

Lube Free Roller Chain

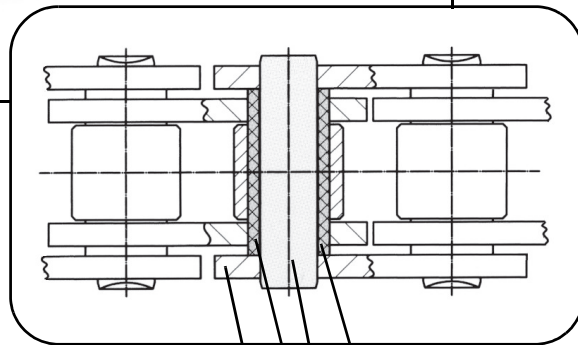
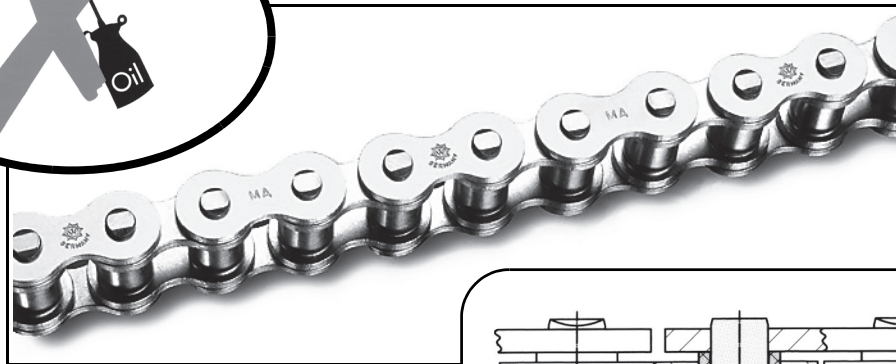
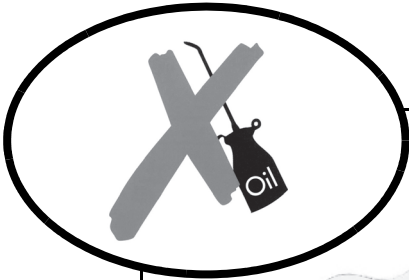


Marathon Series

Our MA-Series Marathon Maintenance Free Chain requires no further lubrication and may provide up to 35 times greater life as compared to standard roller chains as well as up to 5 times greater service life with other maintenance free chains. The ultra high strength oil impregnated sintered bushings fit tightly to side plates sealing the chain from

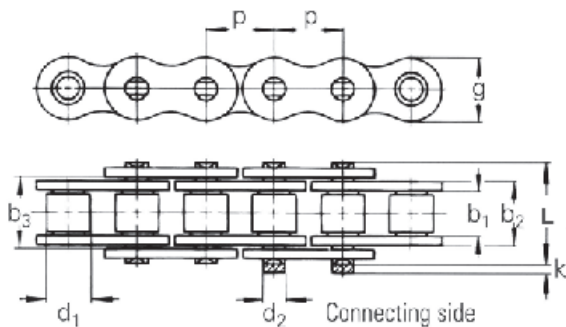
possible contaminants that can wear pins and bushings. The pins are specially hardened and coated to help provide the extended life. These chains fit standard sprockets. A stainless steel version is also available.

Marathon chain is made in Germany.

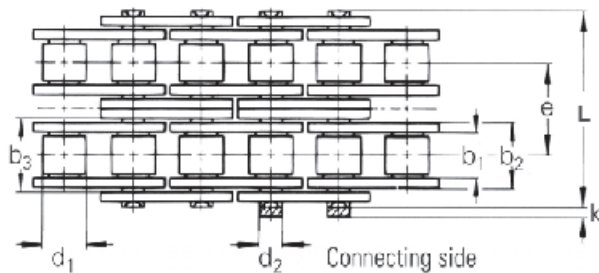


- Sealed joints
- Non-wearing pins
- Ultra-high strength, oil-impregnated sintered bushing
- Corrosion-protected zinc galvanized plates and rollers

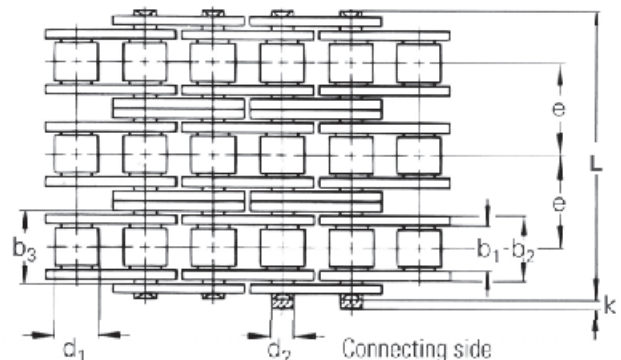
Simplex chains



Duplex chains



Triplex chains



ANSI Lube Free Roller Chain

Marathon Series



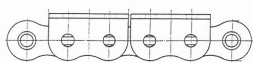
	Part No.	Pitch	Inner Width	Inner Link Width	Roller Dia.	Pin Dia.	Plate Depth	Transverse Pitch	Conn Pin Length	Project. over Conn Link	Breaking Load	Approx. Wt.
		p in	b ₁ in	b ₂ in	d ₁ in	d ₂ in	g in	e in	L in	k in	lbs	lb/ft
SIMPLEX	MA-40-1 RIV	1/2	0.312	0.439	0.312	0.156	0.472	—	0.701	0.15	3750	0.41
	MA-50-1 RIV	5/8	0.375	0.543	0.400	0.200	0.591	—	0.858	0.16	6800	0.67
	MA-60-1 RIV	3/4	0.500	0.697	0.468	0.234	0.709	—	1.059	0.18	9000	1.05
	MA-80-1 RIV	1	0.625	0.886	0.625	0.312	0.949	—	1.319	0.21	15700	1.57
	MA-100-1 RIV	1-1/4	0.750	1.079	0.75	0.375	1.185	—	1.618	0.24	21000	2.53
	MA-120-1 RIV	1-1/2	1	1.39	0.875	0.437	1.425	—	2	0.26	31600	3.6
DUPLEX	MA-40-2 RIV	1/2	0.312	0.439	0.312	0.156	0.472	0.566	1.27	0.15	6750	0.82
	MA-50-2 RIV	5/8	0.375	0.543	0.400	0.200	0.591	0.713	1.57	0.16	14000	1.2
	MA-60-2 RIV	3/4	0.500	0.697	0.468	0.234	0.709	0.898	1.96	0.18	17300	2.1
	MA-80-2 RIV	1	0.625	0.886	0.625	0.312	0.949	1.152	2.47	0.21	30700	2.8
	MA-100-2 RIV	1-1/4	0.750	1.079	0.75	0.375	1.185	1.408	3.03	0.24	46600	5.1
	MA-120-2 RIV	1-1/2	1	1.39	0.875	0.437	1.425	1.788	3.79	0.26	65900	7.2
TRIPLEX	MA-40-3 RIV	1/2	0.312	0.439	0.312	0.156	0.472	0.566	1.839	0.15	9350	1.2
	MA-50-3 RIV	5/8	0.375	0.543	0.400	0.200	0.591	0.713	2.28	0.16	20000	2
	MA-60-3 RIV	3/4	0.500	0.697	0.468	0.234	0.709	0.898	2.858	0.18	23850	3.1
	MA-80-3 RIV	1	0.625	0.886	0.625	0.312	0.949	1.152	3.61	0.21	43850	5
	MA-100-3 RIV	1-1/4	0.750	1.079	0.75	0.375	1.185	1.408	4.449	0.24	69300	7.5
	MA-120-3 RIV	1-1/2	1	1.39	0.875	0.437	1.425	1.788	5.551	0.26	93200	10.7

Metric Lube Free Roller Chain

Marathon Series

	Part No.	Pitch p		Inner Width	Inner Link Width	Roller Dia.	Pin Dia.	Plate Depth	Transverse Pitch	Conn Pin Length	Project. over Conn Link	Breaking Load	Approx. Wt.
		mm	in	b ₁ mm	b ₂ mm	d ₁ mm	d ₂ mm	g mm	e mm	L mm	k mm	N	kg/m
SIMPLEX	MA-06B-1 RIV	9.525	3/8	5.72	8.53	6.35	3.28	8.2	—	13.5	3.3	9600	0.4
	MA-08B-1 RIV	12.7	1/2	7.75	11.3	8.51	4.45	11.8	—	17	3.9	18600	0.7
	MA-10B-1 RIV	15.875	5/8	9.65	13.28	10.16	5.08	14.7	—	19.6	4.1	27000	0.9
	MA-12B-1 RIV	19.05	3/4	11.68	15.62	12.07	5.72	16.1	—	22.7	4.6	31000	1.2
	MA-16B-1 RIV	25.4	1	17.02	25.4	15.88	8.28	21	—	36.1	5.4	72000	2.7
	MA-20B-1 RIV	31.75	1-1/4	19.56	29	19.05	10.19	26.4	—	43.2	6.1	105000	3.5
	MA-24B-1 RIV	38.1	1-1/2	25.4	37.9	25.4	14.63	33.4	—	53.4	6.6	180000	6.8
DUPLEX	MA-06B-2 RIV	9.525	3/8	5.72	8.53	6.35	3.28	8.2	10.24	23.8	3.3	17400	0.8
	MA-08B-2 RIV	12.7	1/2	7.75	11.3	8.51	4.45	11.8	13.92	31	3.9	37000	1.4
	MA-10B-2 RIV	15.875	5/8	9.65	13.28	10.16	5.08	14.7	16.59	36.2	4.1	54000	1.8
	MA-12B-2 RIV	19.05	3/4	11.68	15.62	12.07	5.72	16.1	19.46	42.2	4.6	63000	2.4
	MA-16B-2 RIV	25.4	1	17.02	25.4	15.88	8.28	21	31.88	68	5.4	140000	5.3
	MA-20B-2 RIV	31.75	1-1/4	19.56	29	19.05	10.19	26.4	36.45	79	6.1	210000	7.3
	MA-24B-2 RIV	38.1	1-1/2	25.4	37.9	25.4	14.63	33.4	43.36	101	6.6	360000	13.4
TRIPLEX	MA-06B-3 RIV	9.525	3/8	5.72	8.53	6.35	3.28	8.2	10.24	34	3.3	24900	1.2
	MA-08B-3 RIV	12.7	1/2	7.75	11.3	8.51	4.45	11.8	13.92	44.9	3.9	56000	2
	MA-10B-3 RIV	15.875	5/8	9.65	13.28	10.16	5.08	14.7	16.59	52.8	4.1	80000	2.7
	MA-12B-3 RIV	19.05	3/4	11.68	15.62	12.07	5.72	16.1	19.46	61.7	4.6	94000	3.1
	MA-16B-3 RIV	25.4	1	17.02	25.4	15.88	8.28	21	31.88	99.9	5.4	211000	7.5
	MA-20B-3 RIV	31.75	1-1/4	19.56	29	19.05	10.19	26.4	36.45	116	6.1	300000	10.6
	MA-24B-3 RIV	38.1	1-1/2	25.4	37.9	25.4	14.63	33.4	43.36	150	6.6	523000	20

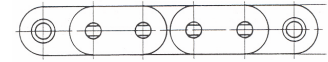
Other Marathon Series Lube Free Chain



MA-Series Attachment

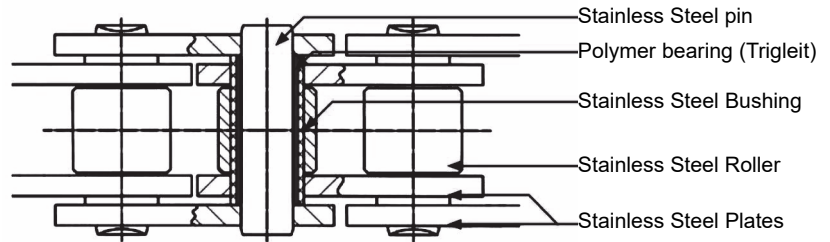
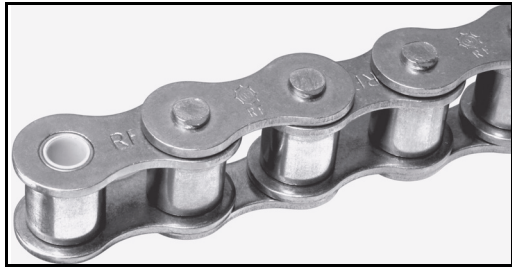


MA-Series Double Pitch



MA-Series Straight Links

Lube Free - Stainless Roller Chain Marathon Chain



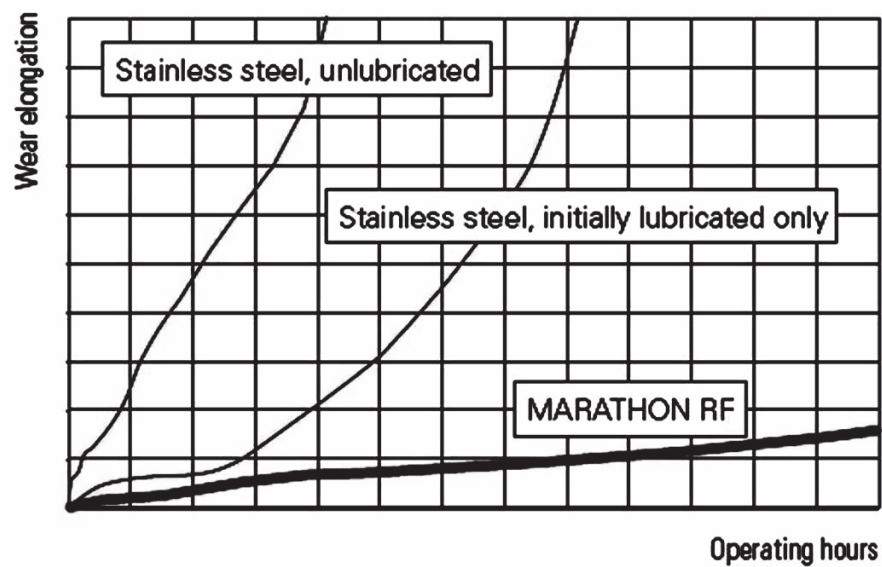
High performance polymer bearings (TRIGLEIT) allow operation of stainless steel chains without re-lubrication!

- Durable and low-friction polymer bearing (TRIGLEIT)
- All other chain components made of stainless steel grades
- Maximum chain speed $v = 2.5$ m/s
- Working temperatures -30°C to $+60^{\circ}\text{C}$ (-22°F to 140°F), Higher temperatures on request
- Chain dimensions according to DIN 8187: Stainless steel sprockets also available from stock
- No re-lubrication required
- Re-lubrication with mineral oils possible (no ester oils)
- Can also be supplied with extended pins, straight attachments, bent attachments and custom designs
- Information on chemical resistance available on request



Typical Applications:

- Packing equipment
- Chemical processing machines
- Pharmaceutical equipment
- Textile machinery
- Food processing
- Sanitation recycling
- Electrical equipment processing

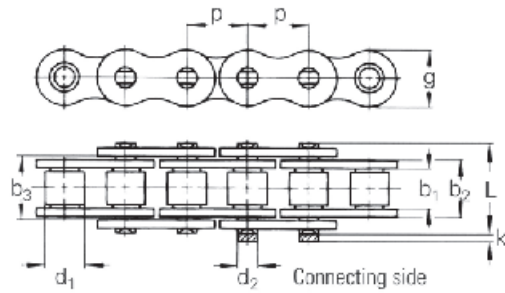


Lube Free - Stainless Roller Chain

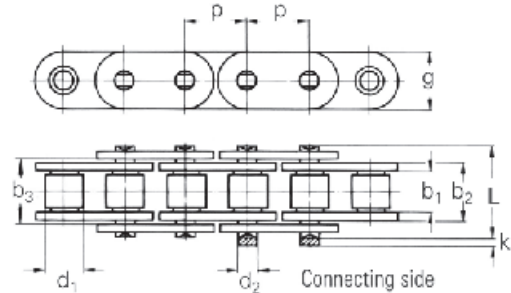


Marathon Series

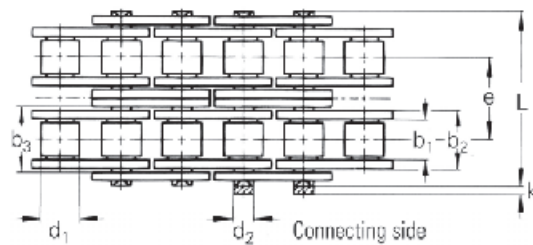
Simplex chains



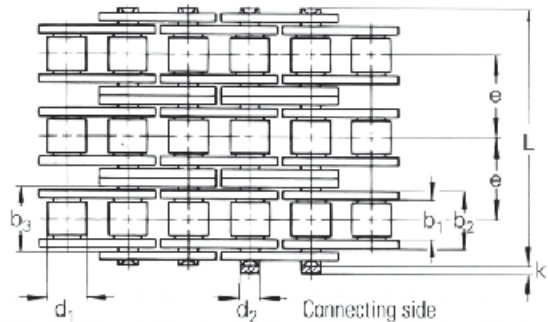
Simplex chains (Type GL)



Duplex chains



Triplex chains



No. 4
Inner Link



No. 7
Riveting
Link



No. 11
Spring Clip
Conn. Link



No. 111
Cattered
Conn. Link



No. 12
Offset Link
(Half Link)



No. 15
Double Offset
Link

Part No.	Pitch		Dimensions										Tensile Strength	Wt. kg	Connecting Links
	P		b ₁ min mm	b ₂ max mm	b ₃ min mm	d ₁ max mm	d ₂ mm	e mm	g max mm	k max mm	L max mm	Bearing Area f cm ²	F _B min kN		
	mm	in													
MA-08B-1SS	12.7	1/2	7.75	11.30	11.43	8.51	4.45	—	11.8	3.9	17.0	0.50	12.00	0.70	4, 7, 11, 12, 15
MA-10B-1SS	15.875	5/8	9.65	13.28	13.41	10.16	5.08	—	14.7	4.1	19.6	0.67	14.50	0.91	4, 7, 11, 12, 15
MA-12B-1SS	19.05	3/4	11.68	15.62	15.75	12.07	5.72	—	16.1	1.6	22.7	0.89	18.50	1.18	4, 7, 11, 12, 15
MA-16B-1SS	25.4	1	17.02	25.40	25.60	15.88	8.28	—	21.0	5.4	36.1	2.10	40.00	2.50	4, 7, 11, 12
MA-08B-2SS	12.7	1/2	7.75	11.30	11.43	8.51	4.45	13.92	11.8	3.9	31.0	1.01	20.40	1.36	4, 7, 11, 12, 15
MA-10B-2SS	15.875	5/8	9.65	13.28	13.41	10.16	5.08	16.59	14.7	4.1	36.2	1.34	24.65	1.82	4, 7, 11, 12, 15
MA-12B-2SS	19.05	3/4	11.68	15.62	15.75	12.07	5.72	19.46	16.1	4.6	42.2	1.79	31.45	2.38	4, 7, 11, 12, 15
MA-16B-2SS	25.4	1	17.02	25.40	25.60	15.88	8.28	31.88	21.0	5.4	68.0	4.21	68.00	5.10	4, 7, 11, 12
MA-08B-3SS	12.7	1/2	7.75	11.30	11.43	8.51	4.45	13.92	11.8	3.9	44.9	1.51	32.50	2.01	4, 7, 11, 12, 15
MA-10B-3SS	15.875	5/8	9.65	13.28	13.41	10.16	5.08	16.59	14.7	4.1	52.8	2.02	39.00	2.70	4, 7, 11, 12, 15
MA-12B-3SS	19.05	3/4	11.68	15.62	15.75	12.07	5.72	19.46	16.1	4.6	61.7	2.68	49.50	3.12	4, 7, 11, 12, 15
MA-16B-3SS	25.4	1	17.02	25.40	25.60	15.88	8.28	31.88	21.0	5.4	99.9	6.31	108.00	7.50	4, 7, 11, 12

Note: Can also be supplied with attachments, straight plates (type series GL) and as double pitch roller chains (dimensions according to DIN 8181) Stainless Sprockets available on request. Made in Germany.