

# iwis

wir bewegen die welt

**KEEPING THINGS MOVING.  
FOR QUALITY AND VARIETY.**

*New*

iwis chain solutions  
for automotive production lines

[www.iwis.com](http://www.iwis.com)

## Our promise: Your reliable partner in the automotive industry

The automotive industry is one of the largest and most diverse industries in the world. And it has some of the most demanding requirements and quality standards of any manufacturing sector. And against the backdrop of the transformation that is currently taking place in this industrial segment, it is crucial to have partners who combine reliability with innovative strength. This is the only way to ensure that the success story continues into the future.

Fast cycle times, just-in-sequence processes and 24/7 production demand **maximum reliability** of the production components. This is especially true for drive solutions and in particular for chain technology.

Only then is it possible to avoid costly downtimes. For critical factors such as **length tolerances, varying temperature ranges, maintenance** and maximum availability of production systems, it is necessary to find solutions that are reliable, durable and trouble-free.

As your partner, iwis antriebssysteme offers a **comprehensive range of precision chains** – which means that for your conveyors and transport systems, you will always have a solution that is individually tailored to your specific requirements and perfectly suited to your application.

## We aspire to the very highest levels of performance

### What sets us apart

As a family-owned company with a tradition stretching back more than 100 years, we have always aspired to offer our customers the best technological solution that delivers the best value for money. Our goal is to provide you with a smooth production flow without downtimes – as cost-effectively as possible.

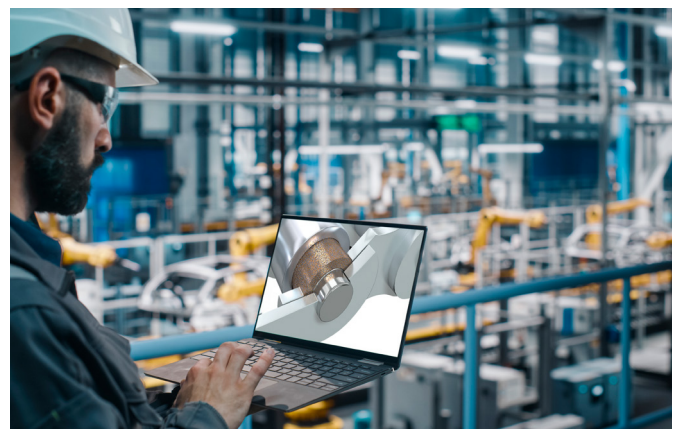
As a technology leader in the field of drive systems, we are today a valued development and production partner for the automotive industry worldwide. Our diverse product portfolio includes a **wide range of drive and conveyor chains** for the entire process – and for every **industry-specific requirement**.

Furthermore, we are here for you when it comes to tailored solutions. We have many years of experience and comprehensive expertise in the automotive sector. During development, we can also draw on our high-performance test laboratory with a wide range of test rigs to support you in implementing solutions that exactly match your needs.

### Did you know ...

... that our iwis mobility systems division has considerable expertise in the field of timing drive systems and is able to supply entire timing drives and individual components for any engine worldwide?

Not only that: In addition to timing drives, iwis also manufactures important components for transmissions in the form of its rocker pin chains and inverted tooth chains with single pin joints.

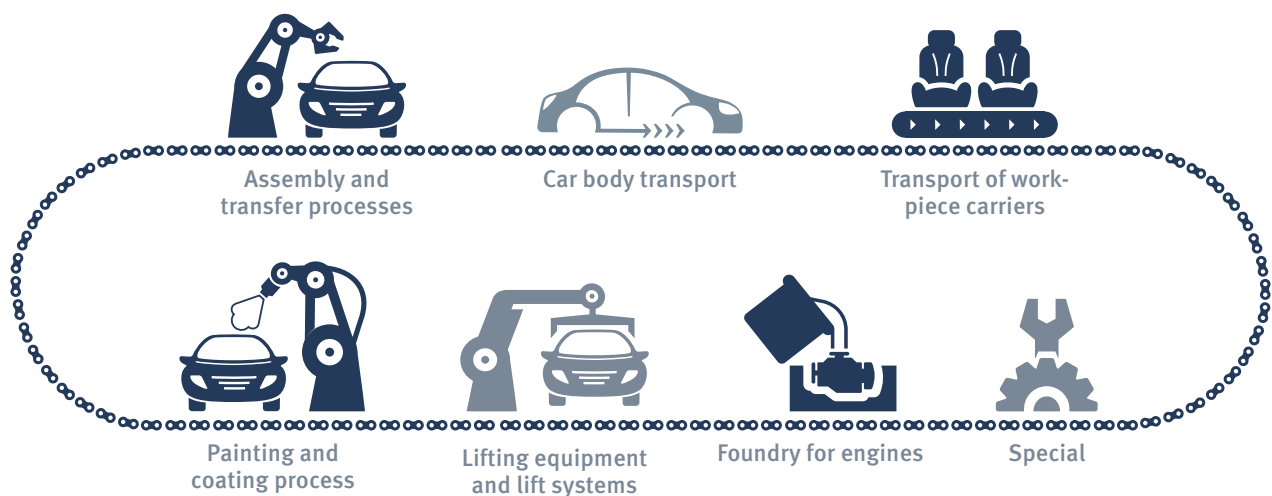


## Our solution: The right chain for every application

Chains in the automotive industry have to work hard and be extremely durable: So it is of utmost importance that the properties of the chains perfectly match the specific requirements. After all, damage, repairs and maintenance lead to extremely costly downtimes in production. Which is something to be avoided right from the start. For us, it goes without saying that

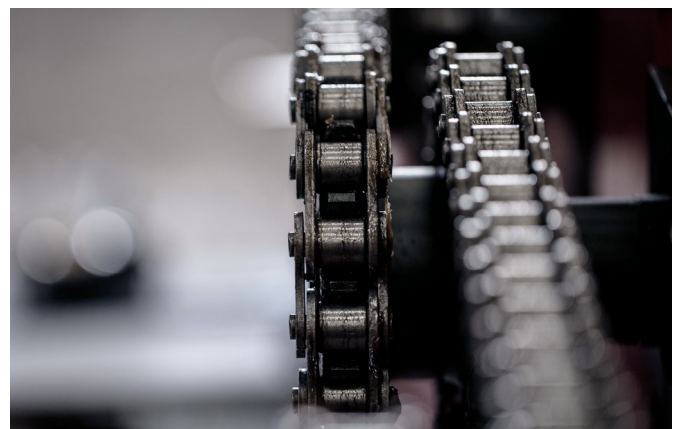
we start off by listening very carefully to you, our customer, and ask the right questions. With our many years of experience and our technical expertise, we will work with you to find the best possible solution for your specific application.

### This is where our solutions are used



### This is how you benefit from our solutions

- Increased productivity
- Reduced machine downtimes
- Greatest possible length precision and tolerances across pairs of components
- Use of the optimum lubricant or the use of sintered metal bushes to eliminate the need for maintenance
- Low-friction rollers to save energy
- On-site customer care by iwis staff



## Our portfolio: iwis chains for the automotive industry

### MEGAlife maintenance-free

MEGAlife is the epitome of maintenance-free roller and conveyor chains. Difficult access for maintenance work in conveyor systems or undesirable relubrication are just two reasons for using a maintenance-free chain. MEGAlife roller chains combine excellent wear protection and durability with corrosion protection and environmental compatibility.

### Maintenance-free stainless steel chains

Stainless steel chains are also maintenance-free. They are extremely wear-resistant, rust-free and absolutely dry. The secret of our b.dry chains lies in the use of rust-free, maintenance-free CF stainless steel with an optimized link. This is complemented by the use of a b.dry bush made of a special high-performance polymer.

*Let's move the world together*

Are you already familiar with the maintenance-free MEGAlife roller and conveyor chains? You can find the entire premium chain range, together with attachments, in our new flyer. [www.iwis.com/downloads](http://www.iwis.com/downloads)



### Accumulation chains

Stop-and-go operation with accumulation chains in automotive transfer lines makes for a demanding environment. iwis accumulation chains guarantee problem-free positioning of conveyed goods via simple stopping points and prevent jolts when the chain starts and stops.

### Bush conveyor chains

Bush conveyor chains are large-scale conveyor chains. They are particularly suitable for long conveying distances and relatively slow speeds. They are custom built and we adapt the conveyor chain to exactly suit your application.

## The iwis sustainability philosophy



Did you know that iwis contributes to enhanced sustainability in two ways? On the one hand, our business activities, our operational processes and our decisions are always guided by economic, ecological and social considerations. On the other hand, the low lubricant requirement, long service life and low friction of our chains mean that they make a significant contribution to the conservation of resources and the reduction of environmentally harmful CO<sub>2</sub>.



## What you can expect from us

- Full product range
- Innovative technology
- Top quality
- Many years of experience
- In-house test rigs and laboratories
- Listed as approved supplier
- On-site, customer-oriented service worldwide



## iwis industrial services – increased production volume

We can help you by advising on the selection and use of technological developments in the chain sector in order to optimize the performance and service life of your equipment.

### ✓ Maintenance and servicing

Maintenance and servicing for industrial plants, especially conveyor systems with drive chains.

### ✓ Advice

Advice on the correct selection of roller chains, sprockets and chain lubrication systems.

### ✓ Technologies

Use of new chain technologies to ensure future spare parts procurement.

### ✓ Monitoring

CCM-S – a sensor-based monitoring system to record chain wear.

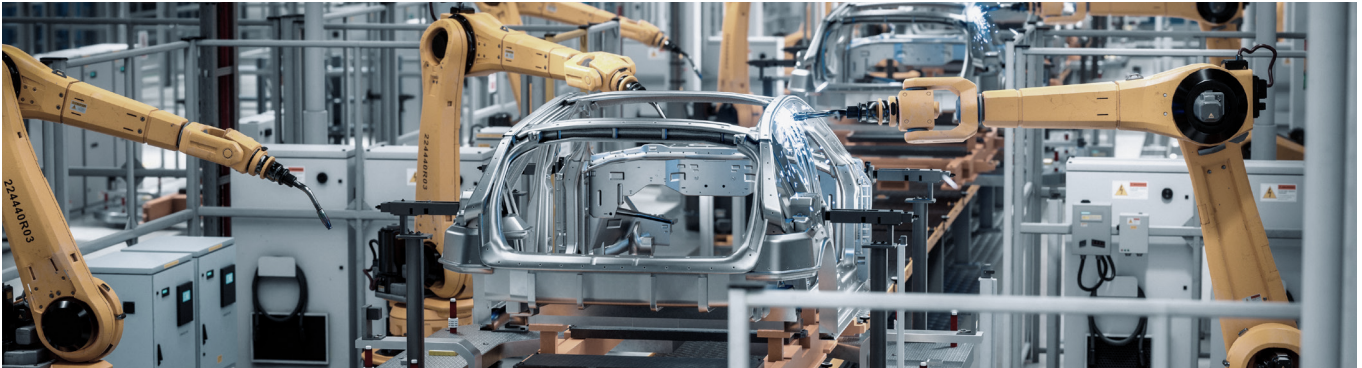
### ✓ Design

Professional design of chain drives, complete with sprockets and the right lubricant.

### ✓ Warehouse

Large stocks allow equipment to be supplied promptly.





## Assembly and transfer processes

Many items in the automotive industry are conveyed directly on chains or on chain-driven roller conveyors, such as large load carriers (LLCs), small load carriers (SLCs), mesh boxes, adapters or pallets. This means that the use of drive chains or multiflex chains is another crucial factor in making manufacturing processes efficient and achieving stable workflows. Thanks to our extensive product portfolio and our experience in the automotive sector, we at iwis are able to provide the right solution for every manufacturing process in vehicle production. In this way, we ensure the reliability and stability of the assembly line processes in the plant and greater safety for the machines and the people who operate them.

### 1 Maintenance-free accumulation chains



Maintenance-free accumulation chains from iwis have excellent wear characteristics and are highly durable, even under extreme conditions. This is ensured by our special link designs with bushes made of sintered metal as well as

nickel-plated plates and pins with environmentally friendly, lubricant-free surfaces. This reduces not only the maintenance costs but also the downtime of your system.

### 2 Plate conveyor chains



iwis plate conveyor chains are a hybrid of roller chains and flat top chains. They bring together the high tensile strength of a roller chain and the outstanding stability of a flat top chain. Plate conveyor chains are available in

plastic, steel and stainless steel. They are often used for transporting goods carriers and thus allow all components to be transported stably, even in the case of very small radii.

### 3 Accumulation chains with finger and parts protection



Our accumulation conveyor chains ensure 100% coverage of the accumulation conveyor roller gap by matching the chain type to the required deflection radii, thus ensuring the safety of the machines and those who operate

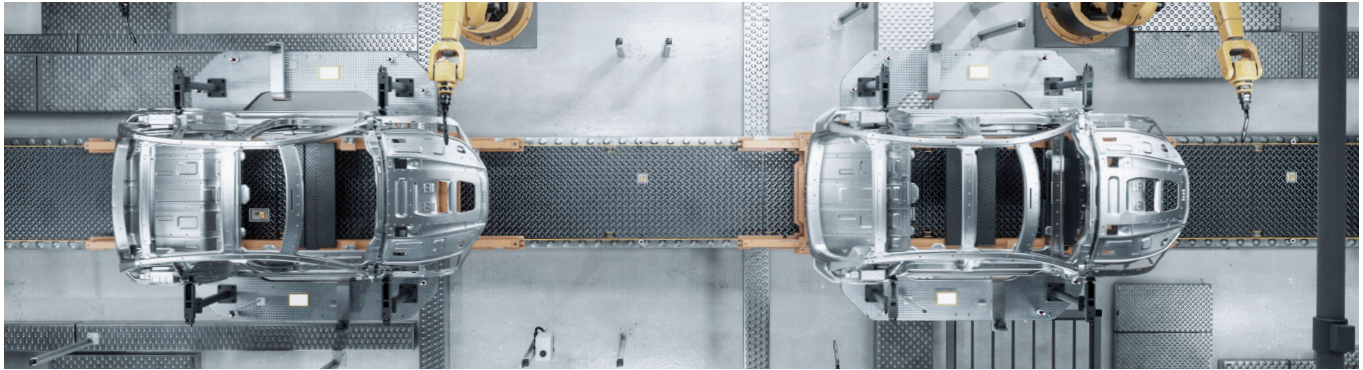
them. In our solutions, the plastic clip is securely mounted in the inner link. In addition, the transported material or the workpiece carrier and the accumulation rollers are not subjected to any abrasion. Our accumulation chains are available in two finger protection versions: with and without a joint.

### 4 Multiflex chains



Our plastic multiflex chains are available for transporting goods carriers and are suitable for all workpiece carrier systems. They allow maximum 3D movement and stability for the goods conveyed. As they form closed

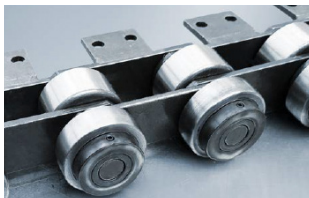
surfaces even in curves, they also ensure maximum safety for people and the goods conveyed. The particular strengths of iwis multiflex chains include maximum wear resistance, long service life and quiet operation.



## Car body transport

Conveyor chain systems ensure that individual processes in assembly lines are synchronized and that workflows are observed. The precision of the chains is crucial for exact coordination of the conveyor chain systems. Here, the precision and consistently high iwis quality, coupled with high wear resistance, allow perfect coordination of the systems. Value added for you: The precision and durability of iwis chain conveyors ensure maximum availability and trouble-free synchronization in your production plants.

### 1 Bush conveyor chains



Bush conveyor chains from iwis really come into their own with long conveying distances and relatively slow speeds. The effective breaking strength of our ELITE bush conveyor chains is well above what is standard in the industry thanks, among other things, to case-hardened pins and bushes and hardened and tempered link plates. Furthermore, their low run-in elongation means that our ELITE bush conveyor chains only rarely need to be re-tensioned. For your production, this means a high level of cost-efficiency and significantly reduced maintenance times thanks to the high fatigue strength and extreme wear resistance of the chains.

Thanks, among other things, to case-hardened pins and bushes and hardened and tempered link plates. Furthermore, their low run-in elongation means that our ELITE bush conveyor chains only rarely need to be re-tensioned. For your production, this means a high level of cost-efficiency and significantly reduced maintenance times thanks to the high fatigue strength and extreme wear resistance of the chains.

### 2 Accumulation chains with offset conveyor rollers



Accumulation chains from iwis guarantee problem-free positioning of the goods to be conveyed and virtually jolt-free starting and stopping thanks to extremely smooth-running sintered metal rollers. The particular benefit:

This means that your system can be equipped with smaller drive units – or can be constructed up to 30 % longer with the same drive motors. Furthermore, load distribution is optimized, support is enhanced and the conveyed material runs more smoothly. All this means that the chain and drive are protected and the service life of the entire system is extended. In addition, offset accumulation rollers reduce the local load on the chain guide by up to 50 %, so that, for instance, plastic guides can be used with up to double the weight load.



## Transport of workpiece carriers

The transport of workpiece carriers connects production stations with each other and interlinks the manufacturing processes for the individual parts or components. Here, roller chains, flat top chains, multiflex chains and apron conveyor chains from iwis ensure that everything in the “shunting yard” functions smoothly and reliably. The added value for our customers: the high precision and wear resistance, the surface precision and high load capacity of iwis chains – and the intervention protection to ensure the safety of people and machines.

### 1 Maintenance-free MEGAlife roller chains with straight link plates



Maintenance-free MEGAlife roller chains have seamless sintered bushes made of materials specially developed for this application, seamless rollers with a corrosion-resistant surface and pins with a wear-resistant and

friction-optimized coating. MEGAlife roller chains stand for extremely high tensile and fatigue strength and thus for enhanced safety in the production processes. Furthermore, they boast significantly higher stiffness and particularly low elongation over their entire service life. This results in extremely high availability of the conveyor systems, as the usual maintenance intervals are no longer required with MEGAlife roller chains.

### 2 Flat top chains



Flat top chains from iwis are used for transporting individual machined parts. They are available as straight running or sideflexing versions and in various link designs, plate thicknesses and materials: plastic, stainless steel

or steel. Their strengths include high permissible loads, good wear resistance, high-quality surfaces and ultra-precise workmanship. Depending on the application, the steel is hardened up to 56HRC.

### 3 Multiflex chains



Multiflex chains made of plastic are used in a wide variety of ways for transporting goods carriers in all workpiece carrier systems. Closed surfaces, even in curves, ensure maximum safety for people and the goods being

conveyed. Extreme wear resistance, durability and low-noise operation are also among the highlights. They also guarantee maximum 3D movement and stability for the goods being conveyed.

### 4 Plate conveyor chains



iwis plate conveyor chains are a hybrid of roller chains and flat top chains. They bring together the high tensile strength of a roller chain and the outstanding stability of a flat top chain. Plate conveyor chains are available in plastic, steel and stainless steel.

They are often used for transporting goods carriers and thus allow all components to be transported stably, even in the case of very small radii.





## Painting and coating process

During painting and coating processes, iwis conveyor chains ensure that the goods are conveyed gently and ensure that the highly sensitive painted surfaces arrive at the assembly lines in perfect condition. Our maintenance-free b.dry stainless steel chains are primarily used for this purpose: These are not only low-wear, with high tensile and fatigue strength, but also free of silicone and PWIS (paint-wetting impairment substances).

### 1 Maintenance-free CF b.dry stainless steel chains



Maintenance-free b.dry chains are made from rustproof, maintenance-free CF stainless steel and enclosed in high-performance polymer bushes. This makes the chains lubricant-free and compliant with PWIS guidelines. Our

b.dry chains are completely dry-running and are more resistant to wear and corrosion, stronger, and have a longer service life than comparable chains. The consequence for you: Reduced downtimes and maintenance costs coupled with a lower risk of contamination for the product and in production.

### 2 Standard stainless steel roller chains



Stainless steel roller chains from iwis with precisely punched link plates and supreme surface quality ensure stability and an extended service life in the painting and coating process. Extremely shock-resistant rollers allow

them to be used in demanding applications. Seamless iwis bushes reduce initial wear elongation and guarantee a significantly higher positioning precision than conventional stainless steel roller chains in operation. And we can design our chains for use in a temperature range from -100°C up to +400°C (with special lubricant).

### 3 Maintenance-free MEGAlife roller chains



The maintenance-free MEGAlife roller chains from iwis have an extremely high tensile and fatigue strength, which provides additional safety in the application. They are perfect for use in dry environments and in applica-

tions where access for maintenance work is restricted, as they have an above-average wear life even without relubrication. The consequence for you: less downtime and lower maintenance outlay.



## Lifting equipment and lift systems

Chains from iwis are used in automotive production in chain conveyors in high-bay warehouses, pallet warehouses or automated small parts warehouses as well as in automated stackers, elevators and lifting equipment. As these are all safety-relevant applications, we at iwis apply stringent quality requirements in this area and take an extensive range of measures to ensure that they are met. The required documentation accompanying the product is a matter of course for us. Value added for you: Reliability and durability that ensure safe and trouble-free production.

### 1 Leaf chains



Leaf chains from iwis lift and pull loads very reliably. They are manufactured in accordance with the EC Machinery Directive 2006/42/EC and can be tailored to meet customer requirements. In contrast to roller chains, they consist

only of pins and link plates, which gives them a very high breaking strength. Even more added value: The link plates of the leaf chains have particularly high contact ratios, and the high-strength pin surface additionally increases wear resistance.

### 3 Standard roller chains with attachments



iwis' range of chains is unparalleled in its variety. The five main iwis brands offer an ideal solution for almost all applications in the automotive industry, more than meeting the high quality requirements of the sector.

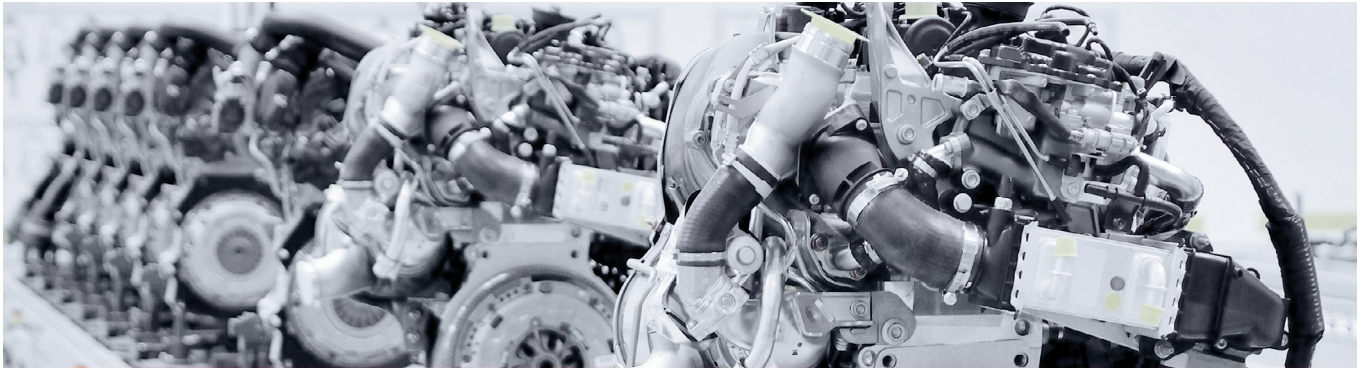
Alongside roller chains of all types and sizes as well as roller chains with attachments and long-link roller chains, our range also includes wide specialist chains and a broad spectrum of innovative customized developments.

### 2 Maintenance-free MEGAlife roller chains with attachments



The maintenance-free MEGAlife roller chains from iwis are ideally suited for normal chain applications without relubrication. They are characterized by optimized wear behaviour even at high speeds and can be used where

conventional maintenance-free chains stretch. The special features of the maintenance-free MEGAlife roller chains: seamless, hardened sintered bushes made of special materials and treated for optimum tribological properties, seamless rollers with corrosion-resistant surfaces and pins with wear-resistant and friction-optimized surface coatings. MEGAlife roller chains thus stand for extremely high tensile and fatigue strength in the temperature range from  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  and offer an above-average service life without relubrication. What this means for you: less downtime and lower maintenance outlay.



## Foundry for engines

Accumulation chains are the ones that are mainly used in the abrasive environment of engine foundries. Accumulation chains from iwis ensure the exact positioning of the goods to be transported and the efficient transport of load carriers in this area. Problem-free positioning via simple stopping points and the prevention of jolts when starting and stopping the chain are just as much features of these chains as durability and reliability under these extreme conditions. iwis accumulation chains stand for proven quality, robustness and outstanding wear behaviour at an attractive price.

### 1 Standard accumulation chains



The JWIS and ELITE brands from iwis offer you a broad portfolio in the accumulation chain segment – from offset rollers to side bow chains and ESD-compatible chains to low-friction roller chains. The materials available

include hardened steel, stainless steel, plastic and nickel-plated steel. Special heat and surface treatment means that iwis solutions combine the highest precision with resilience and wear resistance.

### 2 Accumulation chains with finger and parts protection



The accumulation roller gap in accumulation chains with finger and parts protection is 100 % covered to protect personnel and material and prevent the ingress of small parts. They thus stand for proactive prevention in respect of the

ever more stringent requirements of occupational safety. Accumulation conveyor chains from iwis are available in two finger protection variants: With a joint as a single component that completely encloses the pin, and without a joint, which is easy to install and well suited for reversible operation.

### 3 Transfer chains



Exclusive to iwis: Our fully enclosed transfer chains are completely closed on three sides with wear-resistant and highly durable plastic support brackets – including in the deflection area. The tight fitting cover of

the chain's functional zone prevents malfunctions, avoids the risk of injury and protects such items as machined workpieces with sensitive surfaces during transport. Our transfer chains can be used in both horizontal and vertical installation orientations. Various basic chains are available, such as MEGAlife, nickel-plated or corrosion-resistant.

### 4 Maintenance-free accumulation chains



iwis maintenance-free accumulation chains are ideal for foundries. They ensure a clean and dry environment as they do not require relubrication and therefore do not lose lubricant. The portfolio of maintenance-free

accumulation chains from iwis is very broad and available in a range of performance categories. In addition to accumulation chains of the ELITE and MEGAlife brands, this also includes maintenance-free accumulation chains with offset, low-friction rollers, for example.



## Special solutions from iwis – tailored solutions to meet the challenges you face

The requirements chains must meet in the automotive industry, such as wear resistance, surface finish, tolerances, tensile strength, fatigue strength, lubricants or lubricant-free operation as well as reproducibility are very stringent and sometimes require custom solutions. As a technology leader and your development partner, we at iwis antriebssysteme support you in effortlessly mastering the challenges you face. By using the latest technologies, state-of-the-art simulation and design tools developed in-house and our large test laboratory, our development engineers will find the chain that precisely meets your needs. Your added value: top quality and precision, outstanding value for money and a worldwide presence thanks to the numerous international locations of the iwis group.



### **CLA minimum quantity lubrication system – reduces wear, increases service life**

Economical, clean and precise for a longer chain life. iwis' new, sustainable "Chain Lubrication Application" (CLA) lubrication system for chain drives allows you to reduce chain wear and extend the service life of the chain. The new CLA lubrication system works as a minimum quantity lubrication system and, using a special applicator, continuously delivers small quantities of lubricant to the chain drive – only where it is needed. This avoids both inadequate lubrication and over-lubrication. The CLA pumps can be operated separately with time control or can be simply integrated in the machine's PLC.

You can find further information in our catalogue "The CLA lubrication system from iwis" at [www.iwis.com/downloads](http://www.iwis.com/downloads)



### **CCM-S chain condition monitoring system – the intelligent way to greater reliability**

Our "Chain Condition Monitoring – Smart" (CCM-S) system allows you to perform smart monitoring of the wear elongation of your chains and provides preventive protection against production downtimes. iwis' innovative CCM-S system uses sensors to measure the wear elongation of chains when they are in operation. This enables maintenance staff to identify at an early stage what measures need to be taken and when, and whether a chain needs to be re-tensioned or replaced. Plug and play makes CCM-S simple to install: The robust, IP67-rated module is simply fitted to the system and connected. It is then ready for use with no calibration needed. The CCM-S chain elongation monitoring system means that you can avoid long system and machine downtimes and costly interruptions in the logistics chain.

## Power supply chains for robots – high performance for greater protection

iwis flat top chains ensure the power supply to the 7th axis or travel axis of robots and wherever linear or flexible guidance of cables is required. The covering chain and guide enclose the cable duct and ensure that the power supply system is safely covered. In this way, the iwis flat top chain prevents the ingress of parts and ensures greater safety for staff in the vicinity. Thanks to their robustness and precision, flat top chains from iwis are the solution of choice wherever conventional systems can no longer cope with the high travel speeds required.



## Direct Hybrid Manufacturing – new technologies for even greater customization

Our direct hybrid manufacturing (DHM) allows us to offer you the best of two manufacturing technologies: We combine the advantages of conventional manufacturing technology with those of additive manufacturing. This opens up completely new design possibilities in custom and application-optimized shaping.

The DHM process involves applying metal powder to a standard bent attachment plate layer by layer until the desired shape is achieved. In this way, we can work with you to develop new link plate geometries, for example, and adapt them to your specific requirements. The part can then be reworked and coated, so quality and precision are not compromised. In addition, the DHM process also protects the environment: Hardly any waste material is produced in the powder bed, with over 97 % of the powder being reused.

## Have a word with us!

Do you have any questions? Or do you want to find out more about us? Then simply get in touch with our contact person Frank Grotjahn.

✉ [frank.grotjahn@iwis.com](mailto:frank.grotjahn@iwis.com)



Your specialist Frank Grotjahn



## A continuing success story: MEGALife premium maintenance-free chains

Our high-performance chains with maintenance-free and wear-resistant links are extremely long-lasting. We wanted to know exactly what the truth is. And so, in order to conduct an analysis, we removed four chains that had been in operation in the automotive industry for 30,000 hours – and had been transporting car doors in mesh boxes weighing up to 1,000 kg

at a chain speed of 0.5 m/s. And the result? Impressive! No fretting corrosion, hardly any noticeable wear, minimal chain elongation and only traces of impact wear.

Are you already familiar with the maintenance-free MEGALife conveyor chains? You can find the entire premium chain range with attachments, in our new flyer.

[www.iwis.com/downloads](http://www.iwis.com/downloads)



*A chain portfolio worthy of the name.*

  
30.000 h

  
1000 kg

  
0,5 m/s

## Chain solutions from iwis: Continuously in use

Even after more than ten years, our chains continue to run - and even then are far from getting out-of-use. Our chain solutions not only keep their promises in the test laboratory, but also function reliably and for a long time under real conditions. They have to, because stop-and-go operation brings with

it high demands. Chain solutions from iwis ensure problem-free positioning of the goods to be transported and prevent jerky start-up and stopping of the chain - even during continuous operation.



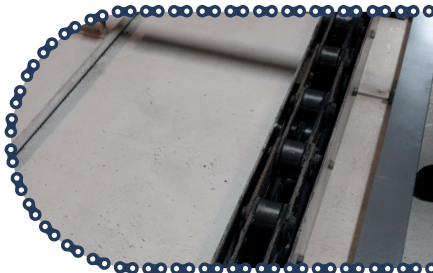
*Hollow pin chain:  
in operation for 12 years*



*Accumulation chain:  
in operation for 8 years*



*Multiflex chain:  
in operation for 6 years*



## Customer service: We are here to help you!



### ON-SITE CONSULTATION AND ASSESSMENT

- Complete chain appraisals and plant analysis
- Expert experience and recommendations
- Application-specific solutions



### TECHNICAL SUPPORT

- Chain drive configuration ([www.iwis.com/chain-calculation](http://www.iwis.com/chain-calculation))
- Endurance tests and benchmarking
- Fatigue strength, breaking strength and metallographic analyses
- 3D printing models
- Technical documentation



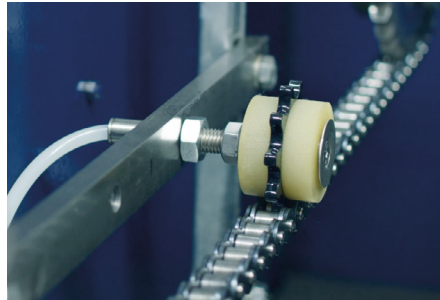
### TAILORED SOLUTIONS

- Wide variety of options for mounting attachments
- New design and optimization of attachments
- Customer-specific article labelling



### CONDITION MONITORING

Chain condition monitoring system (CCM-S) as a perfect preventive maintenance tool.



### LUBRICATION SYSTEM

Economical, clean and highly efficient: iwis' CLA minimum quantity lubrication system with special applicators.



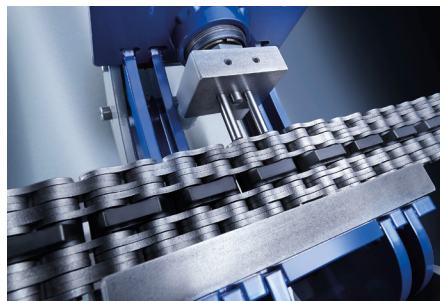
### ONLINE TOOLS

- CAD drawings
- Chain finder
- Chain configurator



### DRIVE COMPONENTS

- Sprockets
- Plate wheel
- Chain tensioners



### iwiTOOLS

- Chain breaking tools
- Chain pullers
- Pin extractors



### CUSTOMER SERVICE

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