



iwis solutions for the grain handling industry



Grain handling is an important application requiring high performance chains which are reliable, wear resistant and adaptable for reducing downtime. ELITE conveyor chains with customized mechanical and material characteristics stand for the **durability** and **reliability** these applications require.

Our ELITE product portfolio for grain handling includes strong carbon steel chains and our newly developed hygienic stainless steel chain solutions adapted for best corrosion and wear resistance performance – iwis guarantees long service life for special conveyor chains.

iwis industry solutions





ELITE® Custom solutions

Non-optimized conveyor chains can cause problems in grain handling operations. For example, flight attachments can collide with the metal frame and break off. Metal debris mixed with grains can cause serious problems during operation.

ELITE solution: "Bending" version

iwis chains have a smooth bending radius thanks to a special bending process for smooth surface without micro cracks in the radius of the flight attachments. In case of collisions, the flights only bend and do not cause further problems in the process. Additional special heat treatment provides a ductile core and hard surface which is optimized for bending and wear resistance.

iwis antriebssysteme – drive systems technology leader and your partner for every conveying solution!



Highlights

- High alloy steels for highest strength in harsh conditions
- Special hardened steels for optimized wear-resistant chain links
- Best solution for every application: Riveted pins for high strength or cottered pin solution for fast part replacement.
- Different dimensions of the flight attachments
- Flattened bushes prevent twisting in case of overload
- All chains also available as a stainless steel version as an option in corrosive environments
- Food grade initial lubrication available on request
- Individual technical support by iwis chain experts

iwis is renowned as a **development partner** and technology leader who can help you to meet the challenges you face. **State-of-the-art simulation and configuration tools** developed in-house help our design engineers to decide on the right products at an early stage.

Contact iwis

Please contact the iwis Customer Service Team for application support in your industry!

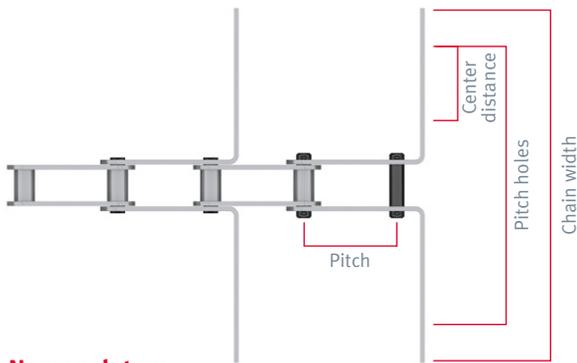
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**CUSTOMER
SERVICE TEAM**



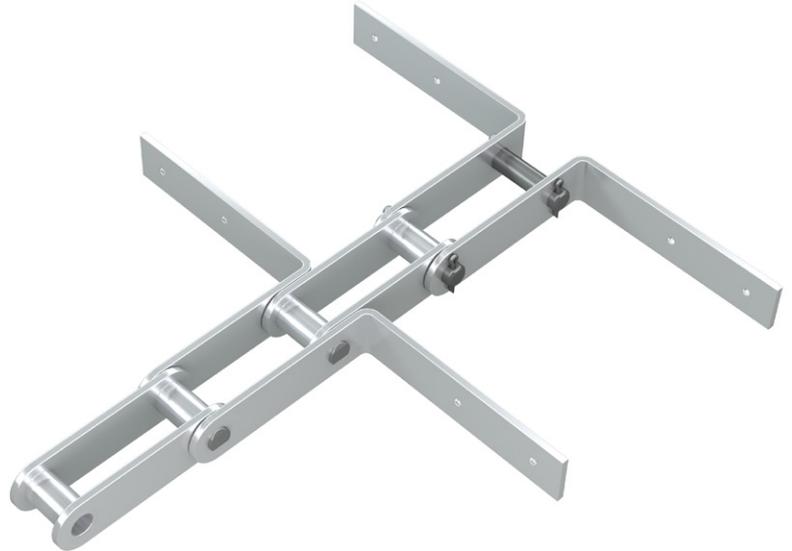
ELITE® Conveyor chains for grain handling

Chain type	Pitch		Width between inner plates	Pin Ø	Pin length	Bush Ø	Height inner plate	Plate thickness*	Attachment flights (Custom dimensions on request)			
	p mm								b1 min. mm	d2 max. mm	b4 max. mm	b7 max. mm
FV112	100	160	30	16	66	22	40	6	200	260	350	560
FV180	100	160	45	20	92	30	50	8	200	260	350	560
FV250	100	160	55	26	103,5	36	60	8	200	260	350	560



Nomenclature

Our precise nomenclature makes ordering easier for you. The detailed designation code helps you to find and order exactly the right chain for your application, quickly and without any trouble – **in writing, by phone** or via our **online request form**.



CC	FV	112	P100	W200	PH100	CD50	SS	Cot. Pin
Chain type	Pitch	Chain width (flights)	Pitch holes	Center distance	Material	Pin type		
[112] [180] [250]	in mm [P 100] [P 160]	in mm [W 200] [W 260] [W 350] [W 560] or custom	in mm	in mm	Stainless Steel or	Cottered pin or Riveted pin option		
					CS	Riv. Pin		
					Carbon Steel			



Chain advantage

iwis offers a wide range of conveyor chains suitable for different kinds of applications and products. Besides a broad range of standard chains, iwis offers many options for customizing each product. As well as the chain type and pitch, the dimensions of the attachment flights and optional holes are also essential.

In applications requiring high strength, chains pins can be riveted. For a quick and easy replacement of flights or chain segments, cottered pins can be used. Both options use flattened bushes to avoid torsion in case of overload.

Attachment advantage

A special flight bending process ensures optimized geometry of the radius, reducing stress in the material and ensuring a smooth, crack-free surface. This makes the flights more resistant against impacts and avoids breakage as the flights “bend”.

In addition to standard carbon steel, all variants are also available in stainless steel for highest resistance against aggressive media, e.g. in cattle fodder handling.

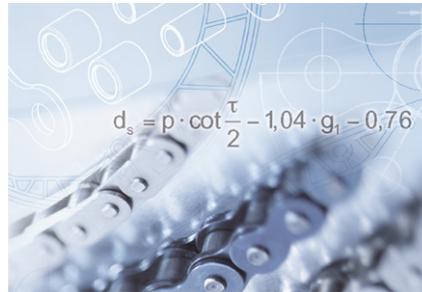


iwis Services: close to our customers



On-site advice & expert evaluation

- Full assessment of chain drives and analysis of plant machinery
- Advice and recommendations from experts
- Application-specific solutions



Technical support

- Calculation of chain drives (www.iwis.com/chain-design)
- Service life tests and benchmarking
- Fatigue strength, tensile strength and metallographic analyses
- 3D-printing models
- Technical documentation



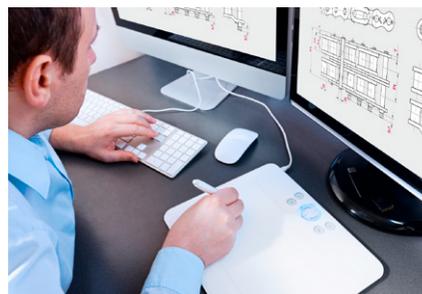
Individual solutions

- Wide range of attachment installation possibilities
- Redesign and optimization of attachments
- Customer-specific article inscriptions



Chain condition monitoring

Chain wear elongation monitoring system (CCM) as an ideal aid in preventive maintenance.



Online tools

- CAD drawings
- ChainFinder
- Chain Configurator



Online Shop – www.iwis.com/shop

At-a-glance product information and fast-track ordering for standard chain lengths.



Drive components

- Sprockets
- Idler wheels
- Chain tensioners



iwiTools

- Chain breaking tools
- Chain pullers
- Pin extractors



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wir bewegen die welt

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