



SUPPLIES  
**SCAVENGER**

We have your  
**belts covered**



- Conveyor Belting
- Mechanical Belt Fasteners
- Conveyor Belt Accessories



The Right Connection

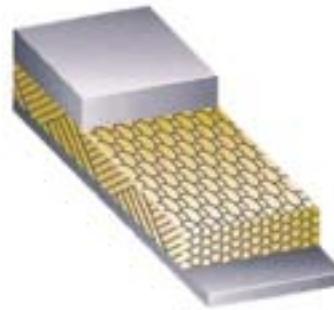


# SOLID WOVEN

## The Depreux Difference

### Solid-woven (PVC)

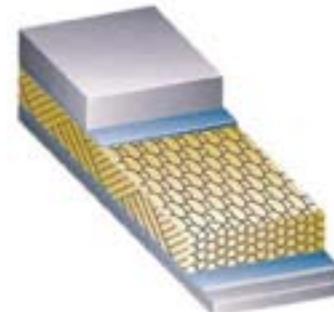
Composed of PVC impregnated solid-woven carcass with PVC covers.



PVC

### Solid-woven nitrile (PVNi)

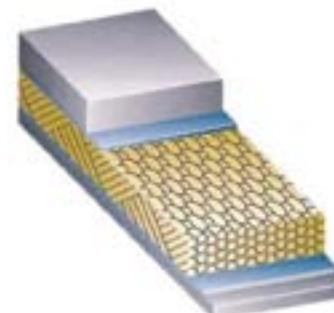
Composed of PVC impregnated solid-woven carcass with nitrile covers.



PVNi

### Solid-woven chloroprene (PVG)

Composed of PVC impregnated solid-woven carcass with chloroprene rubber covers.



PVG

### Conveyor Properties

	PVC	PVNi	PVG
	Thermo Plastic	Nitrile	Chloroprene
Impact Resistance	Average	High	Highest
Adhesion Strength Cover to Carcase	5-6 N/mm	6-8 N/mm	8-10 N/mm
Tensile Cover Strength (min)	14 Mpa	15 Mpa	20 Mpa
Cover Elongation (min)	300 - 330%	380 - 400%	450-470%
Specific Weight of Cover	1.40 kg/m	1.35 kg/mm	1.45kg/m
Abrasion Index	190-210 mm <sup>3</sup>	160 - 170 mm <sup>3</sup>	100 -115 mm <sup>3</sup>
Slope / Inclination	13°	16-20°	20-22°

# CONVEYOR BELT

## The Belt Carcase



The different belts all have a PVC impregnated solid-woven textile carcass, which allows a complex pattern.

The carcass is made of a textile fabric which is designed to the customer/application requirements regarding belt elongation, flexibility for troughing, fastener holding retention and resistance to impact and edge damage.

The warp in the fabric is either in polyester (for a low elongation belt), or in a polyamide (for special impact resistance). The weft is mainly polyamide to ensure troughing flexibility. Cotton ply warp yarn is added on top and bottom of the fabric to protect carcass against impact and potential cuts and damage.

This textile fabric is then impregnated with PVC paste, which makes it compact, fire resistant and totally impervious to moisture or other degradation while retaining its mechanical properties.

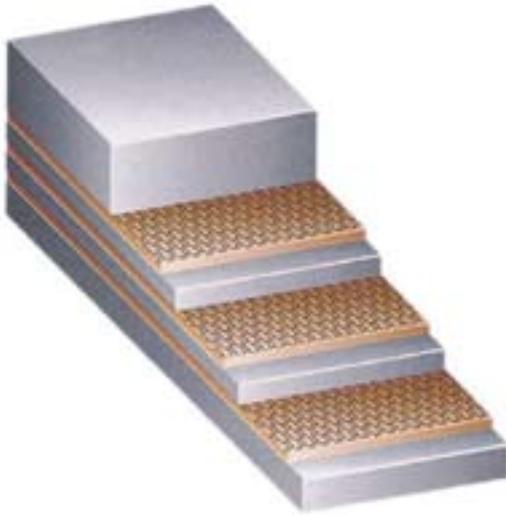
In the impregnation process the PVC impregnated rate is controlled, and the carcass is stretched in the machine. This feature allows the belt to have optimum flexibility and low on elongation.

## Belt Specification Details

International designation	"British" designation	Warp strength (N/mm), min	Weft strength (N/mm), min	Nominal carcass thickness (N/mm), min	Nominal carcass spec. weight (kg/m <sup>2</sup> ), min	Minimum recommended drum diameters (mm)	
						High tension	Low tension or snub
800/1	875/1 * (type 5)	875	400	7.0	8.0	650	350
1000/1	1140/1 * (type 6.5)	1140	400	7.5	8.5	700	400
1250/1	1250/1 * (type 7)	1250	400	8.0	10.0	750	450
1400/1	1400/1 * (type 8)	1400	400	8.5	11.0	800	500
1600/1	1600/1 * (type 9)	1600	400	11.0	13.0	900	600
1800/1	1750/1 * (type 10)	1750	400	11.5	15.5	1000	700
2000/1	2100/1 * (type 12)	2100	400	12.0	16.0	1100	800
2500/1	2625/1 * (type 15)	2625	400	13.5	17.5	1200	900
3150/1	3150/1 * (type 18)	3150	400	15.0	19.0	1500	1200

# PLY CONVEYOR BELT

## Plied Belts (GI)



Composed of several plies of EP fabrics separated by fire-resistant rubber interlayer and covered with fire-resistant chloroprene rubber covers.

The GI belt is composed of several fabrics separated by flame-resistant rubber.

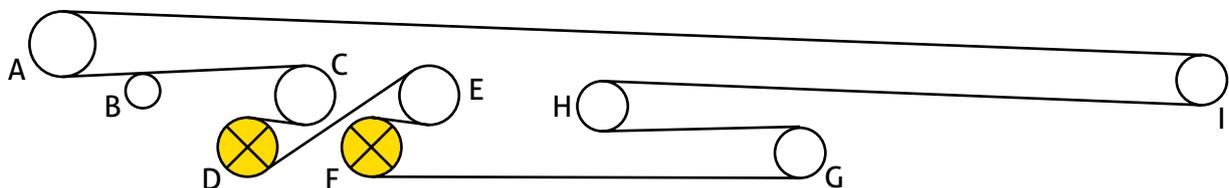
The warp in the fabric is generally in polyester to achieve a low elongation, and the weft is in polyamide to ensure good troughing, flexibility and impact resistance.

### Standard Range

The standard range is 400 N/mm with a maximum of 5 plies.

Alternative belts may of course be proposed, as for example, with polyamide in the warp or stronger weft construction and with stronger fastener holding properties, or made to match particular clients specification.

Conveyor Technology can design conveyor belts with higher fastener holding, increased cover to carcass adhesion, special cover compounds or whatever the demands of the conveyor belts intended use might be. For your special needs please contact our technical department.



### Conveyor Pulley Description

- |                        |                          |
|------------------------|--------------------------|
| A JIB Head Pulley      | F Secondary Drive Pulley |
| B JIB Snub Pulley      | G LT Take-up Pulley      |
| C HT Drive Snub Pulley | H LT Take-up Pulley      |
| D Primary Drive Pulley | I LT Tail Pulley         |
| E HT Drive Snub Pulley |                          |



# STEEL CONVEYOR BELT

## Steel Cord Belts (ST)

Steel cord belts are used in a wide variety of applications such as mining, harbour terminals, tunnelling projects, steel works, cement plants and power generation plants.

Steel cord belts are preferred to textile plied or solid-woven conveyor belts in the following situations:

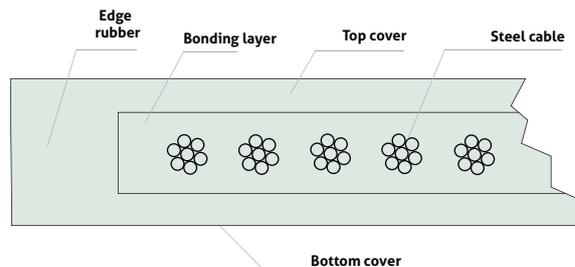
- when the required tensile strength is high and the conveyor is narrow, the superior troughing capabilities of steel cord belt are suited to conveyors typically found in long overland conveyor systems,
- when a very low elongation of the belt is required,
- when the life expectancy for the belt is the prime objective,
- when loading and transport conditions are compatible.



A DX/steel-cord conveyor belt is composed of:

- Steel Cables placed at a constant pitch across the width of the belt.
- A special rubber-bonding layer to the cables and to the rubber covers.
- Top and bottom rubber covers.

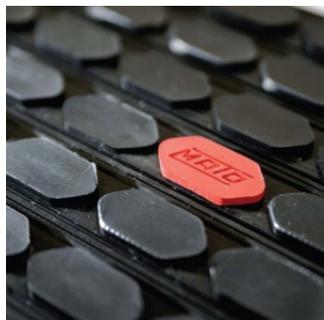
The manufacturer of a steel cord belt requires a heavy-duty steel cord production line and an experienced, knowledgeable product team. Depreux Steel Cord belts (DX/ST) are the result of over 80 years experience.



### DX/Steel-Cord Belt Technical Parameters

TYPE	ST1000	ST1250	ST1600	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400	ST6300
Tensile (N/mm)	100	1250	1600	2000	2500	3150	3500	4000	4500	5000	5400	6300
Max. steel cord diameter	4.0	4.5	5.0	6.0	7.5	8.1	8.6	9.1	9.7	10.9	11.3	12.3
Often used steel cord diameter (mm)	4.0	4.5	4.9	5.7	6.8	7.6	8.3	9.1	9.7	10.9	11.3	12.3
Space between cords (mm)	12	12	12	12	15	15	15	17	16	17	17	18
Thickness of top cover (mm)	6	6	6	8	8	8	8	8	8	8.5	9	10
Thickness of bottom cover (mm)	6	6	6	6	6	8	8	8	8	8.5	9	10
Total thickness of belt (mm)	16	17	18	20	22	25	25	26	26	28	30	34
Weight (kg/m <sup>2</sup> )	23	25.2	27.2	32	35.3	41.1	42.8	44.8	51	59	62	65
Minimum Pulley diameter (mm)	630	800	1000	1000	1250	1400	1500	1600	1600	1800	1800	1800
Width of belt (mm)	STEEL CORDS											
800	63	63	63	63	50	50	50					
1000	79	79	79	79	64	64	64	56	60	56	56	54
1200	94	94	94	94	76	76	77	68	72	68	68	63
1400	111	111	111	111	89	89	90	79	84	79	79	74
1600	126	126	126	126	101	101	104	91	96	91	91	85
1600	143	143	143	143	114	114	117	103	107	103	103	96
2000	159	159	159	159	128	125	130	114	120	120	114	107
2200				176	141	141	144	125	133	133	125	118
2400				193	155	155	157	137	146	146	137	129

# ACCESSORIES & TOOLS



**Rubber Glue and Pulley Lagging**



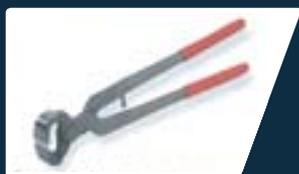
**Skrim Fabric**



**Splice Material**



**Poly Repair Kit**



**PINCERS**



**ROUGHING BRUSH  
& SPARE PADS**



**PULLEYS**



**FEIN TOOL &  
SPARE BLADES**



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**Belt Puller**



**Belt Knife**



**Belt Skiver**



**Belt Cutter**



**Spindle Remover**



**Tool Boxes**



**Belt Cleaners**



**Impact Beds**



**Conveyor Idlers & Trackers**

**A full range of Mechanical  
Belt Fasteners and Installation  
Tools for all Belt Types.**

# Get in touch

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