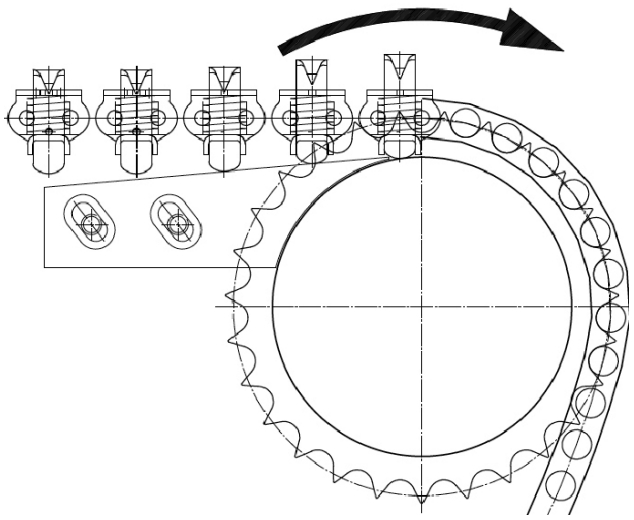
iwis
antriebssysteme
wir bewegen die welt

Grip Chains

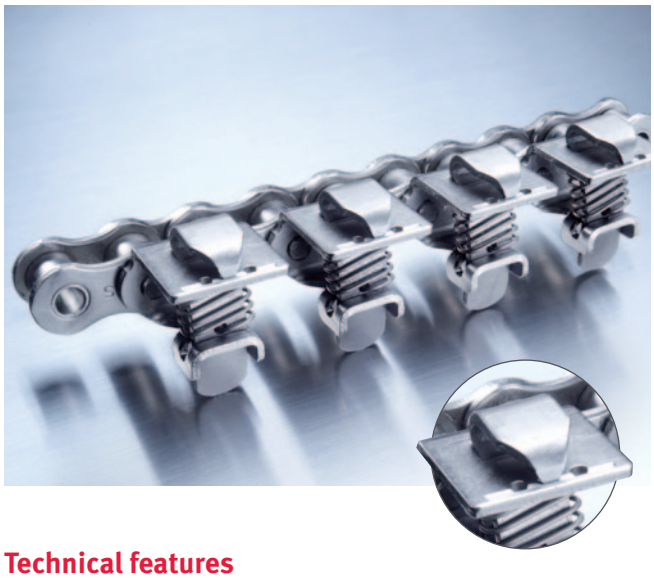
Problem/initial situation: Reliable feeding, transporting and positioning of thin-walled materials with a large area. **Our solution:** iwis high performance chains with wear- and corrosion-resistant clamping elements!

Key features

- iwis high performance chain with excellent wear resistance
- Marginal initial elongation due to optimal pre-stretching
- High rigidity enables applications also in long machines
- Basic chain chemical nickel plated
- Flawless operating parallel as well as synchronously running chains due to practically identical chain lengths
- All chains are provided with reliable, high quality initial lubrication, approved for use in the food industry
- Differing levels of spring force allow an extremely wide range of materials to be gripped gently
- Complete chain solution – ready-to-install
- Delivery in 50 meter reels or in customized chain lengths
- Recommended max application speed is 2 m/s



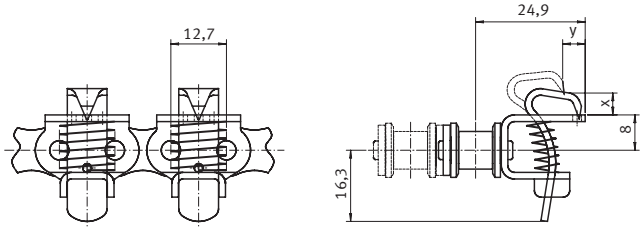
Version A
“1-Tip” Grip chains



Technical features

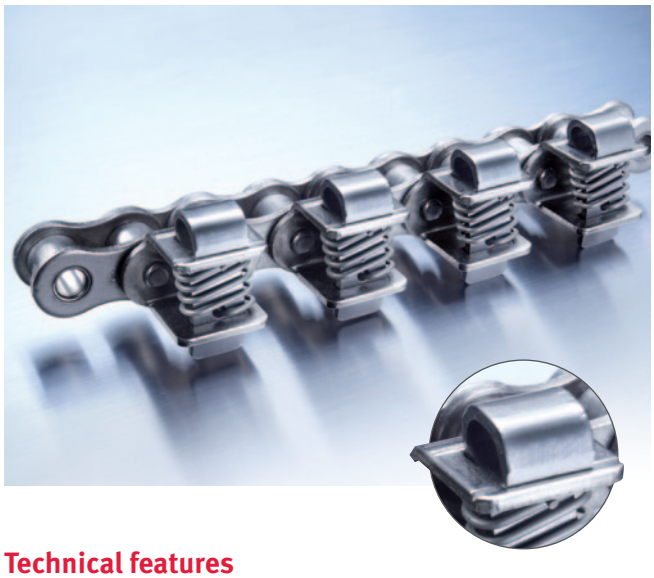
- Single or double chain 1/2 x 5/16 inch to DIN 8187-1/ISO 606
- Gripper with 1 tip, special designs on request
- Retaining force is dependent on material conveyed and spring design – differing number of coils and wire spring diameters obtainable
- The gripper opens by running against a control disc (e.g. chain wheel hub) which causes it to swivel out of the way to the outside
- Design of the chain wheel hub at request
- Inital lubrication approved in the food industry

Ref. no. iwis	DIN ISO	Pitch p (mm)	Ave. foil retention force (N)	Spring	x	y	Mat. no.
L 85 Grip	08 B-1	12,7	10	0,7x6	5	6	50007495
L 85 Grip	08 B-1	12,7	24	0,9x5	4	5	50034722



Dimensions x and y dependent on the spring used, on request

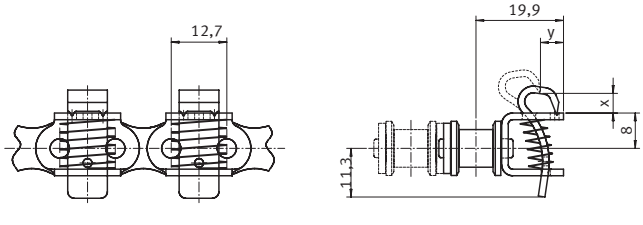
Version B
“2-Tip” Grip chains



Technical features

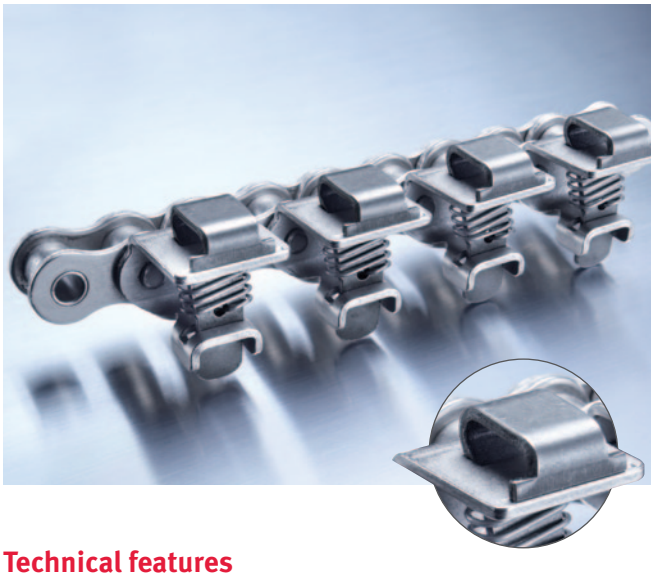
- Single or double chain 1/2 x 5/16 inch to DIN 8187-1/ISO 606
- Gripper with 2 tips, special designs on request
- Retaining force is dependent on material conveyed and spring design – differing number of coils and wire spring diameters obtainable
- The gripper opens by running against a control disc (e.g. chain wheel hub) which causes it to swivel out of the way to the outside
- Inital lubrication approved in the food industry
- Higher retention force in comparison with “1-Tip” Grip chain

Ref. no. iwis	DIN ISO	Pitch p (mm)	Ave. foil retention force (N)	x	y	Mat. no.
L 85 Grip	08 B-1	12,7	35	3,0	4,5	50024958



Note: All facts ascertained by laboratory tests. Differences to real applications are possible.

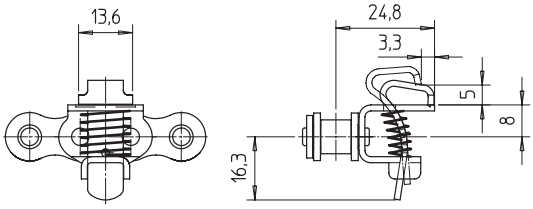
Version C
“Flat clamp” Grip chains



Technical features

- Single or double chain 1/2 x 5/16 inch to DIN 8187-1/ISO 606
- Gripper designed as a flat clamp
- Retaining force is dependent on material conveyed and spring design – differing number of coils and wire spring diameters obtainable
- The gripper opens by running against a control disc (e.g. chain wheel hub) which causes it to swivel out of the way to the outside
- Gentle material handling
- Low transmission forces

Ref. no. iwis	DIN ISO	Pitch p (mm)	Ave. foil retention force (N)	Mat. no.
L 85 Grip	08 B-1	12,7	5	50037062

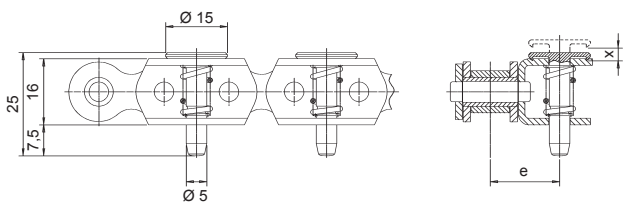


Version D
“Button” Grip chains

Technical features

- Single chain 1/2 x 5/16 or 5/8 x 3/8 inch to DIN 8187-1/ ISO 606
- Special design with button grip elements
- Gripper as a flat head
- Retaining force is dependent on material conveyed and spring design – differing number of coils and wire spring diameters obtainable
- **iwis Patent** (spring is fixed without washer)

Ref. no. iwis	DIN ISO	Pitch p (mm)	Ave. foil retention force (N)	e	Mat. no.
M 106	10 B-1	15,875	70	16,8	50034301
L 85	08 B-1	12,7	70	15,8	50035491



X = 3,25 mm

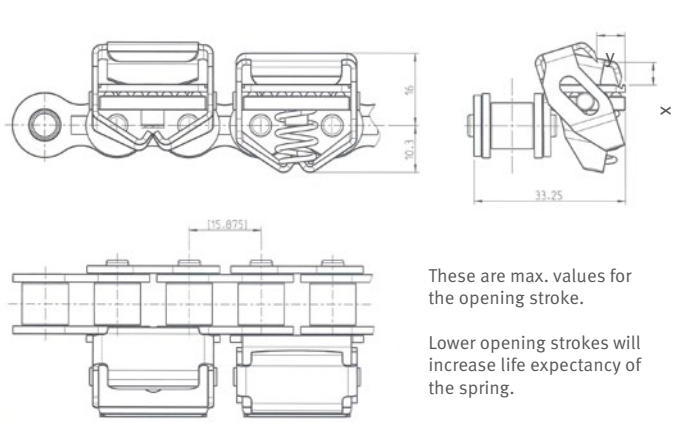
Note: All facts ascertained by laboratory tests. Differences to real applications are possible.

Version E

New iwis Grip chain – a complete solution

Technical features

- Optimization of the gripper Chain M106 with attachment 202.6 on one side and delivery as a complete solution with the gripper system consisting of clamp, plate and spring
- M106 standard chain also available without attachments
- Clamp and spring made of corrossion resistant steel
- Chain is chemically nickel-plated
- Available with long-lasting lubrication or with lubricant for food use



These are max. values for the opening stroke.

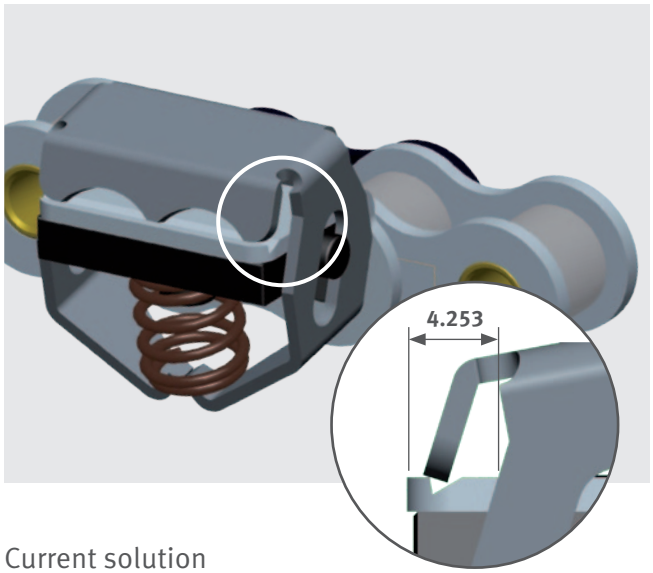
Lower opening strokes will increase life expectancy of the spring.

Ref. no. iwis	DIN ISO	Pitch p (mm)	Ave. foil retention force (N)	x	y	Mat. no.
M 106	10 B-1	15,875	85	4.9	6.1	50039260

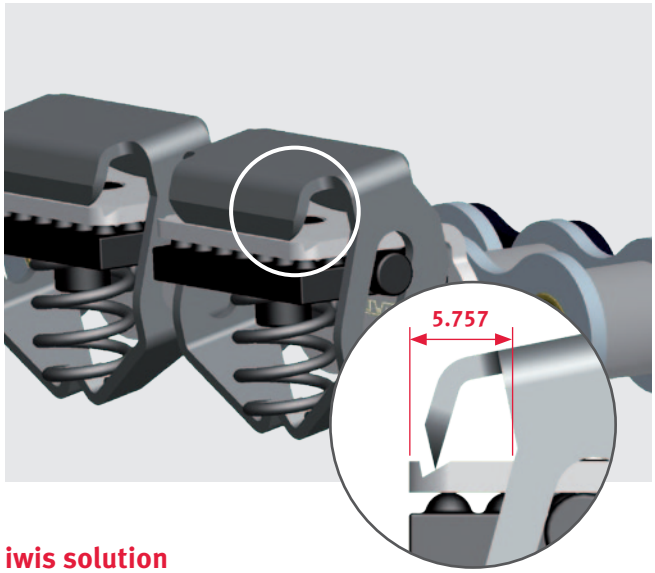
Note: All facts ascertained by laboratory tests. Differences to real applications are possible.

Optimization of the gripper functioning

More space for the plastic film



Current solution



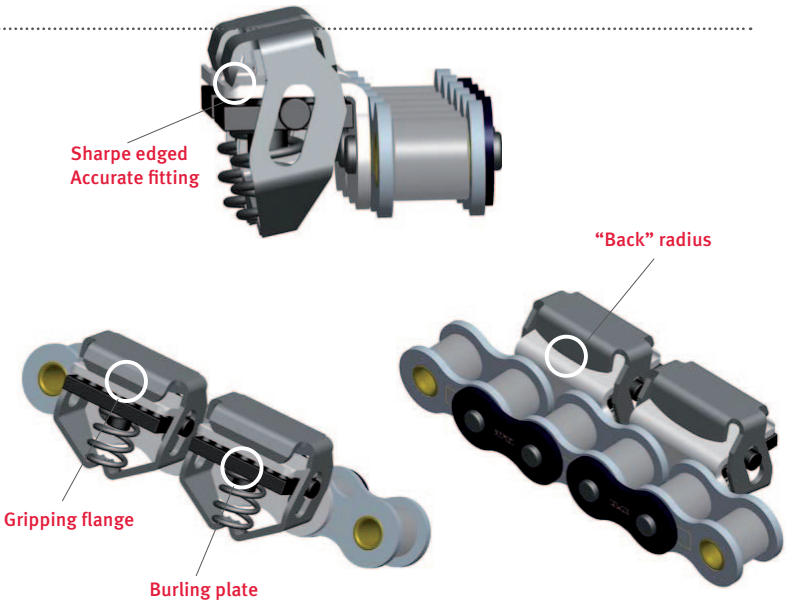
iwis solution

Advantages

- Accurately fitting of the gripper in the groove
- Better retention force depending on plastic film
- Optimized functional safety and hygiene through burling plate
- Better foil insertion through more free space
- Foils do not twist

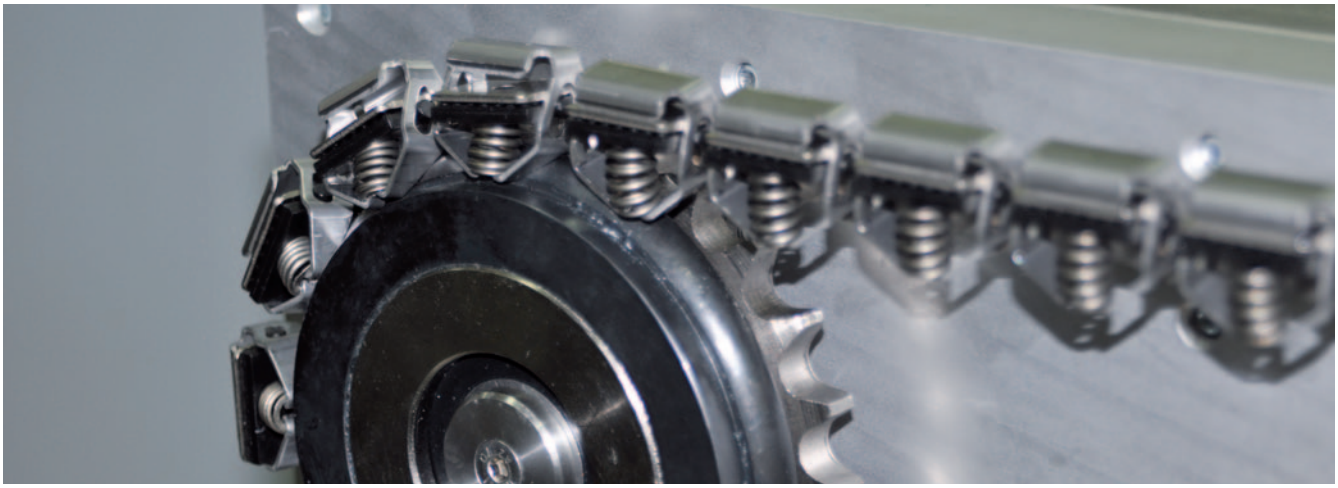
Details of the gripper functioning

- Clamp is being made out of corrosion resistant, high-tensile and dimensionally stable steel
- “Back” radius on clamp for optimum opening and closing of the gripper (self centring)
- Accurately fitting of the gripper in the groove
- Sharpe edged and wear resistant gripping flange guaranties long life time
- Gripping flange is rounded on the side for protecting the transported plastic film
- Burling plate guaranties optimum wear behaviour (steel-plastic)

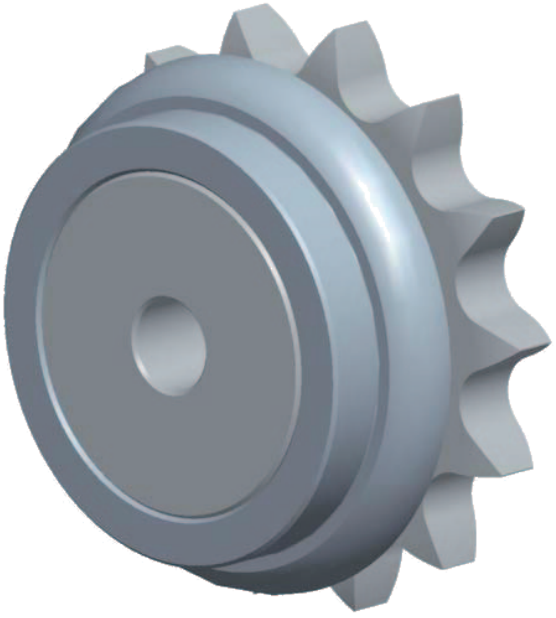


Sprockets

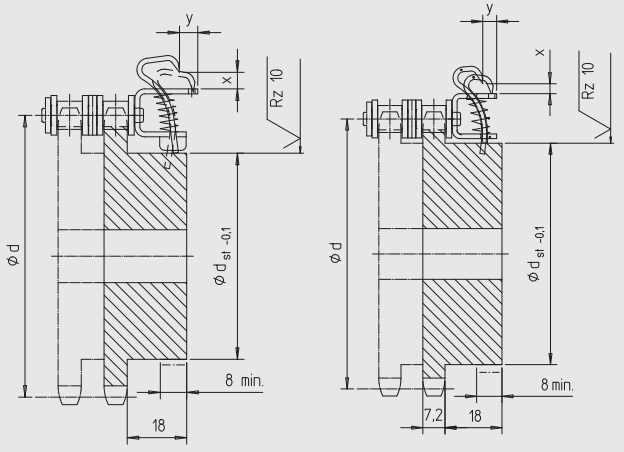
The sprockets for our new gripper chain are really simple!



- Sprocket design is based on a two part assembly. One part is a sprocket nearly the one side hub sprocket like catalog. The second part is a control disk
- This part must be hardend because it is in contact to open the gripper
- The two parts are assembled with press fit
- As smallest sprocket for this application we advise 14 teeth
- For a better chain running we suggest more than 19 teeths for the sprocket
- A lot of adaptations are possible, for example plummer blocks, keyways, threads, special diameters, surfaces...
- Please contact iwis with your technical requirements and quantity



Examples of special sprockets for 1/2" Grip chains Version A and Version B



Version A **Version B**

Dimensions x and y dependet on the spring used, on request. We recommend a ramp if the number of teeth is less then 20 teeth, beyond that ramp is optional.

Available chain guides

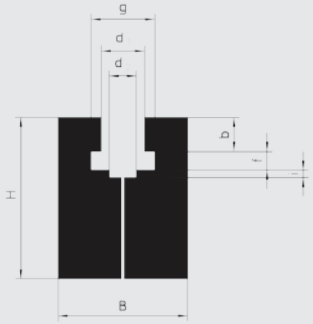
made of plastic

Slide rails from ultra high molecular high density polyethylene* 1000 with a regenerative component.

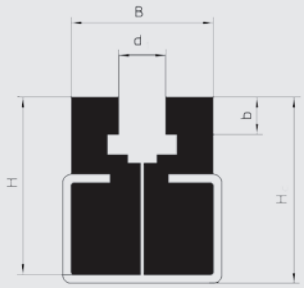
This proven quality is characterised by its outstanding sliding properties, abrasion resistance and mechanical values.

*PE–UHMW

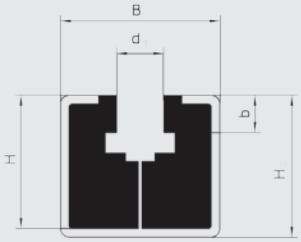
GL 1B 2-parts



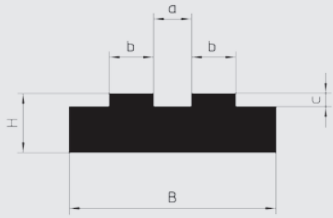
GL 1B-C 2-parts



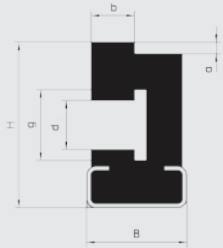
GL 1B-C covered



GL 2



ETA



Special custom-made guides are available on request!

For more chains guides, please check our ELITE Drive components catalog.

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