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Product range

Precision chain systems for drive and conveyor purposes

www.iwis.com

Welcome

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You can reach our Customer Service Team on weekdays from 8 am to 6 pm non-stop.

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Or send your order by fax. For this purpose please use our enquiry form at the end of this catalogue.

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iwis

Joh. Winklhofer Beteiligungs GmbH & Co. KG

Company Headquarters, Parent of the independent subsidiary companies,
Management Organisation of the Internationally operating companies

iwis motorsysteme GmbH & Co. KG

Subsidiary for the automotive sector, for example chain drives and mass balance drives as well as oil pump drives and gear box chains

Munich (D)
Landsberg (D)
Tipton (UK)
Shanghai (CN)
São Paulo (BRA)
Seoul (KR)

iwis antriebssysteme GmbH & Co. KG

Subsidiary for the industrial sector, high precision chains and drive systems for a wide range of applications

Munich (D)
Strakonice (CZ)
Meyzieu (F)
Tipton (UK)
Othmarsingen (CH)
Indianapolis (USA)
Langley (CA)
São Paulo (BR)
Shanghai (CN)

iwis antriebssysteme GmbH

A distribution and service company within the chain drive industry

Wilnsdorf (D)
Meyzieu (F)
Tipton (UK)
Indianapolis (USA)
Othmarsingen (CH)
Langley (CA)
São Paulo (BR)
Shanghai (CN)

iwis agrisystems (Div.)

Competence centre for the iwis agricultural chain program for combines and maize harvesting

Sontra (D)
Meyzieu (F)
Tipton (UK)
Indianapolis (USA)
Othmarsingen (CH)
Langley (CA)
São Paulo (BR)
Shanghai (CN)

90 years iwis

A company which has developed over 90 years has a story. The entrepreneurial family Winklhofer has been managing the fate of the company iwis since decades and has developed it into a group of companies which committed itself to tradition, precision and innovation. This group of companies produces high precision roller chains and systems for the automotive industry, the machine and plant manufacture, the packaging, printing and food industries, the agriculture and for industrial applications in the field of conveyor technology. More than 1000 employees at the production sites of Munich, Landsberg am Lech, Wilnsdorf, Sontra and Strakonice (CZ) have committed themselves to a quality standard on the highest level.

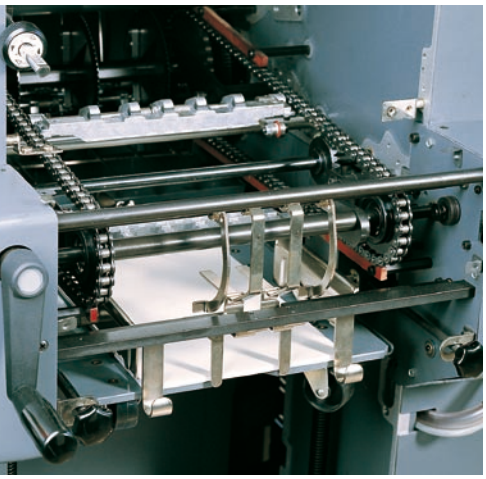
Our consequent customer orientation in all areas lead to a close cooperation with our customers and suppliers as well as to joint technical developments – as our goal is to always offer our customers a solution at the highest quality and sustainability level. Research and development play a major role in our company's philosophy:
The detection of new trends and the development of new materials and production technologies require an innovative power and motivation of which we are proud of and which explain our top position in the market. Thus iwis antriebssysteme GmbH & Co. KG is a worldwide driving force in the general machine manufacture and delivers precision chain systems which move all around the world.

A brand which stands for highest precision.

Technical perfection of highest quality for a maximum customer benefit – that is our high standard. 100% exact replication of more than 30 million spare parts every single day – a quality benchmark which a single expression stands for at iwis: Highest precision. We are proud of that fact and numerous certifications and awards in the quality sector shows us that we follow the right path!

GERMANY

Precision for your success



Technical perfection

- Use of high quality quenched, tempered and case-hardened steels
- High precision fabrication via SPC (statistical process control)
- Quality assurance complying with ISO 9001
- Optimisation of quality features via special heat treatment
- Constant monitoring of the chains for dimensional accuracy and articulation
- Surface coatings
- Special lubricants
- Special materials (i.e. corrosion-proof)

Highest possible quality

- Above average length of life
- Excellent wear resistance
- Restricted length tolerances down to 1/6 of the DIN tolerance
- Significantly higher fracture-resistance than the norm
- High fatigue strength
- All iwis chains are pretensioned
- Extremely efficient initial lubrication

Benefits to the user

- Longer maintenance intervals
- Maintenance-friendly, easy and quick to dismantle
- Fewer down times
- Benefits of parallel and synchronous running
- Extremely precise positioning
- Extremely quiet running
- Safety reserves at load peaks
- Reduced stretching during running-in

Application fields

- Printing presses
- Paper manufacturing and processing machines
- Copiers
- Ceramics and glass industry
- Packaging machines
- Medical technology
- Textile machines
- Machine tools
- Machines for processing plastics
- General engineering and systems construction
- Woodworking machinery
- Agricultural machinery
- Office equipment
- Building materials industry
- Construction machinery
- Conveyor technology
- Chemical engineering and process technology
- Tube and can industry

Your perfect engineering partner

A scientific based company

iwis has the largest chain Research and Development department in Europe, having more than 60 development engineers soley engaged for the engineering of chain drive systems. Besides basic development and designing innovative customer solutions, the main focus of iwis Research and Development division ranges from calculations, design and testing to wear elongation and fatigue strength analysis.

- Special knowledge of noise emission analysis and vibration engineering
- Our laboratory has the capabilities to carry out many different testing possibilities including microscopy, metallography, evaluation of mechanical properties, chemical composition and qualified analysis of data
- Dynamic simulation/analysis of chain drive systems with regard to chain load, torsional vibrations and friction losses
- FEM analysis of individual chain drive parts – static and dynamic stress and strength investigations
- Evaluation of iwis and customer readings at test facilites for verification of simulation models
- Identification of thermal characterstics of chain drives while testing in the climate-testing laboratory.

Evaluation of chain breaking strength and elongation up to 1000kN

More than 15 pulser are avaibale for testing dynamic fatigue strength according to different testing methods

Testing of chain wear elongation behaviour on more than 20 testig rigs

Each customer problem is a challenge for us. Either you need a special conveyor chain or perhaps an own chain configuration, integrating chain wheels and guides in existing modules:

Troubleshooting

As a system manufacturer our specialists offer you individual solutions, which go far beyond the chain focus on the entire application and answer your problem as a whole. Our research and development department stands for creativity and innovation, as well as for a cooperation hand in hand with our customers. Do not hesitate to contact us in case you have a special problem.

Extreme flexibility

Offering solutions for individual customer problems as well, is our speciality and part of our company's philosophy. By conducting feasibility studies hand in hand with our customers, producing components and executing deformation and stress tests we are able to adjust existing products to individual customer requirements or to develop new chain drives. By means of vibration and stress tests of the components the physical properties of the chain are examined. We try the prototypes on test stands which expose the chain drives to extreme conditions and pressure to ensure its durability and life time. Our customers can and have to be sure that they receive a high quality product – that is our requirement.

iwis - your strong partner

The iwis group goes global. By supporting own affiliated companies in Great Britain and Switzerland as well as sites in Brazil, China, France and the USA the iwis group operates internationally. iwis products are being sold by distribution partners in more than 30 countries on all continents.

outside Germany as well

iwis has realised the chances of the globalisation at an early stage and has established a distribution structure by a targeted positioning which guarantees a worldwide supply. Thus we do not only open up new markets but our customers can appeal to a familiar and reliable local partner with regard to their business activities abroad.

You are important to us and therefore we are happy to support you in word and deed. Let our competent specialists of our technical service team and our committed external force advise you. We would like to do calculations and chain designs for you and give you advice as far as your choice of the right chain for your applications is concerned. You can reach our Customer Service Team at any time on weekdays from 8 am to 6 pm. And by the way: We are happy to service you during the operating time of the chain as a reliable partner in all matters that arise right around the iwis chain.

Our service for our customers

iwis® Roller chains

are characterised by an above-average service life due to excellent wear resistance, high consistency, matchless precision and a considerably higher breaking strength and fatigue strength than required by DIN/ISO standard. All iwis chains are pre-stretched and are provided with a highly efficient initial lubrication.

iwis SL series chains (Super Longlife) have pins with an extremely hard surface. This special design shows outstanding characteristics: Highest wear resistance, a prolonged service life, high breaking and fatigue strength, low susceptibility to deficient operational lubrication, corrosion and frictional corrosion in the chain links.

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iwis® Roller chains

according to DIN 8187-1, ISO 606: 2004 and iwis standard

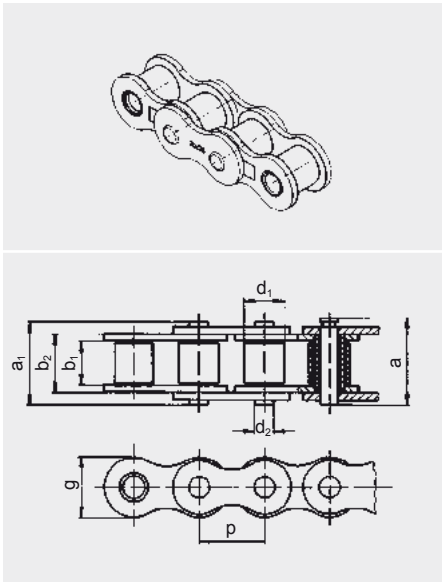
DIN ISO no.	Ref. no. iwis	Pitch p (")	Pitch p (mm)	Breaking load F_B iwis (N) ave.	Breaking load F_B Norm (N) min.	Bearing area f (cm²)	Weight per m q (kg/m)	Chain components and connecting links Nos.	Inner link b_1 (mm) min.	Inner link b_2 (mm) max.	Inner link g (mm) max.	Outer link a_1 (mm) max. [2]	Outer link a (mm) max. [2]	Roller d_1 (mm) max.	Pin d_2 (mm) max.
Simplex															
04	G 42	6 x 2,8 mm	6,00	3.200	3.000	0,07	0,12	2, 3, 7, 8	2,80	4,10	5,00	6,70	7,60	4,00	1,85
05 B-1	G 52	8 mm x 1/8"	8,00	6.000	5.000	0,11	0,18	2, 3, 7, 8	3,16	4,85	7,10	8,10	9,20	5,00	2,31
–	G 53 HZ [1] [3]	8 mm x 3/16"	8,00	8.500	–	0,25	0,34	2, 8	4,76	7,90	7,60	11,70	–	5,00	3,15
–	G 62 1/2 [1]	3/8 x 5/32"	9,525	11.000	–	0,22	0,34	2, 3, 7, 8	3,94	6,63	8,20	11,00	12,20	6,35	3,31
06 B-1	G 67 [1]	3/8 x 7/32"	9,525	10.500	9.000	0,28	0,41	2, 3, 6, 7, 8	5,72	8,53	8,20	12,90	14,10	6,35	3,31
–	P 83 V	1/2 x 3/16"	12,70	15.500	–	0,29	0,44	2, 3, 6, 7, 8	4,88	7,97	10,20	13,20	14,10	7,75	3,68
–	S 84 V	1/2 x 1/4"	12,70	18.000	–	0,38	0,58	2, 3, 6, 7, 8	6,40	9,65	12,00	15,00	16,00	7,75	3,97
08 B-1	L 85 SL*	1/2 x 5/16"	12,70	22.000	18.000	0,50	0,70	2, 3, 6, 7, 8	7,75	11,30	11,80	16,90	18,50	8,51	4,45
10 B-1	M 106 SL*	5/8 x 3/8"	15,875	27.000	22.400	0,67	0,95	2, 3, 6, 7, 8	9,65	13,28	14,40	19,50	20,90	10,16	5,08
12 B-1	M 127 SL*	3/4 x 7/16"	19,05	34.000	29.000	0,89	1,25	2, 3, 4, 6, 7, 8	11,75	15,62	16,40	22,70	23,60	12,07	5,72
16 B-1	M 1611*	1" x 17mm	25,40	75.000	60.000	2,10	2,70	2, 3, 6, 7, 8	17,02	25,45	21,10	36,10	36,90	15,88	8,28
20 B-1	M 2012	1 1/4 x 3/4"	31,75	120.000	95.000	2,92	3,72	2, 4, 6, 8	19,56	29,01	25,40	40,50	46,30	19,05	10,19
24 B-1	M 2416	1 1/2 x 1"	38,10	211.000	160.000	5,50	7,05	2, 4, 6, 8	25,40	37,92	33,50	53,10	60,00	25,40	14,63
28 B-1	M 2819	1 3/4 x 31mm	44,45	250.000	200.000	7,35	8,96	2, 4, 6, 8	30,95	46,58	37,00	63,60	69,90	27,94	15,90
32 B-1	M 3219	2" x 31mm	50,80	315.000	250.000	8,05	10,00	2, 4, 6, 8	30,95	45,57	42,30	65,10	70,10	29,21	17,81

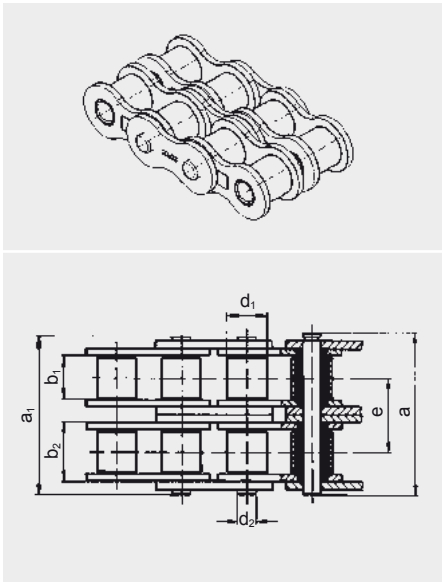
[1] Also available with straight side plates [2] Varying dimensions for cranked links [3] Bush chain

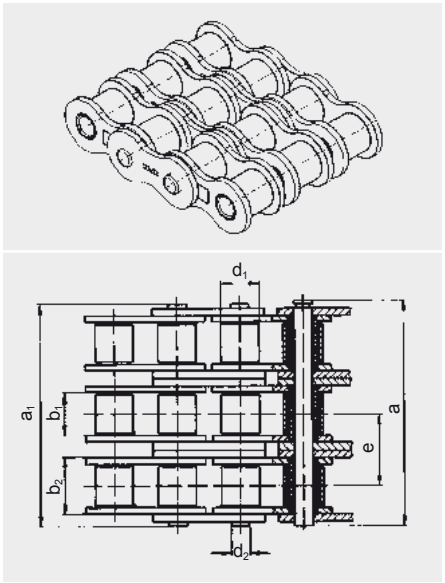
* easy break – chains with shouldered pins

The suffix SL indicates chains with particularly wear-resistant pins.

It should be noted that if cranked links are fitted, the breaking strength of the chain may be reduced by approximately 20%.







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iwis® Roller chains

according to DIN 8187-1, ISO 606: 2004 and iwis standard

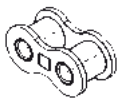
DIN ISO no.	Ref. no. iwis	Pitch p (")	Pitch p (mm)	Breaking load F_B iwis (N) ave.	Breaking load F_B Norm (N) min.	Bearing area f (cm²)	Weight per m q (kg/m)	Chain components and connecting links Nos.	Inner link b_1 (mm) min.	Inner link b_2 (mm) max.	Inner link g (mm) max.	Outer link a_1 (mm) max. 2)	Outer link a (mm) max. 2)	Roller d₁ (mm) max.	Pin d_2 (mm) max.	Transverse pitch e (mm)
Duplex																
05 B-2	D 52	8"	8,00	9.100	7.800	0,22	0,36	2, 3, 8	3,16	4,85	7,10	13,90	15,00	5,00	2,31	5,64
06 B-2	D 67 1) *	3/8"	9,525	20.000	16.900	0,56	0,78	2, 3, 6, 7, 8	5,72	8,53	8,20	23,40	24,60	6,35	3,31	10,24
08 B-2	D 85 SL*	1/2"	12,70	40.000	32.000	1,00	1,35	2, 3, 6, 7, 8	7,75	11,30	12,20	30,80	32,40	8,51	4,45	13,92
10 B-2	D 106 SL*	5/8"	15,875	56.000	44.500	1,34	1,85	2, 3, 6, 7, 8	9,65	13,28	14,40	36,00	37,50	10,16	5,08	16,59
12 B-2	D 127*	3/4"	19,05	68.000	57.800	1,78	2,50	2, 3, 6, 7, 8	11,75	15,62	16,40	42,10	43,00	12,07	5,72	19,46
16 B-2	D 1611*	1"	25,40	150.000	106.000	4,21	5,40	2, 3, 6, 7, 8	17,02	25,45	21,10	68,00	68,80	15,88	8,28	31,88
20 B-2	D 2012	1 1/4"	31,75	210.000	170.000	5,84	7,36	2, 4, 6, 8	19,56	29,01	25,40	79,70	82,90	19,05	10,19	36,45
24 B-2	D 2416	1 1/2"	38,10	370.000	280.000	11,00	13,85	2, 4, 6, 8	25,40	37,92	33,50	101,80	106,50	25,40	14,63	48,36
28 B-2	D 2819	1 3/4"	44,45	500.000	360.000	14,70	18,80	2, 4, 6, 8	30,95	46,58	37,00	124,70	129,20	27,94	15,90	59,56
32 B-2	D 3219	2"	50,80	530.000	450.000	16,10	19,80	2, 4, 6, 8	30,95	45,57	42,30	126,00	128,30	29,21	17,81	58,55
Triplex																
08 B-3	Tr 85*	1/2"	12,70	58.000	47.500	1,50	2,00	2, 3, 7, 8	7,75	11,30	12,20	44,70	46,30	8,51	4,45	13,92
10 B-3	Tr 106*	5/8"	15,875	80.000	66.700	2,02	2,80	2, 3, 7, 8	9,65	13,28	14,40	52,50	54,00	10,16	5,08	16,59
12 B-3	Tr 127*	3/4"	19,05	100.000	86.700	2,68	3,80	2, 3, 7, 8	11,75	15,62	16,40	61,50	62,50	12,07	5,72	19,46
16 B-3	Tr 1611*	1"	25,40	220.000	160.000	6,32	8,00	2, 3, 6, 7, 8	17,02	25,45	21,10	99,20	100,70	15,88	8,28	31,88
20 B-3	Tr 2012	1 1/4"	31,75	315.000	250.000	8,76	11,00	2, 4, 6, 8	19,56	29,01	25,40	116,10	119,40	19,05	10,19	36,45
24 B-3	Tr 2416	1 1/2"	38,10	560.000	425.000	16,50	20,31	2, 4, 6, 8	25,40	37,92	33,50	150,20	155,40	25,40	14,63	48,36
28 B-3	Tr 2819	1 3/4"	44,45	750.000	530.000	22,05	28,00	2, 4, 6, 8	30,95	46,58	37,00	184,60	188,90	27,94	15,90	59,56
32 B-3	Tr 3219	2"	50,80	795.000	670.000	24,15	29,60	2, 4, 6, 8	30,95	45,57	42,30	184,50	186,50	29,21	17,81	58,55

1) Straight side plate 2) Varying dimensions for cranked links

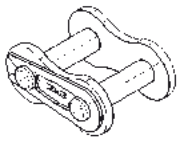
The suffix SL indicates chains with particularly wear-resistant pins.

It should be noted that if cranked links are fitted, the breaking strength of the chain may be reduced by approximately 20%.

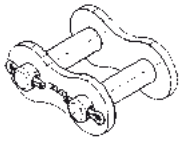
CHAIN COMPONENTS AND CONNECTING LINKS



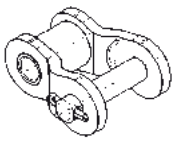
Nr. 2 Inner links
Standard designation B



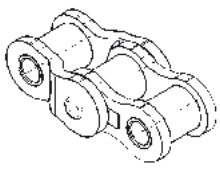
Nr. 3 Connecting link
with spring clip
Standard designation E



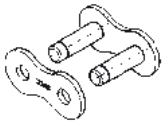
Nr. 4 Connecting link
with split pin fasting
Standard designation S



Nr. 6 Single cranked link
with split pin fastening
Standard designation L



Nr. 7 Double cranked links
Standard designation C



Nr. 8 Outer link
Standard designation A

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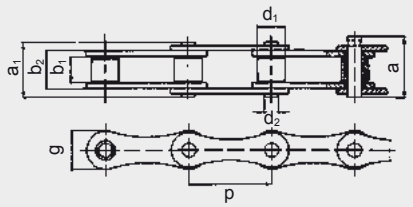
iwis® Roller chains
according to DIN 8188-1, American standard, ISO 606: 2004

DIN ISO no.	Ref. no. iwis	ANSI Ref. no.	Pitch p (")	Pitch p (mm)	Breaking load F_B iwis (N) ave.	Breaking load F_B Norm (N) min.	Bearing area f (cm^2)	Weight per m q (kg/m)	Chain components and connecting links Nos.	Inner link b_1 (mm) min.	Inner link b_2 (mm) max.	Inner link g (mm) max.	Outer link a_1 (mm) max. 2)	Outer link a (mm) max. 2)	Roller d_1 (mm) max.	Pin d_2 (mm) max.	Transverse pitch e (mm)
Simplex																	
08 A-1	L 85 A	ANSI 40	1/2"	12,70	18.000	14.100	0,44	0,60	2, 3, 6, 7, 8	7,94	11,15	12,00	16,60	17,50	7,95	3,96	–
10 A-1	M 106 A	ANSI 50	5/8"	15,875	29.000	22.200	0,70	1,00	2, 3, 6, 7, 8	9,53	13,84	14,40	20,40	21,70	10,16	5,08	–
12 A-1	M 128 A SL 1)	ANSI 60	3/4"	19,05	42.000	31.800	1,06	1,47	2, 3, 4, 6, 7, 8	12,70	17,75	18,00	25,30	26,70	11,91	5,96	–
16 A-1	M 1610 A	ANSI 80	1"	25,40	68.000	56.700	1,79	2,57	2, 3, 4, 6, 7, 8	15,88	22,60	22,80	32,10	34,00	15,88	7,92	–
Duplex																	
08 A-2	D 85 A	ANSI 40-2	1/2"	12,70	36.000	28.200	0,88	1,19	2, 3, 4, 6, 7, 8	7,94	11,15	12,00	31,00	31,90	7,95	3,96	14,38
10 A-2	D 106 A	ANSI 50-2	5/8"	15,875	56.000	44.400	1,40	1,92	2, 3, 6, 7, 8	9,53	13,84	14,40	38,60	39,90	10,16	5,08	18,11
12 A-2	D 128 A 1)	ANSI 60-2	3/4"	19,05	84.000	63.600	2,12	2,90	2, 3, 4, 6, 7, 8	12,70	17,75	18,00	48,10	49,50	11,91	5,96	22,78
16 A-2	D 1610 A	ANSI 80-2	1"	25,40	145.000	113.400	3,58	5,01	2, 3, 4, 6, 7, 8	15,88	22,60	22,80	61,40	63,30	15,88	7,92	29,29
Triplex																	
08 A-3	Tr 85 A	ANSI 40-3	1/2"	12,70	50.000	42.300	1,32	1,78	2, 3, 6, 7, 8	7,94	11,15	12,00	45,40	46,30	7,95	3,96	14,38
10 A-3	Tr 106 A	ANSI 50-3	5/8"	15,875	80.000	66.600	2,10	2,89	2, 3, 6, 7, 8	9,53	13,84	14,40	56,70	58,00	10,16	5,08	18,11
12 A-3	Tr 128 A	ANSI 60-3	3/4"	19,05	125.000	95.400	3,18	4,28	2, 3, 4, 6, 7, 8	12,70	17,75	18,00	71,00	72,30	11,91	5,96	22,78
16 A-3	Tr 1610 A	ANSI 80-3	1"	25,40	210.000	170.100	5,37	7,47	2, 3, 4, 6, 7, 8	15,88	22,60	22,80	90,70	92,70	15,88	7,92	29,29

iwis® Roller chains, double-pitch type
according to DIN 8181 and ISO 1275:1995

208 B	LR 165 SL	-	1"	25,40	22.000	18.000	0,50	0,52	2, 4, 6, 8	7,75	11,30	11,80	16,90	18,60	8,51	4,45	–
210 B	LR 206 SL	-	1 1/4"	31,75	28.000	22.400	0,67	0,63	2, 4, 6, 8	9,65	13,28	15,10	19,50	20,80	10,16	5,08	–
212 B	LR 247 SL	-	1 1/2"	38,10	34.000	29.000	0,89	0,85	2, 4, 6, 8	11,75	15,62	16,10	22,70	24,10	12,07	5,72	–
216 B	LR 3211	-	2"	50,80	75.000	60.000	2,10	2,10	2, 4, 6, 8	17,02	25,45	20,60	36,10	38,10	15,88	8,28	–

Roller Chains, double-pitch type



1) Also available with straight side plates 2) Varying dimensions for cranked links

It should be noted that if cranked links are fitted, the breaking strength of the chain may be reduced by approximately 20%.

The suffix SL indicates chains with particularly wear-resistant pins.

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iwis® High performance chains

Quality products with a world reputation

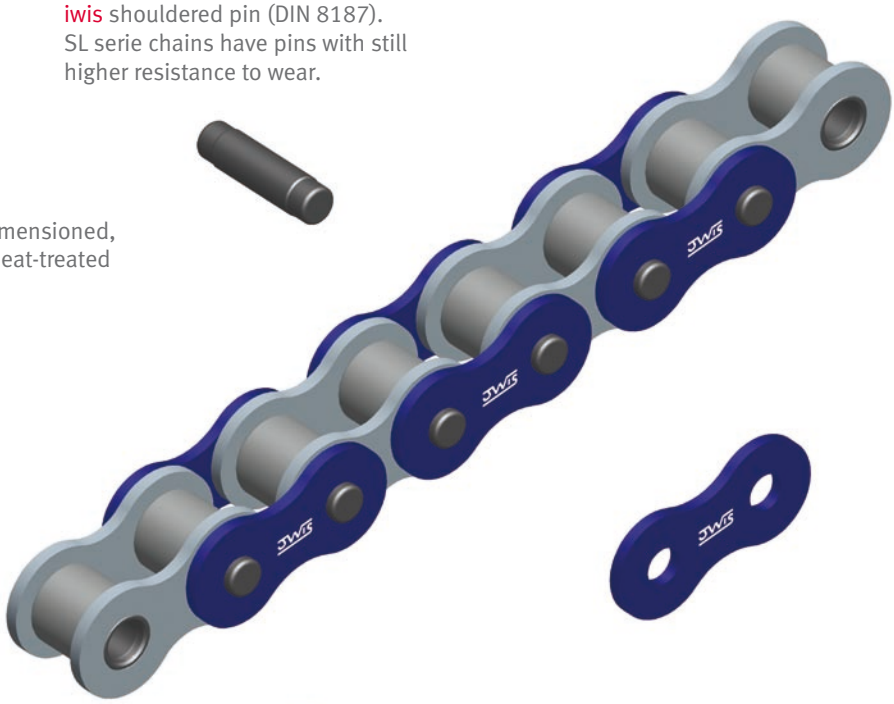
HIGH QUALITY IS BASED ON EACH INDIVIDUAL PART BEING TECHNICALLY PERFECT

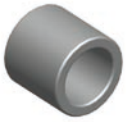
- Use of high-grade heat-treatable steels which are made exclusively for iwis to their material analysis, tolerance and surface quality.
- Each chain part is manufactured a million times daily to the same precision. This production is monitored by SPC (statistical process control).
- All chain parts are heat-treated, using special processes to optimize quality features.
- Constant geometry and high surface quality result from the use of modern production technologies.
- Chains are checked for dimensional accuracy: length tolerance, freedom of articulation and assembly component integrity, inspection of the press-in seating of the pin outer links and bush-inner link interfaces.
- The high standard of quality assurance conforms with the high requirements of ISO 9001: 2006.
- For special applications
  - Surface coatings
  - Special lubrications
  - Reduced length toleranced chains
  - Special materials (e.g. corrosion resistant)

iwis bush - manufactured as a special, surface treated cylinder and depending on the application seamless or curled

iwis shouldered pin (DIN 8187).
SL serie chains have pins with still higher resistance to wear.

iwis side plate – optimally dimensioned, shaped with precision, and heat-treated for toughness and hardness.





iwis roller – an absolutely cylindrical form guarantees ideal sliding-contact bearing properties.

Conveyor chains

iwis conveyor chains can especially be matched with the demands of customer applications. iwis does not only supply the customer with a wide range of special straight attachments and bent attachment plates, but the Technical Service Team offers solutions for individual customer demands and designs custom-made products.

iwis conveyor chains offer the user the benefits of parallel and synchronous running, extremely precise positioning, quiet running and a significantly higher breaking resistance than the norm. Also available: conveyor chains with extended bearing pins, conveyor chains with U-shaped attachments and multiple strand connecting links.

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iwis® Conveyor chains with straight attachment plates

for fitting to iwis chains DIN 8187, 8188 and 8181

DIN ISO no.	Ref. no. iwis	Pitch [2] p (")	p (mm)	a (mm)	b (mm)	d (mm)	Single strand chains e_1 (mm)	Double strand chains e_2 (mm)	Triple strand chains e_3 (mm)	g (mm)	i (mm)	l (mm)	s (mm)	Threaded insert M (mm)	m. max (mm)
Plate No. 102.1															
-	P 83 V	1/2"	12,7	13,0	19,0	4,2	8,1	–	–	4,5	–	18,0	1,5	–	–
-	S 84 V	1/2"	12,7	13,0	19,0	4,2	9,8	–	–	4,5	–	18,0	1,5	–	–
08 B-1	L 85 SL [1]	1/2"	12,7	13,0	19,0	4,2	11,6	25,5	39,4	5,4	–	18,0	1,5	4	5,2
10 B-1	M 106 SL [1]	5/8"	15,875	16,3	24,3	5,2	13,6	30,1	46,6	6,8	–	24,0	1,6	5	5,3
12 B-1	M 127 SL [1]	3/4"	19,05	19,1	29,1	6,2	15,9	35,3	54,7	7,4	–	28,0	1,8	5	5,5
16 B-1	M 1611 [1]	1"	25,4	24,6	36,6	8,2	25,9	57,8	89,7	10,4	–	36,2	3,0	6	8,2
08 A-1 ANSI 40	L 85 A [1]	1/2"	12,7	13,0	19,0	4,2	11,4	25,8	40,2	4,5	–	18,0	1,5	–	–
10 A-1 ANSI 50	M 106 A [1]	5/8"	15,875	16,3	24,3	5,2	14,1	32,3	50,4	6,8	–	24,0	1,6	–	–
12 A-1 ANSI 60	M 128 A SL [1]	3/4"	19,05	19,1	29,1	6,2	18,1	40,8	63,6	7,4	–	28,0	2,4	–	–
16 A-1 ANSI 80	M 1610 A [1]	1"	25,4	24,6	36,6	8,2	23,0	52,2	81,5	10,4	–	36,2	3,0	–	–
Plate No. 103.1 and 103.2															
-	P 83 V [2]	1/2"	12,7	17,0	23,0	4,2	8,1	–	–	4,5	12,7	23,6	1,5	–	–
-	S 84 V	1/2"	12,7	17,0	23,0	4,2	9,8	–	–	4,5	12,7	23,6	1,5	–	–
08 B-1	L 85 SL [1]	1/2"	12,7	17,0	23,0	4,2	11,6	25,5	39,4	5,4	12,7	23,6	1,5	4	5,2
10 B-1	M 106 SL [1]	5/8"	15,875	16,3	25,8	5,2	13,6	30,1	46,6	7,5	15,8	31,0	1,6	5	5,3
12 B-1	M 127 SL [1]	3/4"	19,05	18,3	29,0	6,2	15,9	35,3	54,7	9,0	19,0	37,2	1,8	5	5,5
16 B-1	M 1611 [1]	1"	25,4	28,45	41,55	8,2	25,9	57,8	89,7	10,35	25,4	47,2	3,0	6	8,2
08 A-1 ANSI 40	L 85 A [1]	1/2"	12,7	17,0	23,0	4,2	11,4	25,8	40,2	4,5	12,7	23,6	1,5	–	–
10 A-1 ANSI 50	M 106 A [1]	5/8"	15,875	16,3	25,8	5,2	14,1	32,3	50,4	7,5	15,8	31,0	1,6	–	–
12 A-1 ANSI 60	M 128 A SL [1]	3/4"	19,05	18,3	29,0	6,2	18,1	40,8	63,6	9,0	19,0	37,2	2,4	–	–
16 A-1 ANSI 80	M 1610 A [1]	1"	25,4	28,45	41,55	8,2	23,0	52,2	81,5	10,35	25,4	47,2	3,0	–	–
Plate No. 101.1 and 101.2															
208 B	LR 165 SL	1"	25,4	14,3	20,5	4,2	11,6	–	–	6,5	14,0	24,2	1,5	–	–
210 B	LR 206 SL	1 1/4"	31,75	16,3	25,8	5,2	13,8	–	–	7,5	18,0	30,2	1,6	–	–
212 B	LR 247 S	1 1/2"	38,1	19,2	29,5	6,2	15,9	–	–	9,0	20,0	36,2	1,7	–	–
216 B	LR 3211	2"	50,8	28,5	40,6	8,2	25,9	–	–	10,2	28,0	48,2	3,0	–	–

[1] Available for both double and triple strand chains [2] Nominal pitch

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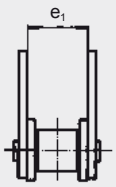
iwis® Conveyor chains with straight attachment plates

for fitting to iwis chains DIN 8187, 8188 and 8181

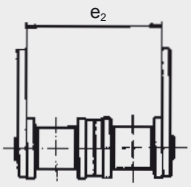
STRAIGHT ATTACHMENT PLATES

The designs shown below can be supplied as connecting links, or outer links for end fitting or repair. Further threaded inserts can also be supplied. Details on request.

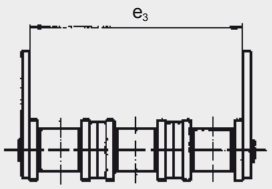
Single



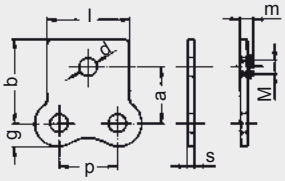
Double



Triple

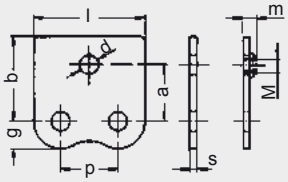


102.1

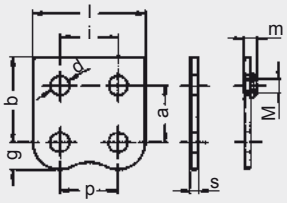


102.31 with threaded insert

103.1

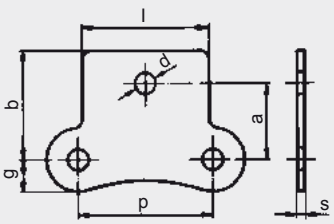


103.2

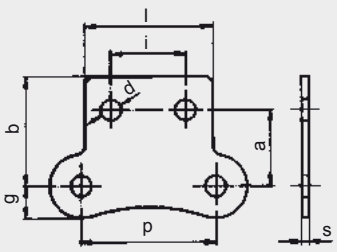


103.32 with threaded insert

101.1 for double-pitch chains



101.2 for double-pitch chains



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iwis® Conveyor chains with bent attachment plates

for fitting to iwis chains DIN 8187, 8188 and 8181

DIN ISO no.	Ref. no. iwis	Pitch p (Zoll)	Pitch p (mm)	c (mm)	d (mm)	Single chains e_1 (mm)	Single chains f_1 (mm)	Double chains e_2 (mm)	Double chains f_2 (mm)	Triple chains e_3 (mm)	Triple chains f_3 (mm)	g (mm)	h (mm)	i (mm)	l (mm)	s (mm)	Threaded insert M (mm)	Threaded insert m max. (mm)
Form 202.1																		
-	P 83 V	1/2“	12,7	8,0	4,2	24,1	36,1	–	–	–	–	4,5	14,0	–	18,1	1,5	–	–
-	S 84 V	1/2“	12,7	8,0	4,2	25,8	37,8	–	–	–	–	4,5	14,0	–	18,1	1,5	–	–
08 B-1	L 85 SL [1]	1/2“	12,7	8,0	4,2	27,6	39,6	41,5	53,5	55,4	67,4	5,4	14,0	–	18,1	1,5	4	5,2
10 B-1	M 106 SL [1]	5/8“	15,875	9,0	5,2	33,6	49,6	50,1	66,1	66,6	82,6	6,8	18,0	–	24,0	1,6	5	5,3
12 B-1	M 127 SL [1]	3/4“	19,05	10,0	6,2	41,1	61,1	60,5	80,5	79,9	99,9	7,4	22,6	–	28,0	1,8	5	5,5
16 B-1	M 1611 [1] [2]	1“	25,4	16,0	8,2	53,9	77,9	85,8	109,8	117,7	141,7	10,4	26,0	–	36,2	3,0	6	8,2
08 A-1 ANSI 40	L 85 A [1]	1/2“	12,7	8,0	4,2	27,4	39,4	41,8	53,8	56,2	68,2	4,5	14,0	–	18,1	1,5	–	–
10 A-1 ANSI 50	M 106 A [1]	5/8“	15,875	9,0	5,2	34,1	50,1	52,3	68,3	70,4	86,4	6,8	18,0	–	24,0	1,6	–	–
12 A-1 ANSI 60	M 128 A SL [1]	3/4“	19,05	13,0	6,2	38,9	58,9	61,6	81,6	84,4	104,4	7,4	20,4	–	28,0	2,4	–	–
16 A-1 ANSI 80	M 1610 A [1] [2]	1“	25,4	16,0	8,2	51,0	75,0	80,2	104,2	109,5	133,5	10,4	26,0	–	36,2	3,0	–	–
Form 203.1 and 203.2																		
-	P 83 V [2]	1/2“	12,7	9,5	4,2	29,1	41,1	–	–	–	–	4,5	16,5	12,7	23,6	1,5	–	–
-	S 84 V [2]	1/2“	12,7	9,5	4,2	30,8	42,8	–	–	–	–	4,5	16,5	12,7	23,6	1,5	–	–
08 B-1	L 85 SL [1] [2]	1/2“	12,7	9,5	4,2	32,6	44,6	46,5	58,5	60,4	72,4	5,4	16,5	12,7	23,6	1,5	4	5,2
10 B-1	M 106 SL [1] [2]	5/8“	15,875	11,0	5,2	30,6	49,6	47,1	66,1	63,6	82,6	7,5	18,0	15,8	31,0	1,6	5	5,3
12 B-1	M 127 SL [1] [2]	3/4“	19,05	12,0	6,2	35,5	56,9	54,9	76,3	74,3	95,7	9,0	20,5	19,0	37,2	1,8	5	5,5
16 B-1	M 1611 [1] [2]	1“	25,4	18,0	8,2	57,7	83,9	89,6	115,8	121,5	147,8	10,4	29,0	25,4	47,2	3,0	6	8,2
08 A-1 ANSI 40	L 85 A [1] [2]	1/2“	12,7	9,5	4,2	32,4	44,4	46,8	58,8	61,2	73,2	4,5	16,5	12,7	23,6	1,5	–	–
10 A-1 ANSI 50	M 106 A [1] [2]	5/8“	15,875	11,0	5,2	31,1	50,1	49,3	68,3	67,3	86,4	7,5	18,0	15,8	31,0	1,6	–	–
12 A-1 ANSI 60	M 128 A SL [1] [2]	3/4“	19,05	13,0	6,2	37,3	58,7	60,0	81,4	82,8	104,2	9,0	20,3	19,0	37,2	2,4	–	–
16 A-1 ANSI 80	M 1610 A [1] [2]	1“	25,4	18,0	8,2	54,8	81,0	84,0	110,2	113,3	139,5	10,4	29,0	25,4	47,2	3,0	–	–
Form 201.1 and 201.2																		
208 B	LR 165 SL [2]	1“	25,4	10,0	4,2	26,2	38,6	–	–	–	–	6,5	13,5	14,0	24,2	1,5	–	–
210 B	LR 206 SL [2]	1 1/4“	31,75	11,0	5,2	30,6	49,6	–	–	–	–	7,5	18,0	18,0	30,2	1,6	–	–
212 B	LR 247 SL [2]	1 1/2“	38,1	13,0	6,2	34,9	55,5	–	–	–	–	9,0	19,8	20,0	36,2	1,7	–	–
216 B	LR 3211 [2]	2“	50,8	18,0	8,2	57,7	81,9	–	–	–	–	10,2	28,0	28,0	48,2	3,0	–	–

[1] Available also for corresponding double and triple strand chains [2] The bent attachment plates can also be fitted facing inwards with the top part

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iwis® Conveyor chains with bent attachment plates

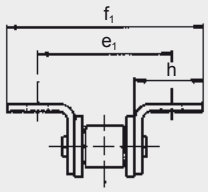
for fitting to iwis chains DIN 8187, 8188 and 8181

BENT ATTACHMENT PLATES

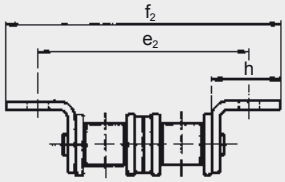
The designs shown below can be supplied as connecting links, or outer links for end fitting or repair.

When the attachment is fitted facing inwards over the chain, threaded inserts cannot be used. Further threaded inserts can also be supplied. Details on request.

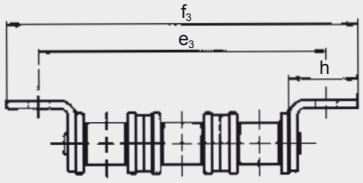
Single



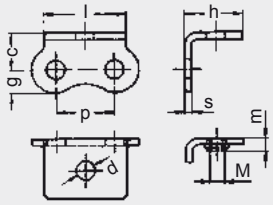
Double



Triple

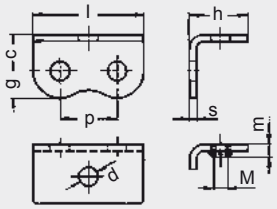


202.1



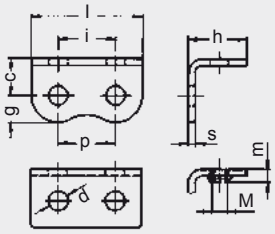
202.31 with threaded insert

203.1



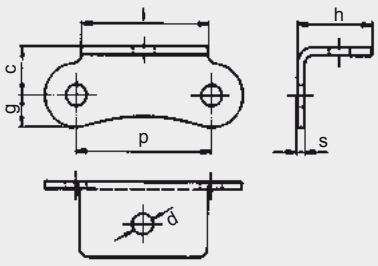
203.31 with threaded insert

203.2

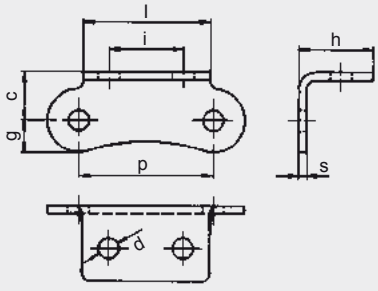


203.32 with threaded insert

201.1 for double-pitch chains



201.2 for double-pitch chains



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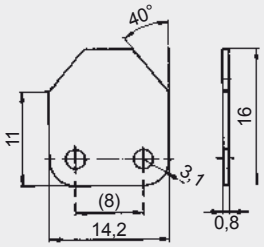
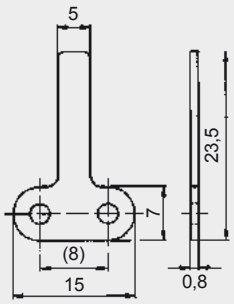
Special straight attachment plates – examples

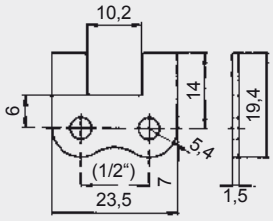
For chain G 52: Form 103.7



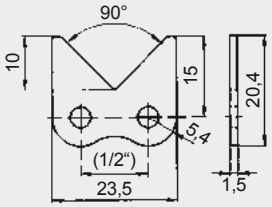
For chain G 52: Form 121.0



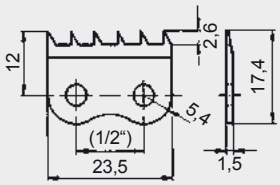
For chain L 85 SL: Form 103.62



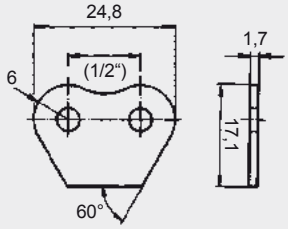
For chain L 85 SL: Form 103.63



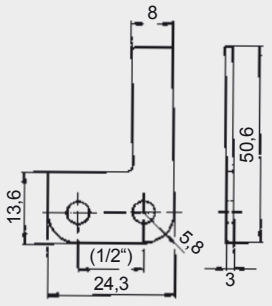
For chain L 85 SL: Form 103.65



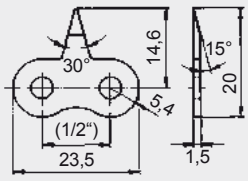
For chain L 85 SL: Form 106.0
Guide plates for inner links



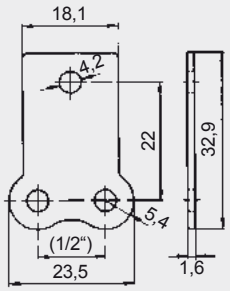
For chain L 85 SL: Form 110.0



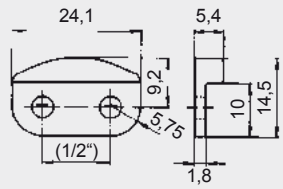
For chain L 85 SL: Form 112.0



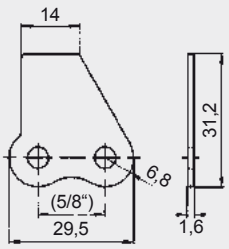
For chain L 85 SL: Form 120.11



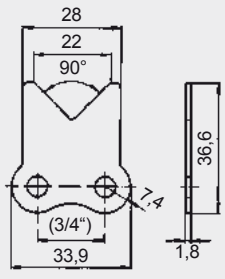
For chain L 85 SL: Trip or cam plate



For chain M 106 SL: Form 102.71



For chain M 127 SL: Form 102.61



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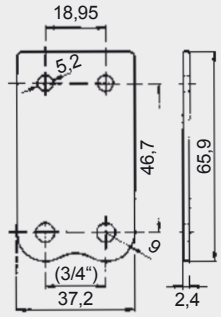
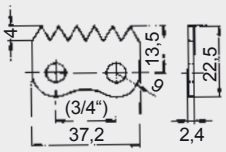
Special straight attachment plates – examples

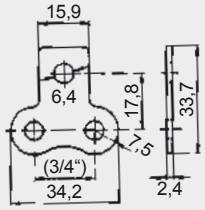
For chain M 127 SL: Form 122.21



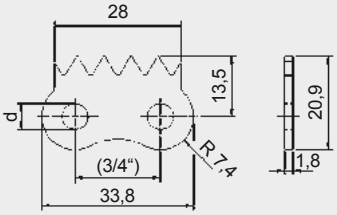
For chain M 128 A SL: Form 103.64



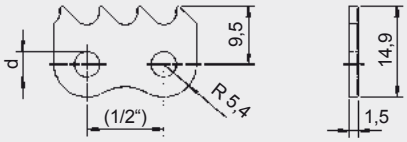
For chain M 128 A SL: Form 119.1



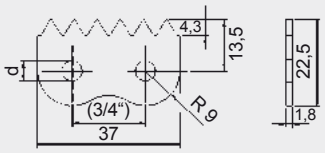
For chain M 127 SL: Form 102.65



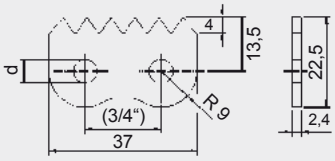
For chain L 85 SL: Form 103.52



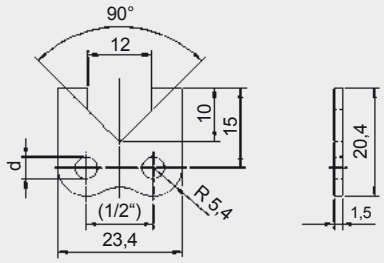
For chain M 127 A SL: Form 103.64



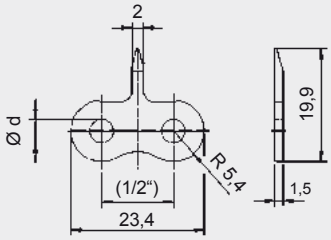
For chain M 128 A SL: Form 103.64



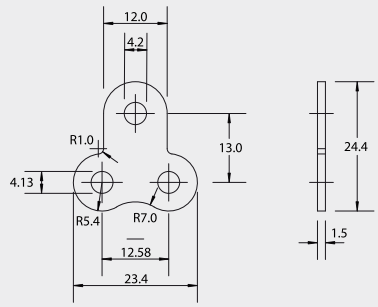
For chain L 85 SL: Form 103.67



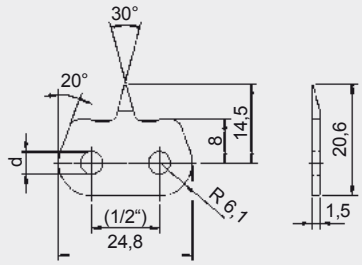
For chain L 85 SL: Form 112.10



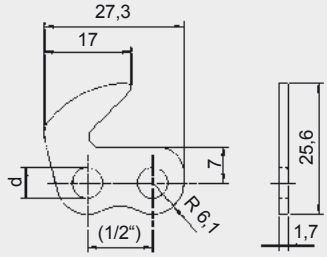
For chain L 85 SL: Form 131.12



For chain L 85 SL: Form 112.09



For chain L 85 SL: Form 132.0



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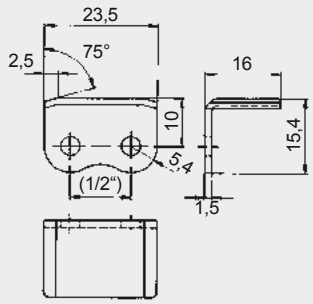
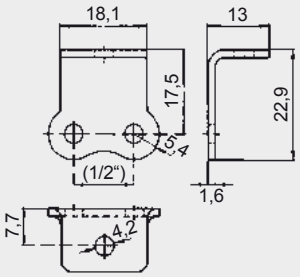
Special bent attachment plates – examples

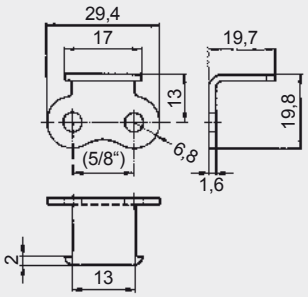
For chain L 85 SL: Form 203.8



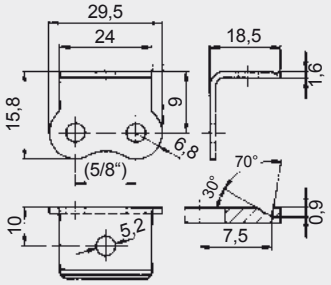
For chain L 85 SL: Form 220.11



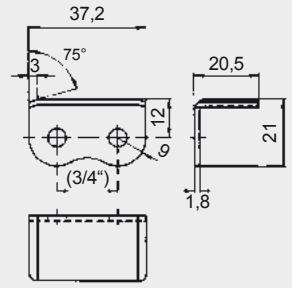
For chain M 106 SL: Form 220.13



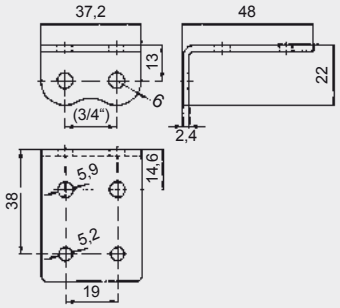
For chain M 106 SL: Form 202.6



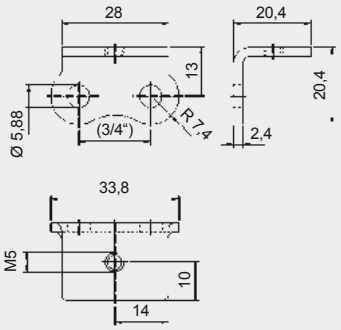
For chain M 127 SL: Form 203.8



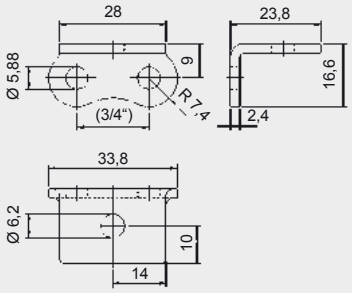
For chains M 128 A SL/M 128 A SB, Form 222.2



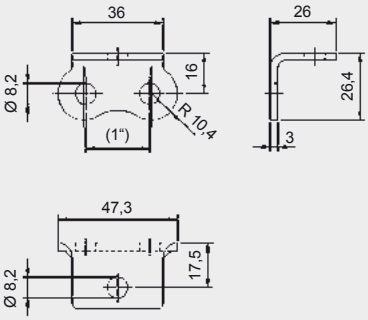
For chain M 128 A SL: Form 202.3



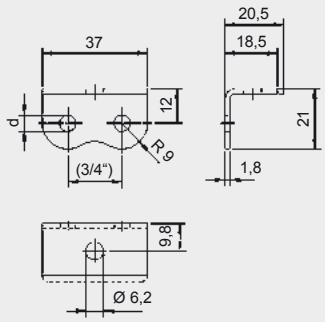
For chain M 128 A SL: Form 202.8



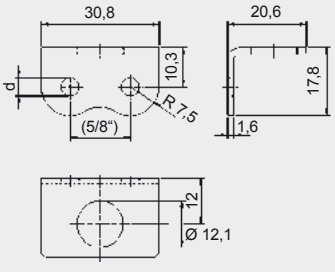
For chains M 1610 A und M 1611 SL: Form 202.13



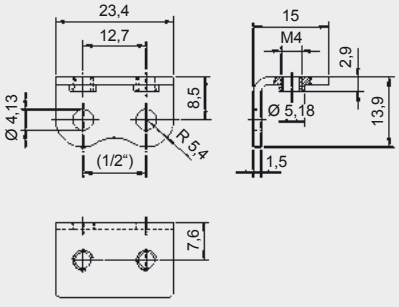
For chain M 127 SL: Form 203.12



For chain M 106 SL: Form 203.17



For chain L 85 SL: Form 203.32



Similar attachment plate designs for other chain types are available on request, as are other attachment plate designs. For some special attachment plates minimum order quantities are required.

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iwis® Conveyor chains extended bearing pins

for fitting to iwis chains DIN 8187, 8188 and 8181

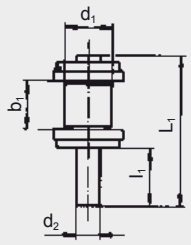
DIN ISO no.	Ref. no. iwis [1]	Pitch p (")	Pitch p (mm)	inner width b_1 (mm)	Roller diameter d_1 (mm)	Extended bearing pin diameter d_2 (mm)	Design A pin length L_1 (mm)	Design A pin length l_1 (mm)	Design B and C pin length L_2 (mm)	Design B and C pin length l_2 (mm)	Design B and C pin length l_3 (mm)
Pin design A, B, C											
05 B-1	G 52	–	8,0	3,16	5,0	2,31	17,5	10,0	27,5	20,0	10,5
06 B-1	G 67	3/8"	9,525	5,72	6,35	3,31	22,0	10,0	34,0	22,0	11,5
-	P 83 V	1/2"	12,7	4,88	7,75	3,68	22,0	10,0	37,0	25,0	13,0
08 B-1	L 85 SL	1/2"	12,7	7,75	8,51	4,45	25,5	10,0	40,5	25,0	13,0
10 B-1	M 106 SL	5/8"	15,875	9,65	10,16	5,08	30,0	12,0	48,0	30,0	15,5
12 B-1	M 127 SL	3/4"	19,05	11,75	12,07	5,72	36,0	15,0	51,0	30,0	15,5
16 B-1	M 1611	1"	25,4	17,02	15,88	8,28	53,5	20,0	68,5	35,0	18,0
08 A-1 ANSI 40	L 85 A	1/2"	12,7	7,94	7,95	3,96	25,5	10,0	45,3	30,0	15,5
10 A-1 ANSI 50	M 106 A	5/8"	15,875	9,53	10,16	5,08	31,5	12,0	48,0	29,0	15,0
12 A-1 ANSI 60	M 128 A SL	3/4"	19,05	12,70	11,91	5,96	38,0	14,0	48,0	24,0	12,5
16 A-1 ANSI 80	M 1610 A	1"	25,4	15,88	15,88	7,92	49,5	19,0	61,3	31,0	16,0
208 B	LR 165 SL	1"	25,4	7,75	8,51	4,45	25,5	10,0	40,5	25,0	13,0
210 B	LR 206 SL	1 1/4"	31,75	9,65	10,16	5,08	30,0	12,0	48,0	30,0	15,5
212 B	LR 247 SL	1 1/2"	38,1	11,75	12,07	5,72	36,0	15,0	51,0	30,0	15,5
216 B	LR 3211	2"	50,8	17,02	15,88	8,28	53,5	20,0	68,5	35,0	18,0

[1] For multiple strand chains on request. Other pin designs and lengths available on request.

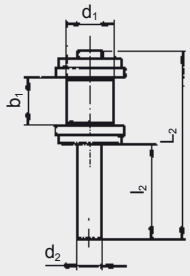
EXTENDED BEARING PINS

The designs shown below can be supplied as connecting links or outer links for end fitting or repair (C only as outer link).

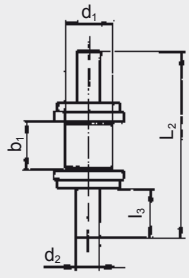
A



B



C



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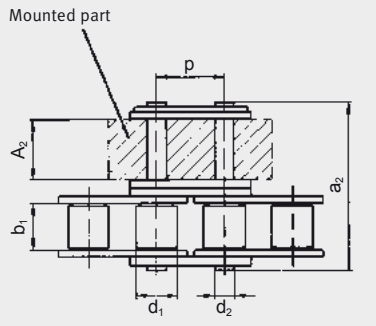
iwis® Multiple strand connecting links

for attachment of components [1)]

DIN ISO no.	Ref. no. iwis	Chain p (")	Pitch	Pitch of holes in component (mm)	Inside width b_1 (mm)	Roller diameter d_1 (mm)	Pin diameter d_2 (mm)	Outside width a_2 (mm)	Outside width a_3 (mm)	Block width A_3 (max. mm)	Block width A_3 (max. mm)
Double											
05B-1	G 52	8 mm		7,94	3,16	5,0	2,31	14,9	–	4,0	–
06B-1	G 67	3/8		9,42	5,72	6,35	3,31	24,5	34,6	7,0	17,5
Double / Triple											
08B-1	L 85 SL	1/2		12,58	7,75	8,51	4,45	32,3	46,2	11,3	25,2
10B-1	M 106 SL	5/8		15,76	9,65	10,16	5,08	37,4	53,9	13,3	29,9
12B-1	M 127 SL	3/4		18,95	11,75	12,07	5,72	42,9	62,4	15,6	35,1
16B-1	M 1611	1		25,3	17,02	15,88	8,28	68,7	100,6	25,5	57,4
08 A-1 ANSI 40	L 85 A	1/2		12,58	7,94	7,95	3,96	31,8	46,2	11,2	25,5
10 A-1 ANSI 50	M 106 A	5/8		15,76	9,53	10,16	5,08	39,8	57,9	13,8	32,0
12 A-1 ANSI 60	M 128 A SL	3/4		18,95	12,70	11,91	5,96	49,4	72,2	17,8	40,6
16 A-1 ANSI 80	M 1610 A	1		25,3	15,88	15,88	7,92	63,2	92,6	22,6	51,9

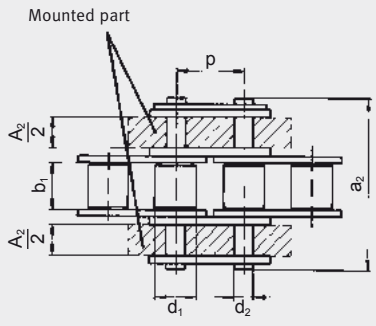
[1)] Please note the exact pitch measure „p“ for the assembly of special components.

EXAMPLES



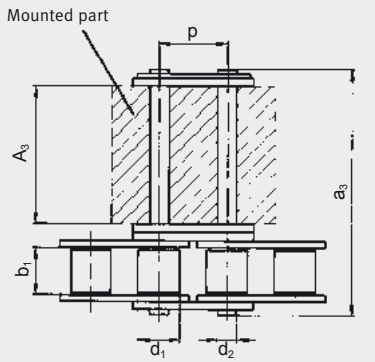
Single strand chain with double strand connecting link

Multiple strand connecting links permit components to be fitted easily at specific locations on the chain.



Single strand chain with double strand connecting link

Multiple strand connecting links can be supplied with normal side plates or as connecting links with straight or bent attachment plates, mounted on one or both sides.



Single strand chain with triple strand connecting link

Note: The pitch of holes in the mounted part (component) differ from chain pitch.

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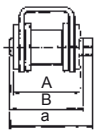
iwis® Conveyor chains with U-shaped attachments

for fitting to iwis roller chains DIN 8187 and 8188

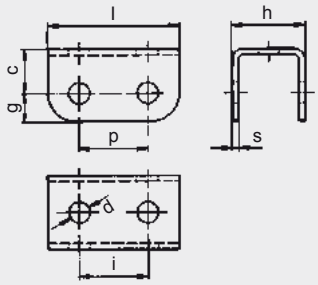
DIN ISO no.	Ref. no. iwis	Pitch p (mm)	A (mm)	B (mm)	a (mm)	c (mm)	d¹ (mm)	g (mm)	h (mm)	i (mm)	k (mm)	l (mm)	s (mm)	Threaded insert M (mm)	m max. (mm)
U-shaped attachment 303.2 / 303.32 / 303.9															
08B-1	L 85 SL	12,7	17,8	19,8	21,5	9,5	4,1	6,3	14,6	12,6	3,0	24,2	1,5	4	5,2
08B-2	D 85 SL	12,7	31,8	33,9	35,5	9,5	4,1	6,3	28,5	13,9	3,0	24,2	1,5	4	5,2
10B-1	M 106 SL	15,875	20,0	22,0	24,0	12,0	7,1	7,5	16,6	15,8	3,0	31,0	1,5	5	5,2
16 A-1 ANSI 80	M 1610 A	25,4	33,7	36,5	38,4	16,2	8,7	10,5	27,3	25,3	5,0	49,2	2,1	6	7,3

¹) Alternative diameters: for L 85 SL: 5,8 mm / for M 106 L: 4,7 mm

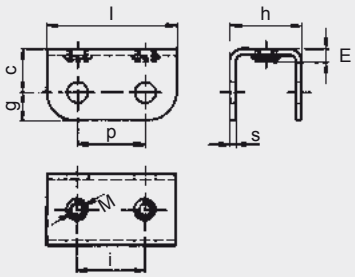


Chain width:
When U-shaped attachments are fitted between the inner and outer plates, the chain width increases above the norm.
a = pin length of connecting link

Form 303.2 with standard attachment holes

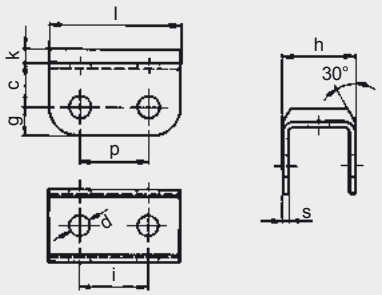


Form 303.32 with threaded inserts



With D 85 SL threaded inserts are positioned transversely to the chain

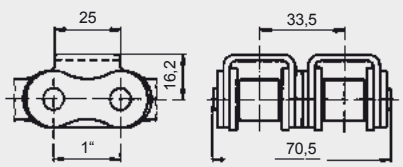
Form 303.9 with rubber cover



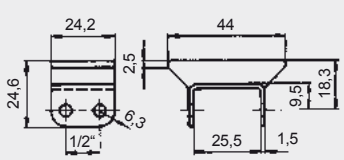
Cover material: Perbunan
Hardness: 65 Shore / Temperature: -30 up to +100 °C

SPECIAL DESIGNS

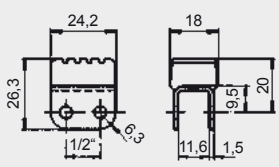
1"-double strand chain with special U-shaped attachment. Base chain: iwis M 1610 A



No. 303.94 for chain D 85 SL



No. 303.97 for chain L 85 SL



MEGAlife

MEGAlife maintenance free roller and conveyor chains can be applied in all areas where post installation lubrication is not at all or only partly possible. This is the case in clean and dry surroundings or in applications with difficult lubrication passage. MEGAlife maintenance free chains are corrosion resistant due to nickel-plated parts and can be utilized in a temperature range from –40°C up to +160°C. The chains are supplied either dry or with special-purpose lubrication in line with the requirements of the applied application.

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iwis® MEGAlife I and MEGAlife II

The maintenance free iwis chains

PROBLEM/INITIAL SITUATION

- Lubrication is not at all or only partly possible
- Clean & dry surroundings are required
- Difficult/obstructed lubrication passage
- Contamination of manufacturing outlet and conveyor apparatus due to chain lubrication

OUR SOLUTION

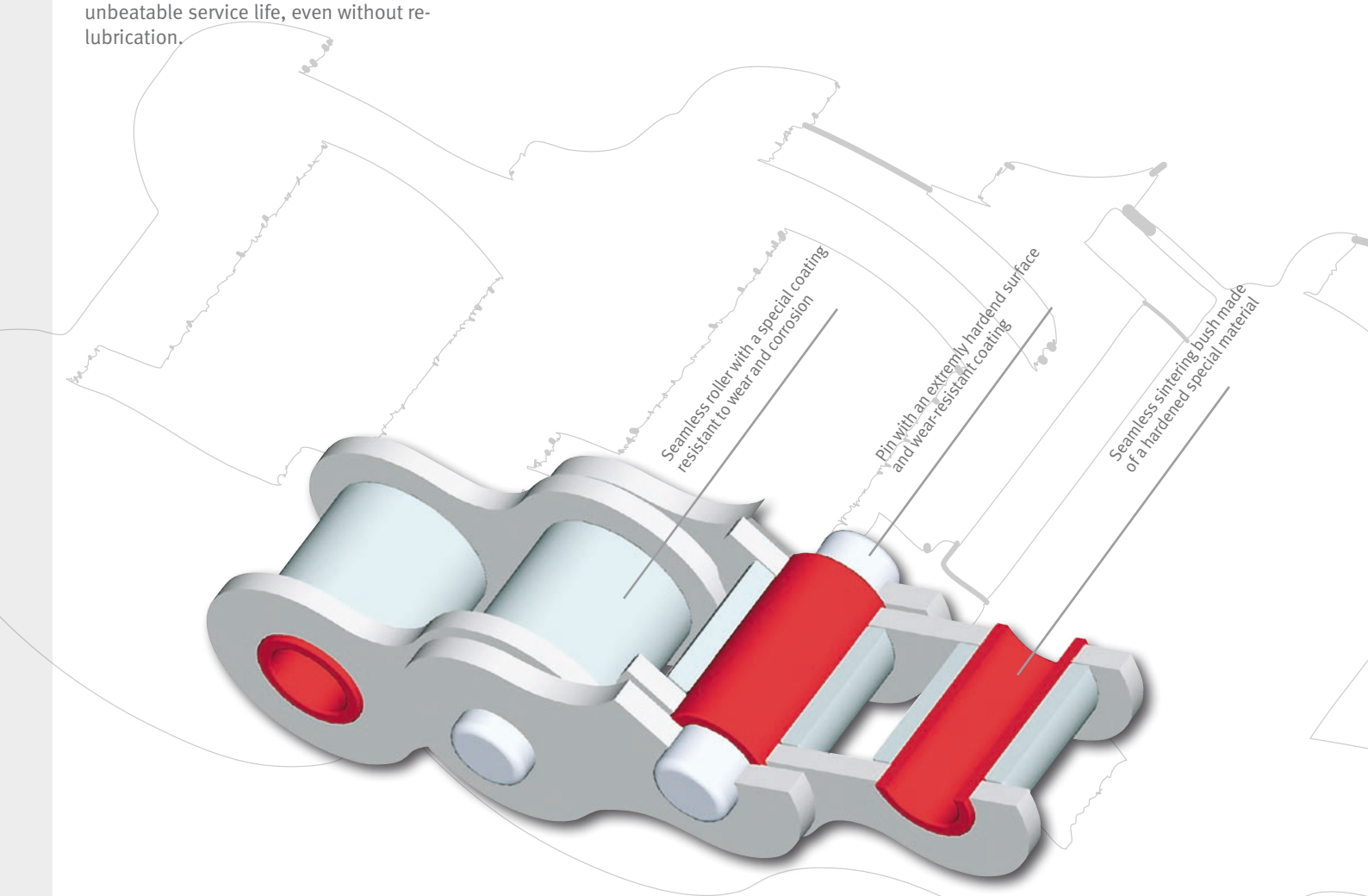
A high performance, maintenance-free chain with redesigned joints. Innovative technical details which result in an, as yet, unbeatable service life, even without re-lubrication.

CUSTOMER BENEFITS

- Excellent wear resistance – even at high speeds and loads – where conventional maintenance free chains stretch
- Extremly high levels of fatigue and breaking strength
- Easy to dismantle
- Reduced overall maintenance cost
- Less production still-time
- Environmentally-friendly due to absence of excess lubrication
- Protected from corrosion
- Installations have fewer down times
- Environmentally friendly because lubrication is not necessary

TECHNICAL FEATURES

- Available dry or with additional special lubricant
- Corrosion resistant
- Temperature range from -40 °C up to +160 °C
- Available as roller chain according to ISO 606 for driving purposes or as conveyor chain with attachments and extended components.



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HIGHLIGHTS MEGALIFE I

- Excellent wear resistance – even at high speeds and loads – where conventional maintenance free chains stretch
- Maintenance free under certain conditions
- Extremly high levels of fatigue and breaking strenght
- Protected from corrosion
- Easy to dismantle
- Reduced overall maintenance cost
- Less production still-time
- Environmentally friendly because lubrication is not necessary

HIGHLIGHTS MEGALIFE II

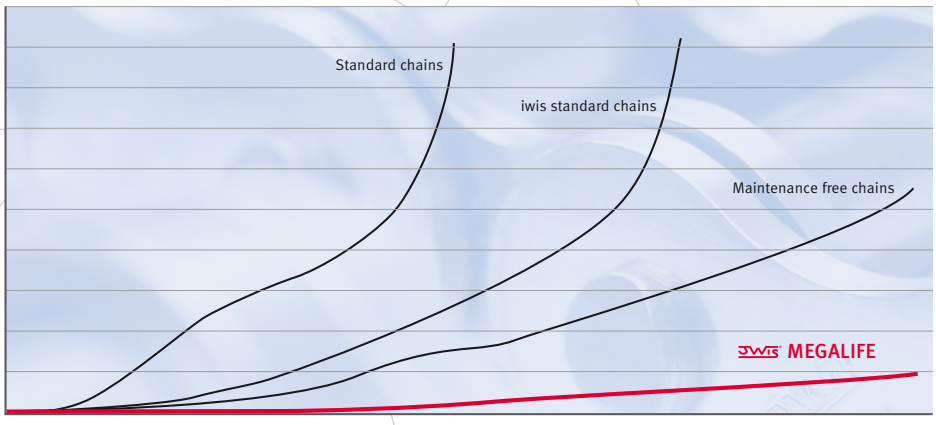
- A distictive longer lifetime due to:
- A considerably improved wear resistance as a result of a special thermo-chemical treatment of the pins. Especially by fast running chain drives v › 3 m/s

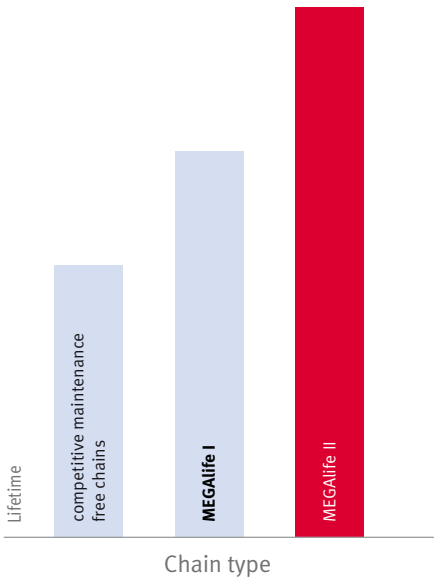
AREAS OF APPLICATION

- Packaging & Food Industry
- Printing Industry
- Conveyor-Equipment
- Textile & Clothing Industry
- Paper Manufacture & Book Binding Industry
- Electronic Industry & Circuit Board Manufacture
- Wood, Glass & Ceramic Industry
- Medical technology

... and of course in all areas where re-lubrication is not at all or only partly possible.

Trial without re-lubrication at high speeds.
Graphic representation corresponds to iwis test results.





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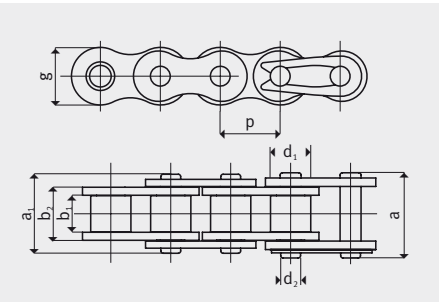
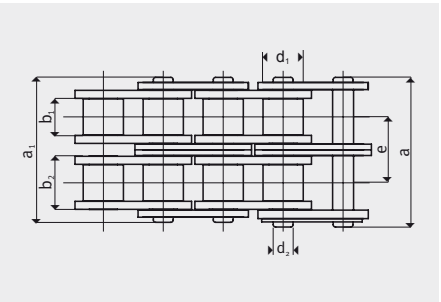
iwis® MEGAlife I roller chains

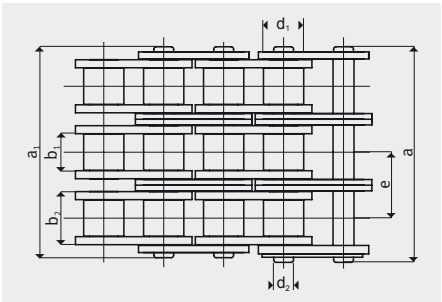
Complying with DIN 8187-1, ISO 606: 2004

DIN ISO no.	Ref. no. iwis	Pitch p (")	Pitch p (mm)	Breaking strength FB iwis (N) med.	Breaking strength FB Standard (N) min.	Breaking area f (cm²)	Weight per m q (kg/m)	Inner link b_1 (mm) min.	Inner link b_2 (mm) min.	Inner link g (mm) max.	Outer link a_1 (mm) max. 1)	Outer link a (mm) max. 1)	Roller d_1 (mm) max.	Pin d_2 (mm) max.	Transverse pitch e (mm)	Article No.
Simplex																
06 B-1	G 67 ML*	3/8"	9,525	11.000	9.000	0,28	0,41	5,72	8,53	8,20	12,90	16,70	6,35	3,31	-	50033917
08 B-1	L 85 ML	1/2"	12,70	22.000	18.000	0,50	0,70	7,75	11,30	12,20	16,90	18,50	8,51	4,45	-	50026256
08 A-1 ANSI 40	L 85 AML	1/2"	12,70	17.500	14.100	0,44	0,60	7,94	11,15	12,00	16,60	17,50	7,95	3,96	-	50036841
10 B-1	M 106 ML	5/8"	15,875	25.000	22.400	0,67	0,95	9,65	13,28	14,40	19,50	20,90	10,16	5,08	-	50026257
12 B-1	M 127 ML	3/4"	19,05	30.000	29.000	0,89	1,25	11,75	15,62	16,20	22,70	23,60	12,07	5,72	-	50026258
12 A-1 ANSI 60	M 128 AML	3/4"	19,05	41.000	31.800	1,06	1,47	12,70	17,75	18,00	25,30	26,70	11,91	5,96	-	50038464
16 B-1	M 1611 ML	1"	25,4	75.000	60.000	2,10	2,70	17,02	25,45	21,10	36,10	36,90	15,88	8,28	-	50028923
Duplex																
06 B-2	D 67 ML	3/8"	9,525	19.000	16.900	0,56	0,78	5,72	8,53	8,20	23,40	24,60	6,35	3,31	10,24	50033832
08 B-2	D 85 ML	1/2"	12,70	40.000	32.000	1,00	1,35	7,75	11,30	12,20	30,80	32,40	8,51	4,45	13,92	50027439
10 B-2	D 106 ML	5/8"	15,875	50.000	44.500	1,34	1,85	9,65	13,28	14,40	36,00	37,50	10,16	5,08	16,59	50027509
12 B-2	D 127 ML	3/4"	19,05	60.000	57.800	1,78	2,50	11,75	15,62	16,40	42,10	43,00	12,07	5,72	19,46	50027457
16 B-2	D 1611 ML	1"	25,40	150.000	106.000	4,21	5,40	17,02	29,45	21,10	68,00	68,80	15,85	8,28	31,88	50033161
20 B-2	D 2012 ML	1 1/4"	31,75	210.000	170.000	5,84	7,36	19,56	29,01	25,40	79,70	82,90	19,05	10,19	36,45	50033771
Triplex																
08 B-3	TR 85 ML	1/2"	12,70	58.000	47.500	1,50	2,00	7,75	11,30	12,20	44,70	46,30	8,51	4,45	13,92	50027510
10 B-3	TR 106 ML	5/8"	15,875	75.000	66.700	2,02	2,80	9,65	13,28	14,40	52,50	54,00	10,16	5,08	16,59	50027511
12 B-3	TR 127 ML	3/4"	19,05	89.000	86.700	2,68	3,80	11,75	15,62	16,40	61,50	62,50	12,07	5,72	19,46	50027512
16 B-3	TR 1611 ML	1"	25,40	219.000	160.000	6,32	8,00	17,02	25,45	21,10	99,20	100,70	15,88	8,28	31,88	50033628
Simplex/duplex - MEGAlife roller chains with straight side plates																
10 B-1	M 106 ML-GL	5/8"	15,875	24.000	22.400	0,67	0,95	9,65	13,28	13,90	19,50	20,90	10,16	5,08	-	50035304
10 B-2	D 106 ML-GL	5/8"	15,875	47.500	44.500	1,34	1,85	9,65	13,28	13,90	36,00	37,50	10,16	5,08	16,59	50034083
12 B-1	M 127 ML-GL	3/4"	19,05	30.000	29.000	0,89	1,30	11,75	15,62	16,10	22,70	23,60	12,07	5,72	-	50037351
12 B-2	D 127 ML-GL	3/4"	19,05	63.000	57.800	1,78	2,50	11,75	15,62	16,10	42,10	43,00	12,07	5,72	19,46	50034084

* also available in 10 m length (Art. 50035181), with straight side plates 1) Differing dimensions for cranked links If cranked links are fitted, it should be noted that the breaking strength of the chain my be reduced by approximately 20%.







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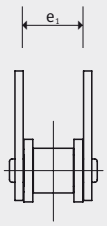
iwis® MEGAlife I conveyor chains with straight attachment plates

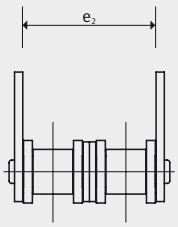
based on iwis roller chains complying with DIN 8187

DIN ISO no.	Ref. no. iwis	Pitch [2] p (")	p (mm)	a (mm)	b (mm)	d (mm)	Simplex chains e_1 (mm)	Duplex chains e_2 (mm)	Triplex chains e_3 (mm)	g (mm)	i (mm)	l (mm)	s (mm)	Threaded insert M (mm)	m max. (mm)
Shape 102.1															
08 B-1	L 85 ML [1]	1/2"	12,7	13,0	19,0	4,2	11,6	25,5	39,4	5,4	–	18,0	1,5	4	5,2
10 B-1	M 106 ML [1]	5/8"	15,875	16,3	24,3	5,2	13,6	30,1	46,6	6,8	–	24,0	1,6	5	5,3
12 B-1	M 127 ML [1]	3/4"	19,05	19,1	29,1	6,2	15,9	35,3	54,7	7,4	–	28,0	1,8	5	5,5
16 B-1	M 1611 ML	1"	25,4	24,6	36,6	8,2	25,9	57,8	89,7	10,4	–	36,2	3,0	6	8,2
Shape 103.1 and 103.2															
08 B-1	L 85 ML [1]	1/2"	12,7	17,0	23,0	4,2	11,6	25,5	39,4	5,4	12,7	23,6	1,5	4	5,2
10 B-1	M 106 ML [1]	5/8"	15,875	16,3	25,8	5,2	13,6	30,1	46,6	7,5	15,8	31,0	1,6	5	5,3
12 B-1	M 127 ML [1]	3/4"	19,05	18,3	29,0	6,2	15,9	35,3	54,7	9,0	19,0	37,2	1,8	5	5,5
16 B-1	M 1611 ML	1"	25,4	28,45	41,55	8,2	25,9	57,8	89,7	10,35	25,4	47,2	3,0	6	8,2

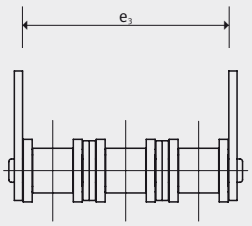
[1] also for the corresponding duplex and triplex chains [2] Nominal pitch



Simplex chains



Duplex chains



Triplex chains

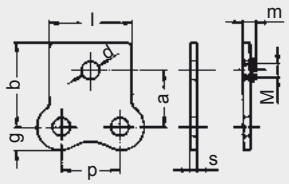
STRAIGHT ATTACHMENTS

The types illustrated are also obtainable for connector and outer links for final assembly and repair.

Fitting attachments on one or both sides, on each outer link or at greater spacing is possible.

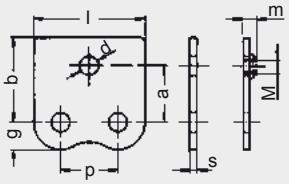
Other conveying chains and threaded inserts on request.

102.1



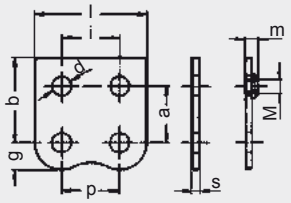
102.31 with threaded insert

103.1



103.31 with threaded insert

103.2



103.32 with threaded insert

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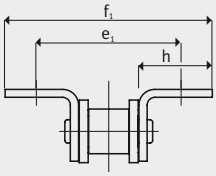
iwis® MEGAlife I conveyor chains with bent attachment plates

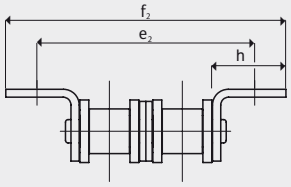
based on iwis roller chains complying with DIN 8187

DIN ISO no.	Ref. no. iwis	Pitch [3] p (")	p (mm)	c (mm)	d (mm)	Simplex chains e_1 (mm)	f_1 (mm)	Duplex chains e_2 (mm)	f_2 (mm)	Triplex chains e_3 (mm)	f_3 (mm)	g (mm)	h (mm)	Threaded insert i (mm)	l (mm)	s (mm)	M (mm)	m max. (mm)
Shape 202.1																		
08 B-1	L 85 ML [1]	1/2"	12,7	8,0	4,2	27,6	39,6	41,5	53,5	55,4	67,4	5,4	14,0	-	18,1	1,5	4	5,2
10 B-1	M 106 ML [1]	5/8"	15,875	9,0	5,2	33,6	49,6	50,1	66,1	66,6	82,6	6,8	18,0	-	24,0	1,6	5	5,3
12 B-1	M 127 ML [1]	3/4"	19,05	10,0	6,2	41,1	61,1	60,5	80,5	79,9	99,9	7,4	22,6	-	28,0	1,8	5	5,5
16 B-1	M 1611 ML	1"	25,4	16,0	8,2	53,9	77,9	85,8	109,8	117,7	141,7	10,4	26,0	-	36,2	3,0	6	8,2
Shape 203.1 and 203.2																		
08 B-1	L 85 ML [1] [2]	1/2"	12,7	9,5	4,2	32,6	44,6	46,5	58,5	60,4	72,4	5,4	16,5	12,7	23,6	1,5	4	5,2
10 B-1	M 106 ML [1] [2]	5/8"	15,875	11,0	5,2	30,6	49,6	47,1	66,1	63,6	82,6	7,5	18,0	15,8	31,0	1,6	5	5,3
12 B-1	M 127 ML [1] [2]	3/4"	19,05	12,0	6,2	35,5	56,9	54,9	76,3	74,3	95,7	9,0	20,5	19,0	37,2	1,8	5	5,5
16 B-1	M 1611 ML	1"	25,4	18,0	8,2	57,7	83,9	89,6	115,8	121,5	147,8	10,4	29,0	25,4	47,2	3,0	6	8,2

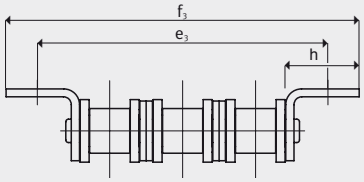
Conveyor chains D 1611 ML and TR 1611 ML on request [1] Also for the corresponding duplex and triplex chains [2] Assembly of the bent attachments also possible inward over the chain except when fitted on both sides to D 85 ML, D 106 ML and D 127 ML [3] Nominal pitch



Simples chains



Duplex chains

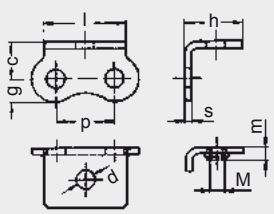


Triplex chains

BENT ATTACHMENTS

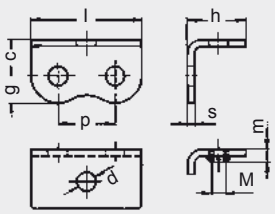
The types illustrated are also obtainable for connector and outer link for final assembly and repair. Assembly of the bent attachments with threaded insert over the chain facing inwards is not possible. Fitting bent attachments on one or both sides on each outer link or at greater spacing is possible. Other conveying chains and threaded inserts on request.

202.1



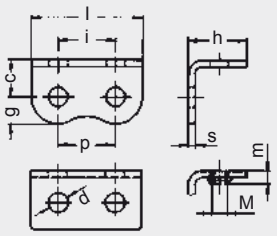
202.31 with threaded insert

203.1



203.31 with threaded insert

203.2



203.32 with threaded insert

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iwis® MEGAlife I conveyor chains with extended pins

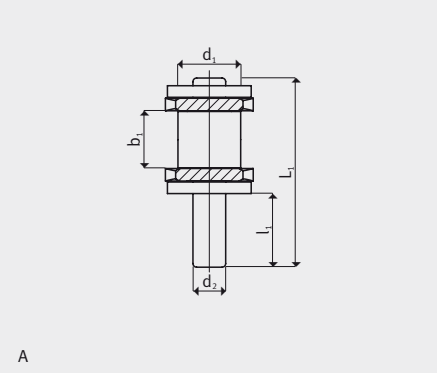
based on iwis roller chains complying with DIN 8187

DIN ISO no.	Ref. no. iwis [1]	p (")	Pitch [2] p (mm)	Inner width b_1 (mm)	Roll diameter d_1 (mm)	Pin diameter d_2 (mm)	Design A L_1 (mm)	Design A l_1 (mm)	Design B and C L_2 (mm)	Design B and C l_2 (mm)	Design B and C l_3 (mm)
Pin type A, B, C											
08 B-1	L 85 ML[1]	1/2"	12,7	7,75	8,51	4,45	25,5	10,0	40,5	25,0	13,0
10 B-1	M 106 ML[1]	5/8"	15,875	9,65	10,16	5,08	30,0	12,0	48,0	30,0	15,5
12 B-1	M 127 ML[1]	3/4"	19,05	11,75	12,07	5,72	36,0	15,0	51,0	30,0	15,5
16 B-1	M 1611 ML	1"	25,4	17,02	15,88	8,28	53,8	20,0	68,5	35,0	18,0

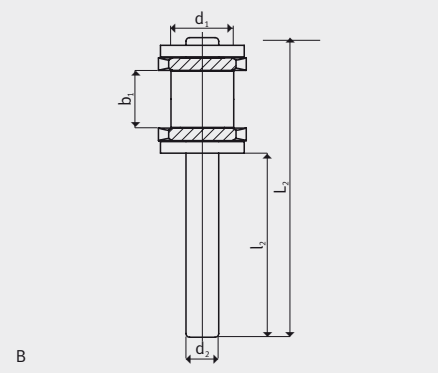
[1] For multiple chains on request [2] Nominal pitch Other pin lengths and shapes on request

EXTENDED PINS

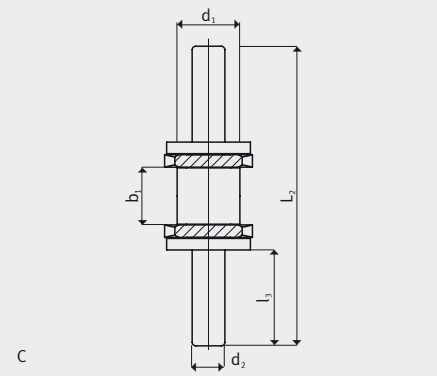
The types illustrated are also available as connecting links and outer links for final assembly and repair (C only as outer link).



A



B



C

SPECIAL MEGAlife VERSIONS

MEGAlife roller chains are also available in the following special versions:

For example:

- MEGAlife transfer chains with high resistant plastic support brackets or
- maintenance free power and free conveyor chains.

Contact us, our Sales Team will be pleased to advice you.

iwis antriebssysteme
wir bewegen die welt

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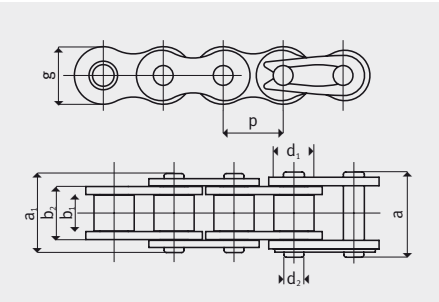
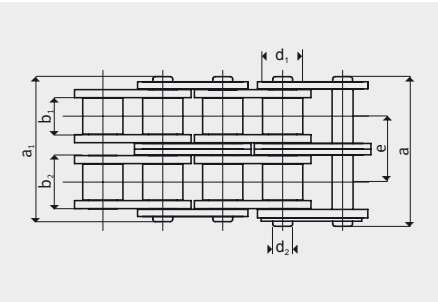
iwis® MEGAlife II – Roller chains

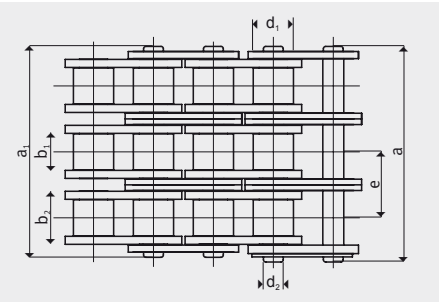
Complying with DIN 8187-1, ISO 606: 2004

DIN ISO no.	Ref. no. iwis	Pitch p (")	Pitch p (mm)	Breaking strength F_B iwis (N) med.	Breaking strength F_B Standard (N) min.	Bearing area f (cm^2)	Weight per m q (kg/m)	Inner link b_1 (mm) min.	Inner link b_2 (mm) min.	Inner link g (mm) max.	Outer link a_1 (mm) max. [1]	Outer link a (mm) max. [1]	Roller d_1 (mm) max.	Pin d_2 (mm) max.	5 m Versions Transverse pitch e (mm)	Article No.
Simplex																
06 B-1	G 67 ML-2*	3/8"	9,525	11.000	9.000	0,28	0,41	5,72	8,53	8,20	12,90	14,10	6,35	3,31	-	50030791
08 B-1	L 85 ML-2	1/2"	12,70	22.000	18.000	0,50	0,70	7,75	11,30	12,20	16,90	18,50	8,51	4,45	-	50030461
10 B-1	M 106 ML-2	5/8"	15,875	27.500	22.400	0,67	0,95	9,65	13,28	14,40	19,50	20,90	10,16	5,08	-	50030462
12 B-1	M 127 ML-2	3/4"	19,05	34.000	29.000	0,89	1,25	11,75	15,62	16,40	22,70	23,60	12,07	5,72	-	50030463
16 B-1	M 1611 ML-2	1"	25,40	75.000	60.000	2,10	2,70	17,02	25,45	21,10	36,10	36,90	15,88	8,28	-	50030464
20 B-1	M 2012 ML-2	1 1/4"	31,75	120.000	95.000	5,84	7,36	19,56	29,10	26,60	77,00	79,70	19,05	10,17	36,45	50033036
Duplex																
06 B-2	D 67 ML-2	3/8"	9,525	19.000	16.900	0,56	0,78	5,72	8,53	8,20	23,40	24,60	6,35	3,31	10,24	50031074
08 B-2	D 85 ML-2	1/2"	12,70	40.000	32.000	1,00	1,35	7,75	11,30	12,20	30,80	32,40	8,51	4,45	13,92	50030465
10 B-2	D 106 ML-2	5/8"	15,875	49.000	44.500	1,34	1,85	9,65	13,28	14,40	36,00	37,50	10,16	5,08	16,59	50030466
12 B-2	D 127 ML-2	3/4"	19,05	61.000	57.800	1,78	2,50	11,75	15,62	16,40	42,10	43,00	12,07	5,72	19,46	50030467
Triplex – ML-2 roller chains on request																
Simplex – ANSI roller chains, complying with DIN 8188-1, American standard, ISO 606: 2004																
08 A-1 ANSI 40	L 85 AML-2	1/2"	12,70	17.500	14.100	0,44	0,60	7,94	11,15	12,00	16,60	17,50	7,95	3,96	-	50033770
12 A-1 ANSI 60	M 128 AML-2	3/4"	19,05	41.000	31.800	1,06	1,47	12,70	17,75	18,00	25,30	26,70	11,91	5,96	-	50031073
16 A-1 ANSI 80	M 1610 AML-2	1"	25,40	68.000	56.700	1,79	2,57	15,88	22,40	22,80	32,00	33,90	15,88	7,94	-	50032667
ML-2 conveyor chains on request																

[1] Differing dimensions for cranked links. If cranked links are fitted, it should be noted that the breaking strength of the chain may be reduced by approximately 20%. * straight side plates

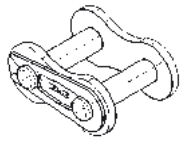




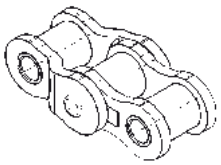


INDIVIDUAL COMPONENTS AND CONNECTING LINKS

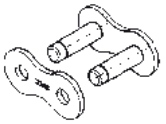
Nr. 2 Inner link
Standard designation B



Nr. 3 Connecting link with spring clip
Standard designation E



Nr. 7 Double cranked link
Standard designation C



Nr. 8 Outer link
Standard designation A

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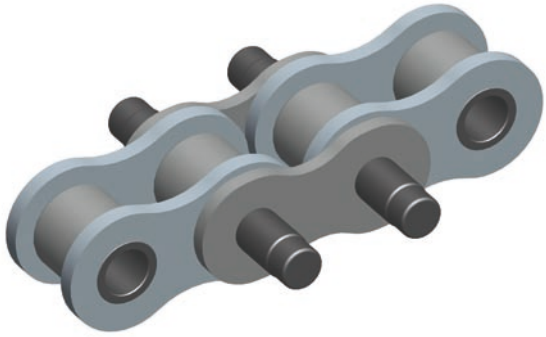
iwis® MEGAlife conveyor chains

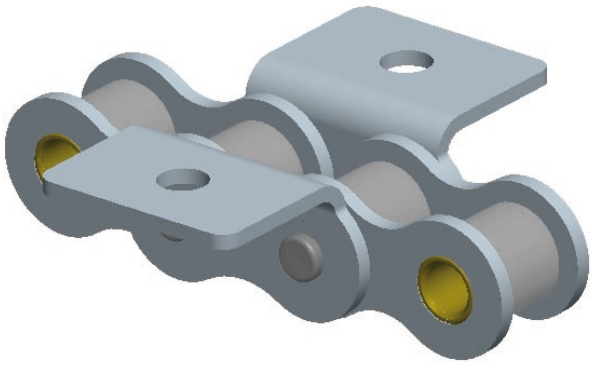
Examples of special chain designs

MEGAlife conveyor chain with straight attachment plates

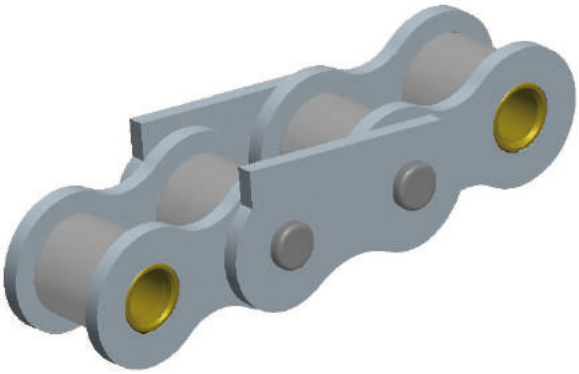
MEGAlife conveyor chain with extendend pins



MEGAlife conveyor chain with bent attachment plates



MEGAlife conveyor chain with special attachment plates



CR Chains

iwis corrosion resistant chains consist of hardened, highly alloyed steels showing a good wear resistance and considerably higher fatigue and breaking strengths than for stainless chains. CR chains can be used in those applications where chains despite of extreme conditions need to remain flexible and stainless due to hygienic and visual reasons. A lubrication of CR chains is recommended.