



# iwis ketten

Joh. Winklhofer & Söhne GmbH & Co. KG

## bewegen die welt



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# M

## EGAlife

MAINTENANCE FREE CHAINS



# MEGAlife – The maintenance free IWIS chain

## Problem/Initial situation → IWIS solution

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

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.

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MEGALIFE

## Highlights

- Excellent wear resistance – even at high speeds and loads – where conventional maintenance free chains stretch
- Extremely high levels of fatigue and breaking strenght
- Easy to dismantle
- Reduced overall maintenance cost
- Less production still-time
- Environmentally-friendly due to absence of excess lubrication

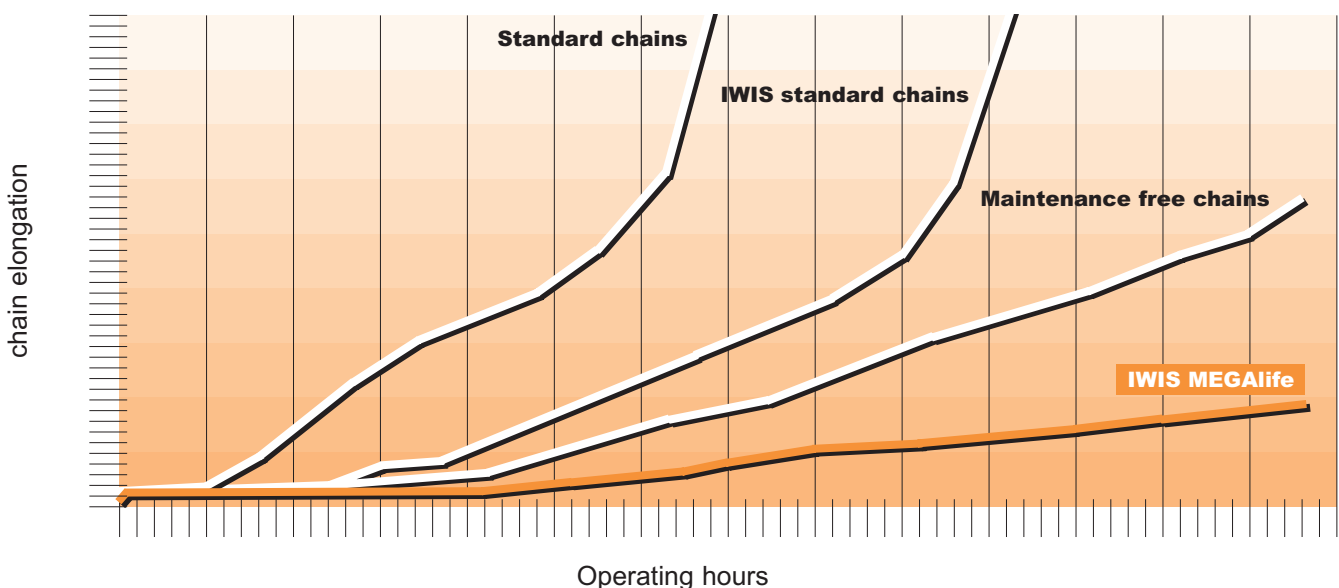
## Technical features

- Available dry or with additional special lubricant
- Corrosion resistant
- Available as roller chain according to DIN 8187/ISO 606 for driving purposes or as conveyor chain with attachments and extended components

## Industrial uses/ 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 post installation lubrication is not at all or only partly possible



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

# MEGALife roller chains

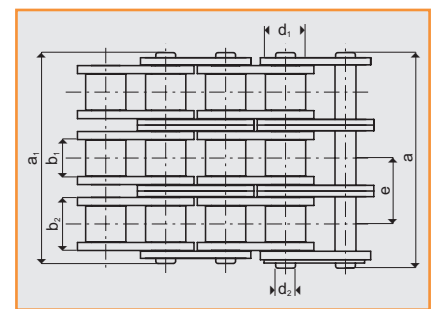
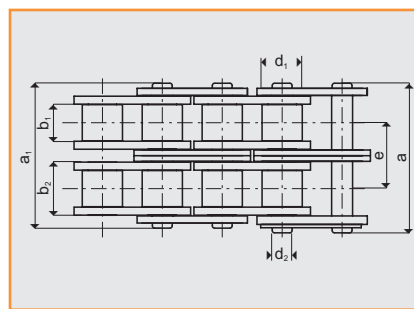
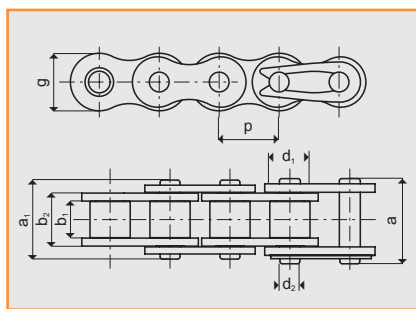
Complying with DIN 8187-1, ISO 606:1994

	DIN/ISO no.	Commercial designation pitch x inner w	Pitch p (mm)	IWIS (N) med.	Standard (N) min.	Breaking strength $F_b$ Bearing area f (cm <sup>2</sup> )	Weight per m D (kg/m)	$b_1$ (mm) min.	$b_2$ (mm) max.	Inner link g (mm) max.	$a_1$ (mm) max. 1)	Outer link a (mm) max. 1)	Roller $d_1$ (mm) max.	Pin $d_2$ (mm) max.	e (mm)
<b>Simple</b>															
L 85 ML	08 B-1	$1/2 \times 5/16"$	12,70	22.000	18.000	0,50	0,70	7,75	11,30	12,20	16,90	18,50	8,51	4,45	
M 106 ML	10 B-1	$5/8 \times 3/8"$	15,875	27.500	22.400	0,67	0,95	9,65	13,28	14,40	19,50	20,90	10,16	5,08	
M 127 ML	12 B-1	$3/4 \times 7/16"$	19,05	34.000	29.000	0,89	1,25	11,75	15,62	16,40	22,70	23,60	12,07	5,72	
<b>Double</b>															
D 85 ML	08 B-2	$1/2 \times 5/16"$	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
D 106 ML	10 B-2	$5/8 \times 3/8"$	15,875	56.000	44.500	1,34	1,85	9,65	13,28	14,40	36,00	37,50	10,16	5,08	16,59
D 127 ML	12 B-2	$3/4 \times 7/16"$	19,05	68.000	57.800	1,78	2,50	11,75	15,62	16,40	42,10	43,00	12,07	5,72	19,46
<b>Triple</b>															
Tr 85 ML	08 B-3	$1/2 \times 5/16"$	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
Tr 106 ML	10 B-3	$5/8 \times 3/8"$	15,875	80.000	66.700	2,02	2,80	9,65	13,28	14,40	52,50	54,00	10,16	5,08	16,59
Tr 127 ML	12 B-3	$3/4 \times 7/16"$	19,05	100.000	86.700	2,68	3,80	11,75	15,62	16,40	61,50	62,50	12,07	5,72	19,46

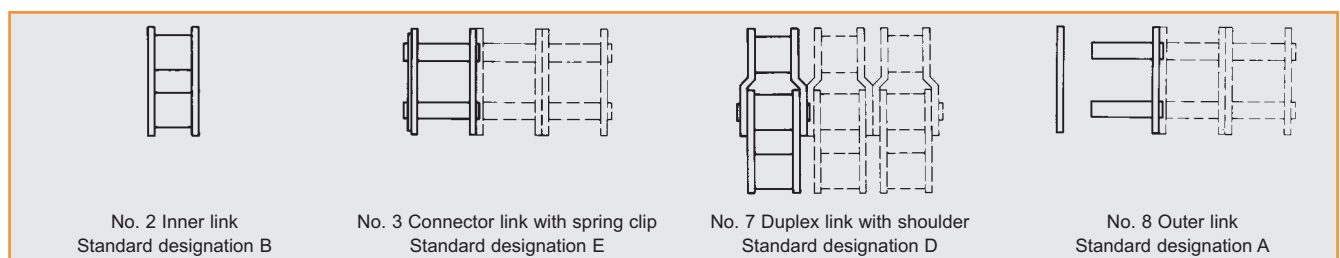
1) Differing dimensions for cranked links

If cranked links are fitted, it should be noted that the breaking strength

of the chain may be reduced by approximately 20 %.



## Individual components and connecting links



# MEGALife conveyor chains with straight attachment

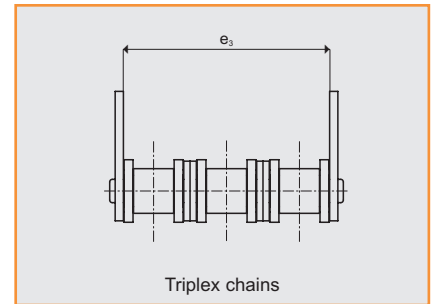
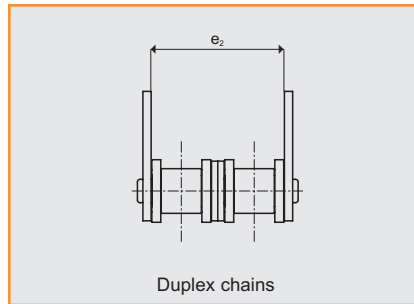
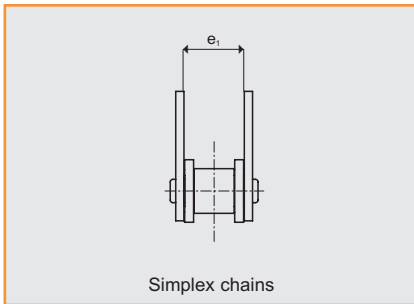
based on IWIS roller chains complying with DIN 8187

## Conveyor chain straight attachment

Shape	IWIS chain type	Pitch <sup>2)</sup>		a (mm)	b (mm)	d (mm)	Simplex chains e <sub>1</sub> (mm)	Duplex chains e <sub>2</sub> (mm)	Triplex chains e <sub>3</sub> (mm)	g (mm)	l (mm)	l (mm)	s (mm)	M (mm)	Threaded insert m max (mm)
		P (inches)	P (mm)												
102.1	L 85 ML <sup>1)</sup>	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
	M 106 ML <sup>1)</sup>	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
	M 127 ML <sup>1)</sup>	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
103.1 and 103.2	L 85 ML <sup>1)</sup>	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
	M 106 ML <sup>1)</sup>	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
	M 127 ML <sup>1)</sup>	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

<sup>1)</sup> Also for the corresponding duplex and triplex chains

<sup>2)</sup> Nominal pitch

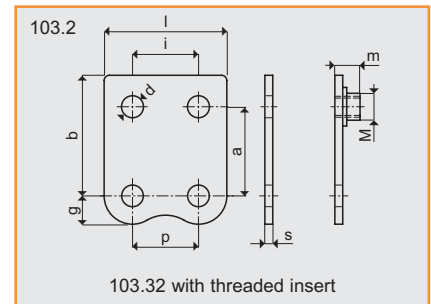
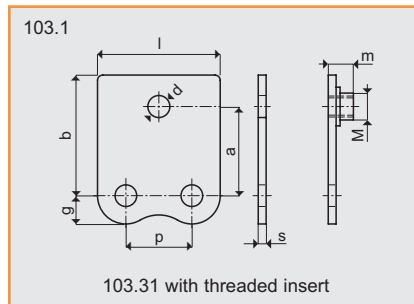
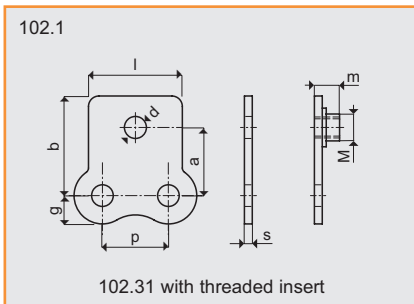


### Straight attachments

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 insert on request.



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# MEGALife conveyor chains with bent attachments

based on IWIS roller chains complying with DIN 8187

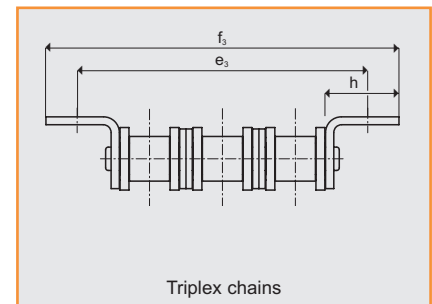
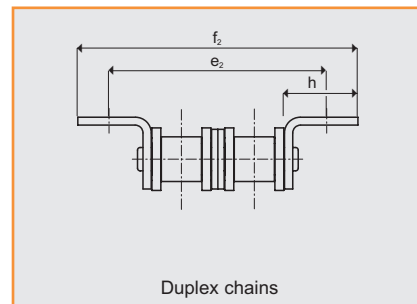
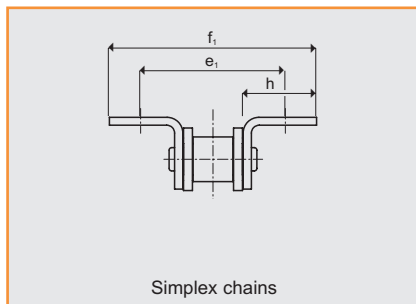
## Conveyor chain bent attachment

Shape	IWIS chain type	Pitch <sup>3)</sup>		Simplex chains			Duplex chains			Triplex chains			Threaded insert					
		P (inches)	P (mm)	c (mm)	d (mm)	e <sub>1</sub> (mm)	f <sub>1</sub> (mm)	e <sub>2</sub> (mm)	f <sub>2</sub> (mm)	e <sub>3</sub> (mm)	f <sub>3</sub> (mm)	g (mm)	h (mm)	l (mm)	l (mm)	s (mm)	M (mm)	m max (mm)
202.1	L 85 ML <sup>1)</sup>	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
	M 106 ML <sup>1)</sup>	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
	M 127 ML <sup>1)</sup>	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
203.1 and 203.2	L 85 ML <sup>1) 2)</sup>	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
	M 106 ML <sup>1) 2)</sup>	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
	M 127 ML <sup>1) 2)</sup>	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

<sup>1)</sup> Also for the corresponding duplex and triplex chains

<sup>2)</sup> 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

<sup>3)</sup> Nominal pitch

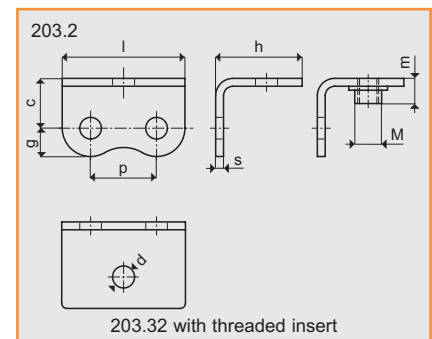
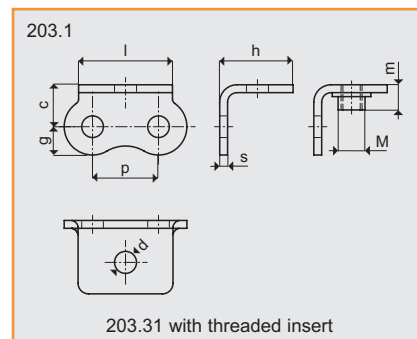
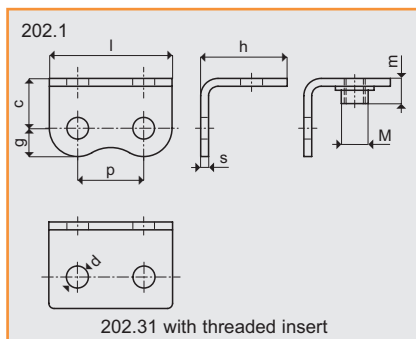


### Bent attachments

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 insert on request.



# MEGALife conveyor chains with extended pin

based on IWIS roller chains complying with DIN 8187

## Conveyor chain

Pin Type	IWIS chain type <sup>1)</sup>	Pitch <sup>2)</sup>		Inner width b <sub>1</sub> (mm)	Roll diameter d <sub>1</sub> (mm)	Pin diameter d <sub>2</sub> (mm)	L <sub>1</sub> (mm)	Design A		Design B and C	
		P (inches)	P (mm)					L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)
A, B, C	L 85 ML <sup>1)</sup>	1/2	12,7	7,75	8,51	4,45	25,5	10,0	40,5	25,0	13,0
	M 106 ML <sup>1)</sup>	5/8	15,875	9,65	10,16	5,08	30,0	12,0	48,0	30,0	15,5
	M 127 ML <sup>1)</sup>	3/4	19,05	11,75	12,07	5,72	36,0	15,0	51,0	30,0	15,5

- 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 connector links and outer links for final assembly and repair (C only as outer link).

