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For over 30 years, MAFDEL has manufactured a wide range of **thermoweldable extruded belts** and **conveyor belts** for many industries.

To complement its broad range of product, MAFDEL presents Modutech **modular belts**, designed to meet the needs of the most various industries.





CONFIGURATION

HORIZONTAL CONVEYOR



INCLINED CONVEYOR



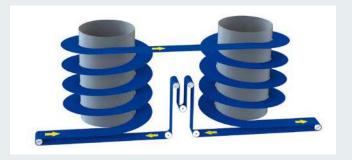
SWAN-NECK CONVEYOR



CURVED CONVEYOR



SPIRAL CONVEYOR



ADVANTAGES



A FLEXIBLE AND ECONOMICAL CONVEYING SOLUTION

- Unlimited width
- Wide operating temperatures, allowing fast freezing as well as cooling
- Smooth or open surface types (depending on series)
- Quick and easy repairs without specialist tools
- Lower stock requirements due to modular construction
- Resistance to impact, cuts, friction and chemicals (dependent on material)
- Variety of module pitch available
 - Mechanical resistance
 - Reduction of transfer gaps for small products
 - Polygon effect limited (dependent on series)
- Low and stable friction coefficient on support bed. In product contact, see "LF" type.
- FDA compliance for all conveyor belt types.

POSITIVELY SPROCKET DRIVEN (MOULDED OR MACHINED)

- No conveyor belt pretension, except for specific applications.
- Simplified conveyor design
- Stable speed
- Fixed center-to-center distances applicable

MANY CONFIGURATIONS POSSIBLE

- Horizontal, curved, inclined/declined, spiral and different swan neck styles
- The option to combine configurations:
 - Elimination of transfer issues
 - A single drive motor
 - A single belt

OPTIONS TO ADD ACCESSORIES (MOULDED OR MACHINED)

- Profiles, side quards, rubber-top modules, wheels, pop-up flights
- Dependent upon the series, fastener attached accessories can be possible





CHARACTERISTICS

STANDARD MATERIALS

	Characteristics	Certification	ure range	
Polypropylene (PP)	Standard material for most conveying applications. Excellent chemical resistance.	FDA	+5°C to) +80°C
Polyethylene (PE)	For low temperature applications, good resistance to impact. Excellent chemical resistance. Not recommended for abrasive applications.	FDA	-70°C t	o +60°C
Acetal (AC)	Low friction coefficient, high traction force for heavy load applications. Low chemical resistance.	FDA	Dry conditions -38°C to +90°C	Wet conditions -35°C to +60°C

SPECIAL MATERIALS

	Characteristics	Certification	Temperat	ure range
Polyamide 6 (PA6)	High traction force for heavy loads and abrasive applications. Do not use in humid conditions.	FDA	Dry conditions -35°C to +120°C	Wet conditions Do not use
Polyamide 6.6 (PA6.6)	High traction force for heavy loads and abrasive applications. Do not use in humid conditions.	FDA	Dry conditions -35°C to +120°C	Wet conditions Do not use
Antistatic acetal (AC-AS)	Dramatically reduces the electrostatic charge Low friction coefficient, high traction force for heavy loads applications. Low chemical resistance.	-	Dry conditions -38°C to +80°C	Wet conditions Do not use
Detectable acetal (AC-DB)	For X-ray applications, metal detectors.	-	Dry conditions:	-35°C to +90°C
Detectable polypropylene (PP-DB)	For X-ray applications, metal detectors.	FDA	+5°C to	+108°C
High temperature polypropylene (PPH)	High chemical and thermal resistance.	FDA	+5°C to	+108°C
Acetal (AC LF)	Very low friction coefficient, high traction force for heavy loads applications. Low chemical resistance.	FDA	-35°C t	o +90°C

Shades White Brown Grey Black Blue Red Yellow Ivory

Modutech

1	ndustries	MD127	HP254	HP508	EC254
	Meat and poultry	•			•
	Fish	•			•
	Fruit and vegetables	•	•		•
Food	Canning industry	•	•	•	
Food	Milk based product	•			•
	Confectionary	•			•
	Bakery	•			•
	Beverage	•	•	•	
	Saw mills		•	•	
Wood	Particle board		•	•	
	Furniture		•	•	
	Cardboard	•	•	•	
D	Paper	•	•	•	
Paper and printing	Tissue	•	•	•	
	Printing	•	•	•	
Chemical	Cosmetics, Pharmaceutical	•	•		
Plastic	Injection moulding	•	•		
Rubber	Tyre		•	•	
	Glass		•	•	
Construction	Marble and ceramics			•	
industry	Tiles, bricks			•	
	Insulation		•	•	
Automotive	People movers			•	
Automotive	Water resistance booth			•	
	General handling	•	•	•	•
	Postal sorting	•	•		
	Sorting office		•	•	
	Distribution centre		•		
Logistics	Airport		•	•	
	Packaging	•	•		
	Recycling centre	•	•		
	Electronics	•	•		
	Laundry	•	•		



INDUSTRIAL APPLICATION

			* 春春春	THE.		JAKES)	
EC381	EC508	Curve	MD820-821	MD880-879 MD880-879 HDP	Flexi Chain	MD1701R -TABR	MD600S - TABS
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The MD series has a pitch of 12.7mm allowing a nose bar diameter of 20mm.

The MD series creates **less vibration** as a result of a lower polygon effect, and more stability for small products, whilst allowing **higher speeds**.

The low friction belt surface (LF type) allows accumulation and the easy release of products.

	MD1	27C	MD127 C-LF	MD127	FG 20	MD127 FG14 LF		
			Low friction coefficient			Low friction coefficient		
Pitch (mm)	12	.7	12.7	12	.7	12.7		
Minimum pitch diameter (mm)	81	.4	81.4	81	.4	81.4		
Open area	09	%	0%	20	%	14%		
Belt surface	Fl	at	Flat	Ор	en	Perforated		
Materials Belts and pins								
Polyethylene	~		-	~		-		
Polypropylene	V		-	✓		✓		-
Acetal	~		√	~		✓		
Polyamide	On red	quest	On request	On red	quest	On request		
Accessories								
Profiles (Height-mm)	25	50	-	25	50	-		
Side guards (mm)	_		-	_		-		
Wheels	-		-	-		-		
Rubber-top modules	_		-	-		-		





A feature of the HP series is the sprocket engagement which **reduces vibration during operation** and offers a **high traction force**.

These belts are advised for long center distances, bidirectional conveying, and other applications which require **good impact resistance**.

With their rubber top modules, the "GT" belts allow the conveyance of products on inclined or other applications requiring adhesion.

	HI	P25	4C	HP2	8 8	PR23	HP254 GT Adhesive surface		1P508	C	HP	508 mb t		* KANKELLE
Pitch (mm)		25.4			25.4		25.4		50.8			50	.8	
Minimum pitch diameter (mm)		82.6			82.6		82.6		101.6			10	1.6	
Open area		0%			23%	, D	0%		0%			36	%	
Belt surface		Flat		Pe	rfora	ted	Adhesive		Flat			Grod	ved	
Materials belts and pins														
Polyethylene		√			\checkmark		√		\checkmark			-	-	
Polypropylene		√			√		√		√			٧		
Acetal		√			√		√		\checkmark			٧		
Polyamide	On	requ	uest	On	requ	est	On request	C	n reque	est	0	n re	ques	st
Accessories														
Profiles (height-mm)	25	50	75	25	50	75	-	25	50 75	100	25	50	75	100
Sideguards (mm)	25		50	25		50	-		_			_		
Wheels		_			-		-		-			-		
Rubber-top modules		-			-		✓		-			-		





The EC series of conveyor belts have a smooth underside which facilitates **easy cleaning**. They are particularly recommended for **food industry application** where bacterial proliferation is significant and **high traction force** and a **good resistance to impact** is required.

	EC254 C					EC254	FG3		EC254 PR24				
Pitch (mm)		25	5.4			25	5.4			25	5.4		
Minimum pitch diameter (mm)		81	.6			81	.6			81	.6		
Open area		0'	%			35	5%			24	%		
Belt surface		Fl	at		Open			Perforated					
Materials belts and pins													
Polyethylene		٧				٧				٧			
Polypropylene		٧				٧			√				
Acetal		٧			✓					٧			
Polyamide		On re	quest			On request				On request			
Accessories													
Profiles (height-mm)	25	50	75	100	25	50	75	100	25	50	75	100	
Sideguards (mm)		-	_				_				_		
Wheels		-	-			-	-				-		
Rubber-top modules		-	-				-				-		



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		EC3	81 C		E	C381	PR	22	E	C381	l FG:	30		C38	81 N	Т
				Some				Cocces of the state of the stat				BARTON	Red	duced con	I surf tact	ace
Pitch (mm)		38	.1			38	3.1			38	3.1			38	3.1	
Minimum pitch diameter (mm)		100).4			10	0.4			10	0.4			10	0.4	
Open area		00	%			22	2%			30)%		0%			
Belt surface		Fl	at			Perfo	rate	d		Ор	en			Nub	top	
Materials belts and pins																
Polyethylene		٧			√			✓				✓				
Polypropylene		٧			✓			√			√					
Acetal		٧				✓			√			√				
Polyamide		n re	quest	t		On request				On request				On re	ques [·]	t
Accessories																
Profiles (height-mm)	25	50	75	100	25	50	75	100	25	50	75	100	25	50	75	100
Side guards (mm)	25 50			2	25 50			2	25 50			2	5	5	50	
Wheels	-			-			-			-						
Rubber-top modules		_								-			-			



The EC series conveyor belts have a smooth underside which facilitates **easy cleaning**. They are particularly recommended for **food industry application** where bacterial proliferation is significant and **high traction force** and a **good resistance to impact** is required.

		EC5	08 C			EC508	3 PR22			
		Impacts r	ocistan							
Pitch (mm)		50 minutes 1				5(D.8			
Minimum pitch diameter (mm)		132					2.8			
Open area		0,	%			22	2%			
Belt surface		Fl	at		Perforated					
Material belts and pins										
Polyethylene		٧			✓					
Polypropylene		٧			✓					
Acetal		٧			✓					
Polyamide		On re	quest		On request					
Accessories										
Profiles (height-mm)	25	50	100	150	25	50	100	150		
Sideguards (mm)	25	5	0	100	25	5	50	100		
Wheels		-	-		-					
Rubber-top modules		-					-			



SIDE FLEXING

This EC series is mainly aimed at applications requiring **combined configurations** of straight, curved or spiral sections.

Their open area allows **easy cleaning**, facilitated by cleaning access between modules and pins.

Version with collapse factor of 1.6: on request.

	EC254 R21		1 R21 cal resistance
Pitch (mm)	25.4	38	3.1
Minimum pitch diameter (mm)	66.4	99	9.6
Open area	36%	32	2%
Collapse factor	2.1	2	.1
Belt surface	Open	Ор	en
Materials belts and pins			
Polyethylene	-	-	-
Polypropylene	\checkmark	v	
Acetal	\checkmark	v	
Polyamide	On request	On re	quest
Accessories			
Profiles (height-mm)	-	25	50
Sideguards (mm)	-	-	-
Wheels	✓	v	
Rubber-top modules	-		-

ACCESSORIES



STRAIGHT PROFILES

- Profiles allow the conveying products on an inclined application.
- Heights: 25 to 150mm.
- Widths recut on request.
- Profiles can be **grooved** to reduce the sticking of products*.
- Reinforced profiles with gussets depending on belt type.



SCOOPED PROFILES

- Scooped profiles increase the volume of conveyed products on steep inclines.
- Height: 50mm*
- Widths recut on request
- Profiles can be **grooved** to reduce the sticking of products*.



SIDEGUARDS

- Heights: 25 to 100mm*.
- Positioning of the sideguards in conjunction with belt edges: refer to technical sheet.
- Minimum flexing on reverse bending: refer to technical sheet.



^{*}Availability according to the belt type.





ACCESSORIES

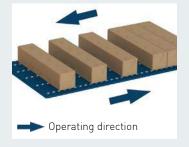
RUBBER-TOP MODULES

- Rubber-top modules allow the conveyance of products on inclines or declines.
- Material: Embossed black rubber 45ShA and not available in food grade.
- Distribution on the belt by request.



WHEELS

- Material: Acetal.
- Technical characteristics: refer to technical sheet
- Wheels are used to reduce the accumulation effort, or create space between conveyed items.



SPROCKETS

MOLDED	MACHINED	DISMANTABLE
Polyamide Glass filled Polyamide Acetal	Polyethylene Acetal	Polyethylene Acetal

Square bores of 40mm or circular bores of 25 or 30mm, others on request. Locking retaining rings for square or circular shafts on request.



STRAIGHT RUNNING SLAT CHAIN



Straight running slat chains are particularly suited for the conveyance and the accumulation of cans and glass or plastic bottles.

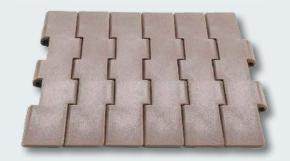
The conveyance of plastic, cardboard or metallic frames and trays is also possible.





MD820

Material	Width (mm)	Pitch (mm)		
Pre-lubricated brown acetal	82.5			
	101.6			
	114.3	38.1		
	152.4			
	190.5			





MD821

Material	Width (mm)	Pitch (mm)
Pre-lubricated brown acetal	190.5	
	254	38.1
	304.8	



SIDE FLEXING SLAT CHAIN





MD880 - 879

Material	Minimum bend radius (mm)	Width (mm)	Hold-down tabs	Pitch (mm)
Pre-lubricated brown acetal	400	82.5		38.1
		101.6		
		114.3	NO	
		152.4		
		190.5		





NA C	าดดก	- 879	םחם ו
IVII	JOOL	- n/7	

Material	Minimum bend radius (mm)	Width (mm)	Hold-down tabs	Pitch (mm)
Pre-lubricated brown acetal	400	82.5		38.1
		101.6		
		114.3	YES	
		152.4		
		190.5		





FLEXI CHAIN SERIES

Material	Minimum bend radius (mm)	Width (mm)	Guide rollers	Pitch (mm)
White pre-lubricated acetal	140	82.5	VEC	33.5
	160	114.3	YES	33.0

STRAIGHT AND SIDE FLEXING CRATE CHAIN



Straight and side flexing crate chain is particularly suitable for the conveyance of plastics trays, pallets, or other containers...





MD 1701 R - MD 1701 TAB R

Material	Minimum bend radius (mm)	Width (mm)	Hold-down tabs		Ditch (man)
Material			MD1701R	MD 1701 TABR	Pitch (mm)
White pre- lubricated acetal	150	52.5	NO	YES	50





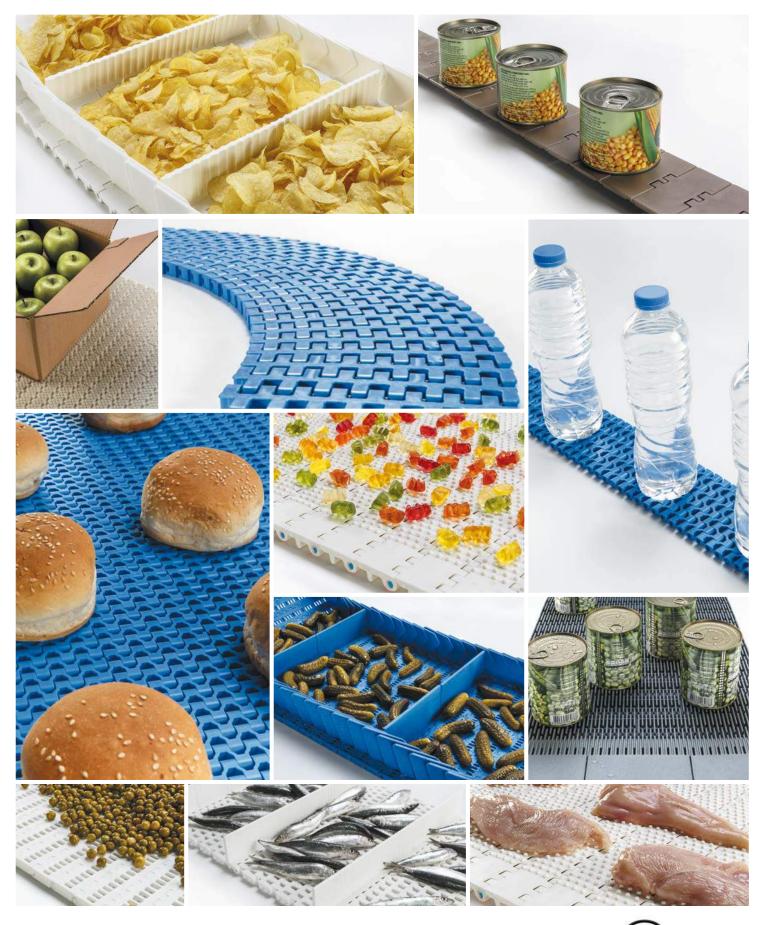
MD 600 S - MD 600 TAB S

Material	Minimum bend radius (mm)	Width (mm)	Hold-down tabs		Pitch (mm)
			MD 600 S	MD 600 TAB S	
White pre- lubricated acetal	-	43	NO	YES	63.5





APPLICATIONS





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