

FERROPAN CONVEYOR V-BELTS

WILHELM HERM. MÜLLER

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FERROPAN CONVEYOR V-BELTS

A conveyor element with outstanding properties

FERROPAN conveyor V-belts are the perfect answer to today's tremendous technical requirements and quality products whose reliability is guaranteed. This is possible due to a special method of producing a perfect and absolutely safe bond between the polyurethane and the steel strand. Conveyor V-belts are thus produced quickly, without tooling costs and at any tailored length.

You as the user will benefit from a compelling combination of rigid, non-ageing polyurethane and non-rip, low-strain and highly flexible steel strand.



Conveyor system for concrete blocks.

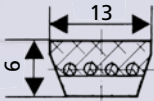
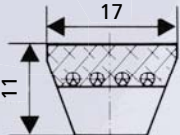
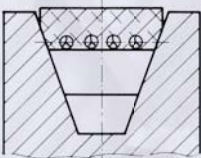
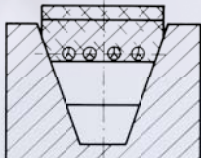
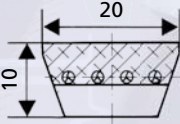
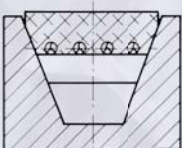
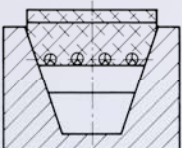
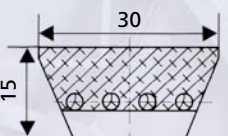
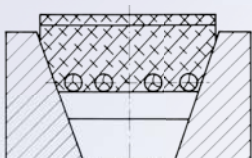
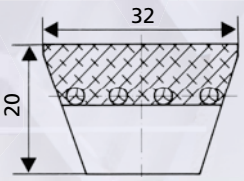
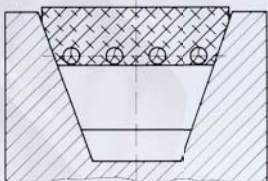
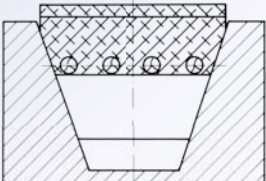
Properties

- Rigid
- True profile
- Short clamping paths
- Long life
- Oil-proof and grease-resistant
- Resistant to tropical heat and flexible in the cold
- Ready to bend
- Small pulleys diameters
- Reduced elongation during operation
- High tensile strength
- Small length tolerance
- Non-ageing
- Maintenance-free

Profiles and combination options

Guiding, supporting and pressure rollers are best designed as V-belt pulleys with a 38° wedge angle. Drive and deflection pulley angles should conform to DIN ISO. Profile precision and the excellent material properties of FERROPAN conveyor V-belts allow belts to be guided at the edges or the base of guiding, supporting and pressure rollers.

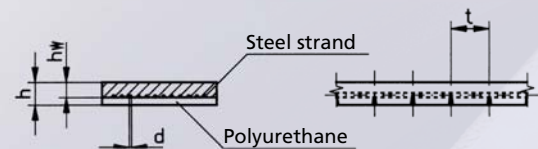
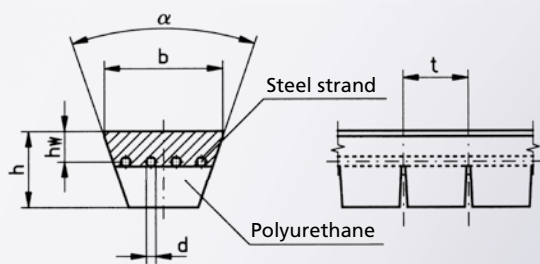
In some cases, both options can be combined. Standard pulleys should be used to ensure that the FERROPAN conveyor V-belt performs its conveyor task properly. Where the standard design is deployed, the outside diameter of the pulley should be dressed to the size of the intended overhang.

FERROPAN-profile	Standard	Conveyor variant
 Profile 13	 Standard groove 13/A SPA	 Standard groove 13/A SPA
 Profile 17	 Standard groove 17/B SPB	 Standard groove 17/B SPB
 Profile 20	 Standard groove 20	 Standard groove 20
 Profile 30	 Groove 30	 Groove 30
 Profile 32	 Standard groove 32/D	 Standard groove 32/D

Other profiles upon request

Users worldwide benefit from the high quality of our tried and tested FERROPAN conveyor V-belt. Practical application never fails to show: The outstanding technical and chemical properties, just like the tolerances, are at the highest

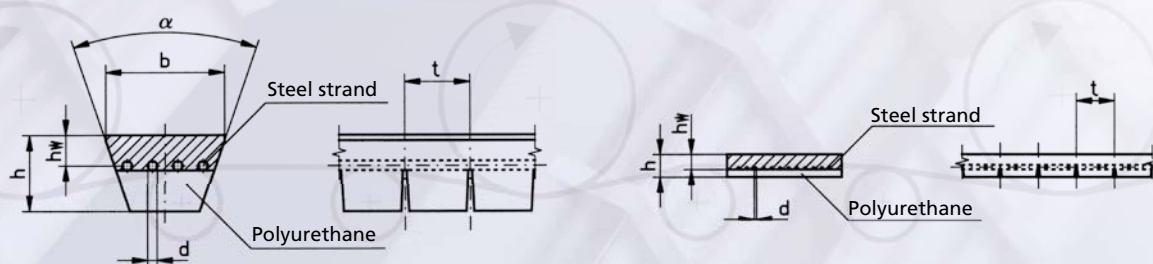
level of performance. The double plus: FERROPAN conveyor V-belts not only provide simpler designs but also more economical solutions to your conveying problem.



Variant: V (welded)	Profile 13	Profile 17	Profile 20	Profile 30	Profile 32	(Flat belt) 30 x 6	Dimension
Length, Lw continuous $\pm 0,125$ % min.	1200	1500	1600	2000	2500	850	mm
Width, b $\pm 0,25$	13	17	20	30	32	30	mm
Height, h $\pm 0,25$	6,50	11	10	15	20	6	mm
Angle α	38	38	38	38	38	90	degree
hw values for Lw choice	3,25	4	5	9	8	3,70	mm
Pitch t	8	10	10	15	15	10	mm
Steel strand dia. $\emptyset$	0,90	1,20	1,20	2,50	2,50	0,60	mm
(Not suited to applications with contraflexure.)							
Pulley dia., dw. min.	75	110	100	200	200	75	mm
Adm. load/cross-section	400	800	800	2500	2500	600	N
Tensile strength/cross-section	1800	3900	3900	12500	12500	4800	N
Elongation at adm. load	0,35	0,35	0,35	0,35	0,35	0,35	%
Max. bend variations	3	3	3	3	3	3	sec. ⁻¹
μ -value, dry on steel	0,70	0,70	0,70	0,70	0,70	0,70	
Max. thermal stability	- 40 /+ 80	- 40 /+ 80	- 40/+ 80	- 40/+ 80	- 40/+ 80	- 40/+ 80	° C
Resistance to oil and grease	excellent						
Resistance to tearing and abrasion	excellent						
Weight per m of length, approx.	0,10	0,22	0,25	0,58	0,75	0,24	kg

The continuously fabricated FERROPAN-FLEX conveyor V-belts are an innovative advancement for cases of extreme loads. They are used with particular regard to the admissible

tangential force. The continuously embedded steel cord tension members bring high carrying capacity to this variant.



Variant: FLEX	Profile 13	Profile 17	Profile 20	Profile 30	Profile 32	(Flat belt) 30 x 6	Dimension
Length, Lw min.	2500	2500	2500	2500	2500	2000	mm
Width, b ± 0,25	13	17	20	30	32	30	mm
Height, h ± 0,25	6,50	11	10	15	20	6	mm
Angle α	38	38	38	38	38	90	degree
hw values for Lw choice	3,25	4	5	9	8	3,70	mm
Pitch t	8	10	10	15	15	10	mm
Steel strand dia.	0,90 - E	1,20	1,20	2,50	2,50	0,60	mm
(no contraflexure)							
V-belt pulley dia., dw. min.	75	110	100	200	200	75	mm
(contraflexure)							
V-belt pulley dia., dw. min. (location: inside)	100	160	150	250	250	100	mm
Deflection pulley dia., da. min. (smooth) (location: outside)	150	210	200	400	450	150	mm
Adm. tensile stress (per cross-section)	1000	1600	1600	3300	3300	1200	N
Tensile strength (per cross-section)	3900	6400	6400	13200	13200	4800	N
Elongation at adm. load	0,40	0,40	0,40	0,40	0,40	0,40	%
Resistance to oil and grease	excellent						
Resistance to tearing and abrasion	excellent						
Weight per meter, approx.	0,10	0,22	0,25	0,58	0,75	0,24	kg

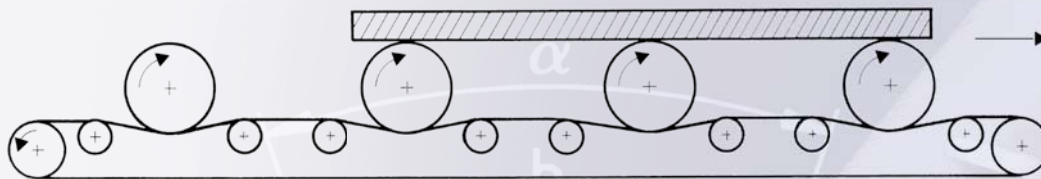
FERROPAN conveyor V-belts excel in their extraordinary versatility. Wood processing and furniture makers, brick, block and concrete factories, glassworks, beverage bottlers, paper mills, dispatch departments, packaging indus-

try, sheet or foil processing companies, automotive, textile, agriculture and many other industries are relying on the wide variety of FERROPAN conveyor V-belt solutions.

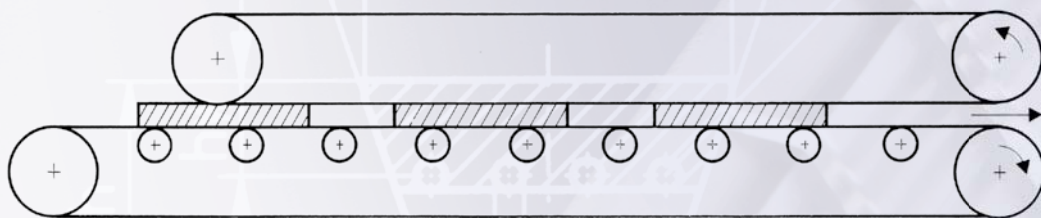
Simple conveying of products



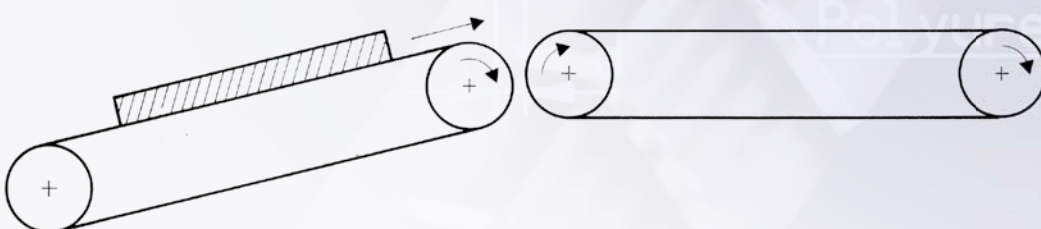
Friction drives of roller conveyors



Haul-off belts



Coated belts on sloping and straight lines



Be it soft, hard, resilient or low-noise with little friction: our know-how in the coating of conveyor belts adds well-defined properties to your FERROPAN conveyor V-belt and optimizes its performance.

WHM provides a broad range of different coatings for FERROPAN conveyor V-belts: Supergrip, Linatex, HV foil, PU yellow, and many other materials of varying thickness, hardness and structure.

FERROPAN coating materials

Material	Thickness (mm)
Celloflex	1, 2, 3, 4, 5
Chrome leather	2 and 3
Correx, beige	6, 10
FG 385	4
HV foil	1 and 2
Linatex red	1.2, 1.6, 2.4, 3.2, 4.8, 6.4, others upon request
Linatrilite, orange	2.4 and 3.2
Minigrip, blue	1.5
Minigrip, green	1.5
NBR 65, black	1.5
Nub, white	2.5
NP 385	4
Polythan D15, 70 Shore, off-white	2 – 6
Polythan, blue	2 – 6
Polythan, green	2 – 6
Porol, black	3, 5, 10
PU 385	2 – 6
PU 06 yellow	2, 3, 5, 6, 8
PVC-foil, blue	1
PVC-foil, white, FDA	2
PVC-Herringbone, white, FDA	4
RP 400	2 – 6
Supergrip, blue	~3.5
Supergrip, green	approx 4
Sylomer, blue	6 and 12
Sylomer, green	6 and 12
TT 60	2
WM 385	4
Viton	2 and 4

Other coatings upon request.

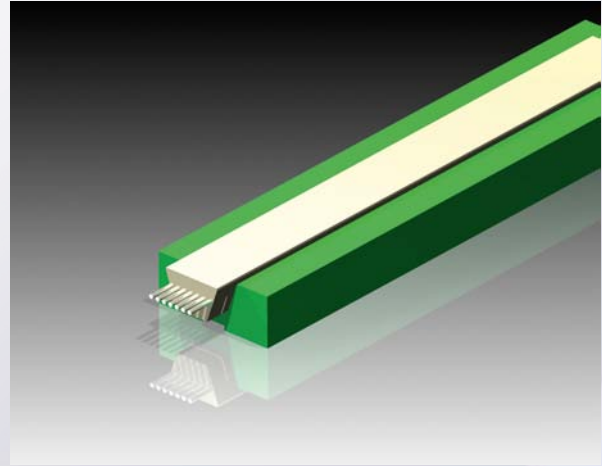
Ask for customized coatings and colors.

Contact us for detailed information.



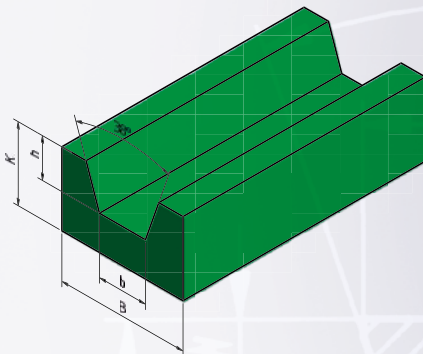
Depending on what needs to be conveyed, guide rails may be the order of the day. The guide rails we provide for our FERROPAN conveyor V-belts are made of PE / HDPE and come with or without lateral support, depending on your functional needs.

Guide rails from the standard range are well adjusted to the belt widths. Ask for customized designs.



Standard range of guide rail KR

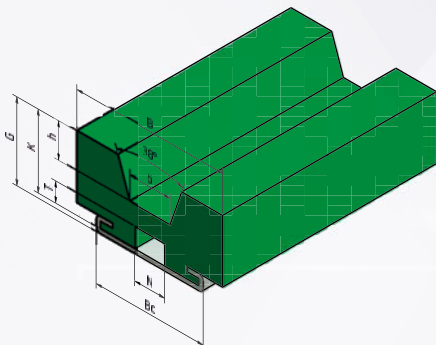
No lateral support



Variant	b	h	B	Bc	K	G	N	T	Belt
KR13	9	4	45	-	22	-	-	-	Profile 13
KR17	10	8	45	-	22	-	-	-	Profile 17
KR20	13,5	7	45	-	22	-	-	-	Profile 20
KR30	20,5	12	68	-	32	-	-	-	Profile 30
KR32	19	16	68	-	32	-	-	-	Profile 32

Standard range of guide rail KRC

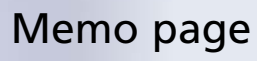
Lateral support



Variant	b	h	B	Bc	K	G	N	T	Belt
KRC13	9	4	45	50	23	25	11	7	Profile 13
KRC17	10	8	45	50	23	25	11	7	Profile 17
KRC20	13,5	7	45	50	23	25	11	7	Profile 20
KRC30	20,5	12	68	50	34	36	11	9	Profile 30
KRC32	19	16	68	50	34	36	11	9	Profile 32



A large rectangular area with horizontal lines for writing, overlaid on a faint background image of mechanical parts and diagrams.



POWER TRANSMISSION

- Polyurethane timing belt drives
BRECO®, BRECOFLEX®, CONTI SYNCHROFLEX®,
CONTI SYNCHROCHAIN®
- Special timing belts
- Neoprene timing belts
- Components
- Round & flat belt drives
- V-belt drives
- Roller bearings
- Chains and sprocket wheels
- Adjustable motor mountings

RUBBER ENGINEERING

- Molded parts and profiles
- Punchings and water jet technology
- Suspensions
- Hoses
- Assemblies
- Design service

PLASTICS ENGINEERING

- Milled parts
- Turned parts
- Acrylic glass machining
- Semi-finished parts
- Blank cutting service
- Assemblies
- Design service

PRODUCTION

- Belt customizing
- Belt refinement
- Conveyor belt production
- Timing belt pulleys and accessories
- Poly V-belt pulleys
- CNC turning
- CNC milling
- Mechanical processing

Any questions?

If so, please give us a call,
a fax or an e-mail.

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Our performance offer:

- Drive engineering
- Rubber technology
- Technical consultation
- Plastics technology
- Production
- Design service

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