



## **iwis**® Grip Chains

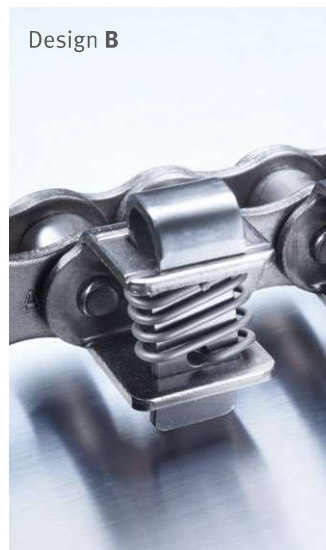
Safe infeeding, transportation and positioning of thin-walled, large-area soft foils and panels

### PRODUCT RANGE



Design A

With 1 tip



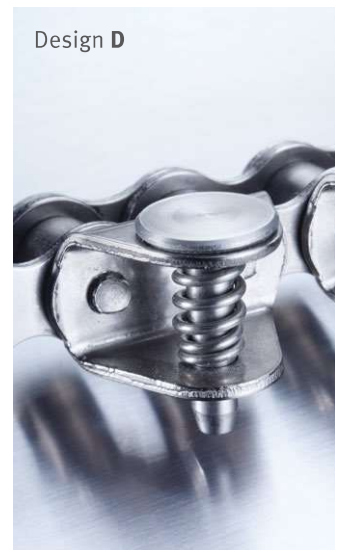
Design B

With 2 tips



Design C

With flat clamps



Design D

With button clamps

### HIGHLIGHTS

- iwis high-performance chains with excellent wear resistance
- Minimal initial elongation due to optimum pre-stretching
- High rigidity also enables applications in long machines
- Basic chain versions are chemically nickel-plated / MEGAlife maintenance-free versions are available on request
- Identical chain lengths (within the selected tolerance range) ensure excellent running characteristics in both synchronous and parallel operation

- Differing levels of spring force allow an extremely wide range of materials to be gripped gently and held securely
- Chains with restricted length tolerances can be produced
- Recommended maximum running speed:
  - 2 m/s for the 1/2" grip chain
  - 1,2 m/s for the 5/8" grip chain
 Different control geometry is required for higher running speeds.
- iwis provides complete, ready-to-install solutions!

### FLYER

See our product flyer for more information.



All chains can be supplied with a high-quality **food-grade** initial lubricant!





## THE NEW IWIS GRIP CHAIN

Design E



**NEW**

Springs with increased fatigue strength

### CURRENT SOLUTION

- Not enough space to insert film
- Applying force only to individual points in the foil can cause the film to tear, which also results in increased noise.
- Foil deformation possible at the edge of the gripper element

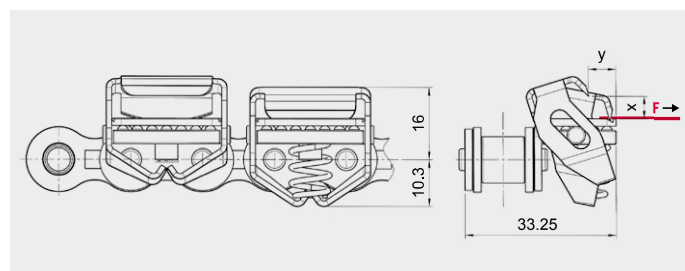
### OUR SOLUTION

- Accurate fitting of gripper in the groove
- Better retention force than the competition
- Retention force dependent on plastic film used
- Burled plate for optimized functional safety and hygiene
- More free space for better foil insertion
- Films are not twisted, no deformation at the edge of the gripper element
- Lower noise emissions
- Easier removal of foil scraps at the line outfeed

### TECHNICAL FEATURES

- Optimization of Grip Chain M106 with attachment 202.6 on one side and delivery as a complete solution with gripper system consisting of clamp, burled plate and spring
- Clamp and spring made of corrosion-resistant steel
- Chain is chemically nickel-plated
- Available with long-lasting lubrication or food-grade lubricant
- Alternative: M106 standard chain also available without attachments (clients may fit their own grippers)
- Springs with optimised surface structure

iwis reference	ISO	Pitch p [mm]	Average foil retention force $F^*$ [N]	x	y	Article No.
M 106	10 B-1	15.875	85	4.9	6.1	50040658



Dimensions x and y are dependent on the springs used. These are maximum values for the opening stroke. A smaller opening stroke will increase life expectancy of the spring.  
\* Reference films were used to determine the average film gripping force (F).  
Concrete values are dependent on the film used (material, surface, thickness).  
Deviations are possible.



## **iwis**® Grip Chains

Safe infeeding, transportation and positioning of thin-walled, large-area soft foils and panels

### “1-TIP” GRIP CHAINS

### “2-TIP” GRIP CHAINS

Design A

Design B



#### TECHNICAL FEATURES

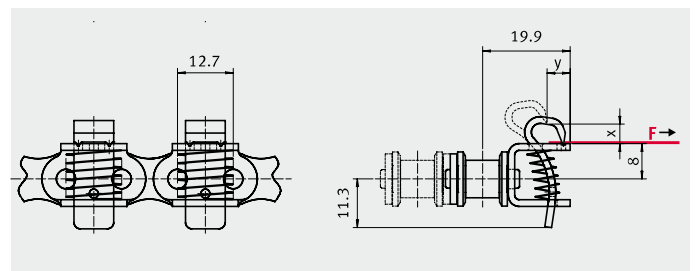
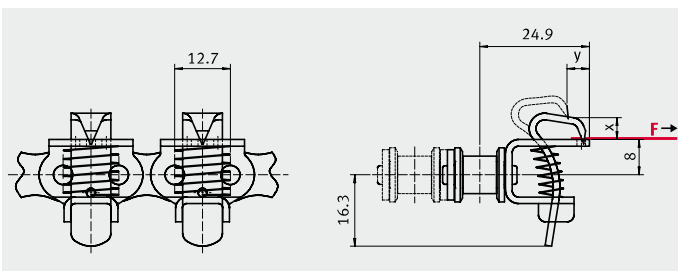
#### TECHNICAL FEATURES

- Simplex and duplex chain 1/2 x 5/16“ acc. to ISO 606
- Gripper with 1 tip, special designs on request
- Retention force is dependent on material conveyed and spring design – different number of coils and wire spring diameters available
- The gripper opens when it runs against a control disc (e.g. sprocket hub), causing it to swivel away outwards
- Food-grade initial lubrication
- Sprocket designs on request

- Simplex and duplex chain 1/2 x 5/16“ acc. to ISO 606
- Gripper with 2 tips, special designs on request
- Retention force is dependent on material conveyed and spring design – different number of coils and wire spring diameters available
- The gripper opens when it runs against a control disc (e.g. sprocket hub), causing it to swivel away outwards
- Higher retention force in comparison with 1-tip grip chain
- Food-grade initial lubrication
- Sprocket designs on request

iwis reference	ISO	Pitch p [mm]	Average foil retention force F* [N]	Spring	x	y	Article No.
L 85 Grip	08 B-1	12.7	10	0.7 x 6	5	6	50007495
L 85 Grip	08 B-1	12.7	24	0.9 x 5	4	5	50034722

iwis reference	ISO	Pitch p [mm]	Average foil retention force F* [N]	x	y	Article No.
L 85 Grip	08 B-1	12.7	35	3.0	4.5	50024958



Dimensions x and y are dependent on the springs used. These are maximum values for the opening stroke. A smaller opening stroke will increase life expectancy of the spring.  
\* Reference foils were used to determine the average foil gripping force (F).  
Concrete values are dependent on the film used (material, surface, thickness). Deviations are possible.





“FLAT CLAMP” GRIP CHAINS

“BUTTON CLAMP” GRIP CHAINS

Design C



Design D



TECHNICAL FEATURES

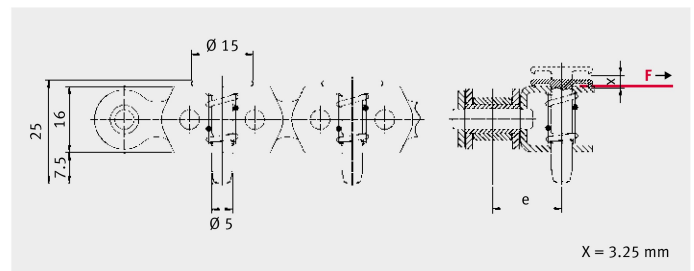
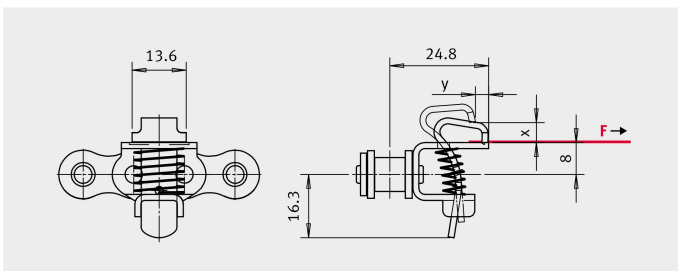
TECHNICAL FEATURES

- Simplex and duplex chain 1/2 x 5/16“ acc. to ISO 606
- Gripper with flat clamping surface
- Retention force is dependent on material conveyed and spring design – different number of coils and wire spring diameters available
- The gripper opens when it runs against a control disc (e.g. sprocket hub), causing it to swivel away outwards
- Gentle handling of materials
- Low transmission forces
- Sprocket designs on request
- Can also be used for paper

- Simplex chain 1/2 x 5/16“ or 5/8 x 3/8“ acc. to ISO 606
- Rotationally symmetrical gripper element
- Extremely flat button clamp
- Retention force is dependent on material conveyed and spring design – different number of coils and wire spring diameters available
- **iwis patent** (spring without additional fixing elements)
- Does not swivel away outwards when opened
- Sprocket designs on request

iwis reference	ISO	Pitch p [mm]	Average foil retention force F* [N]	Spring	x	y	Article No.
L 85 Grip	08 B-1	12,7	3	0.7 x 6	5	3.5	50037062
L 85 Grip	08 B-1	12,7	5	0.9 x 5	4	2.8	50035540

iwis reference	ISO	Pitch p [mm]	Average foil retention force F* [N]	e	Article 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

Dimensions x and y are dependent on the springs used. These are maximum values for the opening stroke. A smaller opening stroke will increase life expectancy of the spring.  
\* Reference foils were used to determine the average foil gripping force (F).  
Concrete values are dependent on the film used (material, surface, thickness). Deviations are possible.