

**POSITIVELY DRIVEN**  
CONVEYOR BELTS



# CONFIGURATION

HORIZONTAL CONVEYOR



BIDIRECTIONAL CONVEYOR



FLIGHTED AND SIDEWALL CONVEYOR



SWAN-NECK CONVEYOR



TROUGHED CONVEYOR



# ADVANTAGES



Our positive drive homogeneous conveyor belts combine all the **advantages of modular belts and solid conveyor belts without the hygiene issues.**

Made of polyurethane or polyester elastomer, these belts are suitable **for most handling applications** in a variety of industries, particularly in the **food-processing industry.**



## OPTIMIZED OPERATION

- No risk of slippage, even in greasy and humid environments
- Belt operates without tension, reducing the stress on the conveyor's mechanical components: shafts, anti-friction bearings, roller bearing, etc.
- No need for tensioners
- Lightweight
- Silent operation
- High abrasion and tear resistance
- For belts fitted in pairs, the positive drive ensures synchronized operation
- Fully moulded teeth



## OPTIMAL HYGIENE LEVEL

- Fully EC-FDA compliant
- Solid impervious and rot-proof belt
- Labour and water saving
- Resistant to all common food industry chemicals including solvents, oils, greases...
- Suitable for scraper applications



# ADVANTAGES



## REDUCED PRODUCT CONTAMINATION

- Reduced risk of bacterial growth
- No fabric contamination removing the risk of fraying
- No detachable parts
- Reduced contamination risk



## LOWER OPERATING COSTS

- Long service life
- Quick and easy to clean without dismantling
- Significant reduction in water and detergent consumption
- Low maintenance costs



	MODULAR BELT	HOMOGENEOUS CONVEYOR BELT	POSITIVELY DRIVEN CONVEYOR BELT
Hygiene and cleanability	-	+	+
Durability and impact resistance	-	+	+
Lower consumption of water and detergents	-	+	+
No slippage	+	-	+
Belt weight	-	+	+
No belt tensioning system	+	-	+
Reduced stress on conveyor components	+	-	+
Suitable for scraper	-	+	+
Troughing application	-	+	+

# CHARACTERISTICS



Our positive drive belts comply with the **most stringent international standards**, and help maintain an optimal level of hygiene to **meet the HACCP\* requirements**, in the following fields:



Poultry



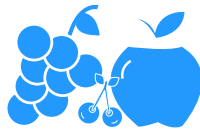
Meat



Fish



Cheese dairies



Fruit



Vegetables



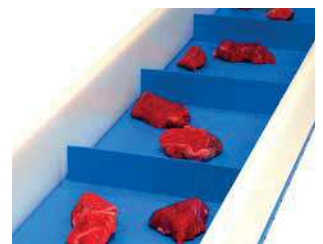
Bakeries- Industrial  
pastry-making



Ready meals



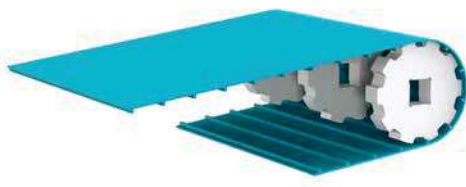
Frozen foods



\*HACCP : Hazard Analysis Critical Control Point



# CHARACTERISTICS



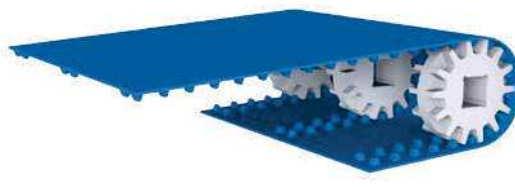
## DEL/DRIVE®

Positive drive

Direct retrofit  
on modular applications

Teeth over the entire width

Operation without tension



## POSITIVEBELT®

Self-tracking positive drive

Perfect tracking

Double rows of teeth

Operation without tension



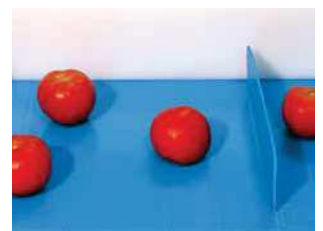
## DEL/SYNC®

Fully synchronous drive

Accurate positioning

Centrally positioned teeth

Tensioned operation



# DEL/DRIVE® 50



**“THE IDEAL ALTERNATIVE TO MODULAR BELTS”**



	DEL/DRIVE® 50	DEL/DRIVE® 50H	DEL/DRIVE® 50EMLT
Reference	DDB50B9	DDB50B9H	DDB50B9EMLT
<b>Material</b>	<b>Polyurethane</b>	<b>Polyester elastomer</b>	<b>Polyurethane</b>
Colour	Blue	Blue	Blue
Top surface	<b>Smooth</b>	<b>Smooth</b>	<b>Embossed</b>
Hardness	95 ShA	55 ShD	92 ShA
Pitch* (mm)	50	50	50
Thickness (mm)	3	3	3
Overall thickness (mm)	9	9	9
Maximum width (mm)	1 100	1 100	1 100
Weights	4.8 kg/m <sup>2</sup>	4.4 kg/m <sup>2</sup>	4.8 kg/m <sup>2</sup>
Min. pulley diameter (mm)	95	128	95
Min. pulley diameter - back flex (mm)	100	150	80
Temperature range	-20°C to +60°C	-20°C to +80°C	-30°C to +50°C
Traction force at 2,5% elongation for 100 mm width	65 daN	160 daN	35 daN
<b>Friction coefficient</b>			
On HDPE bed	0.2	0.15	0.25
On stainless steel bed	0.52	0.45	0.6

\*Exact value : Contact us

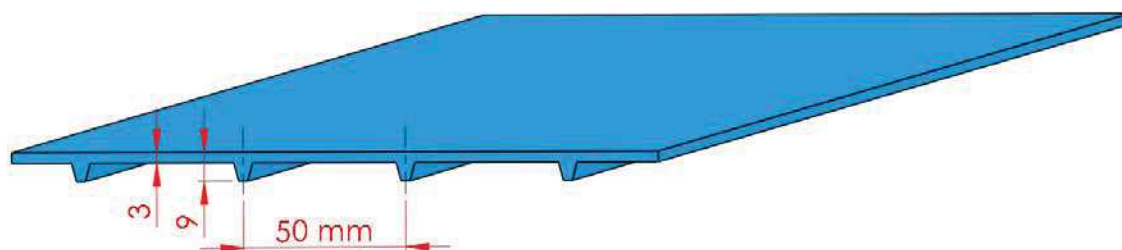


# DEL/DRIVE® 50



The DEL/DRIVE® positive drive belt meets the **most stringent standards of hygiene** and is **the ideal alternative to conventional modular belts**. It replace a modular belt without any modifications. It is either driven on a sprocket or a motorized drum.

The DEL/DRIVE® belt is installed **without tension**, thereby reducing stress on the conveyor's mechanical components: shafts, anti-friction bearings, roller bearing, etc. DEL/DRIVE® can be configured with flights, sidewalls or other profiles (see page 18).



The DEL/DRIVE® comes in several versions to meet all needs:

**The DEL/DRIVE® 50** belt in polyurethane is both flexible and has high tensile strength. It is the ideal solution for the conveyance of light to medium-weight loads.

**The DEL/DRIVE® 50AM** belt has the same characteristics as the DEL/DRIVE® 50 belt plus an infused antimicrobial treatment. DEL/DRIVE® 50AM improves food safety by inhibiting the proliferation of bacteria.

This prevents the contamination of transported products.

A further benefit is the reduction of odours and cleaning cycles.

**The DEL/DRIVE® 50AMEM** belt has an infused antimicrobial treatment and an embossed top surface that reduces adherence of the products on the belt.

**The DEL/DRIVE® 50H** belt in polyester elastomer is recommended for medium to heavy loads and can be used with long centre-to-centre distances. In certain cases, its high tensile strength and low friction coefficient permits a build-up of transported products. It can withstand higher peak temperatures, depending on the load.

**The DEL/DRIVE® 50EMLT** belt is specially designed to operate in very low ambient temperatures. Its embossed top surface facilitates the conveyance of frozen products.

**The DEL/DRIVE® 50/25** belt has 50mm drive teeth on one face, and 25mm drive teeth on the other allowing one side to drive and the other to act as low flights for increased grip.



# DEL/DRIVE® 50



## SPROCKETS AND IDLER WHEELS



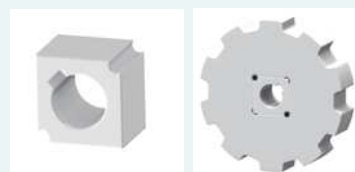
REFERENCE	PRODUCT	MATERIAL	NUMBER OF TEETH	OUTER DIAMETER	SQUARE BORE	WIDTH (mm)
P50WUN06	Sprocket	HDPE	6	95	40	32
R50WUN06	Wheel	HDPE	-	83	40	32
P50WUN08	Sprocket	HDPE	8	128	40	32
R50WUN08	Wheel	HDPE	-	116	40	32
P50WUN10	Sprocket	HDPE	10	161	40	32
R50WUN10	Wheel	HDPE	-	149	40	32
P50WUN12	Sprocket	HDPE	12	193	40	32
R50WUN12	Wheel	HDPE	-	181	40	32

Flanged sprockets and wheels are available on request.

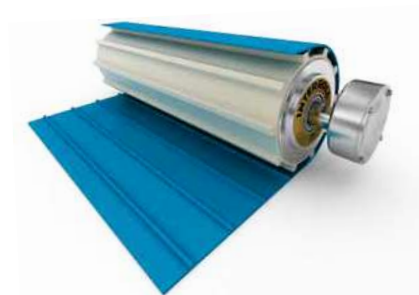
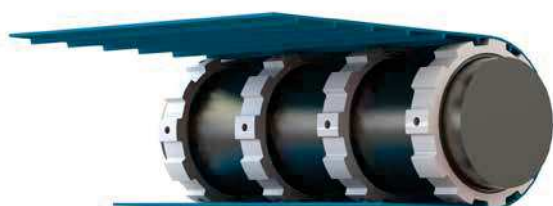


The standard sprockets we offer have a square bore for a 40x40 mm drive shaft.

**They can be mounted on other shafts with special adapters.**  
Please enquire for any other dimensions of round or square shaft.



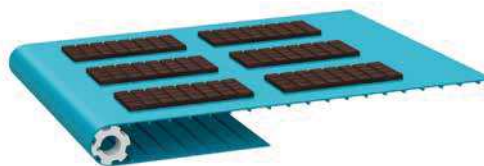
On a smooth driving drum, sprockets can be mounted on bushings or a driving drum with profiled polyurethane lagging.



# DEL/DRIVE® 25



**"POSITIVE DRIVE ON SMALL PULLEY DIAMETERS"**



		DEL/DRIVE® 25	
Reference		DDB25B5.3	DDB25B5.8
Material		Polyurethane	
Colour		Blue	Blue
Top surface		<b>Smooth</b>	<b>Smooth</b>
Hardness		95 ShA	95 ShA
Pitch (mm)		25.3	25.3
Thickness (mm)		1.7	2
Overall thickness (mm)		5.3	5.8
Max. width (mm)		<b>530</b>	<b>1200</b>
Weights		2.8 kg/m <sup>2</sup>	
Min. pulley diameter (mm)		48	56.7
Min. pulley diameter - back flex (mm)		50	60
Temperature range		-20°C to +60°C	
Traction force at 2% elongation		25 daN for a width of 100mm	230daN for a width of 100mm
Friction coefficient			
On HDPE bed		0.2	
On stainless steel bed		0.55	



The DEL/DRIVE® 25 belt is flexible, light with a small pitch and thickness for smaller diameter sprockets. It thus reduces the space requirements of conveyors and facilitates the transfer of transported products.



## DRIVE SPROCKETS



REFERENCE	MATERIAL	NUMBER OF TEETH	OUTER DIAMETER (mm)	BORE (mm)		WIDTH (mm)
				square bore	round bore	
P25WUN06	HDPE	6	48	-	25	25
P25WUN07	HDPE	7	56.7	-	25	25
P25WUN08	HDPE	8	65	-	25	25
P25WUN10	HDPE	10	81	40	-	25
P25WUN12	HDPE	12	97.5	40	-	25

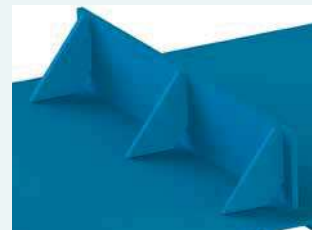
# ACCESSORIES



## PROFILES

- 2 types of profile: rounded and flat.
- The rounded base of the profiles makes belt cleaning easier and avoids bacterial development.
- Profiles can be high-frequency welded.\*
- Flight supports can be used to reinforce the profiles for heavy loads.

\* Except on the DEL/DRIVE® 50H belt and POSITIVEBELT® polyester elastomer, on which the profiles are hot fillet-welded.

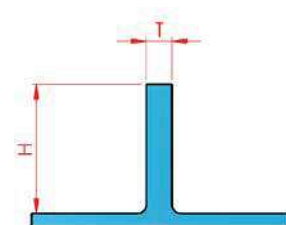


Flight supports

## FLAT PROFILES

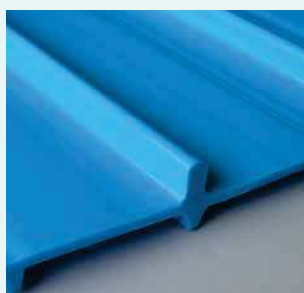


T: THICKNESS (mm)	H: HEIGHT (mm)	MAX. WIDTH (mm)	MIN. PITCH (mm)
2	5 to 100	800	70
3	5 to 100	800	70
4	5 to 100	800	70
5	5 to 100	800	70

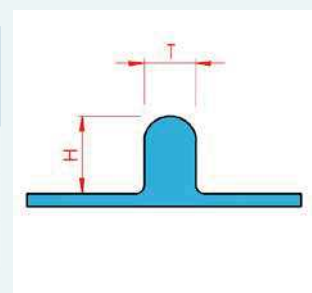


Please enquire for other thicknesses.

## ROUNDED PROFILES



T: THICKNESS (mm)	H: HEIGHT (mm)	MAX. WIDTH (mm)	MIN. PITCH (mm)
6	10	800	70
9	14	800	70
12	18	800	70



## SIDEWALLS

- For better containment of loose products.
- 20 to 80 mm high.
- Lateral trapezoid-shaped guides can be welded.
- The belt pulley diameter should be at least 2.5 times bigger than the height of the sidewalls.





# ACCESSORIES

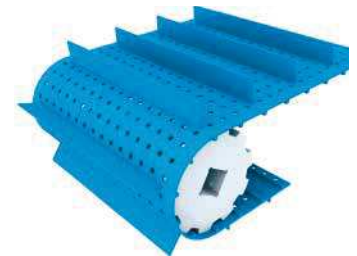
## TROUGH CONFIGURATION

The flexibility and tension-free operation of the conveyor DEL/DRIVE® and POSITIVEBELT® belts allow special configurations that are not feasible with modular belts, such as trough configuration.



## PERFORATIONS

Perforated belts facilitate drainage of transported products. Material can be perforated on request to varying diameters.

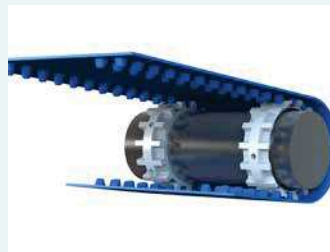


## DRIVING DRUM

The driving drum on DEL/DRIVE® or POSITIVEBELT® belts reduces the footprint of conveyors and makes cleaning easier.

Solution 1: Smooth drum fitted with HDPE sprockets on stainless steel bushing (DEL/DRIVE® and POSITIVEBELT®).

Solution 2: Drum with profiled lagging in polyurethane (DEL/DRIVE®).



Solution 1



Solution 2

## RETAINING CLIP

The retaining clip locks the sprockets, wheels and disks laterally on a square 40x40 mm shaft.



# JOINING METHODS



## BUTT WELDING

With sets of plates adapted for the tables, the welding tools for thermoweldable homogeneous belts can join DEL/DRIVE® 50, DEL/DRIVE® 25 and POSITIVEBELT® end to end while at the same time respecting the spacing.

Easy to handle, easy and quick to joint in the workshop and on site.



REFERENCE	MAX. WIDTH (mm)	WATTAGE (WATT)	VOLTAGE (V)
KITSOUDURED400	400	615	220
KITSOUDURED650	650	900	220
KITSOUDURED1100	1100	1450	220



The welding kit comprises:

- A heater bar
- A welding table
- Instructions
- Accessories
- A plastic case on caster wheels

REFERENCE	MAX. WIDTH (mm)	PRODUCT	VISUAL
PLAQMD400-DD25	400	DEL/DRIVE® 25	
PLAQMD650-DD25	650		
PLAQMD1100-DD25	1100		
PLAQMD400-DD50	400	DEL/DRIVE® 50	
PLAQMD650-DD50	650		
PLAQMD1100-DD50	1100		
PLAQMD400-PO1	400	POSITIVEBELT® PO1	
PLAQMD400-PO	400	POSITIVEBELT® PO2	
PLAQMD650-PO	650		
PLAQMD1100-PO	1100		

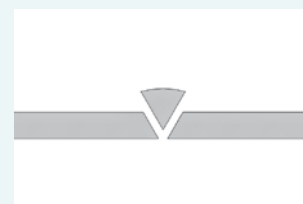
## PRESS JOINTING

Serrated jointing of the DEL/SYNC®.  
Cut with special tooling.  
Compatible 5-bar press – Heating length 180 mm.



## HOT AIR WELDING

Butt welding possible with welding seam.  
Hot air welding also allows welding of profiles and belt repairs in situ in the event of snags.





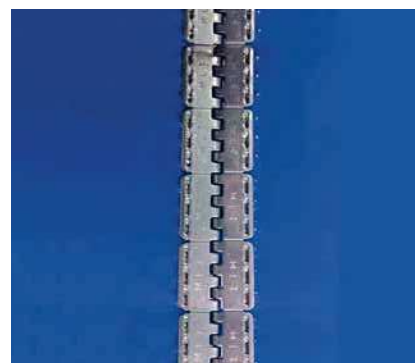
# MECHANICALLY FASTEN JOINS

The DEL/DRIVE® 50 and POSITIVEBELT® conveyor belts can be jointed with mechanically fasten joins in case of frequent mounting/dismantling or repairs.

The clips facilitate removal of the belt by removing the spindle between the 2 ends for quick dismantling and cleaning of the belt and conveyor.

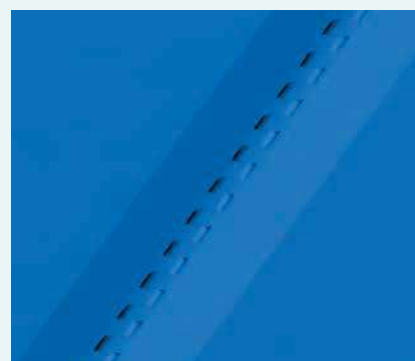
## STAINLESS STEEL CLIPS

- Removable joint comprising 2 half-clips with stainless steel spindle.
- For belts 1.5 mm to 5 mm thick.
- Suitable for all widths.
- Using normal mechanical fastening technics



## PLASTIC CLIPS

- Suitable for all homogeneous (polyurethane or polyester) belts.
- Particularly suitable in metal detecting applications.
- Up to 1100 mm wide.
- Recommended for pulley diameter higher than 120 mm.

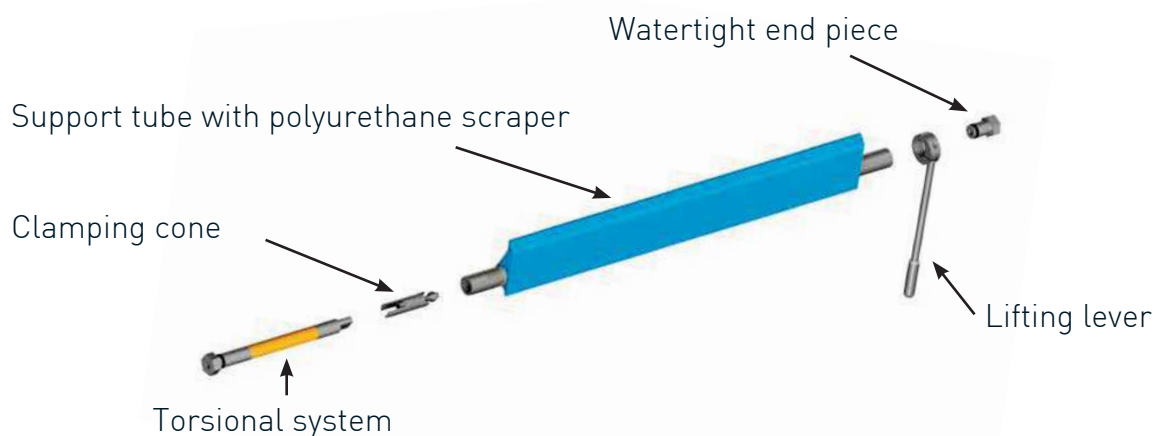


# SCRAPER



The DEL/CLEAN scraper efficiently cleans the belt, ensuring permanent cleanliness of conveyor belts and avoids:

- clogging up the conveyor
- staining conveyed materials
- loss of materials

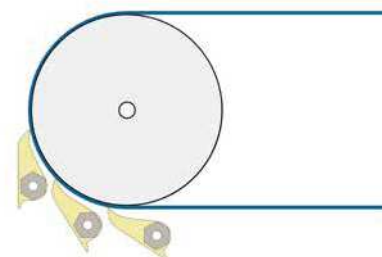


The DEL/CLEAN scraper offers many benefits:

- Small footprint
- No lateral misalignment
- Easy and quick to mount
- Can be adapted to existing or new installations
- Fits all types of conveyor belts
- Easy to clean
- Easier maintenance
- High resistance to hydrolysis: Ether base
- High resistance to abrasion: Ester base



The position of the scraper may vary depending on the need of recover the product.



SCRAPER REFERENCE	TUBE	SCRAPER			TORSIONAL SYSTEM REFERENCE	
	Ø (MM)	Height (mm)	Width (mm)	Colour	Single	Reinforced
NT70-22-W	22	70	300 to 1100	White	ST22-S	ST22-R
NT70-22-B				Blue		
NT100-27-W	27	100	400 to 1500	White	ST27-S	ST27-R
NT100-27-B				Blue		



# APPLICATIONS

