

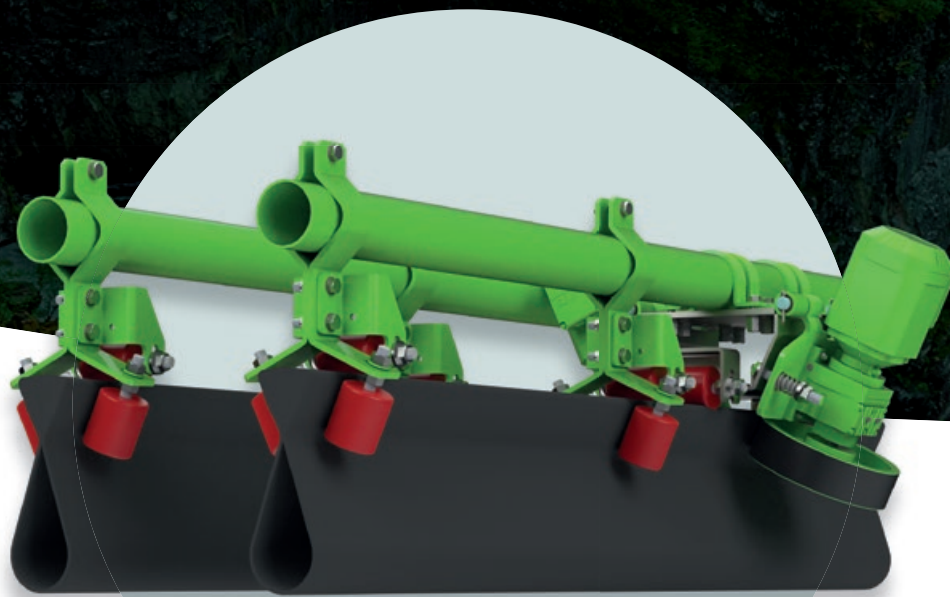
SAFEBELT®
CLOSED BELT CONVEYOR

**THE FLEXIBLE AND ENVIRONMENTALLY FRIENDLY
BELT CONVEYOR SYSTEM**

- ◆ Weatherproof and dust-free transport of bulk material
- ◆ Easy circumvention of obstacles
- ◆ Eliminates product transfer points
- ◆ Low space requirement for the belt conveyor thanks to tight curve radii
- ◆ Simplified installation planning
- ◆ Simple relocation of the complete belt conveyor

FEATURES

- ◆ **Cost saving:** Eliminates expensive enclosures and cleaning work
- ◆ **Eco-friendly:** Little or no ingress or emissions of dust or liquids
- ◆ **Low-odor:** Odors are largely contained in the conveyor belt
- ◆ **Space-saving:** Can overcome steep uphill and downhill gradients as well as tight horizontal and vertical curve radii
- ◆ **Low-maintenance:** No deposits of bulk material thanks to closed return flow
- ◆ **Flexible guidance of the belt conveyor:** Can also be used for additional bulk material transport in the closed return flow
- ◆ **Decentralized drives:** The distribution of the drive forces allows the lightest possible construction of the stand and protects the conveyor belt

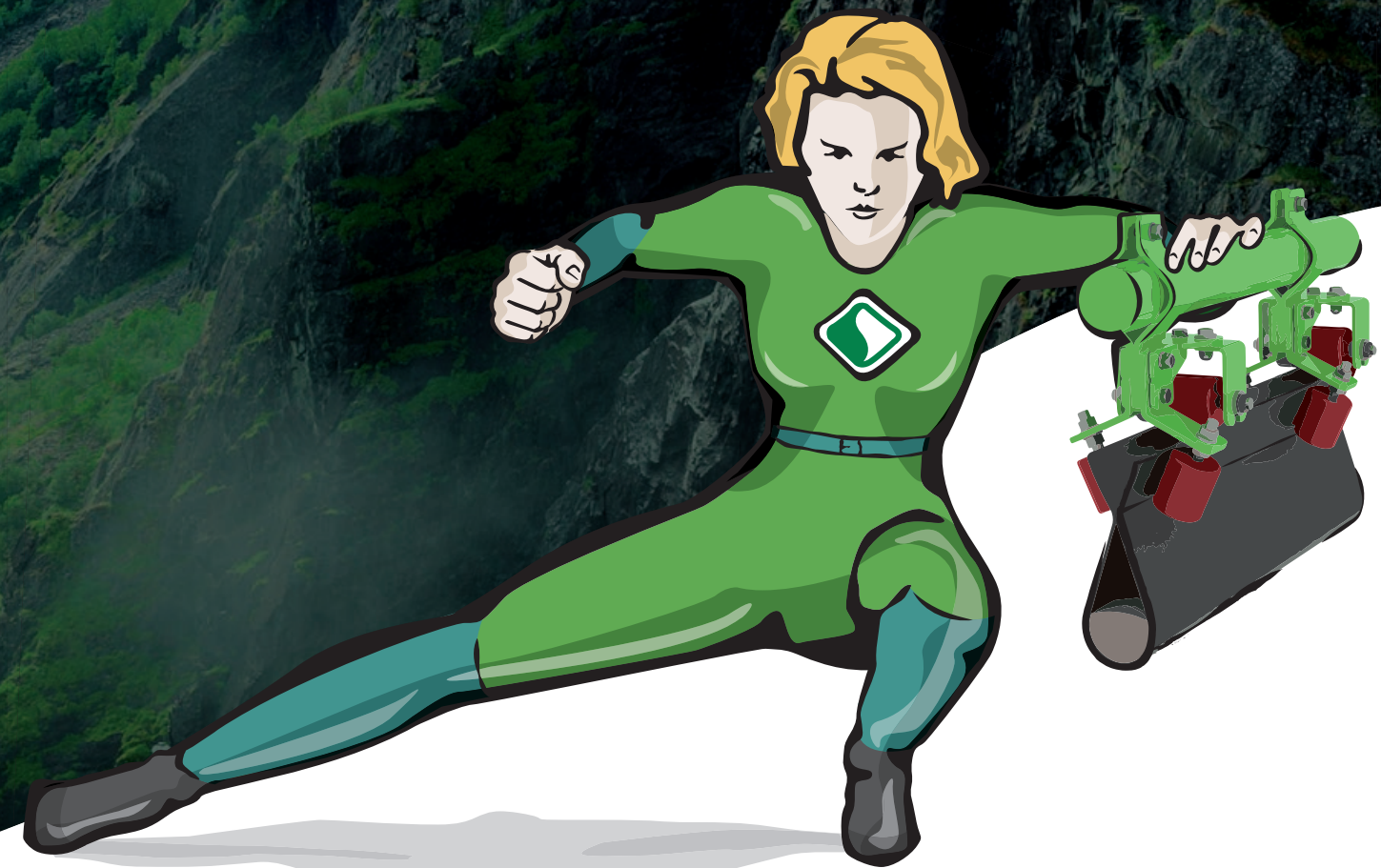


**PRODUCT
VIDEO**



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SAFEBELT®
CLOSED BELT CONVEYOR

STARCLEAN
Sustainability by Innovation



DATA AND FACTS

- Maximum filling level:

60%
- Maximum material weight:

40 kg/m
- Maximum belt speed:

3,5 m/s
- Drives:

0,37 - 3 KW
- Max particle size:

40 mm bei BB = 800 mm
80 mm bei BB = 1400 mm
- Horizontal Curves:

> 8 m
- Vertical Curves:

> 45 m
- Inclination::

< 30°
- Heat resistant:

Up to 80°C
- Durability:

Abrasion, Ozon, UV (optional: oil and grease)
- Belt width:

800 mm und 1400 mm

SUITABLE FOR BULK MATERIAL FROM DIFFERENT INDUSTRIES:

- Construction industry:

gypsum, lime, clay, sand, stone, cement
- Energy industry:

ash, turf, wood shavings, coal, recycling
- Cellulose industry:

wood shavings, waste paper, kaolin
- Metal industry:

foundry sand, ore, coal, slag
- Mining/quarrying:

ore, grinding balls, minerals, sand
- Food industry:

raw materials, fishmeal/food, cereals
- Processing industry:

chemicals, finished products, minerals, granulates, fertilizers
- ... and lots more

RATING TABLE

Belt Width 800 mm, Volume Fill 60 % of cross section, loading weight max. 40 kg/m

Beltspeed:		1 m/s				2 m/s			
Material Density (t/m³)		t/h	m³/h	Volume fill(%)	kg/m	t/h	m³/h	Volume fill(%)	kg/m
0,8		30	37	60	8,3	60	74	60	8,3
1		37	37	60	10,3	74	74	60	10,3
1,2		44	37	60	12,2	88	74	60	12,2
1,4		52	37	60	14,4	104	74	60	14,4

Beltspeed:		3 m/s				3,5 m/s			
Material Density (t/m³)		t/h	m³/h	Füllgrad (%)	kg/m	t/h	m³/h	Volume fill(%)	kg/m
0,8		90	112	60	8,3	105	130	60	8,3
1		111	112	60	10,3	130	130	60	10,3
1,2		132	112	60	12,2	154	130	60	12,2
1,4		156	112	60	14,4	182	130	60	14,4

Belt Width 1400 mm, Volume Fill 60 % of cross section, loading weight max. 40 kg/m

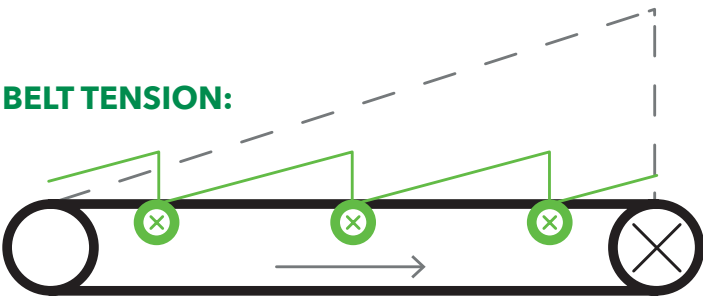
Beltspeed:		1 m/s				2 m/s			
Material Density (t/m³)		t/h	m³/h	Volume fill(%)	kg/m	t/h	m³/h	Volume fill(%)	kg/m
0,8		118	148	60	32,8	236	296	60	32,8
1		144	143	57,9	40	288	288	57,9	40
1,2		144	120	48,7	40	288	240	48,7	40
1,4		144	103	41,7	40	288	206	41,7	40

Beltspeed:		3 m/s				3,5 m/s			
Material Density (t/m³)		t/h	m³/h	Volume fill(%)	kg/m	t/h	m³/h	Volume fill(%)	kg/m
0,8		354	443	60	32,8	413	516	60	32,8
1		432	432	57,9	40	504	504	57,9	40
1,2		432	360	48,7	40	504	420	48,7	40
1,4		432	309	41,7	40	504	360	41,7	40

NOTES:

The max. permissible filling rate of the belt is: 60 % according to the inner volume of the closed belt.
The max. permissible weight of the bulk material is 40 kg/meter belt
The max. permissible belt speed is 3,5 m/s

BELT TENSION:



⊗ Intermediate drive (SAFEBELT®)

⊗ Head drive

MAXIMUM ALLOWED PIECE SIZES:

Belt width (mm)	Max particle size: (mm)
800	40
1.400	80

SAFEBELT® COMPONENTS



DRIVE STATION



TENSION STATION



DROPPING STATION



BELT REVERSAL

