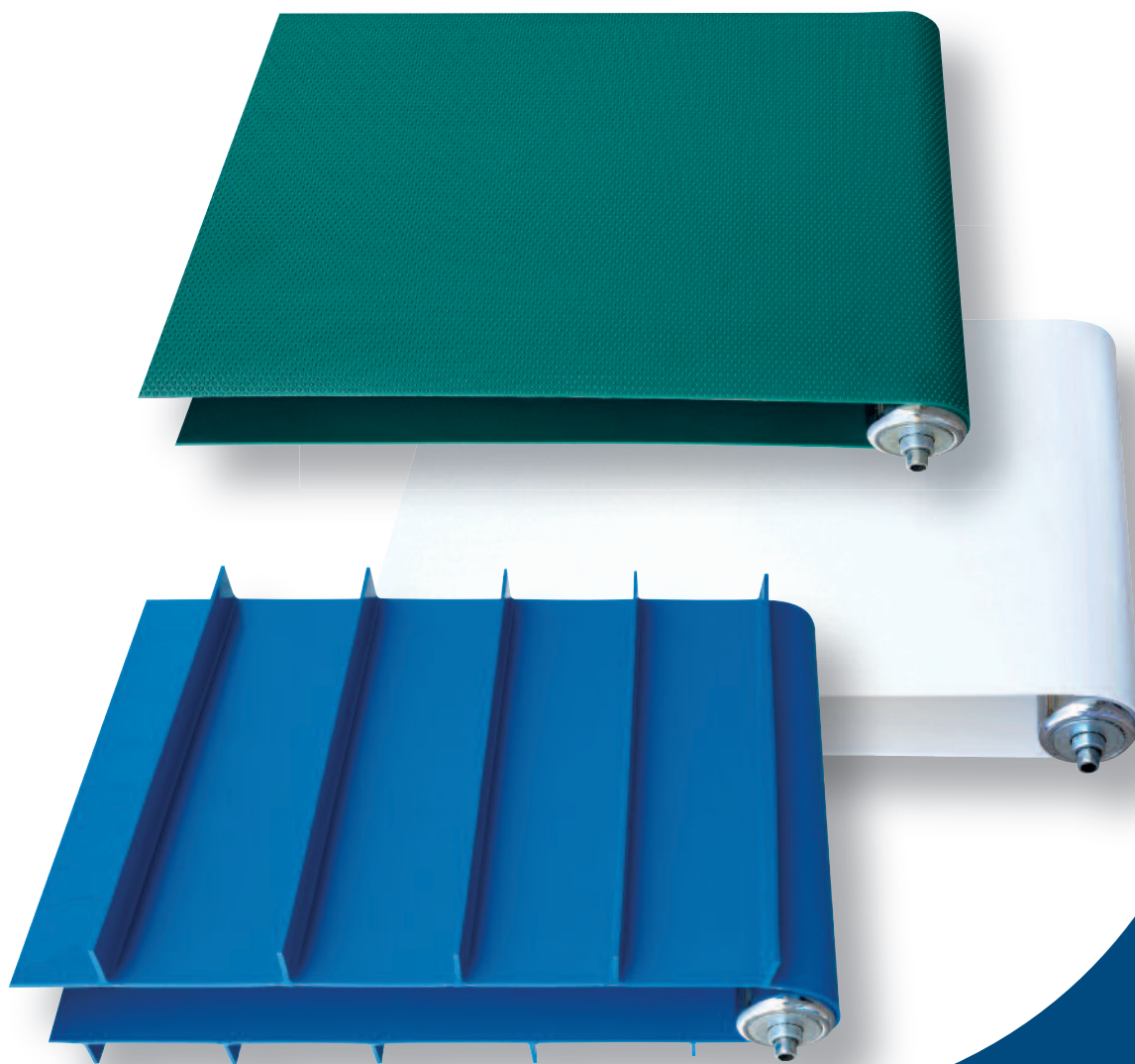
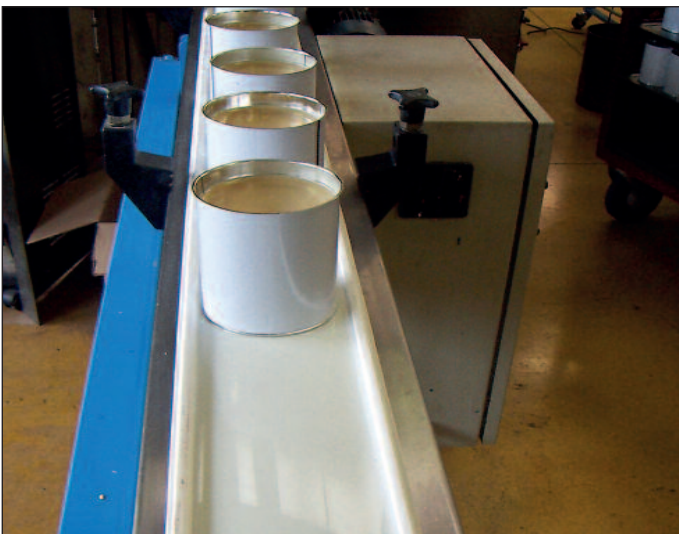
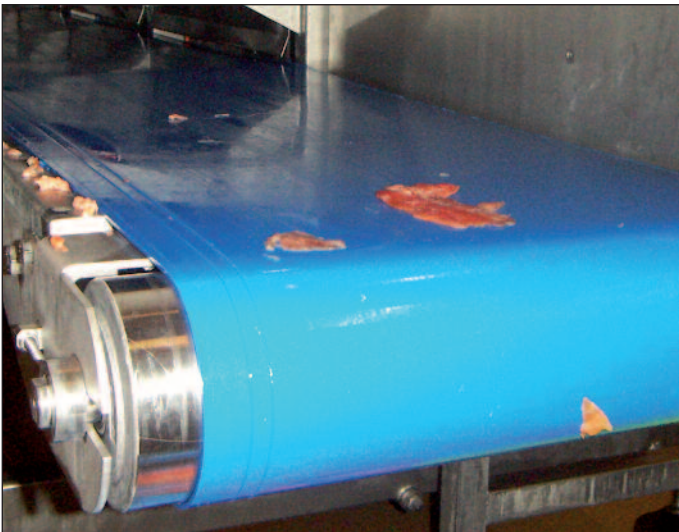


thermoweldable CONVEYOR BELTS

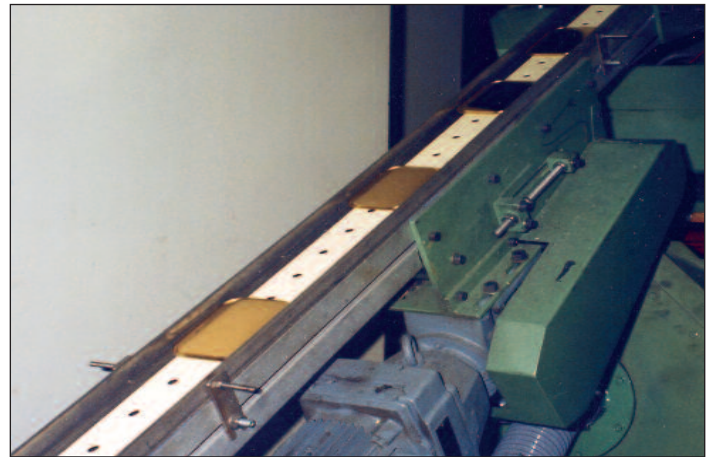
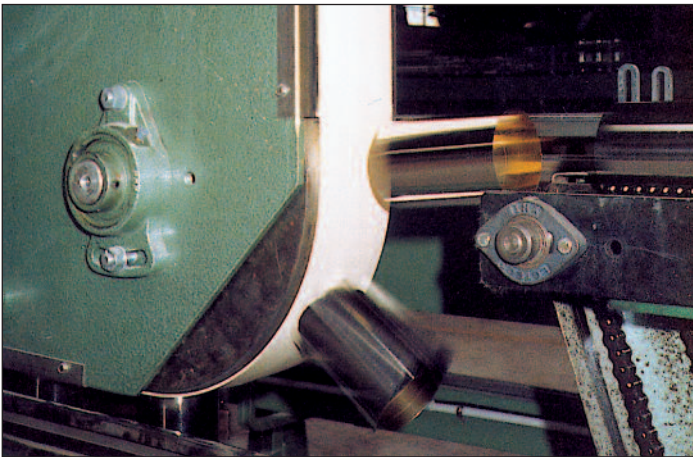




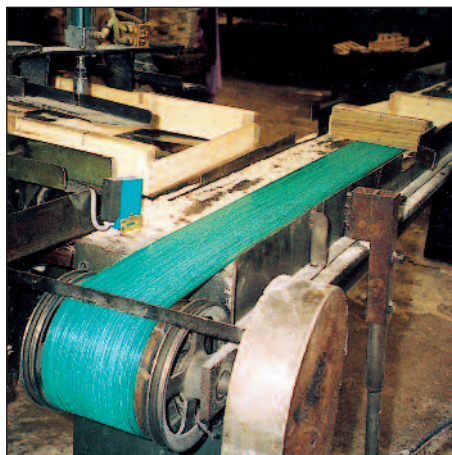
tileworks • brickworks

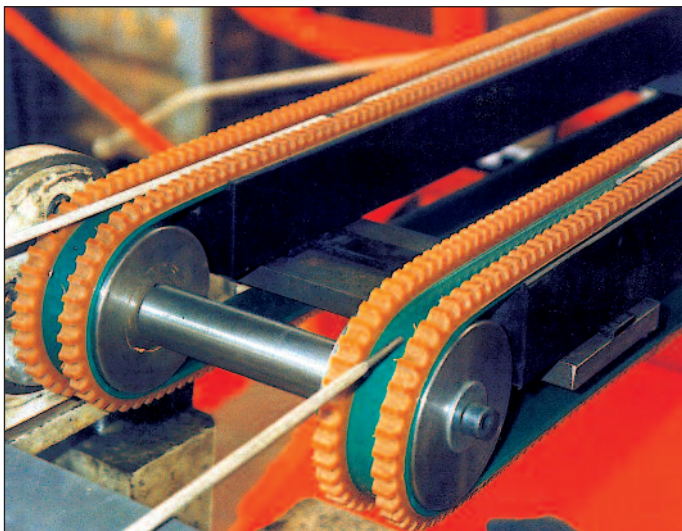
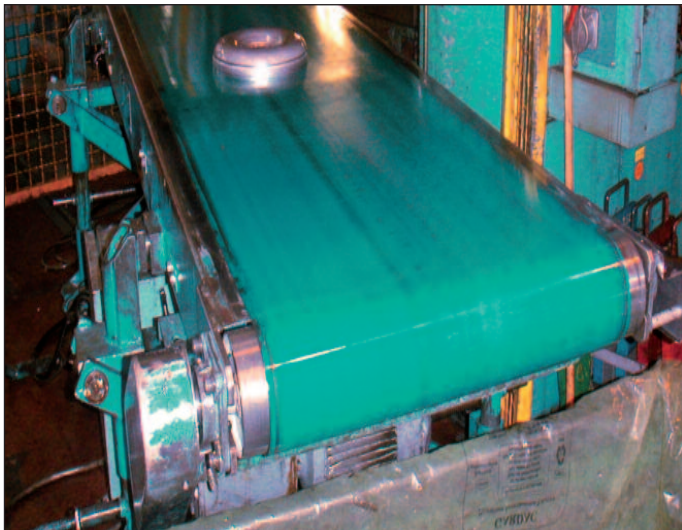
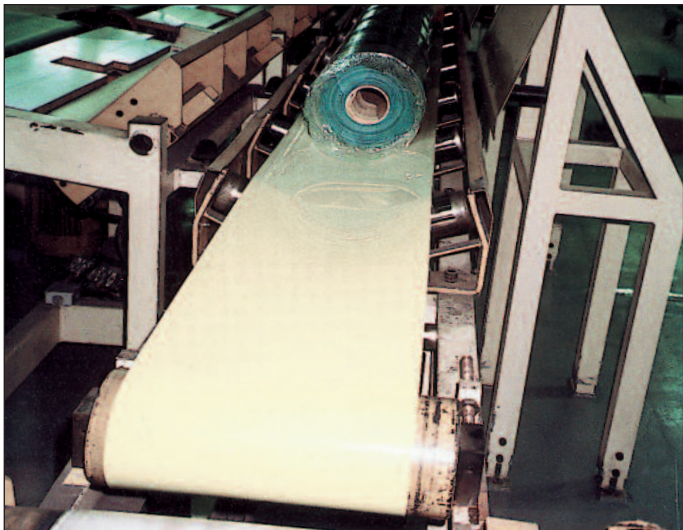
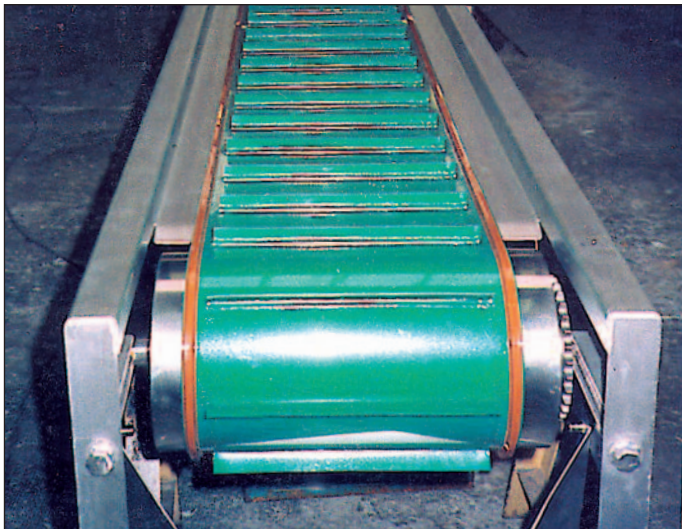


metal packaging manufacturers

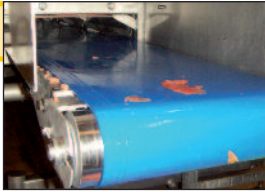


wood industry





presentation



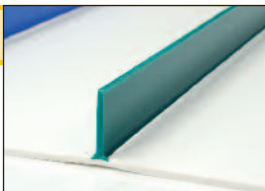
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conveyor belting



Our range of conveyor belts	6
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profiles



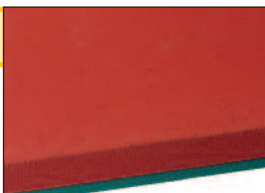
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special belts



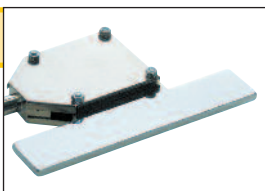
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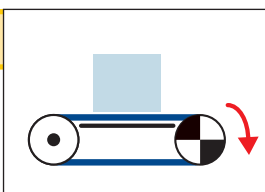
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welding tools



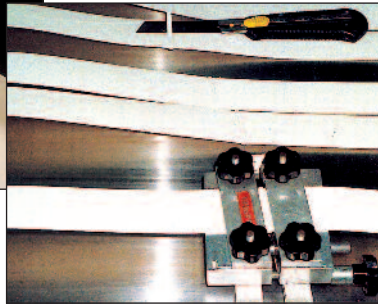
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technical notes



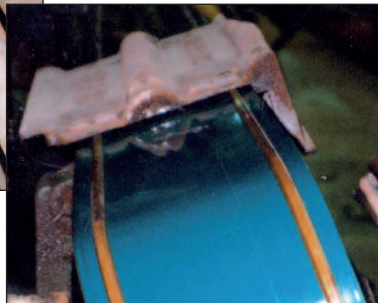
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Our conveyor and flat thermoweldable belts provide many advantages in a wide range of applications:



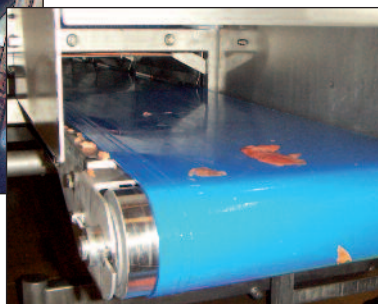
easiness of use

- Easy on-site welding without previous dismantling.
- Fast repairing with minimum down-time.
- Convenient length adjustments by lengthening or shortening.
- Easy repairing of damaged belts.



main characteristics

- High resistance to abrasion.
- High resistance to tear, wear and cuttings.
- High resistance to oil, fat and solvents.
- Increased duration in hard working conditions compared to regular conveyor belts.



food quality range

- Mono-material products, waterproof and rot-resistant.
- Smooth and ply-free surface for reduced bacteria development
- No fraying.
- Excellent water, oil, animal and vegetable fat resistance.
- Support of cleaning and sanitation measures.
- Easy cleaning.

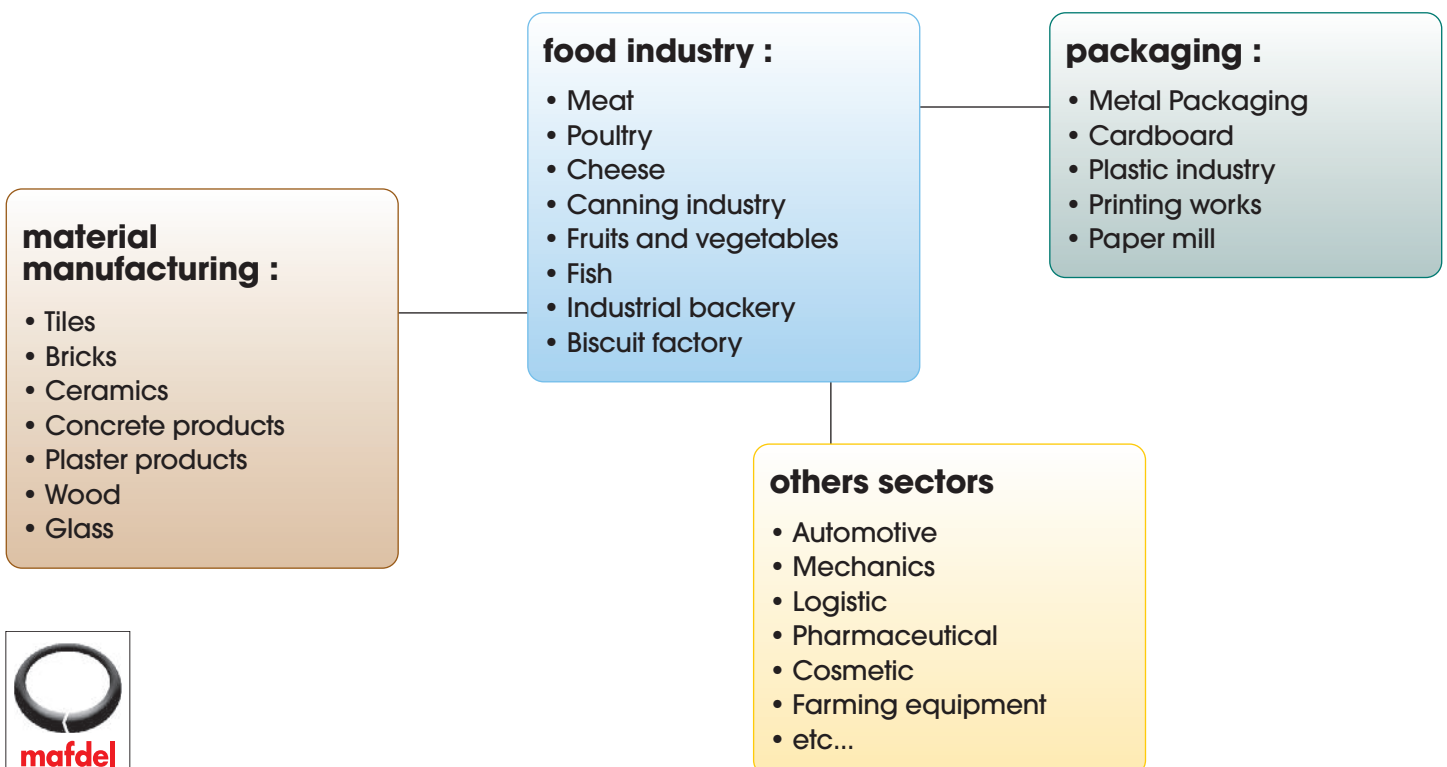


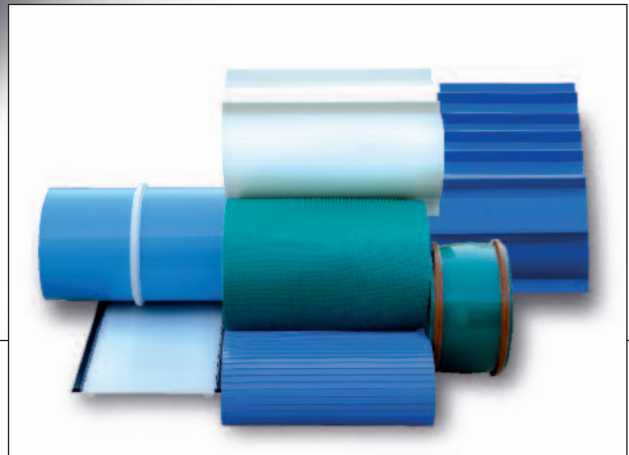
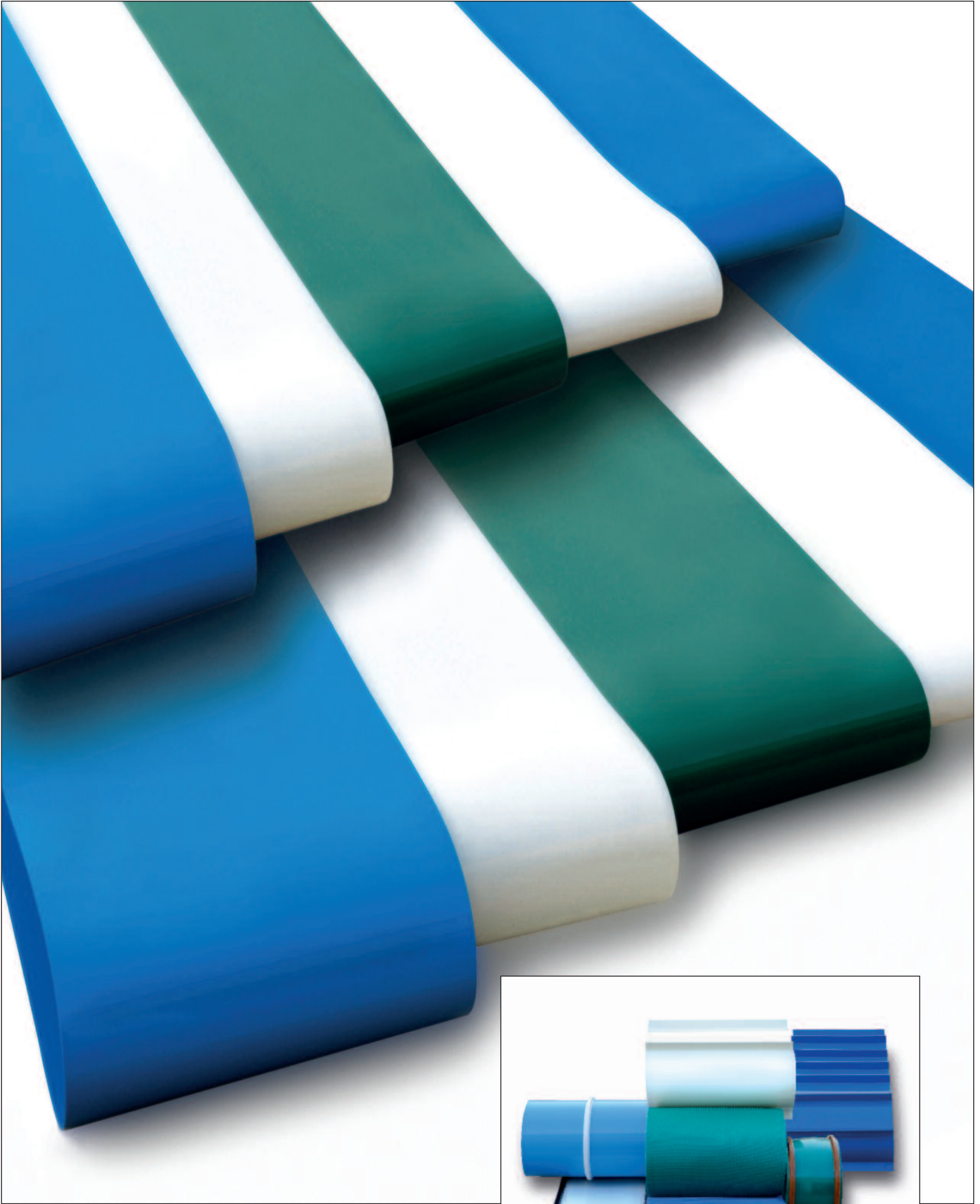
Comparison of advantages of different conveying solutions :

	MAFDEL belts	Regular plied belts	Modular belts
Easiness of installation	+	-	+
Chemicals and hydrocarbons resistance	+	-	+
Abrasion and cuttings resistance	+	-	-
Easiness of maintenance	+	-	-
Possibility of embossed surfaces	+	+	-
Easiness of cleaning	+	-	-
Low noise working	+	+	-
Food quality	+	-	+

applications

Our belts are suitable to a wide range of applications in many industries, such as :





MAFDEL company may add, modify or delete one or several products of its range without previous advising. All the information in this catalog is given as an indication and shall in no way engage MAFDEL's responsibility.

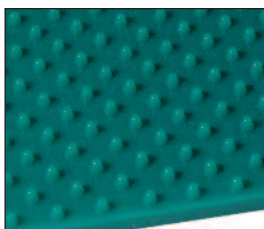
conveyor belts

mafdel		Bottom side	Top side	Embossing on top side	Maximum width (mm)	Thickness (mm)						
						1	1.5	2	2.5	3	4	5
DEL/ROC	100 ShA 55 ShD	Smooth	Smooth	No	650							
DEL/ROC	100 ShA 55 ShD	Smooth	Smooth	No	1000							
DEL/ROC	100 ShA 55 ShD	Diamond-embossed	Smooth	No	1000							
DEL/FLEX	93 ShA	Smooth	Smooth	Yes	650							
DEL/FLEX	93 ShA	Smooth	Smooth	Yes	650							
DEL/FLEX	93 ShA	Smooth	Smooth	Yes	1000							
DEL/FLEX	93 ShA	Diamond-embossed	Smooth	Yes	1000							
DEL/FLEX	93 ShA	Reinforcement ply	Smooth	Yes	1000							
SOUPLEX	85 ShA	Smooth	Smooth	Yes	650							
SOUPLEX	85 ShA	Smooth	Smooth	Yes	650							
TOTALGRIP Surface	70 ShA	Smooth	Smooth	Yes	400							
EXTRAGRIP Surface	60 ShA	Smooth	Smooth	Yes	400							
Special PRIMAFLEX	90 ShA	Smooth or Brushed	Smooth	Yes	400							

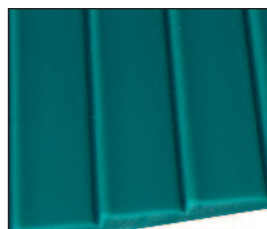
DEL/ROC, DEL/FLEX and SOUPLEX conveyor belts with guides on demand



Possible embossings on DEL/FLEX and SOUPLEX conveyor and flat belts: non-slip studded, sawtooth, SG3 or diamond. Maximum width: 380 mm.



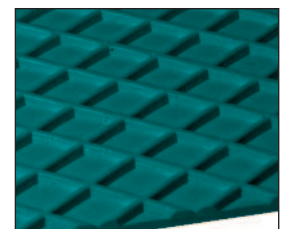
non-slip studded (PI)



sawtooth (US)



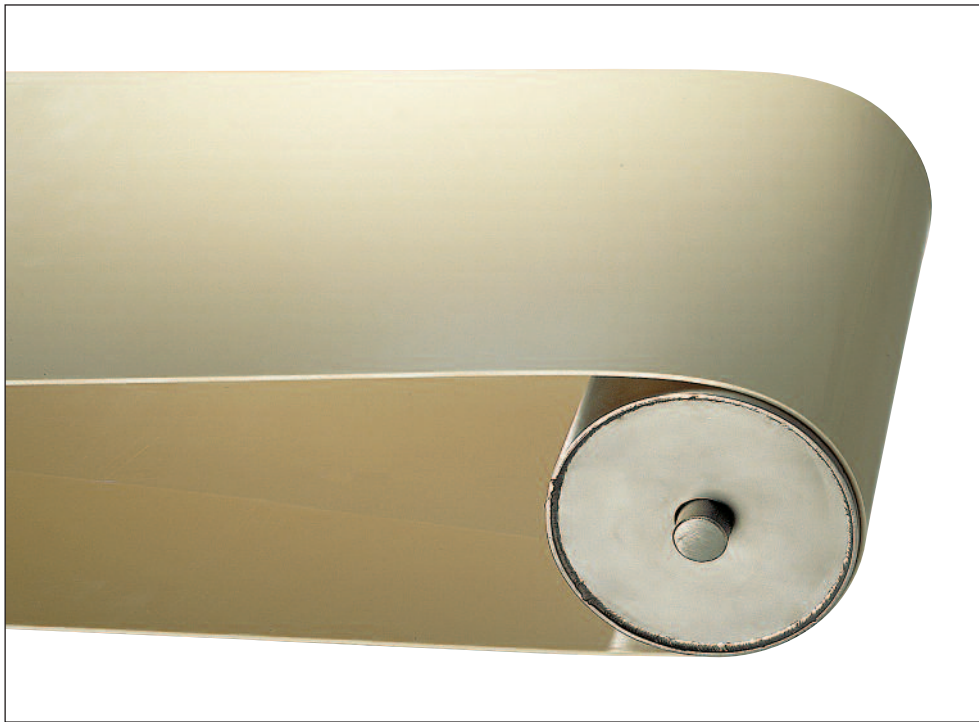
SG3 (SG)



diamond (LO)



DEL/ROC ivory



Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to chemicals.
- Excellent traction force.
- Good sliding on supports.

Applications

- Medium or heavy loads.
- Possible accumulation.
- Full-loaded start.
- Long spacings.

Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With fasteners.

Guides, profiles, holes... on demand.



DEL/ROC ivory

Material	polyester elastomer
Colour	ivory
Bottom side	smooth
Top side	smooth
Hardness	100 ShA - 55 ShD
Traction rating	
at 0.5% of tension	9 daN/cm² of section
at 1% of tension	18 daN/cm² of section
at 1.5% of tension	27 daN/cm² of section
Installation tension	0.5 to 2% depending on conditions
Extreme temperatures	-30°C/+90°C
Friction coefficient on	
HDPE	0.15 - 0.2
Steel	0.35 - 0.4
Stainless steel	0.5



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
DRPI1.5	DRBI1.5	1.5	650	30	1.8
DRPI2	DRBI2	2	650	40	2.4
DRPI2.5	DRBI2.5	2.5	650	60	3
DRPI3	DRBI3	3	650	80	3.6
DRPI4	DRBI4	4	650	160	4.8
DRPI5	DRBI5	5	650	200	6

DEL/ROC belts with guide
minimum drum ø(mm)

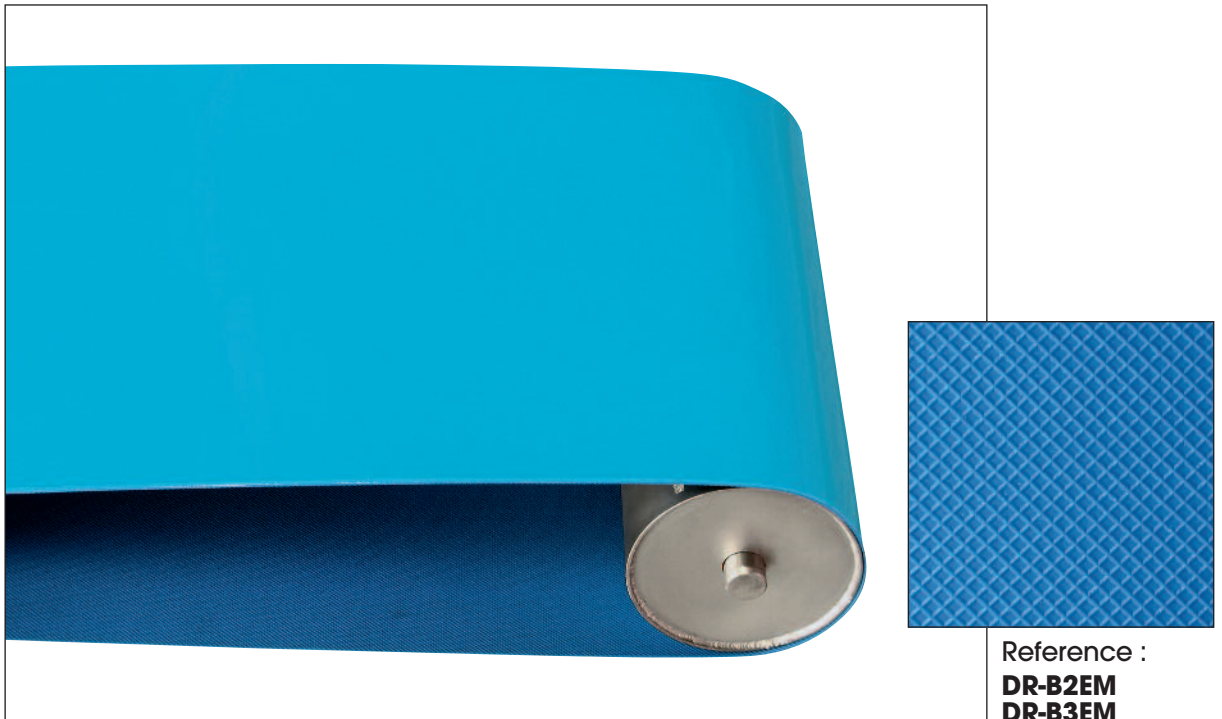


Belt thickness (mm)	DEL/ROC guide (100 ShA)					DEL/ROC cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	-	180	220	-	-	-	140	180	-	-
2.5	-	190	240	280	-	-	160	190	230	-
3	-	210	260	310	400	-	180	200	270	330
4	-	240	280	360	420	-	200	220	310	350
5	-	270	310	420	480	-	230	260	370	410

Belt thickness (mm)	V/FLEX guide (PVC 60 ShA)					V/FLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	70	80	100	-	-	-	70	90	-	-
2.5	80	100	110	130	-	-	90	100	110	-
3	110	130	140	150	200	-	110	120	130	150
4	160	180	200	210	220	-	160	180	190	200
5	200	210	220	240	250	-	200	210	230	240



DEL/ROC blue



Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to chemicals.
- Excellent traction rating.
- Good sliding on supports.

Applications

- Medium or heavy loads.
- Possible accumulation.
- Full-loaded start.
- Long spacings.

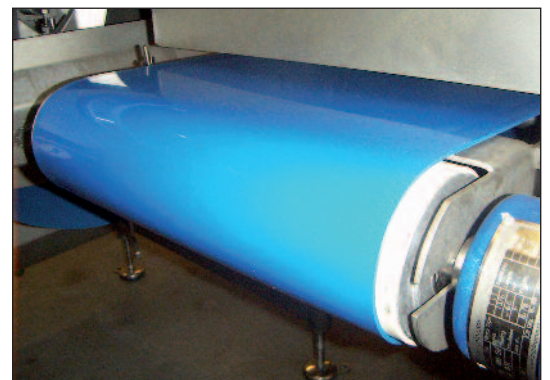
Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With fasteners.

Guides, profiles, holes... on demand.

Smooth or **DIAMOND-EMBOSSED** bottom side



- Sliding improved on the belts' support in wet or fat conditions.
- Reduced traction efforts.



DEL/ROC blue



Material	polyester elastomer
Colour	blue
Bottom side	smooth or diamond-embossed
Top side	smooth
Hardness	100 ShA - 55 ShD
Traction rating	
at 0.5% of tension	9 daN/cm² of section
at 1% of tension	18 daN/cm² of section
at 1.5% of tension	27 daN/cm² of section
Installation tension	0.5 to 2% depending on conditions
Extreme temperatures	-30°C/+90°C
Friction coefficient on	
HDPE	0.15 - 0.2
Steel	0.35 - 0.4
Stainless steel	0.5





Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
DRPB2	DRBB2	 2	1000	40	2.4
DRPB3	DRBB3	 3	1000	80	3.6

DEL/ROC belts with guide minimum drum ø(mm)



Belt thickness (mm)	DEL/ROC guide (100 ShA)					DEL/ROC cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	-	180	220	-	-	-	140	180	-	-
 3	-	210	260	310	400	-	180	200	270	330

Belt thickness (mm)	V/FLEX guide (PVC 60 ShA)					V/FLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	70	80	100	-	-	-	70	90	-	-
 3	110	130	140	150	200	-	110	120	130	150



DEL/FLEX green



Characteristics

- **Standard quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Flexible.



Applications

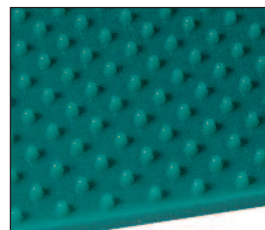
- Medium loads.
- Small drum Ø.
- Abrasive conditions.
- U-shape belts.

Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

Guides, profiles, holes... on demand.

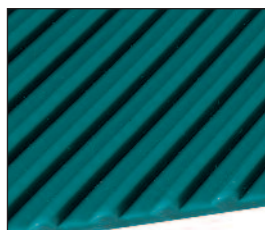
standard embossings



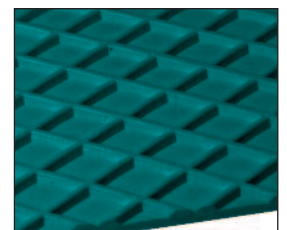
non-slip studded (PI)



sawtooth (US)



SG3 (SG)

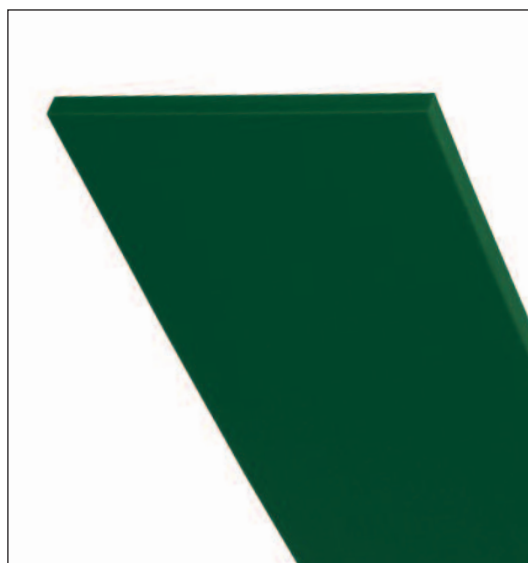


diamond (LO)

Maximum width: 380 mm.

DEL/FLEX green

Material	polyurethane
Colour	green
Bottom side	smooth
Top side	smooth
Hardness	93 ShA
Traction rating	
at 1% of tension	10 daN/cm² of section
at 2% of tension	15 daN/cm² of section
at 3% of tension	20 daN/cm² of section
Installation tension	2 to 4% depending on conditions
Extreme temperatures	-20°C/+70°C
Friction coefficient on	
HDPE	0.25
Steel	0.5
Stainless steel	0.6



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
DFPG1.5	DFBG1.5	1.5	650	20	1.8
DFPG2	DFBG2	2	650	30	2.5
DFPG3	DFBG3	3	650	70	3.75
DFPG4	DFBG4	4	650	100	5
DFPG5	DFBG5	5	650	140	6.25

DEL/ROC belts with guide minimum drum ø(mm)



Belt thickness (mm)	SOUPLEX guide (PU 85 ShA)					SOUPLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	90	100	140	-	-	-	70	80	-	-
3	110	130	180	220	280	-	85	100	140	200
4	130	170	220	260	350	-	100	120	160	220
5	160	200	250	300	400	-	140	150	180	240

Belt thickness (mm)	SUPERFLEX guide (PU 70 ShA)					SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	60	65	90	135	-	-	55	65	90	-
3	80	85	100	150	-	-	70	80	110	-
4	100	100	115	165	-	-	100	100	120	-
5	140	140	140	185	-	-	140	140	150	-



SUPERFLEX 6 x 4 mm: consult us.

DEL/FLEX white



Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Flexible.

Applications

- Medium loads.
- Small drum Ø.
- Abrasive conditions.
- U-shape belts.

Compatible welding processes

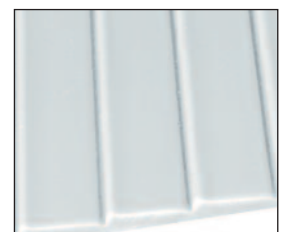
- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

Guides, profiles, holes... on demand.

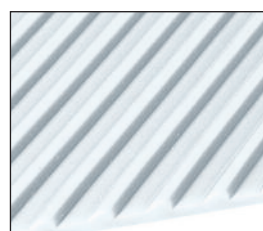
standard embossings



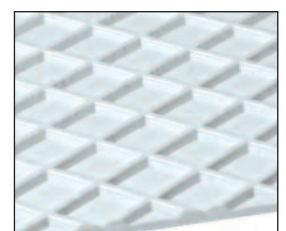
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

DEL/FLEX white

Material	polyurethane
Colour	white
Bottom side	smooth
Top side	smooth
Hardness	93 ShA
Traction rating	
at 1% of tension	10 daN/cm² of section
at 2% of tension	15 daN/cm² of section
at 3% of tension	20 daN/cm² of section
Installation tension	2 to 4% depending on conditions
Extreme temperatures	-20°C/+70°C
Friction coefficient on	
HDPE	0.25
Steel	0.5
Stainless steel	0.6



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
DFPW1.5	DFBW1.5	1.5	650	20	1.8
DFPW2	DFBW2	2	650	30	2.5
DFPW3	DFBW3	3	650	70	3.75
DFPW4	DFBW4	4	650	100	5



DEL/ROC belts with guide
minimum drum ø(mm)



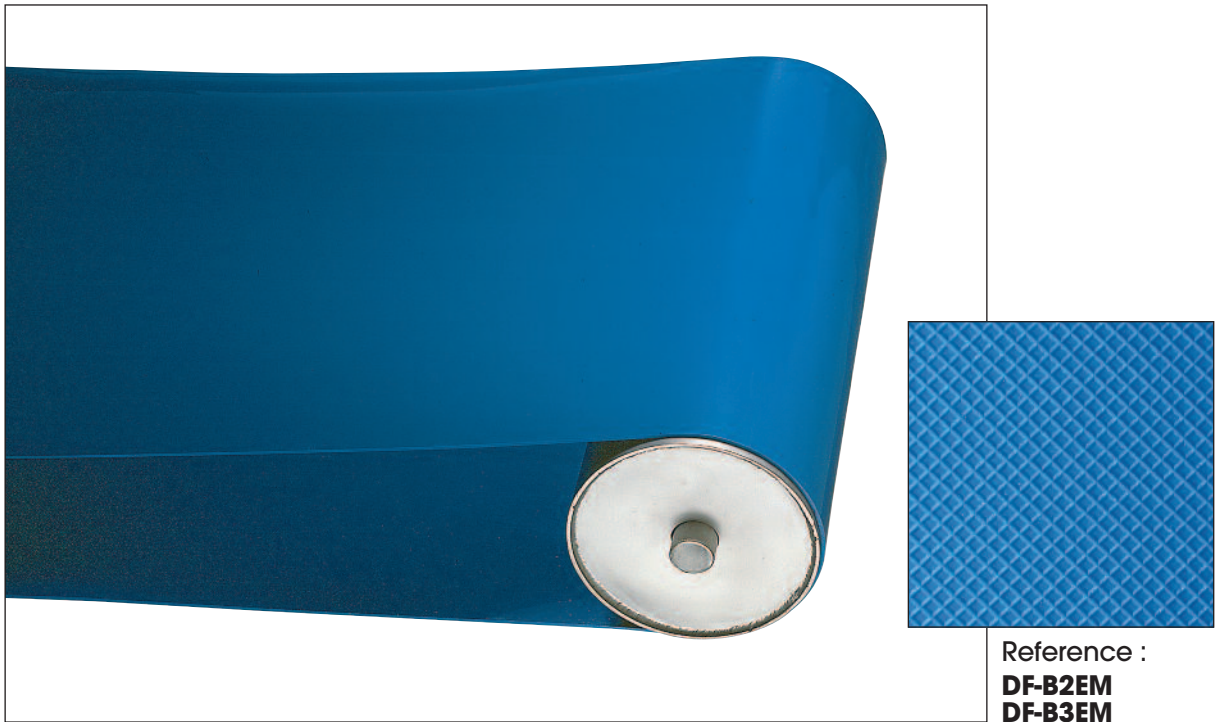
Belt thickness (mm)	SOUPLEX guide (PU 85 ShA)					SOUPLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	90	100	140	-	-	-	70	80	-	-
3	110	130	180	220	280	-	85	100	140	200
4	130	170	220	260	350	-	100	120	160	220

Belt thickness (mm)	SUPERFLEX guide (PU 70 ShA)					SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	60	65	90	135	-	-	55	65	90	-
3	80	85	100	150	-	-	70	80	110	-
4	100	100	115	165	-	-	100	100	120	-



SUPERFLEX 6 x 4 mm: consult us.

DEL/FLEX blue



Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Flexible.

Applications

- Medium loads.
- Small drum Ø.
- Abrasive conditions.
- U-shape belts.

Compatible welding processes

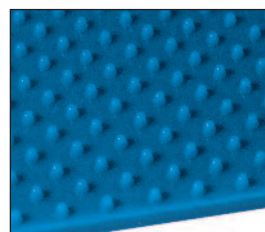
- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

Guides, profiles, holes... on demand.

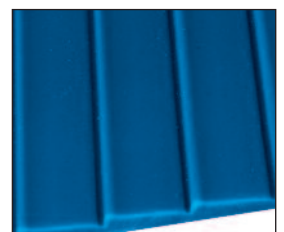
Smooth or DIAMOND-EMBOSSED bottom side

- Sliding improved on the belts' support in wet or fat conditions.
- Reduced traction efforts.

standard embossings



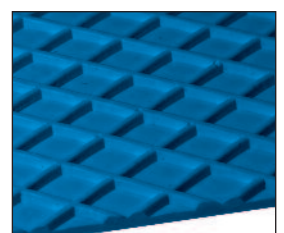
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)



Maximum width: 380 mm.

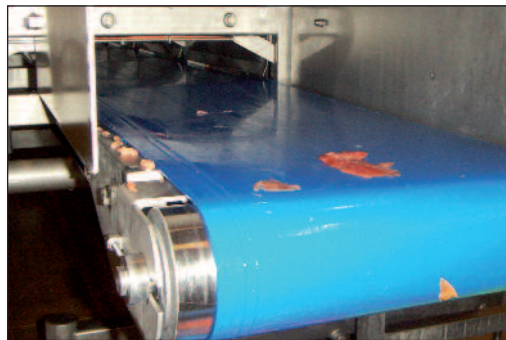


DEL/FLEX blue





Material	polyurethane
Colour	blue
Bottom side	smooth or diamond-embossed
Top side	smooth
Hardness	93 ShA
Traction rating	
at 1% of tension	10 daN/cm² of section
at 2% of tension	15 daN/cm² of section
at 3% of tension	20 daN/cm² of section
Installation tension	2 to 4% depending on conditions
Extreme temperatures	-20°C/+70°C
Friction coefficient on	
HDPE	0.25
Steel	0.5
Stainless steel	0.6







Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
DFPB2	DFBB2	 2	1000	30	2.5
DFPB3	DFBB3	 3	1000	70	3.75



DEL/FLEX belts with guide
minimum drum ø(mm)

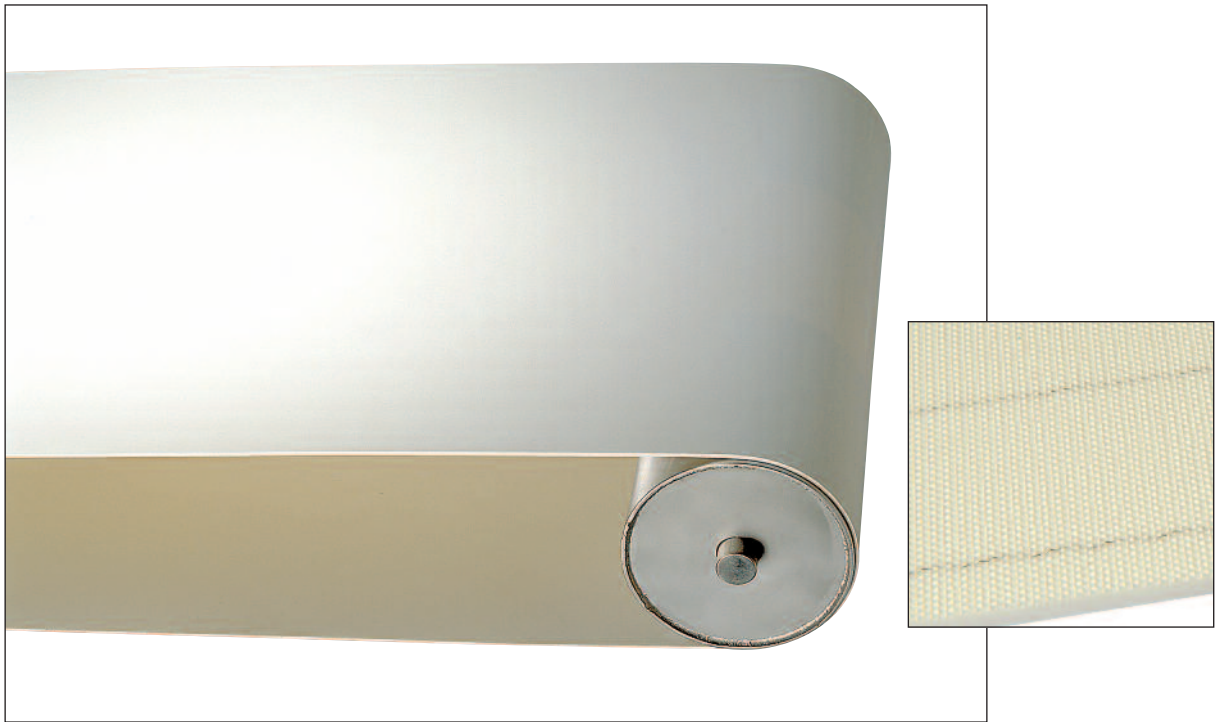
Belt thickness (mm)	 SOUPLEX guide (PU 85 ShA)					 SOUPLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	90	100	140	-	-	-	70	80	-	-
 3	110	130	180	220	280	-	85	100	140	200

Belt thickness (mm)	 SUPERFLEX guide (PU 70 ShA)					 SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	60	65	90	135	-	-	55	65	90	-
 3	80	85	100	150	-	-	70	80	110	-



SUPERFLEX 6 x 4 mm: consult us.

DEL/FLEX white with reinforcement ply



Characteristics

- **Food quality.**
- Low stretch.
- Good sliding on belt's support.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Excellent traction rating.
- Flexible.

Applications

- Medium or heavy loads.
- Long spacing.
- Short tensioning system.

Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

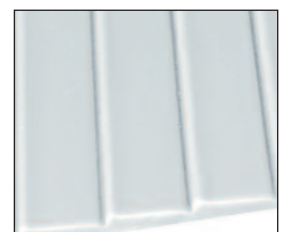
Guides, profiles, holes... on demand.

Bottom side with REINFORCEMENT ply

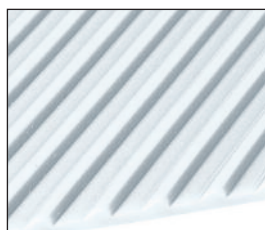
standard embossings



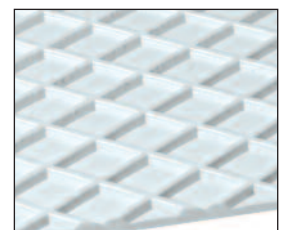
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

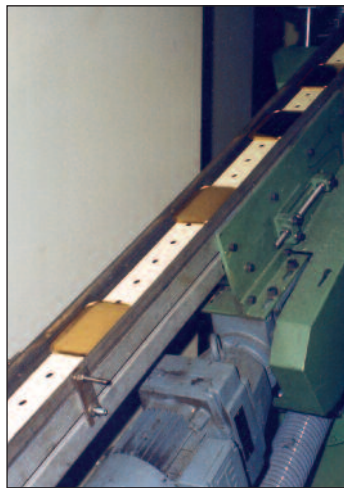


DEL/FLEX white with reinforcement ply

Material	polyurethane
Colour	white
Bottom side	polyester sheet
Top side	smooth
Hardness	93 ShA
Traction rating	
at 1% of tension	7 daN/cm of width
at 3% of tension	17,5 daN/cm of width
Installation tension	1 to 2% depending on conditions
Extreme temperatures	-20°C/+80°C
Friction coefficient on	
HDPE	0.25
Steel	0.35
Stainless steel	0.35



Reference		Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm				
DFPW3RF	DFBW3RF	3	1000	80	3.6



DEL/FLEX belts with reinforcement ply and guide
minimum drum ø(mm)



Belt thickness (mm)	SUPERFLEX guide (PU 70 ShA)					SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
3	90	100	120	160	-	-	90	100	130	-

Belt thickness (mm)	V/FLEX guide (PVC 60 ShA)					V/FLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
3	80	90	100	120	200	-	80	80	100	-



SOUPLEX green



Characteristics

- **Standard quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Grip.
- Very flexible.
- Stretchy.

Applications

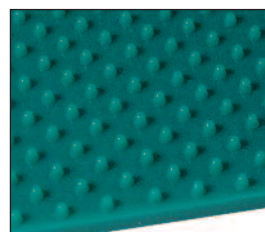
- Light load.
- Short spacing.
- Small drum Ø.

Compatible welding processes

- With welding iron and clamp.
- With heating press.
- With fasteners.

Guides, profiles, holes... on demand.

standard embossings



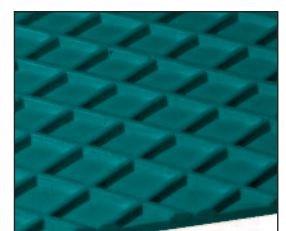
non-slip studded (PI)



sawtooth (US)



SG3 (SG)






diamond (LO)

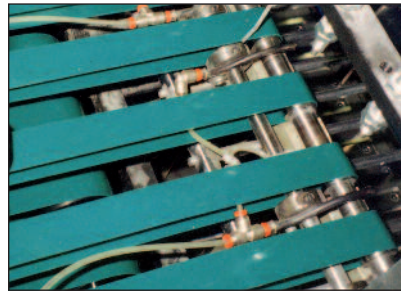
Maximum width: 380 mm.

SOUPLEX green

Material	polyurethane
Colour	green
Bottom side	smooth
Top side	smooth
Hardness	85 ShA
Traction rating	
at 2% of tension	4 daN/cm² of section
at 3% of tension	6 daN/cm² of section
at 4% of tension	8 daN/cm² of section
Installation tension	3 to 5% depending on conditions
Extreme temperatures	-20°C/+60°C
Friction coefficient on	
HDPE	0.35
Steel	0.6
Stainless steel	0.7













Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
SXPG2	SXBG2	 2	650	20	2.5
SXPG3	SXBG3	 3	650	40	3.75
SXPG4	SXBG4	 4	650	60	5



SOUPLEX belts with guide
minimum drum ø(mm)



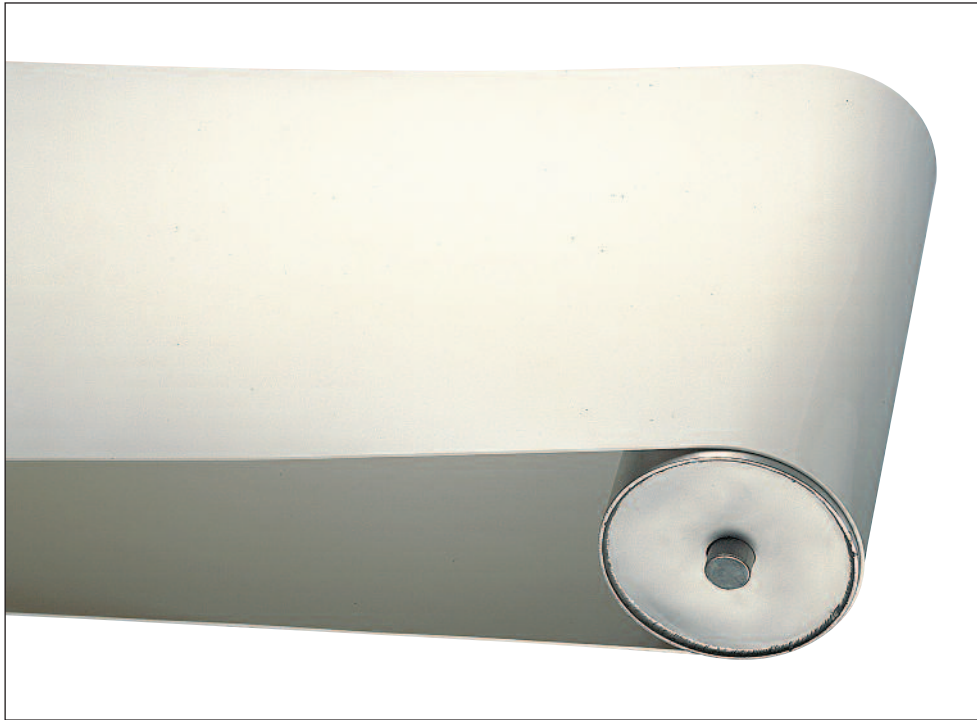
Belt thickness (mm)	 SOUPLEX guide (PU 85 ShA)					 SOUPLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	80	90	130	-	-	-	55	65	-	-
 3	100	120	160	200	260	-	70	80	120	180
 4	120	140	190	220	280	-	85	100	140	200

Belt thickness (mm)	 SUPERFLEX guide (PU 70 ShA)					 SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	40	60	80	-	-	-	40	55	-	-
 3	60	75	90	140	-	-	50	65	85	-
 4	80	90	110	160	-	-	70	80	100	-



SUPERFLEX 6 x 4 mm: consult us.

SOUPLEX white



Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Grip.
- Very flexible.
- Stretchy.

Applications

- Light load.
- Short spacing.
- Small drum Ø.

Compatible welding processes

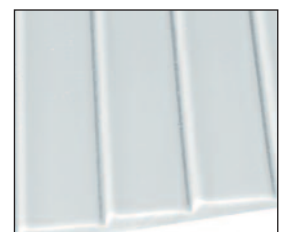
- With welding iron and clamp.
- With heating press.
- With fasteners.

Guides, profiles, holes... on demand.

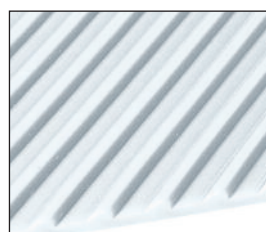
standard embossings



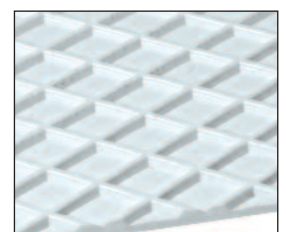
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

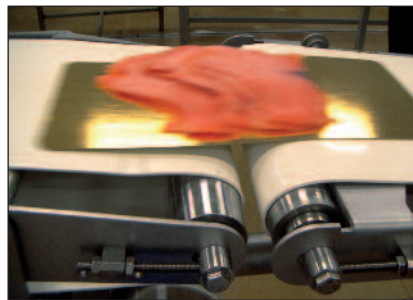


SOUPLEX white

Material	polyurethane
Colour	white
Bottom side	smooth
Top side	smooth
Hardness	85 ShA
Traction rating	
at 2% of tension	4 daN/cm² of section
at 3% of tension	6 daN/cm² of section
at 4% of tension	8 daN/cm² of section
Installation tension	3 to 5% depending on conditions
Extreme temperatures	-20°C/+60°C
Friction coefficient on	
HDPE	0.35
Steel	0.6
Stainless steel	0.7



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m ²)
SXPW2	SXBW2	2	650	20	2.5
SXPW3	SXBW3	3	650	40	3.75
SXPW4	SXBW4	4	650	60	5



SOUPLEX belts with guide
minimum drum ø(mm)



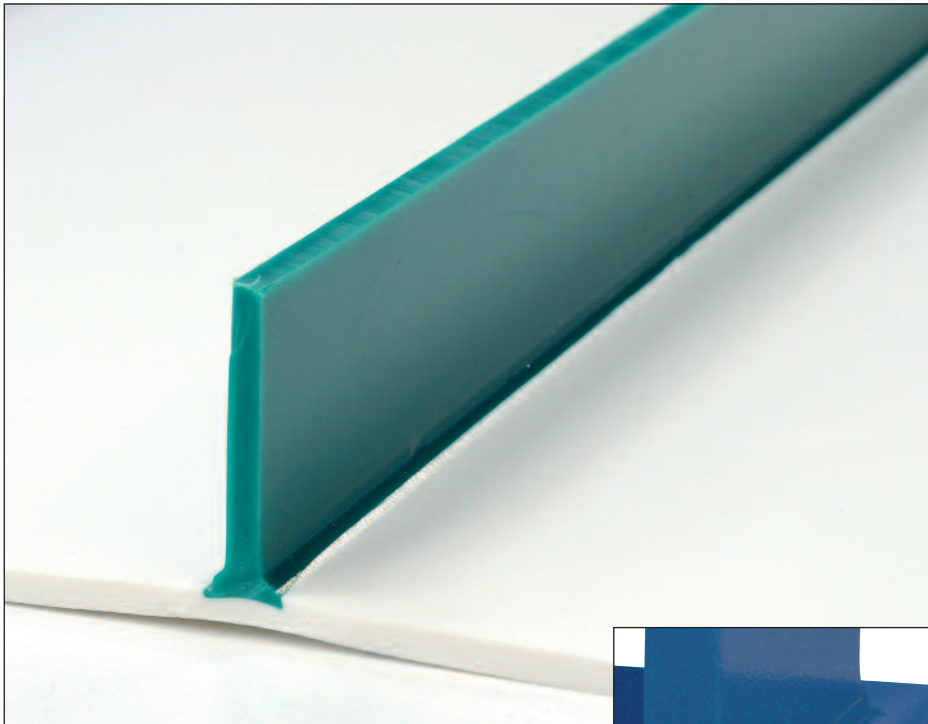
Belt thickness (mm)	SOUPLEX guide (PU 85 ShA)					SOUPLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	80	90	130	-	-	-	55	65	-	-
3	100	120	160	200	260	-	70	80	120	180
4	120	140	190	220	280	-	85	100	140	200

Belt thickness (mm)	SUPERFLEX guide (PU 70 ShA)					SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	40	60	80	-	-	-	40	55	-	-
3	60	75	90	140	-	-	50	65	85	-
4	80	90	110	160	-	-	70	80	100	-



SUPERFLEX 6 x 4 mm: consult us.

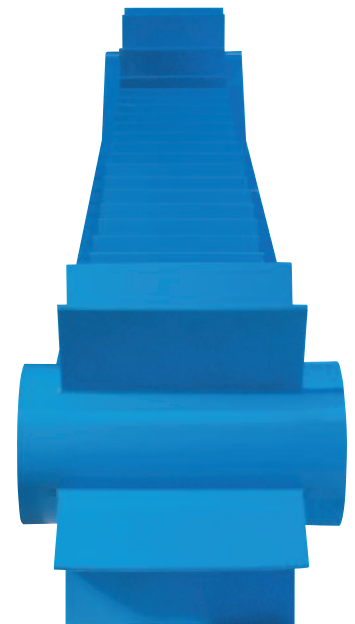
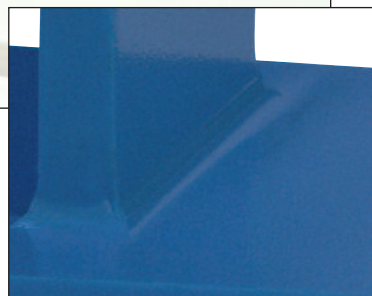
**profiles welded at High Frequency
on DEL/FLEX and SOUPLEX belts**



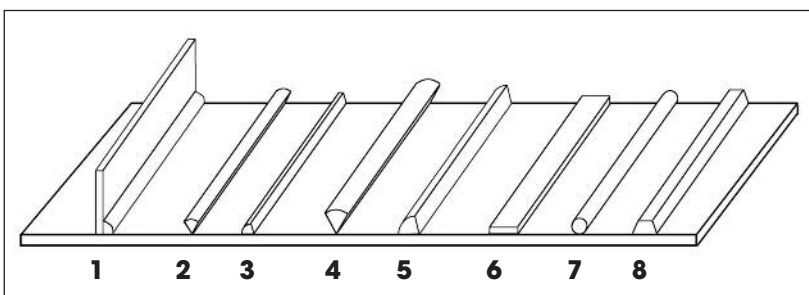
Profiles

Quality: **DEL/FLEX, SOUPLEX.**
 Maximum width: 800 mm.
 Thickness: 3, 4, and 7 mm.
 Minimum height: 10 mm.
 Maximum height: 100 mm.
 Minimum pitch: 70 mm.

- No glue, no added polyurethane (welding at high frequency).
- Excellent resistance to tear.
- Profile with rounded base:
 - easy to clean,
 - reduces bacteria development.



**profiles welded by hot air
on DEL/ROC, DEL/FLEX and SOUPLEX belts**



Profiles

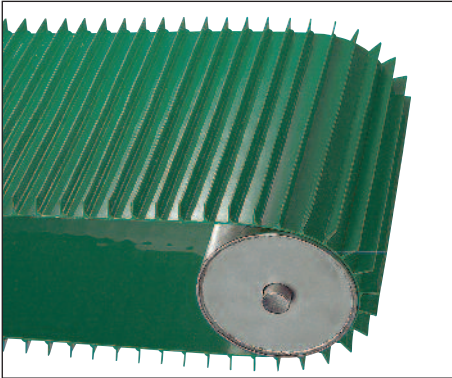
Quality: **DEL/ROC, DEL/FLEX, SOUPLEX.**
 Maximum width: As wide as the belt.
 Thickness: 2, 3, 4, and 5 mm.
 Minimum height: 10 mm.
 Maximum height: Depends on thickness.
 Minimum pitch: height of the profile.

- 1 - Right or inclined profiles welded with welding beading.
- 2 - 4 mm-high triangle, welded on its point.
- 3 - 4 mm-high triangle, welded on its side.
- 4 - 6 mm-high triangle, welded on its point.
- 5 - 6 mm-high triangle, welded on its side.
- 6 - Flat profile.
- 7 - Round profile.
- 8 - V profile.

Other profile: consult us.



belts with profiles



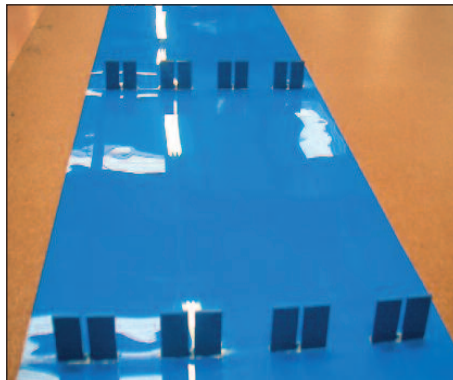
Profiles ...very close



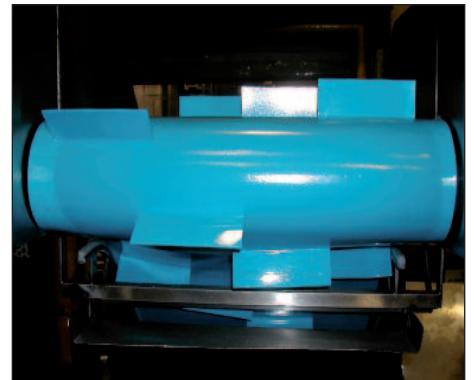
...very high



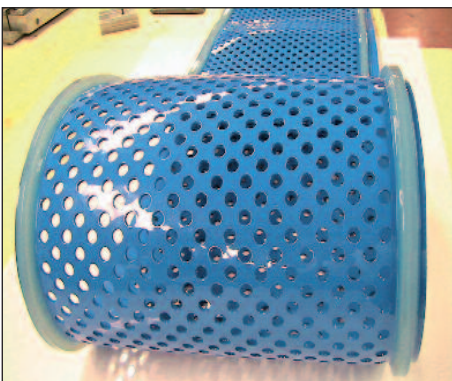
...inclined



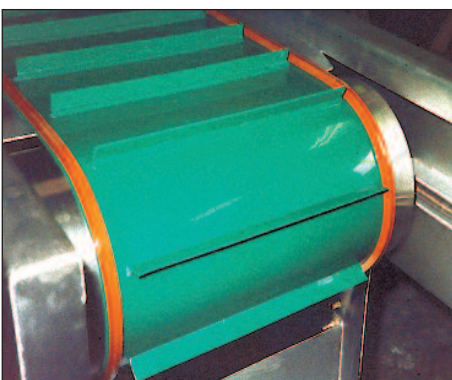
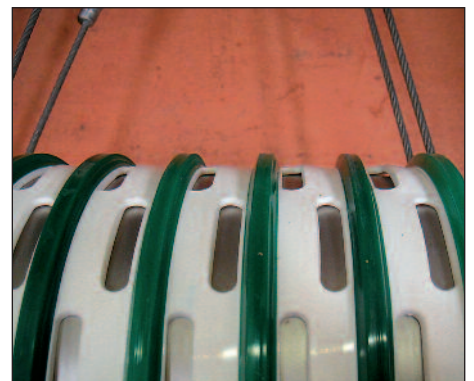
...specials



special belts



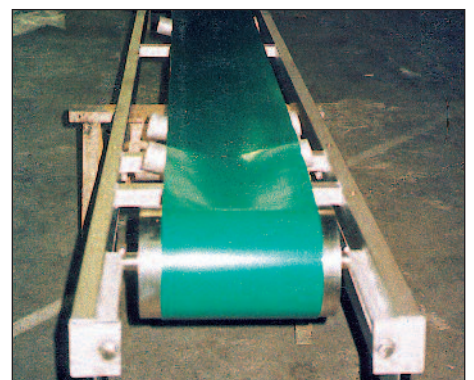
...with holes on demand



...with V guides and profiles



...with sidewalls



...U-shape

TOTALGRIP and EXTRAGRIP
translucent surfaces

Material	polyurethane
Colour	translucent
Bottom side	smooth or brushed
Top side	smooth or embossed
Hardness	
TOTALGRIP Food quality	70 ShA
EXTRAGRIP Standard	60 ShA



Standard embossings possible on top side.

Characteristics

- Excellent grip.
- Very flexible.
- Very stretchy.
- Good resistance to shocks.
- Good resistance to wear

Applications

- Pulley covering.
- Sleeve.
- Scraper, protection...
- Surfaces on flat belts and V belts.
- Transport of very light loads along very short distances.

Reference TOTALGRIP		Belt thickness (mm)	Maximum width (mm)	Weight (kg / m ²)
Width < 100 mm	Width ≥ 100 mm			
TLPT1	TLBT1	1	400	1.25
TLPT3	TLBT3	3	400	3.75
TLPT4	TLBT4	4	400	5

Reference EXTRAGRIP		Belt thickness (mm)	Maximum width (mm)	Weight (kg / m ²)
Width < 100 mm	Width ≥ 100 mm			
XLPT3	XLBT3	3	400	3.75
XLPT4	XLBT4	4	400	5

PRIMAFLEX black

Material	polyurethane
Colour	black
Bottom side	smooth or brushed
Top side	smooth or embossed
Hardness	90 ShA



Standard embossings possible on top side.

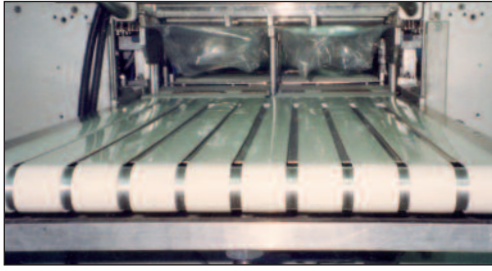
Characteristics

- Good resistance to shocks.
- Good resistance to wear.
- Good resistance to cuttings.
- Good resistance to tear.

Applications

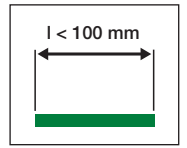
- Wheel saw covering.
- Scrapers, protection...

Reference		Belt thickness (mm)	Maximum width (mm)	Weight (kg / m ²)
Width < 100 mm	Width ≥ 100 mm			
PRPN3	PRBN3	3	400	3.75
PRPN4	PRBN4	4	400	5



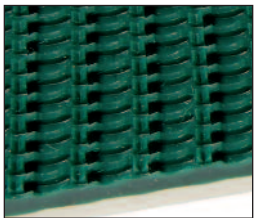
flat belt

- Small conveyor belt, width below 100 mm.
- Quality : **DEL/ROC**, **DEL/FLEX** and **SOUPLEX**.
- Non-slip studded, sawtooth, SG3 and diamond embossings possible (P7) on **DEL/FLEX** and **SOUPLEX** belts.

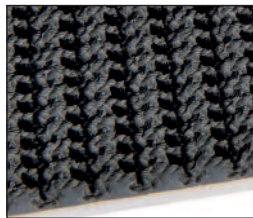


flats belts with surfaces

- Surfaces on **DEL/ROC**, **DEL/FLEX** and **SOUPLEX** (except Supergrip PVC on **DEL/FLEX** belts).
- Maximum width: 140 mm.



PVC Supergrip 35 ShA (NA)



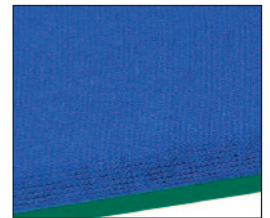
rubber Supergrip 50 ShA (NC)



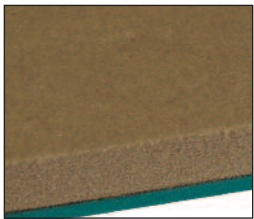
polyester felt (FP)



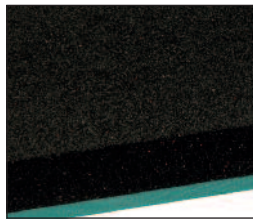
Aramid felt (FA)



Lycra 25 ShA (LY)



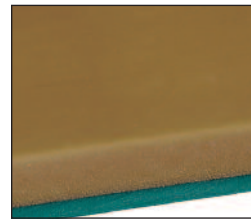
Sylomer foam 40 ShA (MS)



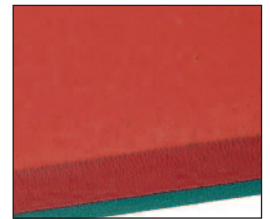
cellular foam 20 ShA (MC)



rubber 30 ShA (CA)



Para 45 ShA (PA)



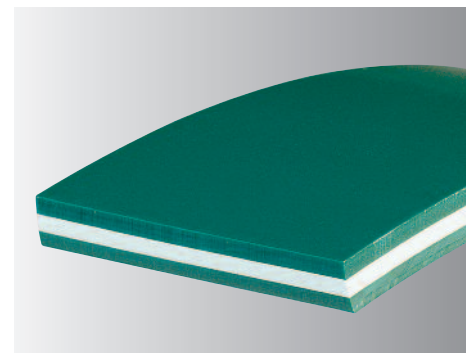
Linatech 40 ShA (LI)

Other surfaces, consult us.

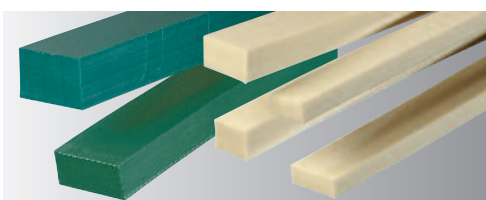
multi-material flat belts

- Alternated layers of polyurethane flat belts in standard thicknesses, welded one on top of the other.
- Insertion of aramid reinforcement between two polyurethane layers possible.
- Maximum width: 140 mm. • Maximum thickness: 35 mm.

Quality:	DEL/FLEX	SOUPLEX	TOTALGRIP	EXTRAGRIP
Hardness:	93 ShA	85 ShA	70 ShA	60 ShA
Colour:	green blue white	green white	translucent	translucent
Thickness:	2 - 3 - 4 - 5 mm	2 - 3 - 4 - 5 mm	1 - 3 - 4 mm	3 mm



Embossings possible on top side.



bars

- Quality : **DEL/ROC**, **DEL/FLEX**, **SOUPLEX**, **TOTALGRIP** and **EXTRAGRIP**.
- Maximum width: 140 mm
- Maximum thickness: 35 mm.

Flat belts up to 50 mm wide



M51 Welding iron

with teflon-covered blade

Thermostated 200 W



M50

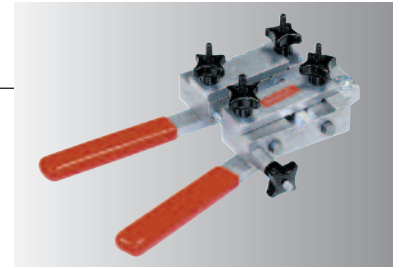
with chromed blade



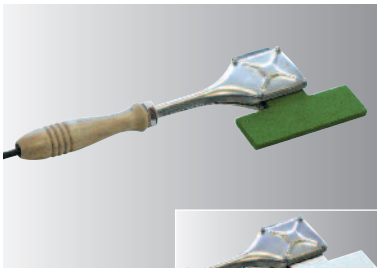
J50 Welding clamp

with grooves for round belts

Plastic handle on demand.



Flat and conveyor belts up to 120 mm wide



M101 Welding iron

with teflon-covered blade

Thermostated 300 W

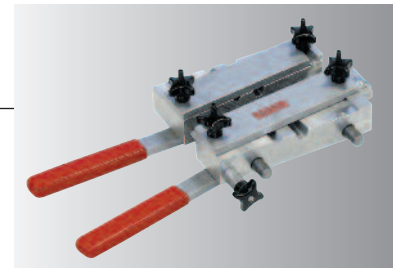


M100 Welding iron

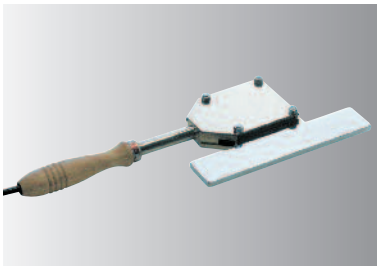
with chromed blade

J100 B Welding clamp

with grooves for 10 x 6 mm and 13 x 8 mm V guides



Conveyor belts up to 210 mm wide

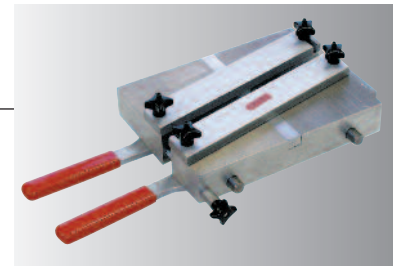


M200 Welding iron

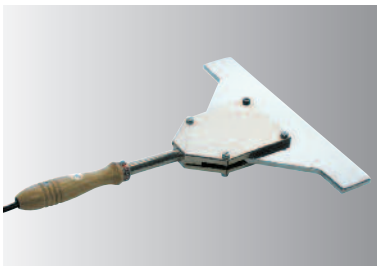
Thermostated 600 W

J200 B Welding clamp

with grooves for 13 x 8 mm and 17 x 1 mm V guides



Conveyor belts up to 310 mm wide

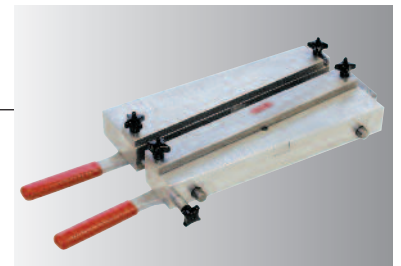


M300 Welding iron

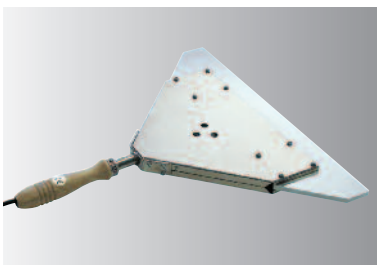
Thermostated 800 W

J300B Welding clamp

with grooves for V guides up to 22 x 14 mm



Conveyor belts up to 410 mm wide

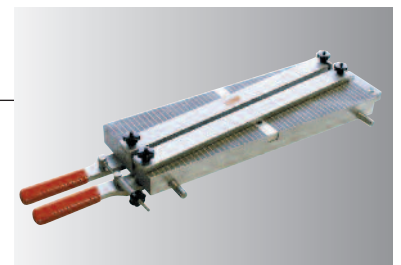


M400 Welding iron

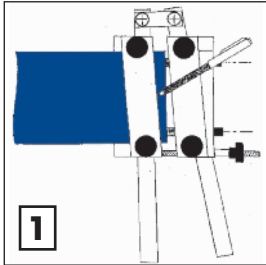
Thermostated 800 W

J400B Welding clamp

with grooves for V guides up to 22 x 14 mm



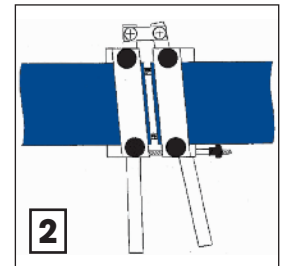
welding process for flat and conveyor belts



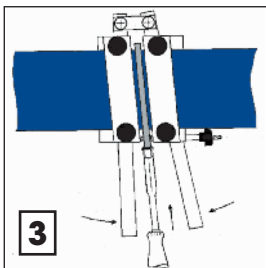
Plug the welding iron (**M50 to M400**)

As our welding iron includes a thermostate, you should plug the iron in at least 8 minutes before welding, 15mn if you use a **M200, M300 or M400**.

Draw and cut the belts ends, following the clamp angle (**J50 to J400** , depending on the belt's width).



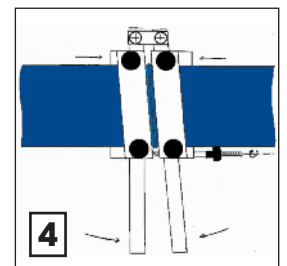
Insert the ends of the belt into the appropriate clamp (**J50 or J60**), allowing 5 mm of each end to protrude into the inside (If the belt to weld is a **DEL/ROC**, strongly tighten the top screws of the clamp).



Slide the blade in between both ends of the belt and make sure that the blade bears on the whole surface to weld.

Tighten slightly and leave the ends melt.

Wait until you get a good bead of melted material on each side.



Open the clamp, quickly remove the welding iron and re-close at once, tightening accordingly to the cross section of the belt (the bigger the belt, the more tightened the clamp).

Maintain the clamp closed using the side screw and let the belt cool (which should take between 2 and 5 minutes, depending on the size of the belt).

NB: DEL/ROC belts cool a lot faster than the other MAFDEL qualities. If you do weld a DEL/ROC belt, this step will have to be handled even faster.



Clean the welding point.

Check the alignment of the welding point, as well as its homogeneity (no bubble of air and solidity (by bending it).

Fit the belt on the machine.

NB: Always use a clean and very hot welding iron. Both ends of the belt to weld should be perfectly clean as well.

CLEAN THE BLADE OF THE WELDING IRON IMMEDIATELY

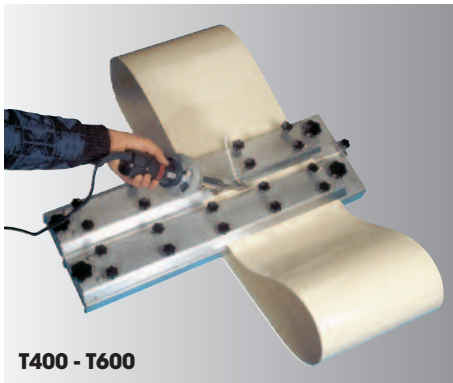
M51 or M101 welding iron:
wipe the blade with a clean 100% cotton cloth.

Other irons:
remove most of the melted material with the blade of a knife (without scraping the iron), and wipe the rest out with a clean 100% cotton cloth.

Do not use any cloth that may contain synthetic materials, which would melt in contact with the blade of the welding iron, and then contaminate the welding iron.



hot air welding



T400 - T600

- Butt-welding with a welding triangle in fusion inserted between the belt ends, previously cut with a 45° chamfer.

Necessary tools:

- **1/4 moon knife** for the ends chamfer and the welding point cleaning.
- **T400 or T600 welding table** to hold the belt while being chamfered and welded.
- **TR600 Hot air gun** with **BR5 or BR7 nozzle** for the insertion of the welding triangle.



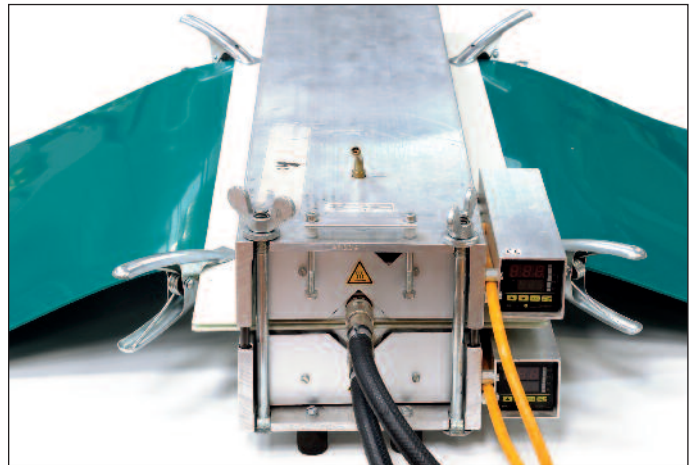
Can also be used to repair worn belts on site or weld profiles on our belts.

welding with heating press

Process similar to the one for regular plied conveyor belts.

- **DEL/FLEX** and **SOUPLEX**: 90° cut and overlapping of both extremities along 5 mm into the press.
- **DEL/FLEX** belts with reinforcement ply: sawtooth cut recommended.

Not compatible with **DEL/ROC flat and conveyor belts**.



fasteners

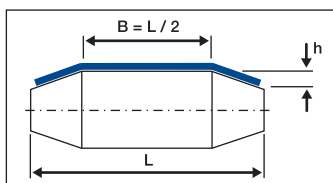


- Joining with 2 half-fasteners on a stainless steel shaft.
- Belt thickness: from 1,5 mm to 5 mm.
- No width limit.
- Insertion with hammer, no rivet.
- Compatible with all our flat or conveyor belts **DEL/ROC, DEL/FLEX** and **SOUPLEX**.

For belts frequently removed and installed again / Repairing.

conveyor belts driving

To center a conveyor belt, we recommend the use of rounded drums or drums with cone-shape ends.



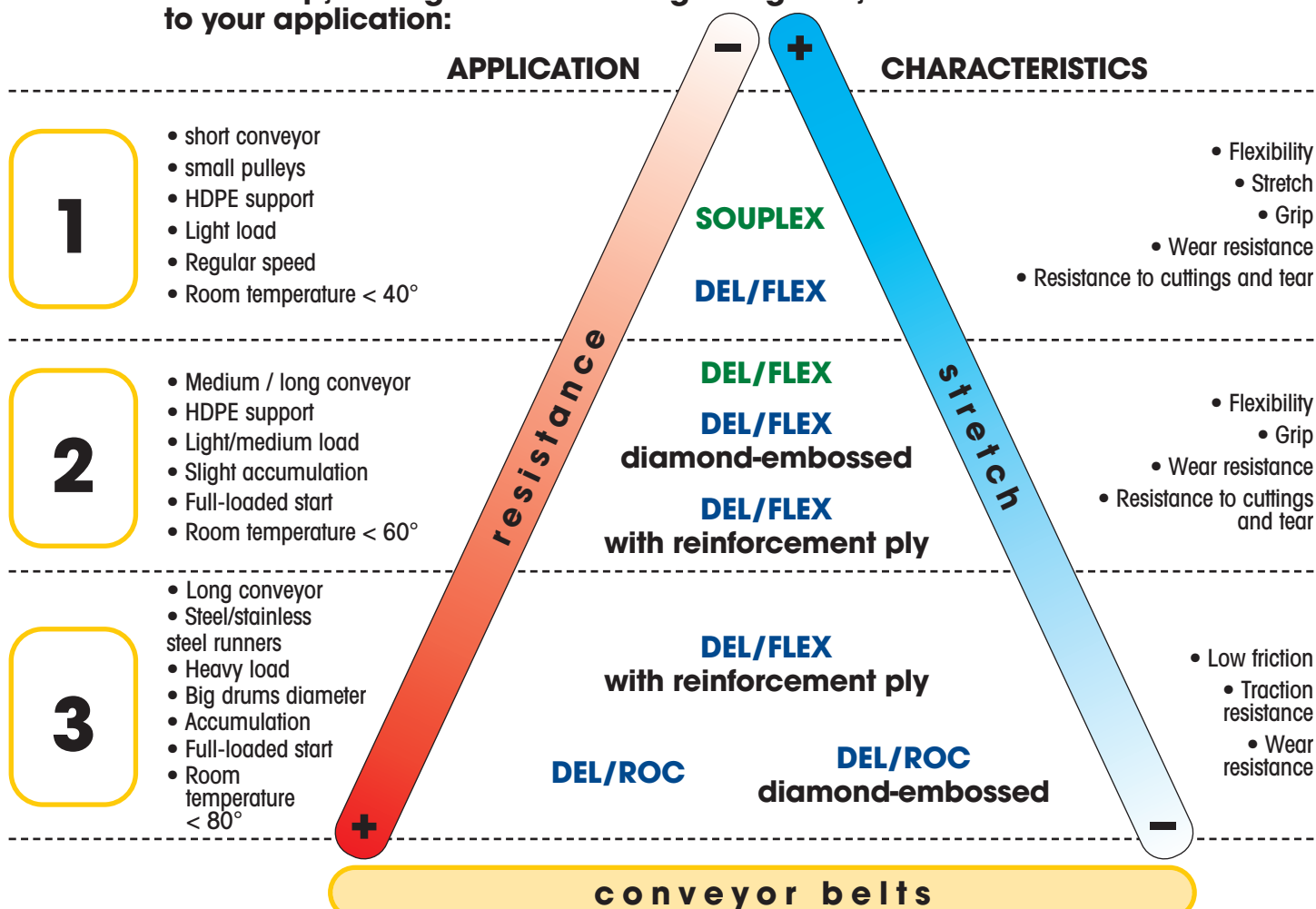
L	h
up to 200 mm	0,25 to 0,5 mm
200 mm to 500 mm	0,5 to 1 mm
500 mm to 1000 mm	1 to 1,5 mm

choosing a conveyor belt

To choose the right belt, you need to know the characteristics of the conveyor, the working conditions and the conveyed products:

CONVEYOR	PRODUCT TRANSPORTED	WORKING CONDITIONS
length of the conveyor	maximum transported weight	continuous or stop-and-go driving
diameter of the pulleys	nature of the product	accumulation
Type of support	spreading of the weight along the conveyor	other efforts, pressure, etc...
length of the tensioning system	temperature of the product	room temperature

Choose up, amongst the 3 following categories, which one best matches to your application:



Into the selected category, choose the quality of belt whose general characteristics, such as **resistance, hardness, friction coefficient, stretch, operating temperature...** are the closest to the ones your are looking for.

Examples :

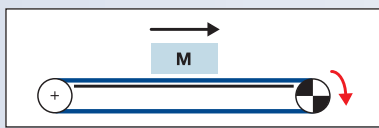
- In case of accumulation of the products transported on the belt, choose the quality with the lowest friction coefficient.
- To convey heavy loads, choose the strongest and less stretchy quality.



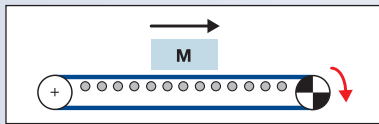
conveying / simplified calculations

SYMBOLE	MEASURES	DESIGNATION	BELT CHARACTERISTICS (in catalog)
M	Kg	Transported load	
Mmax	Kg	Maximum load limit per belt	
F	daN	Minimum traction force for the continuous driving of the load M	
F'	daN	Minimum traction force for full-loaded starts with the load M	
Ft	daN	traction force of the chosen belt	X
t	%	Stretch corresponding to the traction force of the belt Ft	X
Cf		Friction coefficient of the belt on its runner	X
Cr		Rolling coefficient of the belt on its support (0.05 to 0.1 according to the conditions: smooth support, bearings,...)	
Cfp		Friction coefficient on the transported product on the belt	
Cs		Safety coefficient	

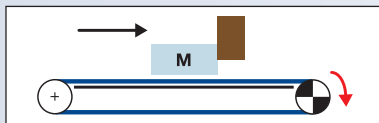
type of conveyor



CONVEYOR WITH SUPPORT PLATE



CONVEYOR WITH SUPPORT ROLLERS



CONVEYOR WITH ACCUMULATION

For all type of conveyors, in case of **STOP-AND-GO DRIVING** (full-loaded starts):

simplified calculation of the needed traction force to drive a specific load

$$F = M \times Cf$$

$$F = M \times Cr$$

In case of accumulation, take into account the friction coefficient of product to convey on the belt. Add this value to the friction coefficient of the belt on its support:

$$F = M \times (Cf + Cfp)$$

The traction force **F** determined above must be multiplied by 2.

$$F' = F \times 2$$

simplified calculation of the maximum load limit per belt

$$M_{max} = Ft / Cf$$

$$M_{max} = Ft / Cr$$

$$M_{max} = Ft / (Cf + Cfp)$$

As you calculate **Mmax**, only take into account half the traction force of the selected belt.

$$Ft/2$$

example

Conveying in food industry of 100kg on a 300mm wide conveyor belt.

Wet conditions - belt cleaned very often.

Stainless steel plate support.
Conveyor spacing: 10 meters.
Drums diameter: 150 mm.
Stop-and-go driving.

choice of a belt category (page 31)

Long spacing
Medium load
Full-Loaded start
Stainless steel plate

CATEGORY 3

DEL/FLEX with reinforcement ply
DEL/ROC smooth
DEL/ROC diamond-embossed

Calculation of the maximum load limit on the selected belts

	DEL/FLEX with reinforcement ply 3 mm thick	DEL/ROC 2 mm thick	DEL/ROC 3 mm thick	
Friction coef. on stainless steel	Cf	0,35	0,5	0,5
Traction force of the belt at 1% tension	Ft (daN)	7 daN / cm width 210	18 daN / cm ² section 108	18 daN / cm ² section 162
Maximum load limit on the belt with full-loaded start	Mmax (Kg)	300	108	162
Safety coef.	Cs = Mmax / M	3	1,1	1,6

solutions

The drum diameters of the belts previously selected being compatible with the application, 2 solutions can be studied, with a reasonable safety coefficient:

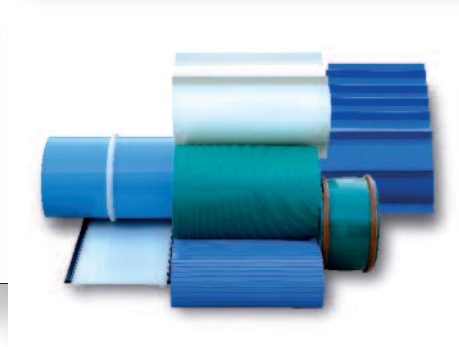
- DEL/FLEX with reinforcement ply 300 x 3mm
- DEL/ROC 300 x 3 mm

We will finally choose a **DEL/ROC** with diamond-embossed bottom side:

- Better sliding on stainless steel plate than smooth **DEL/ROC** in wet conditions.
- Better resistance to cleaning than a **DEL/FLEX** with reinforcement ply.



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