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MEGAlife – maintenance-free chains from iwis

JWIS®

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MEGAlife – sustainability for the environment and your production

There are many ways in which MEGAlife maintenance-free roller and conveyor chains offer sustainability: The chains are environmental-friendly clean, dry on the outside and have at same time an extremely long service life. Also the low level of friction results in lower emissions of the environmentally damaging CO_2 during use. The coating on the chains ensures extremely strong corrosion protection. Thanks to the special sinter lubrication, maintenance-free MEGAlife chains need no relubrication during their product life cycle. This means that the chains need 3/4 less lubricant compared with normal chains with initial lubrication.
Consequently, MEGAlife maintenance-free chains represent maximum efficiency and minimum maintenance outlay – with an up to threefold increase in service life. In short, **a clean solution for greater sustainability and lower operating costs**.

The advantages at a glance

- Up to threefold longer service life and thus three times more effective use of materials
- Less than 25 % of the lubricant required for normally lubricated chains
- Clean and corrosion-protected
- No contamination of the machinery or surroundings as no relubrication is needed
- Accredited by TÜV SÜD as compliant with ISO 14001:2004 (environmental management)

Simply more sustainability

We understand that what we do has an impact on the environment. And so we see it as our duty to use all the business and technical options available to us and employ well thought out processes to reduce this impact to the absolute minimum. Our business activities, our operational processes and our decisions are always guided by economic, ecological and social considerations – which is why we support the 17 UN sustainable development goals in our activities.

MEGAlife - the proven solution for more performance and efficiency

MEGAlife maintenance-free roller and conveyor chains not only impress with their sustainability, but also with their high quality and performance. Thanks to their high precision and wear resistance, they are the first choice for numerous demanding applications.

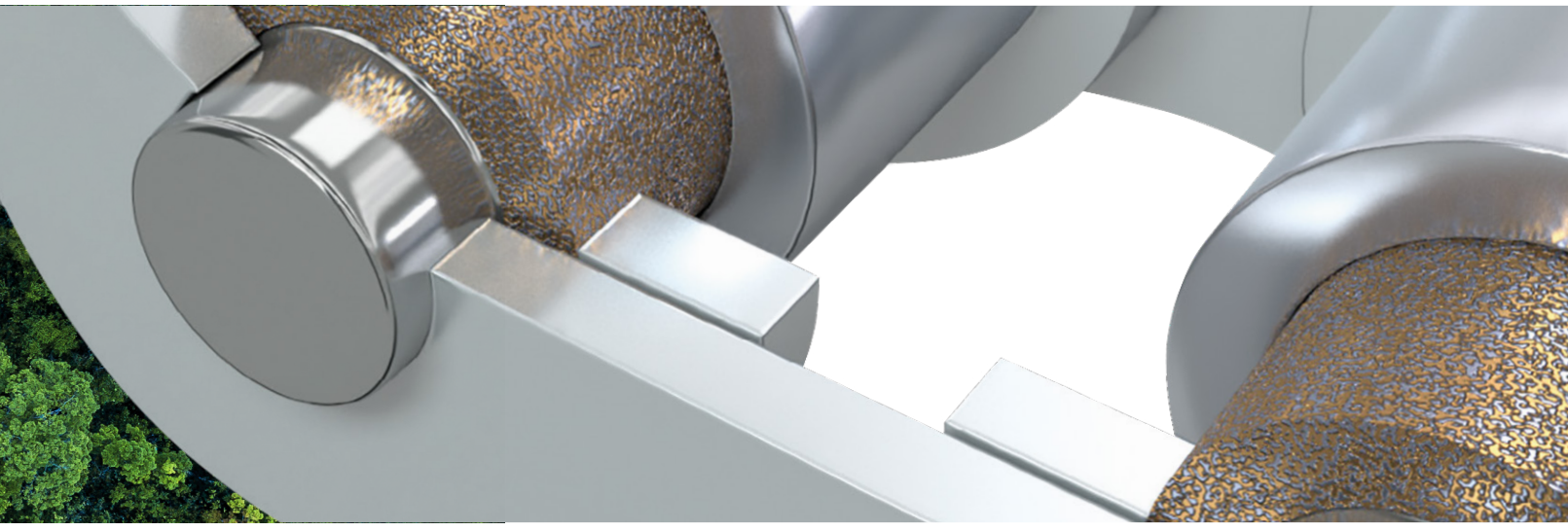
How you can benefit

- Optimum wear resistance – even at high speeds
- Extremely good tensile and fatigue strength
- Exact parallel and synchronous operation
- Ultra-precise positioning
- Coated components for high-quality corrosion protection
- Temperature range from -40°C to +150°C
- Alternative temperature ranges on request
- Very easy to dismantle
- Using MEGAlife chains reduces downtimes and maintenance costs for machines and systems
- MEGAlife chains are clean, dry and environmentally friendly

Our product range

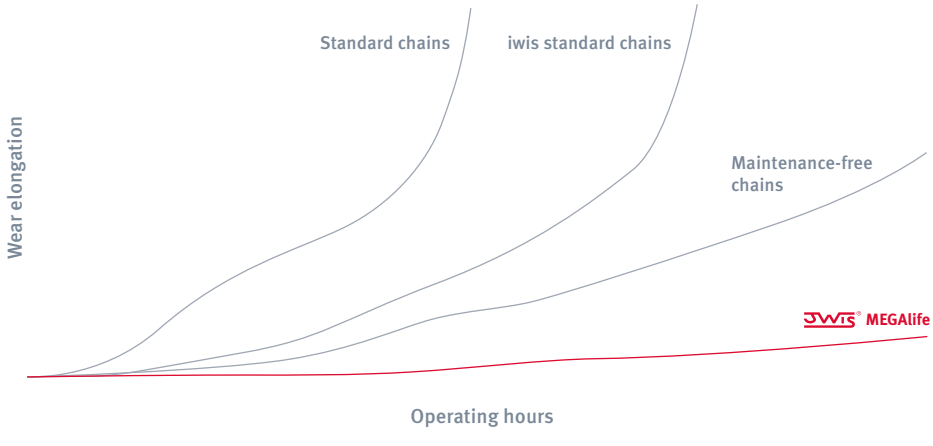
- ISO 606 roller chains
- Roller chains with a variety of attachments
- Roller chains with straight chain links
- Accumulation chains
- Push-pull chains
- Transfer chains
- Pin oven chains
- Grip chains
- Special chains
- Tube transport chains

Virtually the entire range of iwis chains can be manufactured as maintenance-free ML chains. **Contact us!**



High-speed trials without relubrication

(The graph represents the iwis test results)



MEGAlife maintenance-free roller and conveyor chains offer a **considerably longer service life** than conventional low-maintenance or maintenance-free roller chains.

The benefits for you:

- Less down time
- Longer intervals between replacement in machines and systems
- Significantly lower maintenance costs

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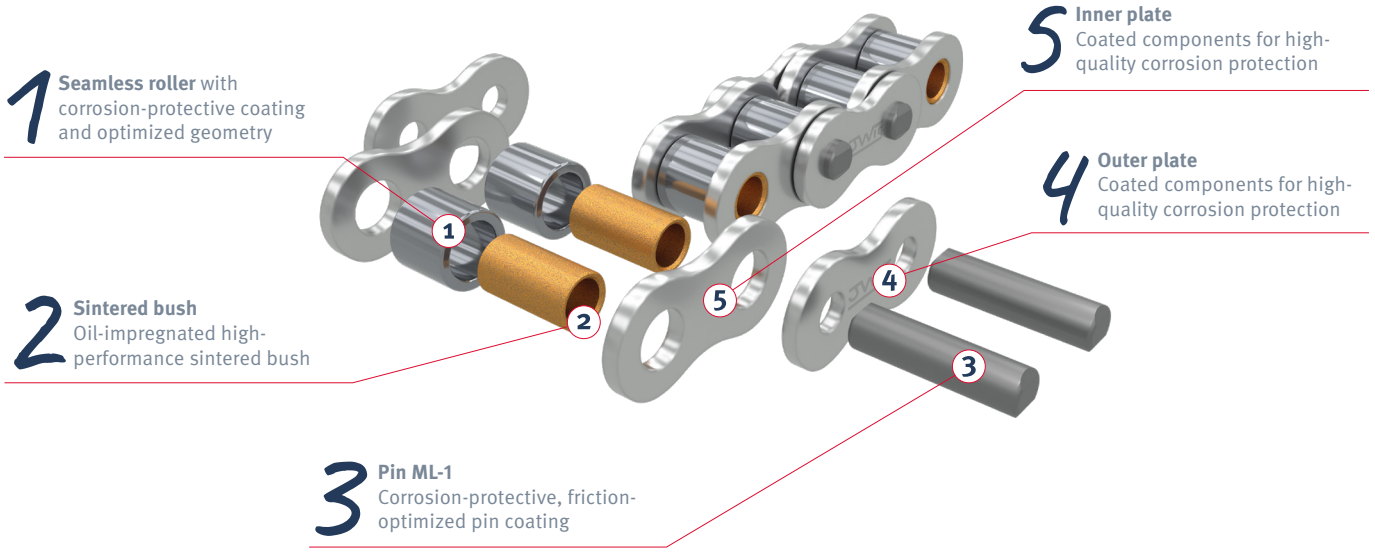
Exceptional service life – MEGAlife maintenance-free chains

The highest possible wear resistance and a low maintenance outlay are crucial to the performance of drive and conveyor chains. To meet these demands, we offer the iwis maintenance-free MEGAlife chains – a premium solution that for the industry in terms of quality.

Maintenance-free MEGAlife chains excel in respect of their tensile and fatigue strength and exceptional service life. Furthermore, the MEGAlife chains require no relubrication and have an operating temperature range of -40 °C to +150 °C. This is achieved with high-performance sintered bushes in combination with specially coated components.

The bushes undergo a special manufacturing process to ensure optimum tribological properties. In conjunction with wear-resistant pins, this chainlink design cuts down friction in the link extremely effectively and reduces wear elongation over an extended period without the need for relubrication. This means that the maintenance outlay for MEGAlife maintenance-free chains is far lower than that for standard roller chains!

Depending on the application, the maintenance-free chains are supplied either dry or with additional initial lubrication.



Premium MEGAlife I chain

- Ideally suited to normal chain applications without relubrication at speeds of up to 3 m/s
- Permanently maintenance-free under certain conditions
- Very easy to dismantle – “easy break”
- Environmentally friendly as minimal quantities of lubricants are used
- For corrosive environments, we recommend additional initial lubrication
- 100 % compatible with standard iwis conveyor chains as a result of using the same original iwis attachments
- Also available as a transfer chain, accumulating chain, gripper chain and many other variants

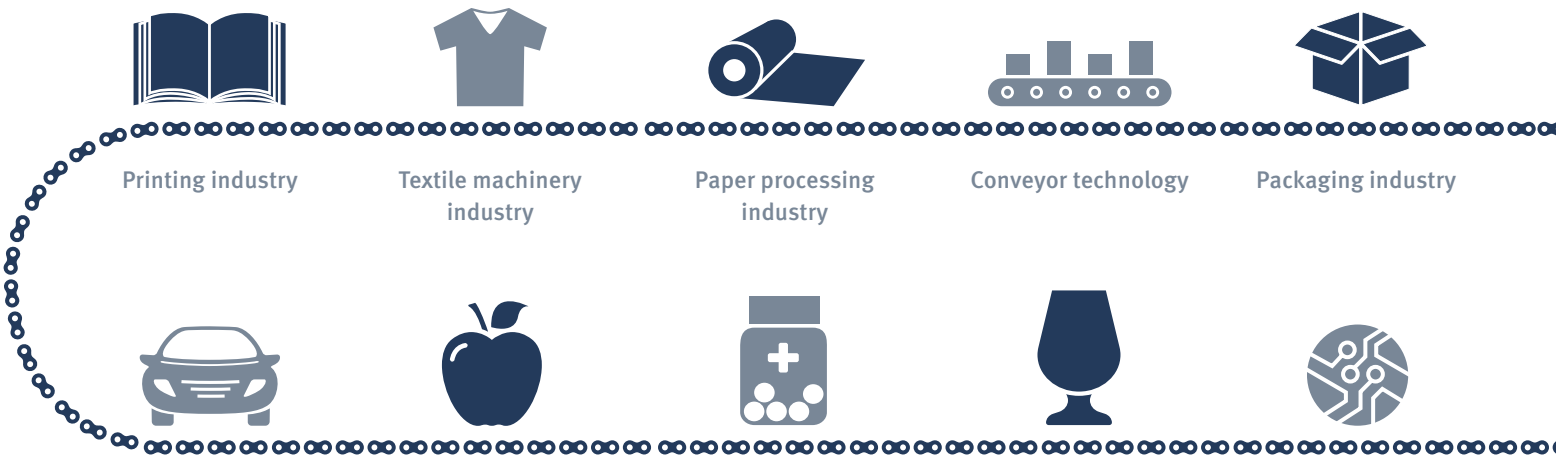
Premium MEGAlife II chain

- The solution for high-speed chain applications, v › 3 m/s, and/or high loads
- MEGAlife II chains are permanently maintenance-free under certain conditions and have a far longer service life
- Greatly improved wear resistance due to a special thermochemical process applied to the pins, resulting in a very high surface hardness
- Significantly longer service life
- Pins and sintered bushes are optimally matched
- Not suitable for corrosive environments
- The ML II is ideally suited as a drive chain
- For demanding applications

Wide range of applications and sectors

MEGAlife maintenance-free roller and conveyor chains deliver extremely high performance and have a multitude of uses. The chains can be used wherever relubrication is impossible or difficult, for example in dry ambient conditions or in applications where access for maintenance work is impeded.

The tried and tested technology of MEGAlife chains makes a persuasive case and they are safer to use, with reduced downtimes, longer intervals between replacements in machines and systems and far lower maintenance costs.



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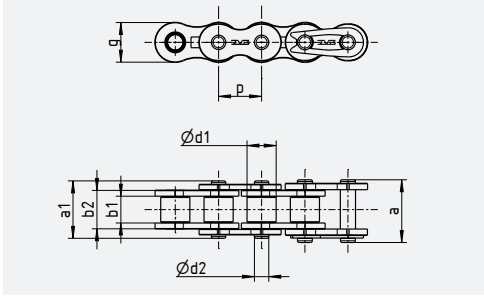
MEGAlife I – Roller Chains, British Standard

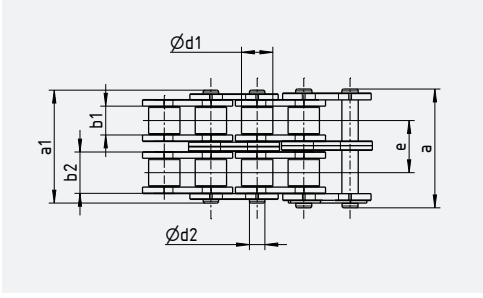
according to ISO 606

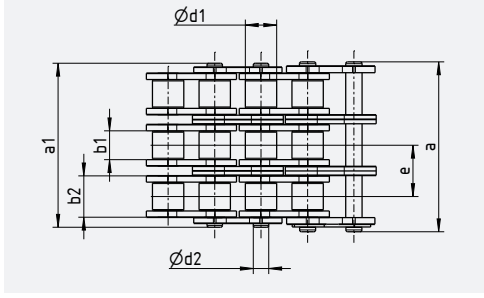
ISO	iwis reference	Pitch p (")	Pitch p (mm)	Ave. tensile strength F_B (N)	Min. tensile strength F_U (N)	Bearing area f (cm^2)	Weight per m q (kg/m)	Inner link b_1 (mm) min.	Inner link b_2 (mm) max.	Inner link g (mm) max.	Outer link a_1 (mm) max. 1)	Outer link a (mm) max. 1)	Roller d_1 (mm) max.	Pin d_2 (mm) max.	Transverse pitch e (mm)	Article No.
Simplex																
06 B-1	G 67 ML*	3/8	9.525	11,000	8,900	0.28	0.41	5.72	8.53	8.20	12.90	14.10	6.35	3.31	–	50033917
08 B-1	L 85 ML	1/2	12.70	22,000	17,800	0.50	0.70	7.75	11.30	11.80	16.90	18.50	8.51	4.45	–	50026256
10 B-1	M 127 ML	5/8	15.875	25,000	22,200	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	28,900	0.89	1.25	11.75	15.62	16.20	22.70	23.60	12.07	5.72	–	50026258
16 B-1	M 1611 ML	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	–	50028923
20 B-1	M 2012 ML	1 1/4	31.75	120,000	95,000	2.92	3.72	19.56	29.1	26.20	41.60	43.30	19.05	10.17	–	50037775
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	31,100	1.00	1.35	7.75	11.30	11.80	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	44,500	1.50	2.00	7.75	11.30	11.80	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

* Also available in 10 m length, 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 %.





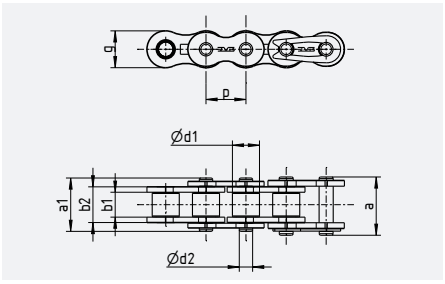


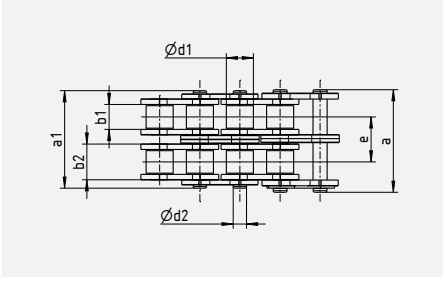
MEGAlife I – Roller Chains, American Standard (ANSI)

according to ISO 606

ISO	iwis reference	Pitch p (")	Pitch p (mm)	Ave. tensile strength F_B (N)	Min. tensile strength F_U (N)	Bearing area f (cm^2)	Weight per m q (kg/m)	Inner link: b_1 (mm) min.	Inner link: b_2 (mm) max.	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)
Simplex															
40-1	L 85 AML	1/2	12.7	17,500	13,900	0.44	0.6	7.94	11.15	12	16.6	17.5	7.95	3.96	–
50-1	M 106 AML	5/8	15.88	29,400	21,800	0.69	1.02	9.4	13.4	15.09	21.8	25.9	10.16	5.09	–
60-1	M 128 AML	3/4	19.05	41,000	31,300	1.06	1.47	12.57	17.75	18	25.6	27.5	11.91	5.96	–
80-1	M 1610 AML	1	25.40	75,600	55,600	1.79	2.7	15.57	22.6	24.12	32.5	34.7	15.88	7.94	–
100-1	M 2012 AML	1.25	31.75	109,300	87,000	2.62	4.24	18.9	27.45	30.17	41.1	45.7	19.05	9.54	–
120-1	M 2416 AML	1.5	38.10	148,800	125,000	3.94	5.62	25.22	36.95	36	51.5	58.1	22.23	11.1	–
Duplex															
50-2	D 106 AML	5/8	15.88	58,700	43,600	1.38	2.04	9.4	13.4	15.09	39.9	44	10.16	5.09	18.11
60-2	D 128 AML	3/4	19.05	80,200	62,600	2.12	2.95	12.57	17.75	18	48.6	50.5	11.91	5.96	22.78
80-2	D 1610 AML	1	25.4	151,200	111,200	3.58	5.25	15.75	22.6	24.12	61.5	64	15.88	7.94	29.29
100-2	D 2012 AML	1.25	31.75	218,500	174,000	5.25	8.48	18.9	27.35	30.17	76.1	81.45	19.05	9.54	35.76
120-2	D 2416 AML	1.5	38.1	297,600	250,000	7.88	11.7	24.75	36.95	36.2	97.1	103.7	22.23	11.1	45.4

[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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MEGAlife I – Roller chains with straight side plates

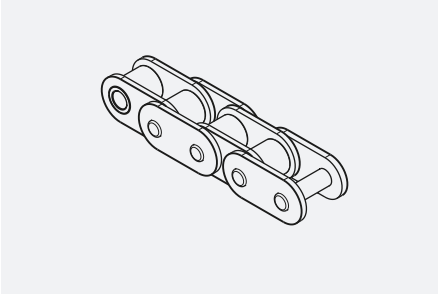
based on iwis roller chains complying with ISO 606

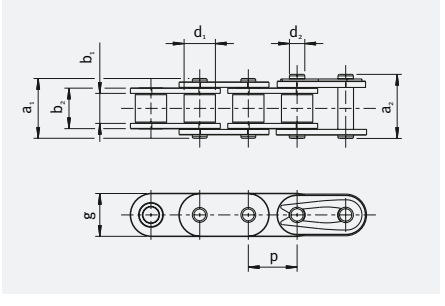
ISO	iwis reference	Pitch p (")	Pitch p (mm)	Ave. tensile strength F_B (N)	Min. tensile strength F_U (N)	Bearing area f (cm²)	Weight per m q (kg/m)	b_1 (mm) min.	b_2 (mm) max.	g (mm) max.	a_1 (mm) max. [1]	a (mm) max. [1]	Roller d_1 (mm) max.	Pin d_2 (mm) max.	Transverse pitch e (mm)	Article No.
Simplex																
08B-1	L 85 ML-GL	1/2	12.70	–	17,800	0.50	0.70	7.75	11.30	12.20	16.90	18.5	8.51	4.45	–	50049011
10 B-1	M 106 ML-GL	5/8	15.875	24,000	22,200	0.67	0.95	9.65	13.28	13.90	19.50	20,90	10.16	5.08	–	50035304
12 B-1	M 127 ML-GL	3/4	19.05	30,000	28,900	0.89	1.30	11.75	15.62	16.10	22.70	23,60	12.07	5.72	–	50037351
16B-1	M 1611ML-GL	1	25.40	77,000	60,000	2.10	2.70	17.02	25.45	20.65	36.10	36.90	15.88	8.28	–	50048583
Duplex																
08B-2	D 85 ML-GL	1/2	12.70	–	31,100	1	1.35	7.75	11.30	12.20	30.80	32.40	8.51	4.45	13.92	50046481
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-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
16B-2	D 1611 ML-GL	1	25.40	151,000	106,000	4.21	5.40	17.02	25.45	20.65	68	68.80	15.88	8.28	31.88	50048584

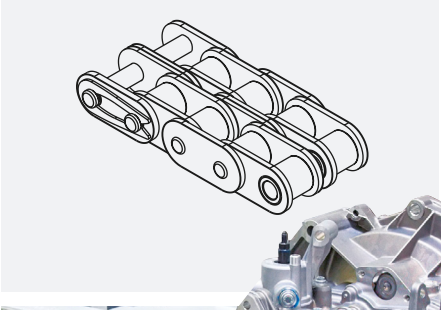
[1] Differing dimensions for cranked links. If cranked links are fitted, it should be noted that the breaking strength of the chain my be reduced by approximately 20 %.

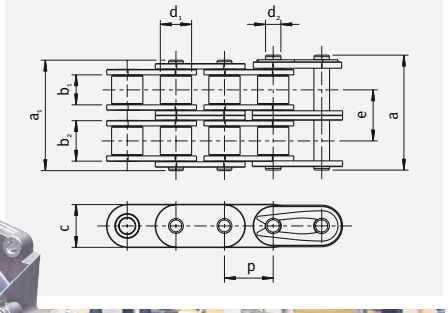
HIGHLIGHTS

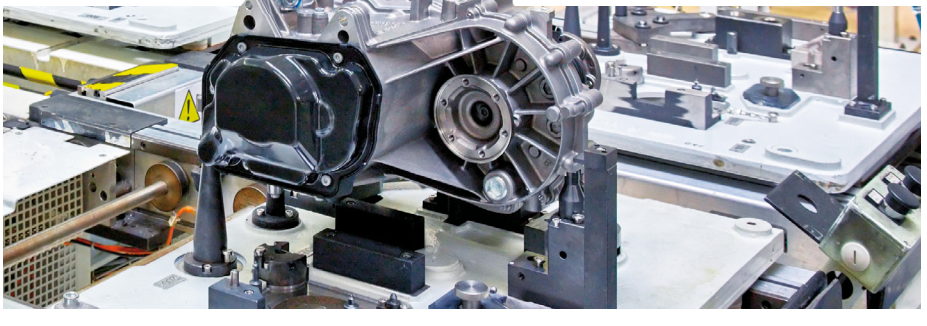
- Optimum solution for conveyors and transport systems
- Compared to competition products, MEGAlife chains maintain significantly higher rigidity and less wear elongation during their entire service life
- Extremely high availability of conveyor systems, as the customary shutdowns for regular maintenance are no longer necessary
- Guaranteed long service life and cleanliness of conveyor systems in the automotive, logistics and other maintenance-free industries









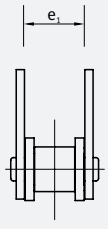


MEGAlife I – Conveyor chains with straight attachment plates

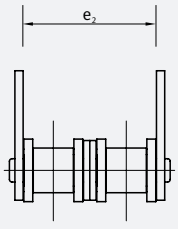
based on iwis roller chains complying with ISO 606

ISO	iwis reference	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)
Plate No. 102.1															
08 B-1	L 85 ML [1]	1/2	12.70	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	25.40	24.6	36.6	8.2	25.9	57.8	89.7	10.4	–	36.2	3.0	6	8.2
Plate No. 103.1 and 103.2															
08 B-1	L 85 ML [1]	1/2	12.70	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	25.40	28.45	41.55	8.2	25.9	57.8	89.7	10.35	25.4	47.2	3.0	6	8.2

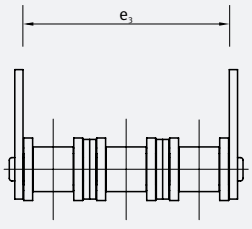
[1] Also for the corresponding duplex and triplex chains [2] Nominal pitch



Simplex chains



Duplex chains



Triplex chains

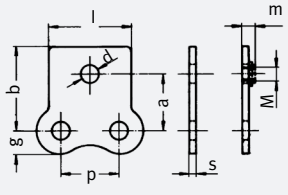
STRAIGHT ATTACHMENT PLATES

The versions shown are also available as snap-on and outer links for final assembly and repair.

Straight attachments can be fitted on one or both sides of every outer link or at longer intervals.

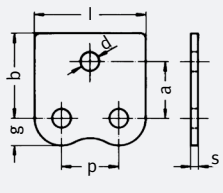
Additional conveyor chains and threaded inserts on request.

Design 102.1

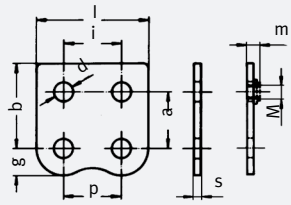


102.31 with threaded insert*

Design 103.1



Design 103.2



103.32 with threaded insert*

* Available on request

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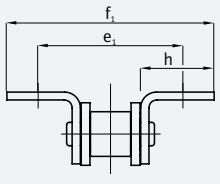
MEGAlife I – Conveyor chains with bent attachment plates

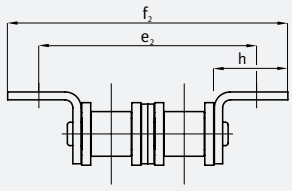
based on iwis roller chains complying with ISO 606

ISO	iwis reference	p (")	p (mm)	c (mm)	d (mm)	e1 (mm)	Simplex chains f1 (mm)	e2 (mm)	Duplex chains f2 (mm)	e3 (mm)	Triplex chains f3 (mm)	g (mm)	h (mm)	i (mm)	l (mm)	s (mm)	M (mm)	Threaded insert m max. (mm)
Plate No. 202.1																		
08 B-1	L 85 ML [1]	1/2	12.70	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	25.40	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
Plate No. 203.1 and 203.2																		
08 B-1	L 85 ML [1] [2]	1/2	12.70	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	25.40	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

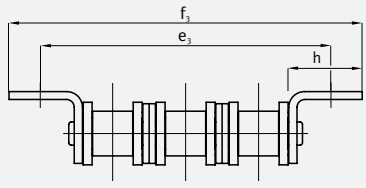
Conveyor chains D 1611 ML and TR 1611 ML on request [1] Also for corresponding duplex and triplex chains
[2] Assembly of bent attachments also possible inward over the chain except when fitted onboth sides to D 85 ML, D 106 ML and D 127 ML
[3] Nominal pitch



Simplex chains



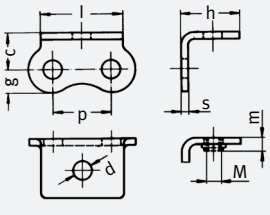
Duplex chains

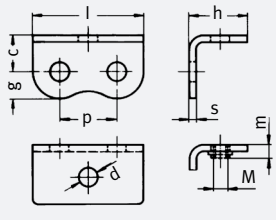


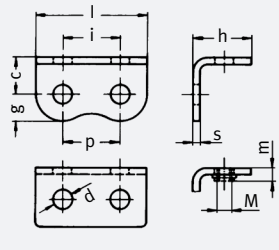
Triplex chains

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.







* Available on request.

MEGAlife I – Conveyor chains with extended pins

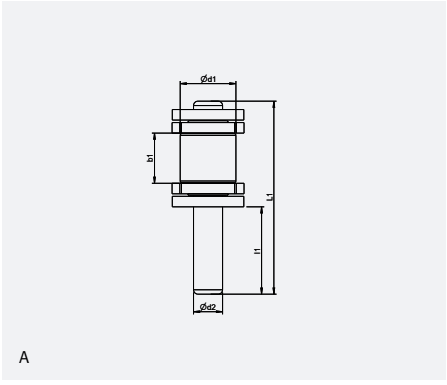
based on iwis chains complying with ISO 606

ISO	iwis reference [1]	Pitch [2] p (")	Pitch [2] p (mm)	Innerwidth b_1 (mm)	Roller Ø d_1 (mm)	Pin Ø 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 design 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

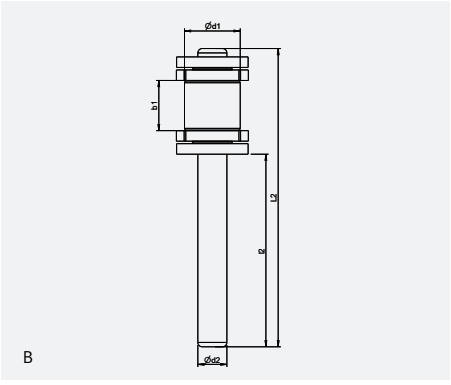
[1] For multiple chains on request. [2] Nominal pitch. Other pin lengths and shapes on request.

EXTENDED PINS

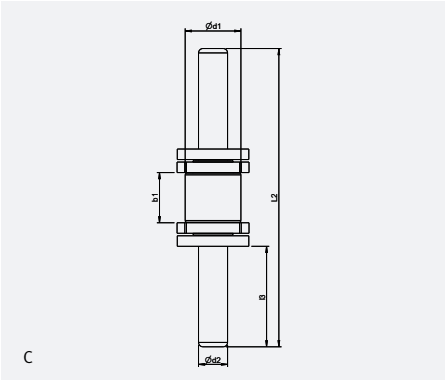
The types illustrated are also available as connecting links and outer links for final assembly and repair (C only as outer link).



A



B



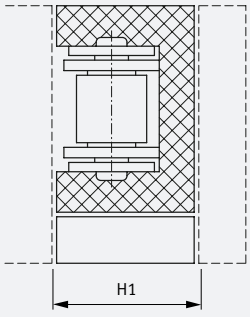
C

MEGAlife I – Transfer Chains

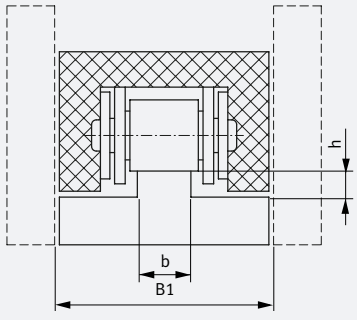
based on iwis roller chains complying with ISO 606

iwis reference	B_1 (mm)	b (mm)	h (mm)	H_1 (mm)	Article No. (5 m)
L 85 TF ML-1	20	7.5	3.1	15.4	50027317
M 106 TF ML-1	25	9.5	3.1	17.7	50036409
M 127 TF ML-1	30	11.3	2.9	20.0	50032663

vertical



horizontal



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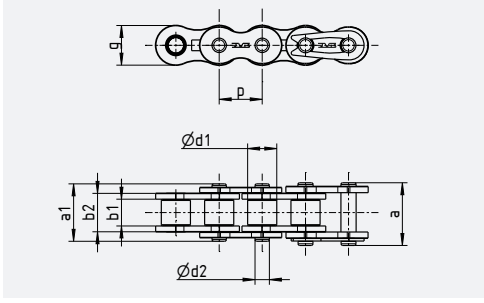
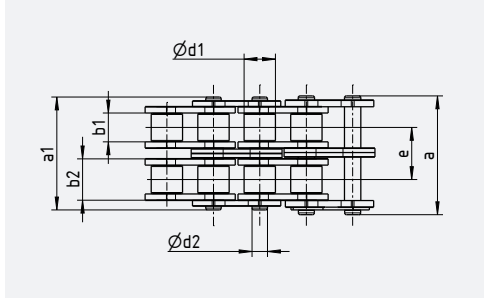
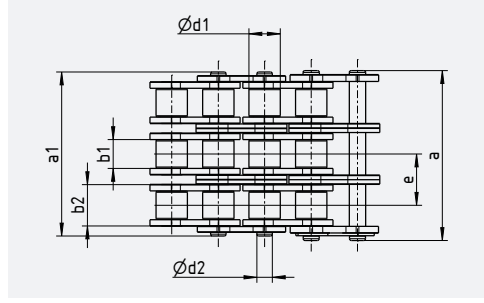
MEGAlife II – Roller Chains
according to ISO 606

ISO	iwis reference	Pitch p (")	Pitch p (mm)	Ave. tensile strength F_B (N)	Min. tensile strength F_U (N)	Bearing area f (cm²)	Weight per m q (kg/m)	Inner link: b_1 (mm) min.	Inner link: b_2 (mm) max.	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 pitche (mm)	5 m versions: Article No.
Simplex																
06 B-1	G 67 ML-2*	3/8	9.525	11,000	8,900	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	17,800	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	25,000	22,200	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	30,000	28,900	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	2.72	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	3.72	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	31,100	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 ISO 606, American Standard																
08 A-1 ANSI 40	L 85 AML-2	1/2	12.70	17,500	13,900	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	31,300	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	55,600	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

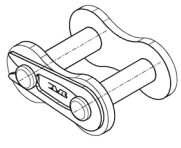




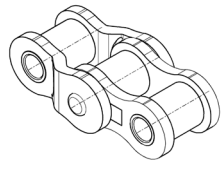


INDIVIDUAL COMPONENTS AND CONNECTING LINKS

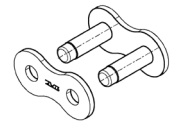
Standard designation B
Inner link



Standard designation E
Connecting link with spring clip



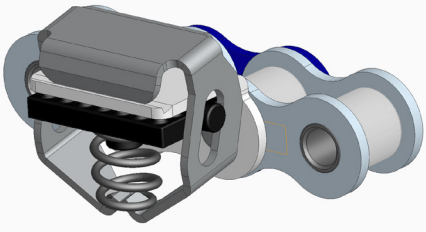
Standard designation C
Double cranked link

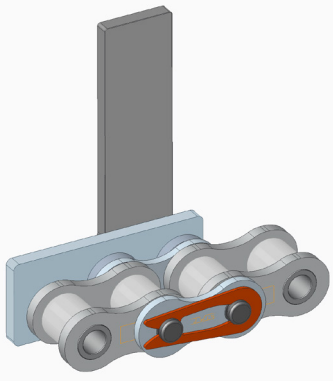


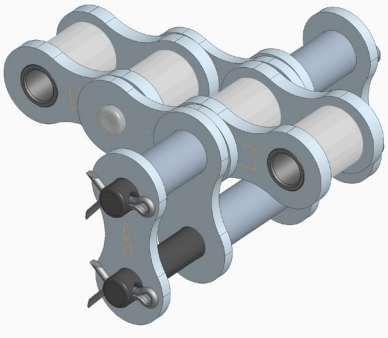
Standard designation A
Outer link

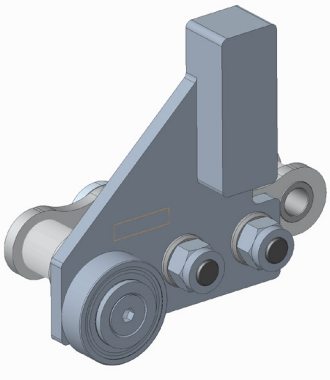
MEGAlife Conveyor Chains

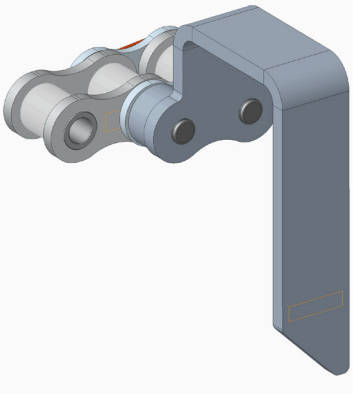
Examples of special chain designs

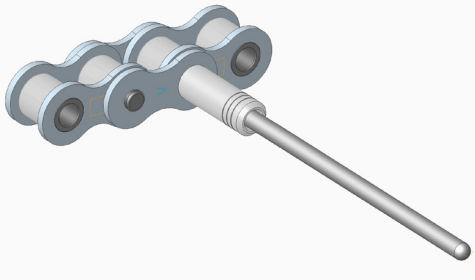












iwis
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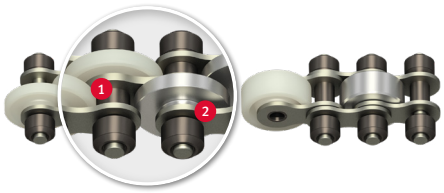
MEGAlife Maintenance-free Accumulation Chains

More efficiency and sustainability



PROBLEM/INITIAL SITUATION

- Lubrication is not at all or only partly possible
- Clean and dry surroundings required
- Difficult/obstructed lubrication passage
- Contamination of installation and material to be conveyed due to chain lubrication

ADVANTAGES

- Excellent wear resistance – also under extreme environmental conditions
- Easy to dismantle
- Environmentally-friendly due to lubrication free chain surface
- Chains suitable for clean rooms

HIGHLIGHTS

1. **Special bearing design with sintered metal bushes**
2. Nickel-plated plates and pins, with ecofriendly, **lubricant-free surfaces** ensure reduced maintenance costs and less downtime for your application

OUR SOLUTION

iwis accumulation chains with nickel-plated plates and pins, low-friction sintered metal rollers and a special bearing design – a technical innovation. **The first genuinely maintenance accumulation chains with low-friction rollers on the market.**

Types:

- VR: with offset accumulation rollers
- OS: standard version without washers
- M: standard version with washers

TECHNICAL FEATURES

- Dry chain surface and accumulation rollers
- Corrosion protected
- Accumulation rollers optional as plastic material or steel (stainless steel or nickel-plated)
- Temperature range for use –40 °C up to +150 °C (for accumulation rollers made of steel)
- iwis MEGAlife accumulation chains are available in the new iwis or classic design in 1/2” and 3/4” pitch
- Accumulation rollers made of sintered metal reduce friction. This leads to reduction of driving power and strain on the chain

AREAS OF APPLICATION

- Electronic industry and circuit board manufacture
- Packaging and food industry
- Conveyor-equipment
- Wood, glass and ceramic industry
- Medical technology

...and of course in all areas where relubrication is not at all or only partly possible.

EFFICIENT

Comparison of frictional force

Chain with iwis low-friction rollers

Chain with classic idler rollers

LONG SERVICE LIFE

Service life comparison (accumulation chains without relubrication)

iwis MEGAlife maintenance-free accumulation chains

Std. competitor chains

ECONOMICAL

Comparison of friction coefficient

iwis MEGAlife chains

Standard competitor chains

30 % more efficient with iwis low-friction rollers

MEGAlife Accumulation Chains

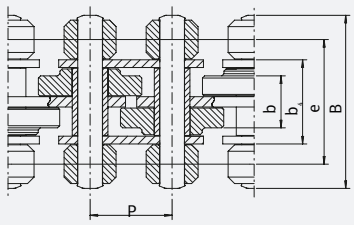
Range of products

Design VR: Version with offset accumulation rollers*

iwis reference	Pitch p (mm)	Chain width B (mm)	b (mm)	b_4 (mm)	e (mm)	Diameter accumulation rollers (mm)	Loading capacity per roller (kg)	Weight (kg/m)
L 88 SFS-ML	12.70	27	9.2	14.50	18.70	16.00	8	1.40
M 120 SFK-ML	19.05	40	11.70	19.55	29.0	24.0 / 26.0 / 27.0 / 28.0	10	1.8
M 120 SFK-ML	19.05	45	11.70	19.55	31.5	24.0 / 26.0 / 27.0 / 28.0	10	1.8
M 120 SFS-ML	19.05	40	11.70	19.55	29.0	24.0 / 26.0 / 27.0 / 28.0	15	2.8
M 120 SFS-ML	19.05	45	11.70	19.55	31.5	24.0 / 26.0 / 27.0 / 28.0	15	2.8

* Also available with optional **V2A** accumulation rollers

Design VR: offset fitted rollers



SFK – with plastic accumulation rollers
SFS – with hardened steel accumulation rollers

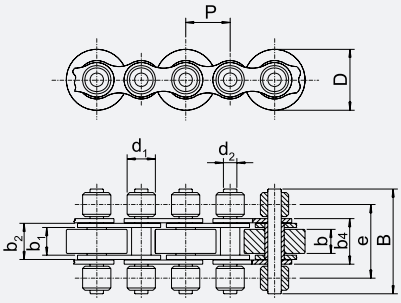
Design OS: Standard version without washers

iwis reference	Pitch p (mm)	Chain width B (mm)	e (mm)	b_1 (mm)	b_2 (mm) max.	b_4 (mm) max.	Width b (mm)	Diameter accumulation rollers (mm)			Loading capacity per roller (kg)	Diameter Roller d_1 (mm)	Diameter Pin d_2 (mm)	Weight (kg/m)
L 85 SFK-ML	12.7	27	18.7	7.75	11.3	14.5	7,5	16.0	17.0	18.0	6	8.52	4.45	1.2
L 85 SFS-ML	12.7	27	18.7	7.75	11.3	14.5	7,5	16.0	17.0	–	8	8.52	4.45	1.8
M 127 SFK-ML	19.05	40	27.5	11.75	15.62	19.55	11,0	24.0	26.0	28.0	10	12.07	5.72	2.3
M 127 SFS-ML	19.05	40	27.5	11.75	15.62	19.55	11,0	24.0	26.0	28.0	15	12.07	5.72	3.1

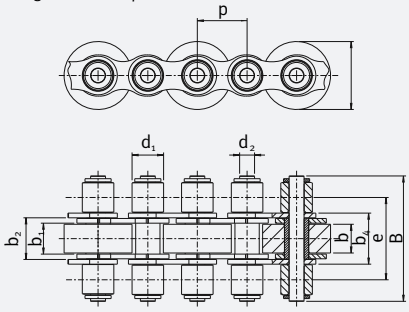
Design M: Standard version with side-mounted washers

M 127 SFK-ML	19.05	40	27.5	11.75	15.62	19.55	11.0	24.0	26.0	28.0	10	12.07	5.72	2.3
M 127 SFK-ML	19.05	43	29.0	11.75	15.62	19.55	11.0	24.0	26.0	28.0	10	12.07	5.72	2.3
M 127 SFK-ML	19.05	48	31.5	11.75	15.62	19.55	11.0	24.0	26.0	28.0	10	12.07	5.72	2.3
M 127 SFS-ML	19.05	40	27.5	11.75	15.62	19.55	11.0	24.0	26.0	28.0	15	12.07	5.72	3.1
M 127 SFS-ML	19.05	43	29.0	11.75	15.62	19.55	11.0	24.0	26.0	28.0	15	12.07	5.72	3.1
M 127 SFS-ML	19.05	48	31.5	11.75	15.62	19.55	11.0	24.0	26.0	28.0	15	12.07	5.72	3.1

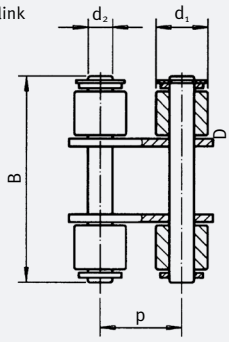
Design OS without of washers



Design M normal pitch



Connecting link



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iwis Services: close to our customers

ON-SITE ADVICE AND EXPERT EVALUATION

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

TECHNICAL SUPPORT

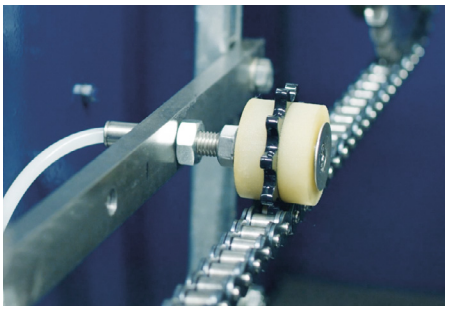
- Calculation of chain drives (www.iwis.com/chain-design)
- Service life tests and benchmarking
- Fatigue strength, tensile strength and metallographic analyses
- 3D-printing models
- Technical documentation

INDIVIDUAL SOLUTIONS

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

CHAIN CONDITION MONITORING

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

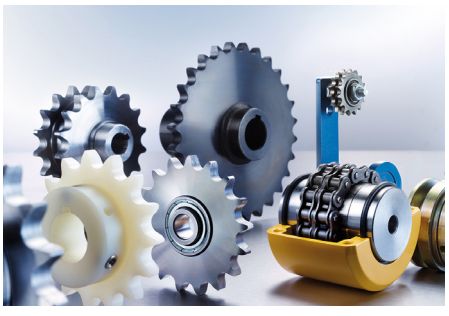


LUBRICATION SYSTEM

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

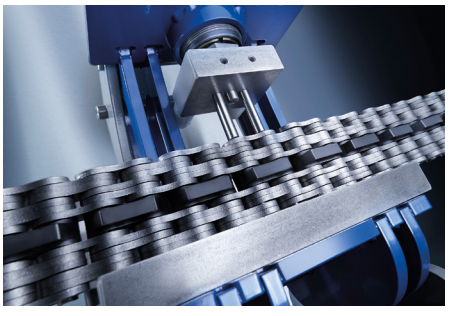
ONLINE TOOLS

- CAD drawings
- ChainFinder
- Chain Configurator



DRIVE COMPONENTS

- Sprockets
- Plate wheels
- Chain tensioners



iwiTOOLS

- Chain breaking tools
- Chain pullers
- Pin extractors

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wir bewegen die welt

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