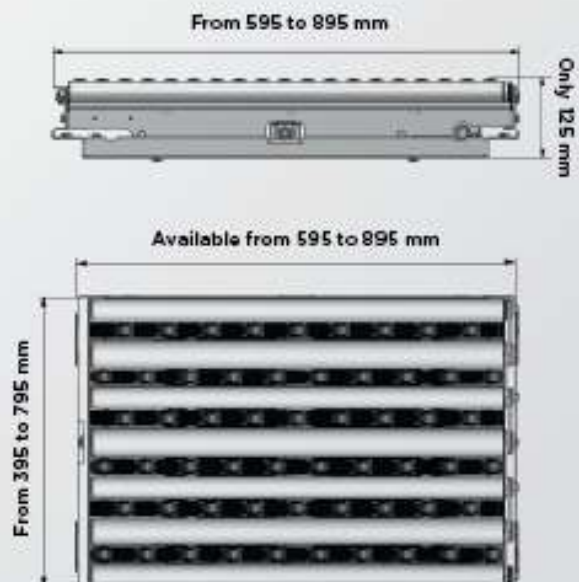
Smart design

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



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.



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.



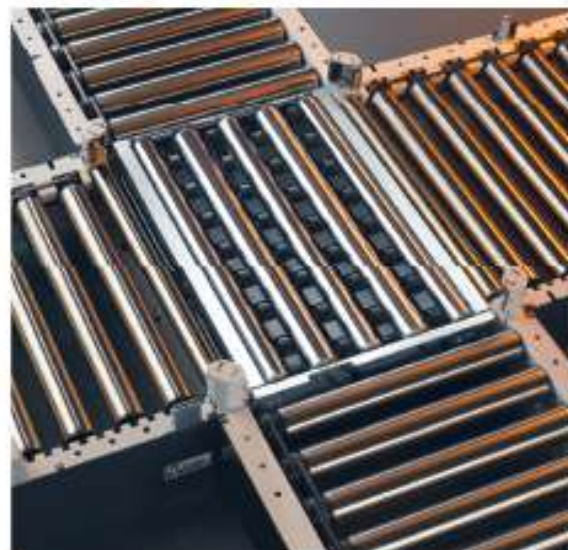
Multidirectional Flat Transfer

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





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.

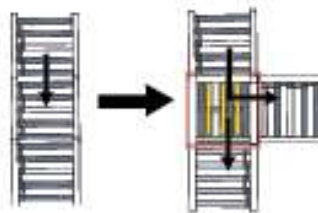


► Applications

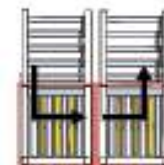
The F-RAT NX can be used in a great variety of applications and industries.



Buffer management



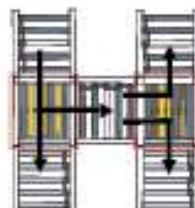
Renovation / Modification



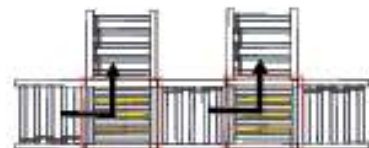
180° transfer



90° transfer



Free flow



Sorting

MRAT

medium-heavy load

90° diverter

Compact diverter module
for loads up to 250kg



A 24VDC POWER
MOLLER **SOLUTION**



The MRAT lateral diverter is designed to **smoothly divert unit loads up to 250kg**. With its compact cassette design, it can be **integrated in any type of new or repurposed conveyor frame**, with up to 3 exits.

Fully powered with **24Vdc without any pneumatics** to drastically simplify integration into a safe conveyor application and increase reliability while limiting needs for maintenance.



24Vdc powered without pneumatics

FACILITATE INTEGRATION AND RELIABILITY WITH LIMITED MAINTENANCE REQUIREMENTS

Full 24Vdc powered, without pneumatics:

- Low energy consumption.
- Easy to install and operate.



Divert loads up to 250kg

Smooth diverting of heavy products and out of range items in assembly lines and logistic processes.



Operates in low temperature up to -30°C*

*depending on conveyed load specification (type, weight...), please consult us.





Multidirectional Flat Transfer

TRANSFER WITHOUT CHANGING LEVELS

Smooth & secure transfer:
no lifting and no vibrations.
Fragile loads are safely transferred.

Up to 4 reversible entries and exits,
with the possibility of quick reassignments.
It is possible to combine several MRATs
for advanced sorting or sequencing systems.

SEQUENCE 1 - Receiving product (straight transfer)



SEQUENCE 2 - Direction change



SEQUENCE 3 - Right Angle Transfer



Compact design

Simple integration into any type of new or repurposed conveyor, even in multi-level layout.

- Easy integration into all conveyor frames.
- Available in 4 sizes.



User safety

MRAT has been designed to facilitate a **CE compliant** installation of the conveyor.

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





Easy maintenance



**ITOH
DENKI**

System Tech



- 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 MRAT by Profinet and Ethernet/IP.

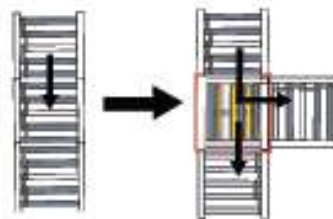


▶ Applications

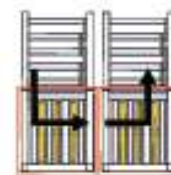
The MRAT can be used in a great variety of applications and industries.



Buffer management



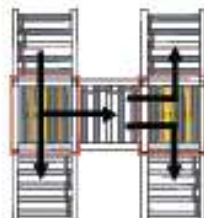
Renovation / Modification



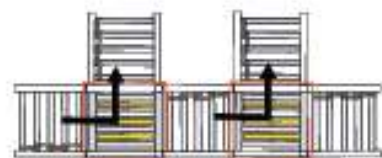
180° transfer



90° transfer



Free flow



Sorting

MABS

Multi Angle Ball Sorter

30° - 45° - 90° diverts
for high throughput
sortation



A 24VDC POWER
MOLLER **SOLUTION**



The MABS offers smooth diverts and **high throughputs**, for a **large range of applications**, with all the advantages of the POWER MOLLER 24VDC motor driven roller technology. With left and right configurable exits, it can **sort products at 30°, 45° or 90° and up to 4300 products/hour**.

Entirely driven by 24VDC motors, the MABS doesn't use any pneumatic system to operate, offering **easy and cost-efficient** integration and maintenance.

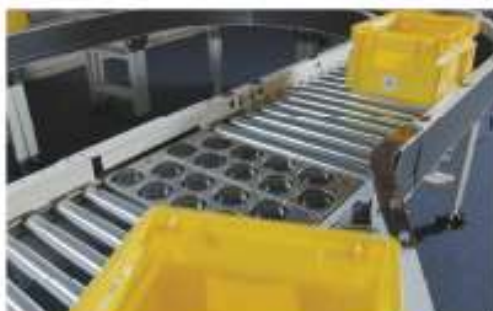


Multi angle sortation

All in one diverter, for left and right sorting at 30°, 45° or 90°.



High Throughput



- Up to 4300 transfers / hour for a single MABS zone*.
- *30° exit at 50% transfer rate.
- Non-stop transfer sequence. Driving wheels anticipate the direction of the next parcel for a continuous transfer flow.
- Prevent bottlenecks at the heaviest traffic points on the line.





System Tech

Flexible and Compact design

- Fits into all conveyor frames with 5 different standard module lengths.
- Perfect for overhead and multilayer conveyor lines, with only 175mm height.
- Combine several MABS units to convey products of all sizes, starting from 100 x 150 mm and weighing up to 30kg.
- Easy commissioning with pneumatics-free, 24VDC system.



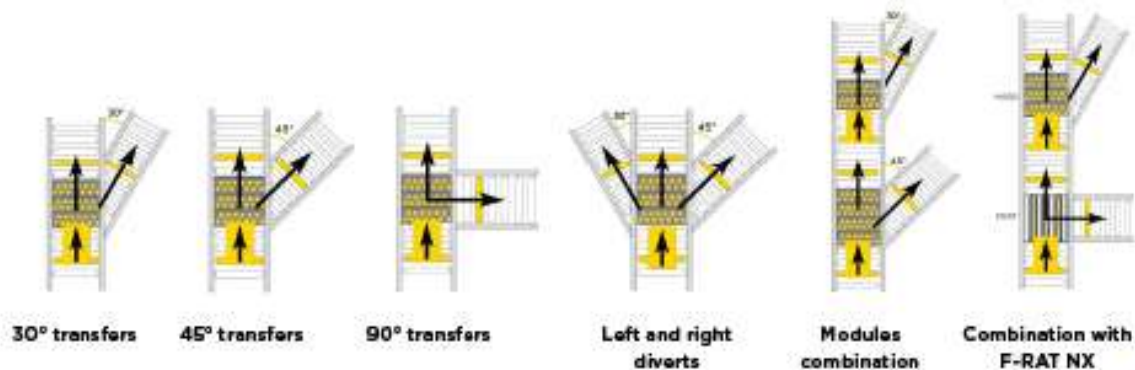
Safe for the operators

- 24VDC power reduces electric hazard. Protected surfaces of the module prevent injuries and allow operators and technicians to work in close contact with the conveyor.
- Easy integration into safe work stations.



Applications

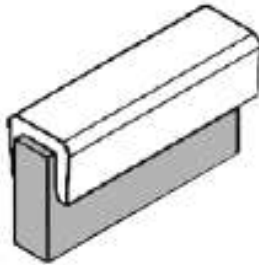
Boost sortation efficiency in a large range of applications with the MABS: sorting lines, picking lines, conveyor merge points...



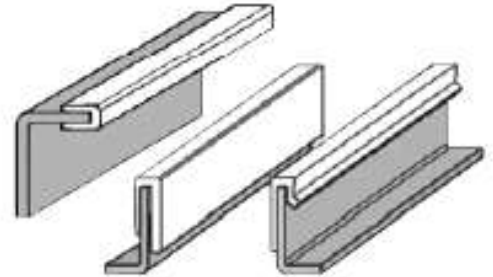


System Tech

Bar caps & Wear strips

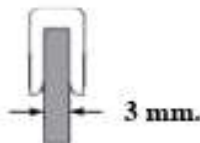


These low friction, wear resistant UHMW caps are designed to clip onto various thicknesses of flat bar material. Applications include conveyor belt supporting and conveyor side or neck guides.

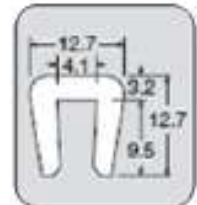
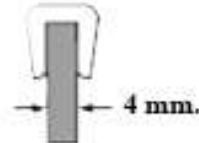


Can be used as side guides

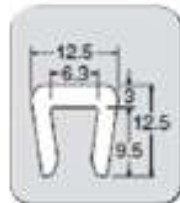
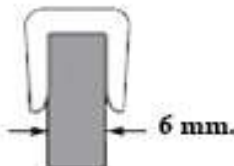
BK - UHMW / PP - 3BC



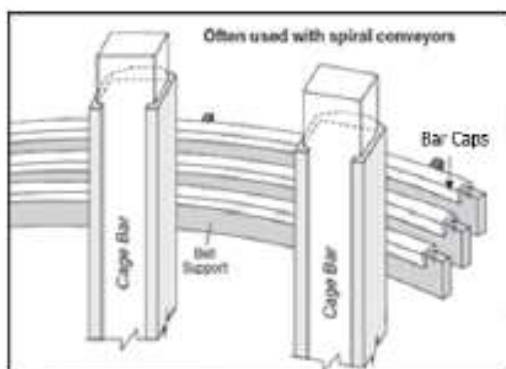
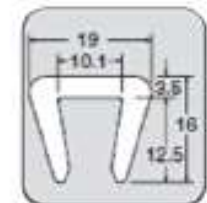
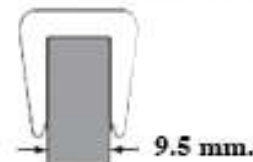
BK - UHMW / PP - 4BC



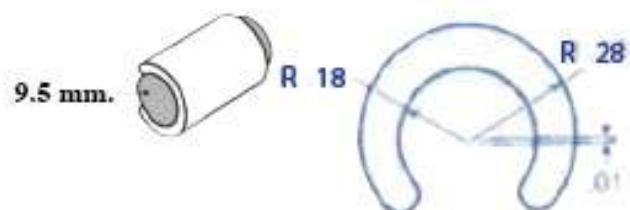
BK - UHMW / PP - 14BC



BK - UHMW / PP - 38BC



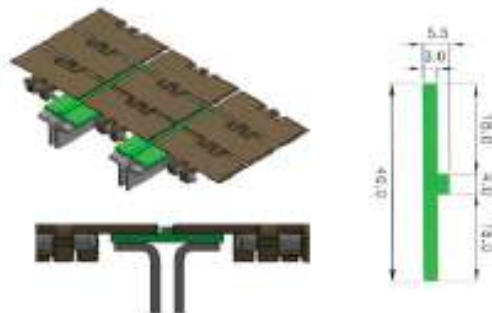
BK - UHMW / PP - R95



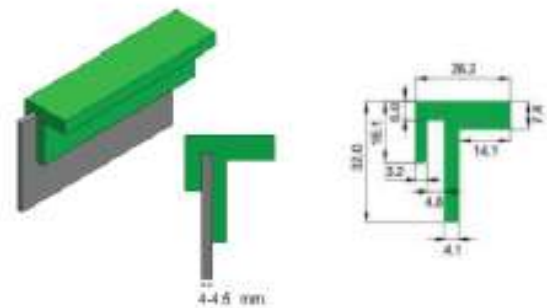


System Tech

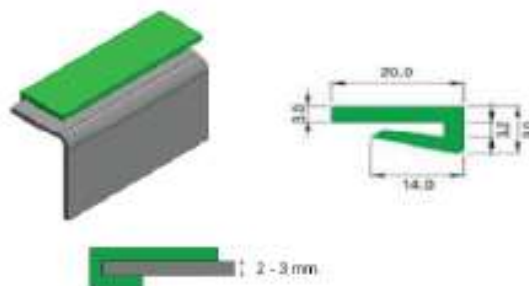
PE Wearstrip D516 Green Color



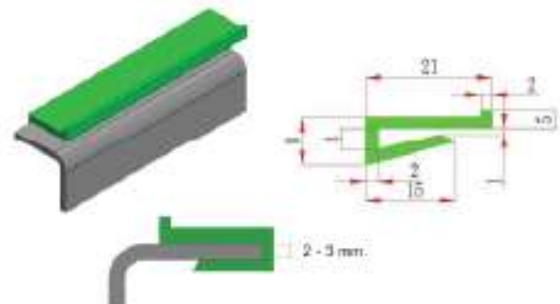
PE Wearstrip D666 Green Color



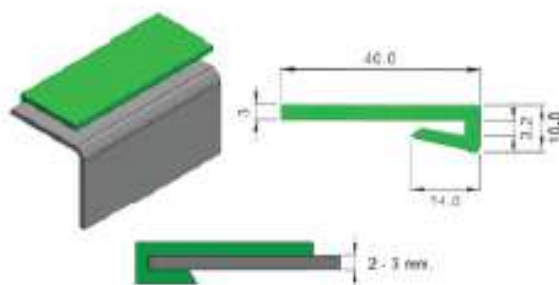
PE Wearstrip D512 Green Color



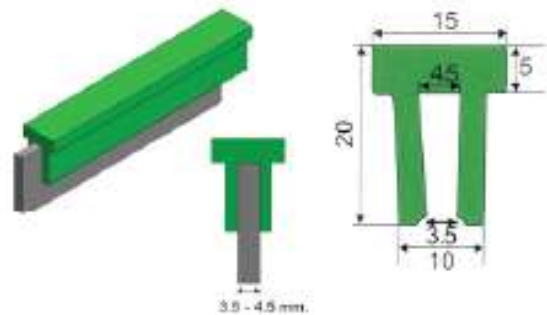
PE Wearstrip W47 Green Color



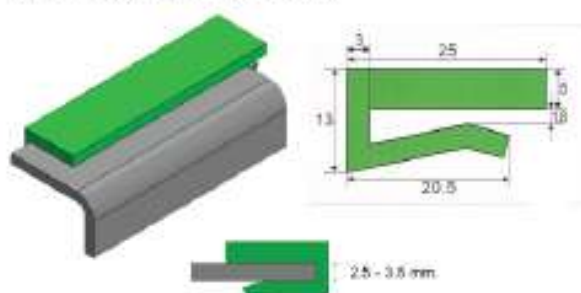
PE Wearstrip D560 Green Color



PE Wearstrip U1 Green Color



PE Wearstrip DT19 Green Color



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