

iwis
antriebssysteme
wir bewegen die welt



Transfer chains

High wear resistance and durability



Highlights

- All-round protection of functional components of the chain: attachments enclose the chain on three sides, even in the vicinity of the chain wheels
- Gentle handling of delicate goods
- Close-fitting covers prevent the risk of injuries and malfunctions
- Outside of the chain is absolutely clean, so no accumulation of dust
- Low level of friction in the event of intentional or accidental stoppage of goods conveyed
- Drive chain remains clean, even under adverse operating conditions
- Suitable for horizontal and vertical running
- No lifting of the load in the vicinity of the chain wheels
- Various drive chains available e.g. nickel-plated, maintenance-free or corrosion-proof
- Different initial lubricant possibilities, depending on individual application

Problem/starting point:

Open conveyor systems are susceptible to contamination by foreign bodies or small parts, which can cause belt malfunction or damage the goods.

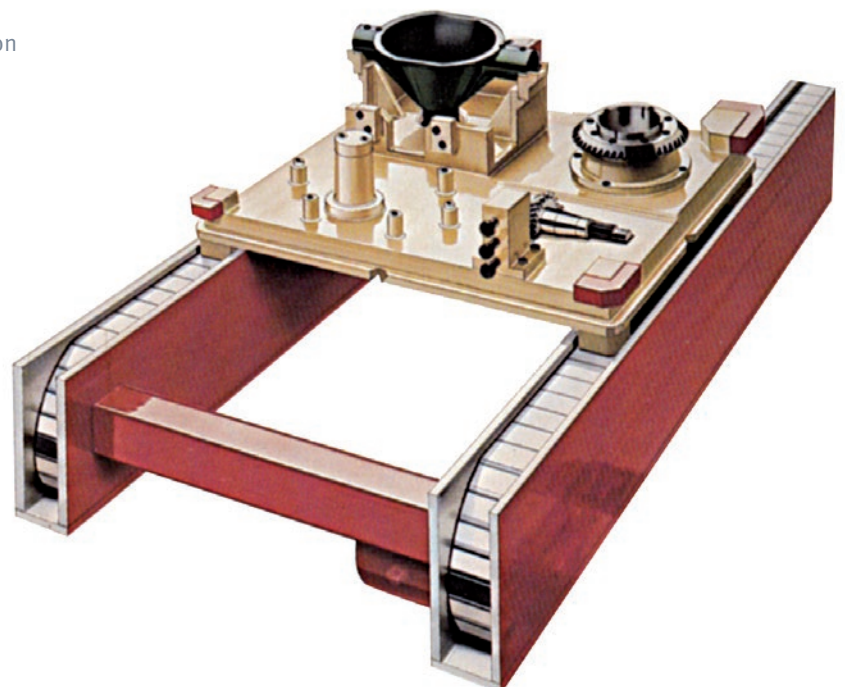
Our solution:

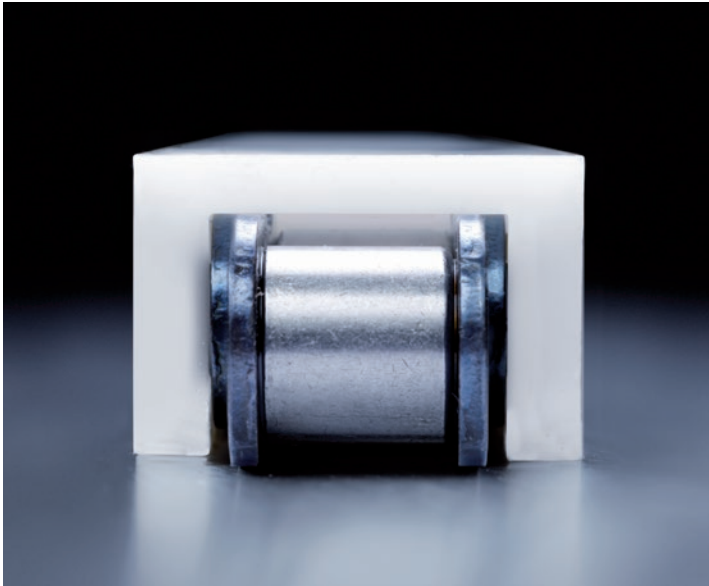
Fully enclosed transfer chains (= TF) with wear-resistant, rugged snap-on plastic attachments prevent malfunctions caused by foreign bodies etc.

Applications

- Mechanical engineering
 - Conveyor and warehouse technology
 - Packaging and food industry
 - Electronic components and PCB production
 - Electrical goods and household appliances
 - Medical devices and pharmaceuticals
 - Wood, glass and pottery processing
 - Chemicals and process engineering
 - Printing and paper industry
- ... and all other applications that call for gentle handling.

The chain is particularly suitable for machine-processed parts – even items with sensitive surfaces.





Technical characteristics

Chain design

Friction coefficients of 0.1 to 0.3 are assumed for determination of chain tensile force, depending on conveyor situation.

Drive chain calculation is performed in accordance with the examples set out in the iwis Chain Engineering Handbook or via the iwis chain calculation programme available on our website.

It goes without saying that you can count on iwis' help and support if you have enquiries about details of chain design. Please let us know in case you need help.

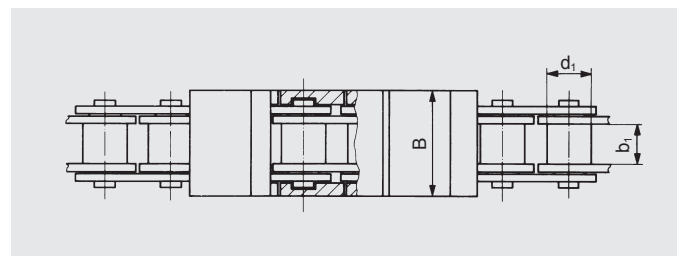
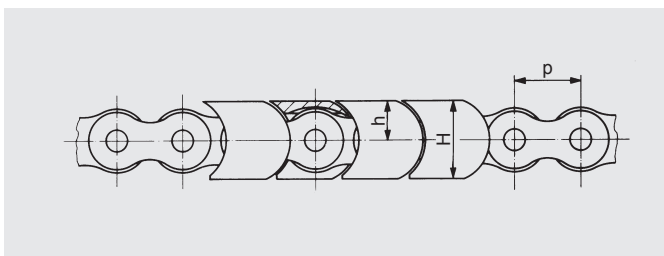
Attachment characteristics

iwis supplies attachments for the following applications:

1. Standard applications:
Temperature range up to +100°C,
standard optimised wear resistance
2. High-temperature applications:
Temperature range up to +140°C
3. Applications requiring enhanced wear resistance
4. Antistatic applications

Information on chemical resistance, hygroscopic properties or other possible attachment versions (e.g. flame-retardant material) available on request.

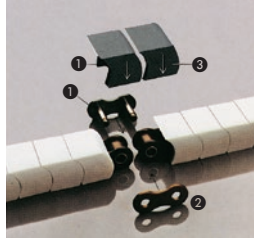
DIN ISO No.	iwis Type	Standard chain	Pitch	Breaking load iwis	Inner width	Roller dia.	Attachment			max. centre load per chain	max. permissible load per attachment	max. permissible surface pressure	Weight
							Width	Height	Height above of pin				
			p (mm)	FB (N)	b1 (mm)	d1 (mm)	B (mm)	H (mm)	h (mm)	(N)	(N)	(N/mm ²)	(kg/m)
08 B-1	L85 TF	L85 SL	12,7	22.000	7,75	8,51	19,8	15,2	8	6250	12	4,42	0,82
10 B-1	M106 TF	M106 SL	15,875	27.000	9,65	10,16	24,8	17,5	9,5	8000	26	4,72	1,18
12 B-1	M127 TF	M127 SL	19,05	34.000	11,75	12,07	29,8	19,8	11	9750	43	4,95	1,59



Technical characteristics

Connecting link

The chain ends are connected by an outer link ①, and a slide fit plate ② pushed onto the pins. Finally, bend the chain so that the two attachments ③ can be clipped over the rivet to complete the connection. A locking spring is not required.

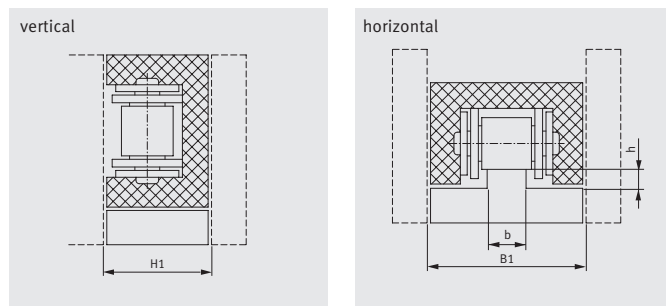


The two relevant attachments are coloured black for easy location of the connecting link.

Chain track and support

When the iwis parts conveyor chain is installed horizontally, we recommend the use of steel or plastic rails to support the chain rollers. If the chain is installed vertically, no rail-type supports are necessary.

Chain	B ₁ mm	b mm	H mm	H ₁ mm
L 85 TF	20	7,5	3,1	15,4
M 106 TF	25	9,5	3,1	17,7
M 127 TF	30	11,3	2,9	20,0



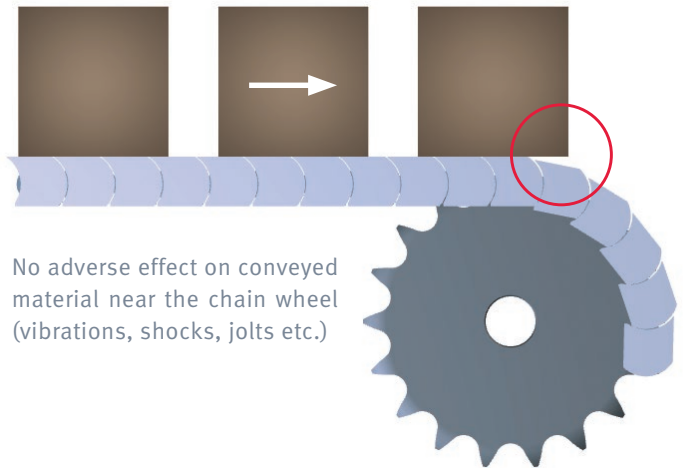
Corrosion resistance / Maintenance-free operation

Corrosion-resistant CR chains, nickel-plated chains or low-maintenance MEGAlife chains for maximum service life can be used as base chains for parts conveyor chains. For more information on these chains, please refer to the catalogue "JWIS Precision chain systems for drive and conveyor purposes".

Lubrication

Selecting the right lubricant and the appropriate lubrication method guarantees minimisation of chain wear, adequate corrosion protection and optimum damping performance. The base chain can be treated with one of the iwis initial lubricants in accordance with the required application. For an overview of lubricants, please refer to the catalogue "JWIS Precision chain systems for drive and conveyor purposes".

No lifting of loads in the vicinity of the chain wheels



Chain wheels

Standard chain wheels in accordance with DIN 8187 can be used for TF chains. In the case of chain wheels where $z > 18$, the TF chain is also completely enclosed in the vicinity of the chain wheels and the drive chain protected against the ingress of foreign bodies.

