

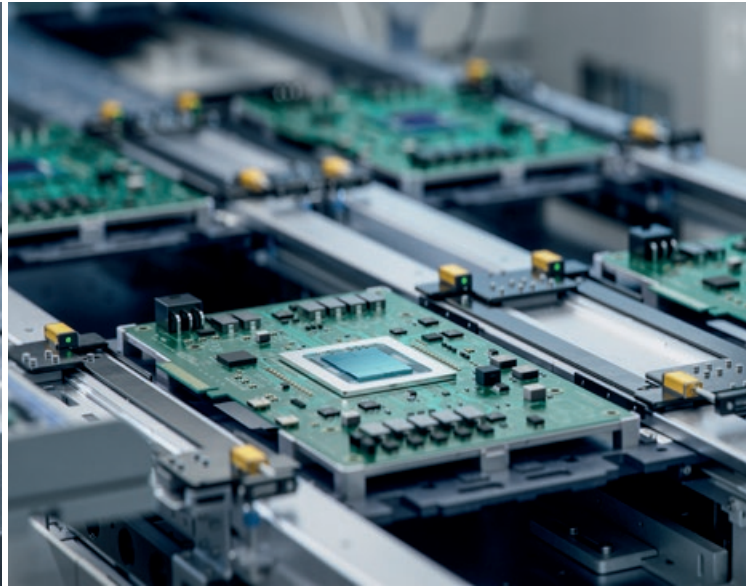
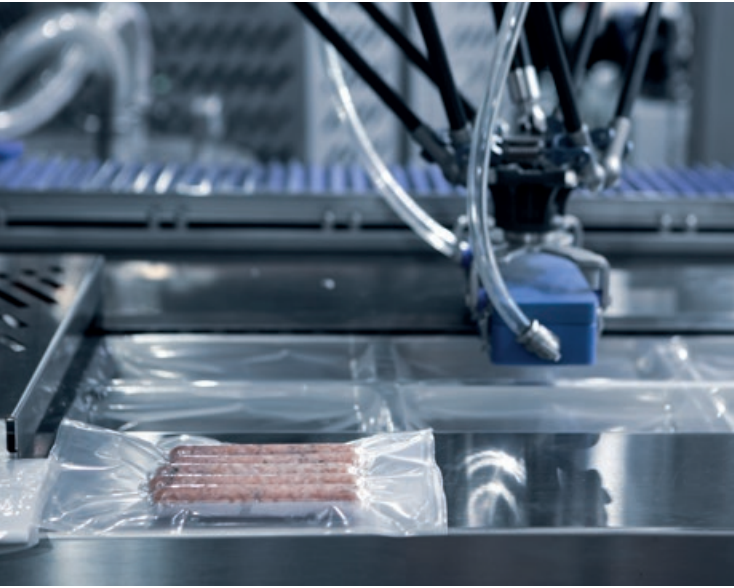
# iwis

wir bewegen die welt



*New*

Grip Chains –  
Precision Meets Performance



## Engineering Expertise You Can Rely On

Grip chains with **wear-resistant, corrosion-proof clamping** elements are used for gripping, pulling and transporting thin-walled materials with large surface areas. Sensitive materials such as plastic packaging films, thin sheet metal, plastics and other hard sheet materials require careful handling to prevent damage during transport, positioning, feeding, pulling in or out, stamping, welding, filling, laminating, cutting, stretching, forming or sealing.

iwis grip chains with clamping elements provide an optimal feed of materials. The **special pivoting gripper mechanism** ensures high-precision handling and precise positioning of the conveyed material by secure clamping. Variable spring forces allow gentle

clamping of a wide variety of materials. Chain and clamping elements are corrosion-protected, wear-resistant and treated with **food-grade initial lubricant** as standard.

Selecting the right grip chain is not only about geometry – it is about matching clamping force, spring design and chain configuration precisely to your specific film thickness and material properties. With decades of experience in chain engineering and application consulting, iwis supports customers worldwide in defining the optimal solution for reliable, damage-free material handling. **Our specialists analyze your process parameters and provide tailored recommendations to ensure maximum performance and operational safety.**

## Key Highlights

- Excellent wear resistance for long-term operation.
- Minimal initial elongation due to optimized pre-stretch process.
- **High chain stiffness** — suitable for long machine layouts.
- Corrosion-resistant components and optional food-grade lubrication.
- **Precise chain length tolerances** support synchronous operation.
- Gentle, secure gripping through adjustable spring forces
- Basic chain versions are high-grade nickel-plated / **maintenance-free MEGAlife** versions are available on request
- iwis provides complete, ready-to-install solutions!



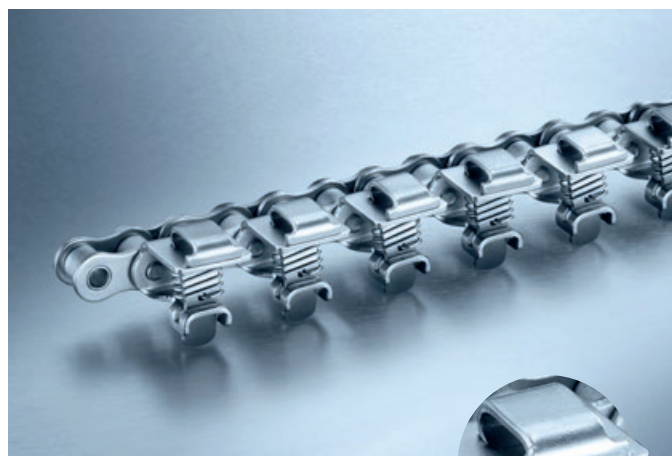
## Grip Chain Product Range



**Version A**  
"1-tip" Grip Chains



**Version B**  
"2-tip" Grip Chains



**Version C**  
"Flat clamp" Grip Chains



**Version D**  
"Button clamp" Grip Chains



**Version E**  
Grip chain with clamp E



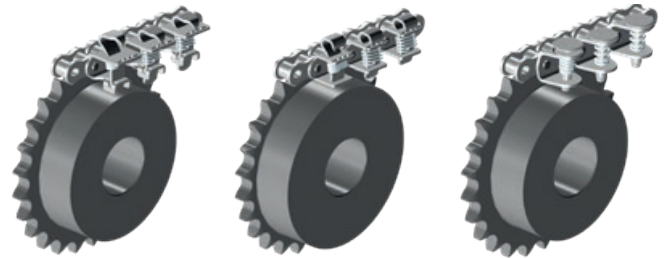
**Version F**  
Grip chain with clamp F

## Sprockets



### Version G

"Button Clamp" Grip Chains



Version A

Version B

Version D

### Recommendations

- For applications with  $\frac{1}{2}$ " **grip chains**, the recommended minimum number of teeth on the control sprocket is: **11**
- For applications with  $\frac{5}{8}$ " **grip chains**, the recommended minimum number of teeth on the control sprocket is: **14**
- For improved running characteristics, we recommend control sprockets with a minimum of 19 teeth.
- We recommend the use of a ramp for sprockets with fewer than 20 teeth. A ramp is optional if sprockets have more than 20 teeth.
- Different spring sizes require different control disc diameters.

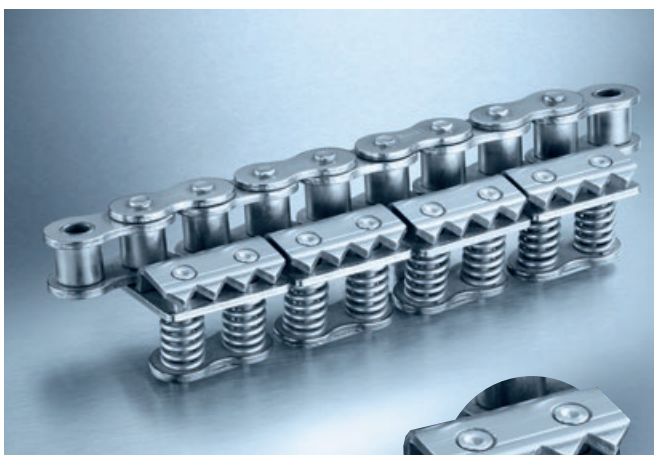
### Customised designs

Sprockets can be supplied in accordance with customer specifications e.g. bearing seats, keyways, threads, special diameters, surfaces... Please advise us of the technical specifications and quantities you require.



### Version H

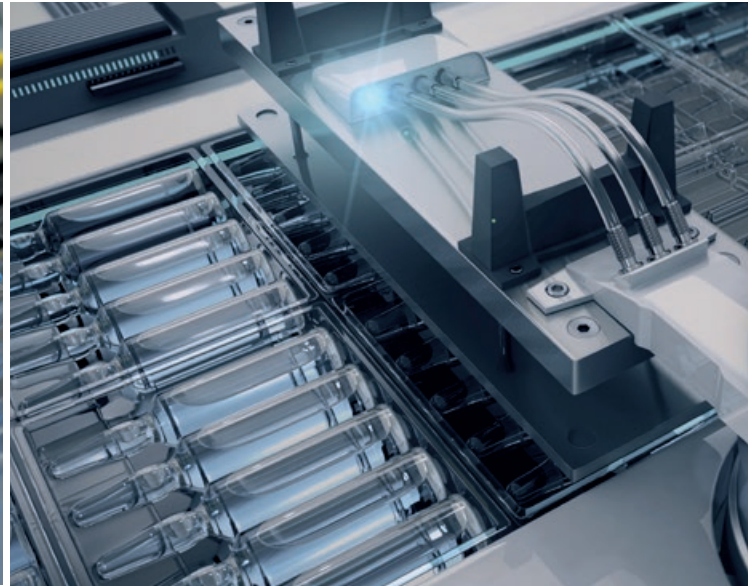
"Button Clamp" Grip Chains



### Version I



Example with Version E



## Why iwis? – Engineering Expertise That Adds Value

iwis operates one of the **world's largest R&D departments** for chain drive systems, supported by advanced testing and simulation technologies. In the field of grip chains, this expertise is reflected in **patented gripping systems, optimized contact geometries and precisely coordinated material and heat treatment processes** – all engineered for stable and reliable performance in demanding applications.

Using FEM analysis, endurance testing and detailed wear and load simulations, we validate every critical parameter before implementation. This ensures **consistent gripping forces, long service life and predictable system behavior** – even under dynamic operating conditions.

For technical buyers, this means process reliability, reduced downtime and calculable maintenance intervals. For design engineers, iwis is a reliable development partner offering simulation, validation and system expertise from a single source – far beyond the chain itself.

### **Planning a new system or optimizing an existing application?**

Contact our grip chain specialists for tailored design support and technical consultation.

## Industries & Applications – Different Processes, Different Requirements

Grip chains are used across various industries. What matters is not the product itself, but the specific process requirements arising from factors such as material type, operating environment, durability and safety standards.



*Beyond the Grip!*



Scan me!

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