iwis ketten
Joh. Winklhofer & Söhne GmbH & Co. KG
bewegen die welt

CR Chains

CORROSION RESISTANT CHAINS

iwis

gallon
INDUSTRIAL TECHNOLOGY

CR chains

Problem/Initial situation → IWIS solution

Chains in corrosive media have to possess high fatigue and wear resistance. Chains made of standard steels corrode quickly whilst stainless steels made of V2-A steel do not withstand these stresses. Nickel-plated or galvanised chains only offer limited corrosion-proofing because the coating is destroyed by abrasion.

IWIS high performance chains made of hardened high-alloy steels with good corrosion resistance and significantly higher strength than stainless steel chains.

Highlights

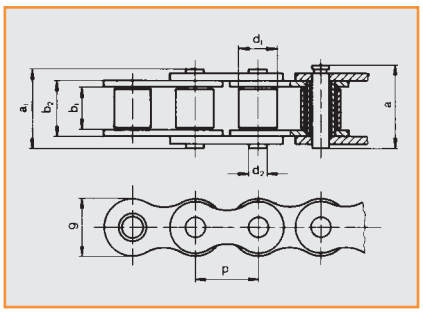
- Very high wear-resistance - comparable with IWIS standard chains
- Very good and long-lasting corrosion resistance - in comparison with surface-coated chains
- Significantly higher fatigue resistance and breaking strength figures than stainless steel chains - smaller dimensions possible

Technical features

	IWIS CR	IWIS Standard	Stainless Chain
All components	hardened	hardened	not hardened
pre-stretched	yes	yes	not normal
Fatigue strength	85 %	100 %	50 %
Wear resistance	95 %*	100 %	30 %
Resistance to chemicals	good*	low, good when surface-plated	very good

* Resistance to chemicals and wear-resistance of the IWIS CR chains can be improved via effective lubrication

IWIS chain Type	Dimensional designation	Dimensions acc. to DIN/ISO 8187	Outside width a_1 (mm)	Diameter a (mm)	Diameter d_1 (mm)	Diameter d_2 (mm)	Plate height	Breaking strength FB IWIS CR (N)	Bearing area f (cm^2)	Weight q (kg/m)
L 85 CR	08 B-1	$^1/_2$ x $^5/_{16}$"	16,9	18,5	8,51	4,45	12,2	16.000	0,50	0,70
M 106 CR	10 B-1	$^5/_8$ x $^3/_8$"	19,5	20,9	10,16	5,08	14,4	18.000	0,67	0,95
M 127 CR	12 B-1	$^3/_4$ x $^7/_{16}$"	22,7	23,6	12,07	5,72	16,4	22.000	0,89	1,25



Chain wheels

Depending on the circumstances, chain wheels can be used which are made of

- stainless material
- suitable plastics
- or steel, possibly with an electro-plated coating

Industrial uses/ Areas of application

- In food product processing
- In drinks manufacture
- In packaging machines
- In cheese and dairy technology
- In areas where there are moist or aggressive conditions
- In cleaning systems
- In (chemical) equipment construction

… and everywhere where chains have to remain articulated despite difficult conditions as a consequence of corrosion and may not rust on hygienic or visual grounds.

Rust- and acid-resistance of CR chains

Dependent on

- duration
- concentration
- temperature
- variations of the mixture

of the individual media. We recommend field trials to check fitness for the operational purpose.