Leaf Chains

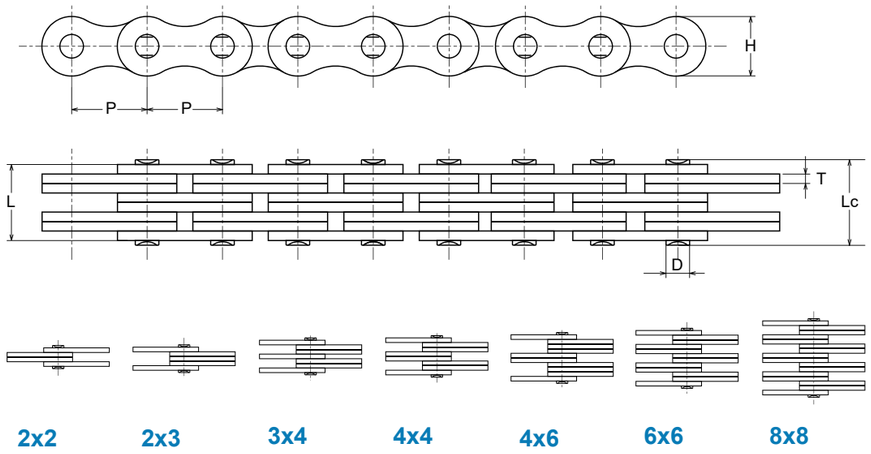
The simplest of steel chains, consisting only of link plates and pins. This chain has a greater tensile strength than roller chains and run over sheaves rather than sprockets.

Suitable for hoisting, hanging, balancing, dragging or motion transmitting applications. Leaf chains are often used as counterweight chains for machine tools, elevator and oven doors, fork lift truck masts, spinning frames and similar lifting or balancing applications. Plates are connected by pins and hold the tension loaded on the chain.

Our range

- AL Series
- LL / EL Series
- BL / LH Series
- FL Series
- Galle Chain
- Rollerless

AL series (American Light) chain (manufactured to the ANSI B29.9 standard) is constructed from American standard roller chain components. AL series chain is lightweight chain used for light load lifting applications and machine tools. Plate configuration and thickness are the same as ANSI roller chain. Pin diameter is almost the same as ANSI roller chain.



ANSI Chain No.	Pitch P mm	Lacing	Plate Depth h2 min mm	Plate Thickness T mm	Pin Diameter d2 max mm	Pin Length L max mm	Tensile Strength		Weight Per Metre q = kg/m
							Ultimate Q min mm	Average Q0 mm	
AL422	12.70	2 x 2	10.40	1.50	3.96	7.90	14.10	16.90	0.39
AL444		4 x 4				14.40	28.20	35.20	0.74
AL466		6 x 6				20.50	42.30	52.70	1.10
AL522	15.88	2 x 2	12.80	2.06	5.08	10.30	22.00	27.50	0.61
AL544		4 x 4				18.90	44.00	55.00	1.19
AL566		6 x 6				26.90	66.00	82.50	1.79
AL622	19.05	2 x 2	15.60	2.44	5.94	12.40	37.00	44.40	0.86
AL644		4 x 4				22.70	64.00	76.80	1.69
AL666		6 x 6				32.40	101.00	121.20	2.52
AL822	25.40	2 x 2	20.50	3.26	7.92	16.00	56.70	68.60	1.54
AL844		4 x 4				29.40	113.40	135.60	3.00
AL866		6 x 6				42.50	170.00	202.30	4.46
AL1022	31.75	2 x 2	25.60	4.00	9.53	19.60	88.50	107.10	2.37
AL1044		4 x 4				35.90	177.00	203.60	4.68
AL1066		6 x 6				52.30	265.00	315.80	7.00
AL1222	38.10	2 x 2	30.50	4.80	11.10	24.30	127.00	151.10	3.65
AL1244		4 x 4				43.80	254.00	299.70	7.05
AL1266		6 x 6				63.00	381.00	426.30	10.44
AL1422	44.45	2 x 2	36.40	5.65	12.70	28.07	151.23	182.37	4.79
AL1444		4 x 4				51.30	372.70	413.60	10.34
AL1466		6 x 6				74.56	559.00	620.40	15.16
AL1622	50.80	2 x 2	41.60	6.45	14.27	32.94	191.26	231.13	5.98
AL1644		4 x 4				58.06	471.00	522.80	12.98
AL1666		6 x 6				84.46	706.00	783.60	19.41

Every effort has been taken to ensure that the data listed in this catalogue is correct.
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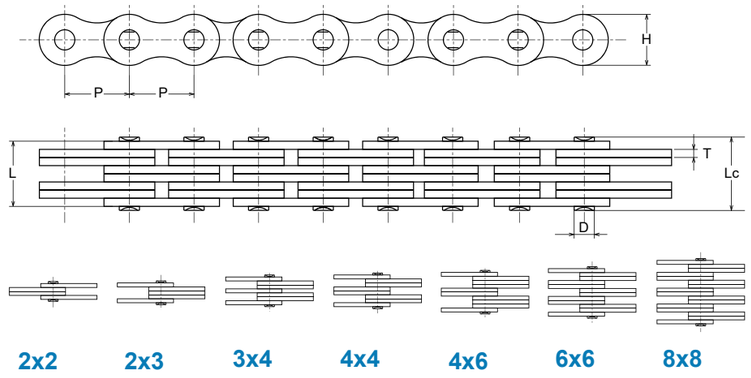
LL / EL series (European Light – Leaf Light) chain, manufactured according to ISO4347, DIN8152 and NFE26107, is constructed from roller chain components to European standard. Like AL series chain, EL-LL series chain is a lightweight chain used for light load lifting applications and machine tools.



LL0822/EL0422 - LL2088/EL1088 Size Chart (mm)

ISO/DIN Chain No.	ANSI Chain No.	Pitch P	Lancing	Plate Thickness		Pin Diameter	Pin Length		Ultimate Tensile Strength min kN	Average Tensile Strength kN	Weight Per Metre kg/m
				H max	T max	D max	L max	Lc max			
LL0822	EL0422	12.7	2X2	10.60	1.30	4.45	7.6	9.6	17.8	21.5	0.40
LL0844	EL0444		4X4				13.0	15.0	31.1	36.2	0.80
LL0866	EL0466		6X6				18.2	20.2	44.5	51.2	1.20
LL0888	EL0488		8X8				23.5	25.5	62.2	72.6	1.35
LL1022	EL0522	15.875	2X2	13.70	1.60	5.08	9.2	11.2	22.3	25.6	0.50
LL1044	EL0544		4X4				15.8	17.8	44.5	53.2	1.00
LL1066	EL0566		6X6				22.1	24.1	66.7	78.3	1.50
LL1088	EL0588		8X8				28.8	30.8	89.0	100.3	2.20
LL1222	EL0622	19.05	2X2	16.00	1.85	5.72	10.4	12.9	28.9	35.2	0.70
LL1244	EL0644		4X4				17.9	20.4	57.8	68.0	1.30
LL1266	EL0666		6X6				25.4	27.9	86.7	98.3	2.00
LL1288	EL0688		8X8				32.9	35.4	115.6	135.0	2.88
LL1622	EL0822	25.4	2X2	21.00	3.10	8.28	17.2	20.2	58.0	68.0	1.50
LL1644	EL0844		4X4				29.6	32.6	144.0	166.3	3.00
LL1666	EL0866		6X6				42.4	45.4	200.0	232.8	4.40
LL1688	EL0888		8X8				55.4	58.4	288.0	333.3	5.80
LL2022	EL1022	31.75	2X2	26.40	3.70	10.19	20..1	23.6	95.0	110.8	2.30
LL2044	EL1044		4X4				33.8	37.3	95.0	220.5	4.40
LL2066	EL1066		6X6				50.1	53.6	285.0	325.6	6.60
LL2088	EL1088		8X8				65.4	68.9	380.0	436.2	8.80

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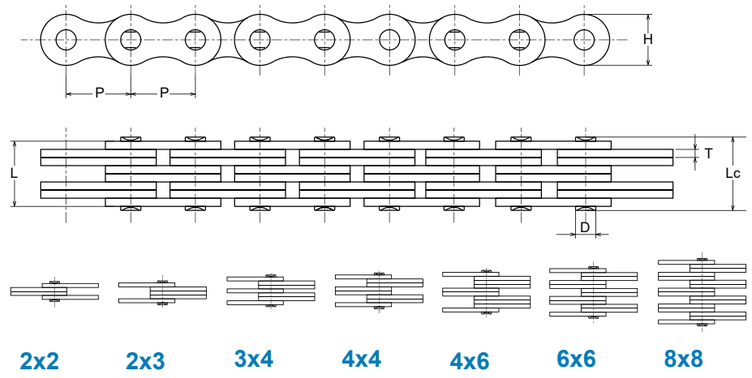
Leaf Chains
LL / EL Series Leaf Chain
TRANSDRIVE® DRIVE PERFORMANCE

LL / EL series (European Light – Leaf Light) chain, manufactured according to ISO4347, DIN8152 and NFE26107, is constructed from roller chain components to European standard. Like AL series chain, EL-LL series chain is a lightweight chain used for light load lifting applications and machine tools.



LL2422/EL1222 - LL4888/EL2488 Size Chart (mm)

ISO/DIN Chain No.	ANSI Chain No.	Pitch P	Lancing	Plate Thickness		Pin Diameter	Pin Length		Ultimate Tensile Strength min kN	Average Tensile Strength kN	Weight Per Metre kg/m
				H max	T max	D max	L max	Lc max			
LL2422	EL1222	38.1	2X2	33.40	5.00	14.63	28.4	33.4	170.0	196.3	4.40
LL2444	EL1244		4X4				46.3	51.3	340.0	380.5	8.50
LL2466	EL1266		6X6				66.4	71.4	510.0	576.8	12.50
LL2488	EL1288		8X8				86.6	91.6	680.0	776.2	17.00
LL2822	EL1422	44.45	2X2	37.08	6.00	15.90	32.2	37.7	200.0	226.2	5.40
LL2844	EL1444		4X4				56.4	61.9	400.0	448.1	10.50
LL2866	EL1466		6X6				80.6	86.1	600.0	675.8	15.50
LL2888	EL1488		8X8				105.2	110.7	800.0	893.8	20.00
LL3222	EL1622	50.8	2X2	42.00	6.00	17.81	33.2	39.2	260.0	298.2	6.20
LL3244	EL1644		4X4				57.4	63.4	520.0	582.5	12.10
LL3266	EL1666		6X6				81.6	87.6	780.0	875.5	18.00
LL3288	EL1688		8X8				105.0	110.0	360.0	432.0	10.33
LL4022	EL2022	63.5	2X2	52.76	8.00	22.89	42.2	48.2	360.0	432.0	10.33
LL4044	EL2044		4X4				74.4	80.4	780.0	936.0	20.03
LL4066	EL2066		6X6				106.6	112.6	1080.0	1300.0	30.05
LL4088	EL2088		8X8				140.0	146.0	1440.0	1730.0	39.13
LL4822	EL2422	76.20	2X2	63.88	10.00	29.24	54.6	64.6	560.0	670.0	18.52
LL4844	EL2444		4X4				92.6	102.6	1120.0	1344.0	35.73
LL4866	EL2466		6X6				133.4	143.4	1680.0	2016.0	53.05
LL4888	EL2488		8X8				174.2	184.2	2240.0	2688.0	70.44

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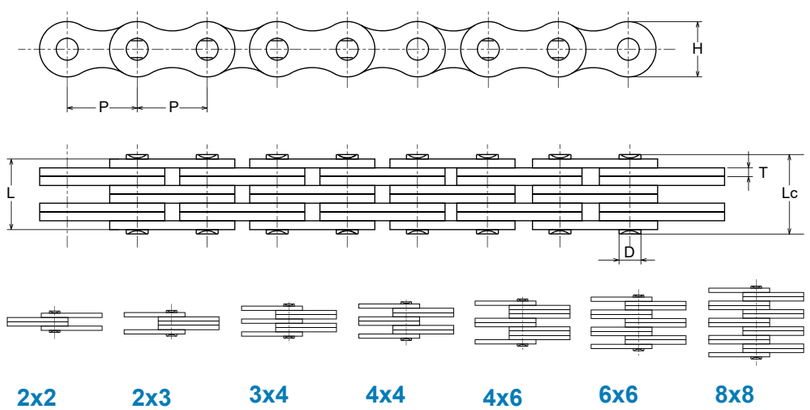
BL / LH Series (Leaf Heavy) leaf chains consist of link plates which are thicker and larger in contour than the AL Series link plates of the same pitch. The link plates have the same thickness as the link plates of the next larger pitch size in ANSI roller chains. The pins have the same diameter as those of ANSI roller chains of the next larger pitch.



LH0822/BL422 - LH1288/BL688 Size Chart (mm)

ANSI Chain No.	ISO Chain No.	Pitch P	Lacing	Plate Thickness		Pin Diameter D max	Pin Length		Ultimate Tensile Strength min kN	Average Tensile Strength kN	Weight Per Metre kg/m
				H max	T max		L max	Lc max			
LH0822	BL422	12.7	2X2	12.07	2.08	5.09	11.05	13.05	22.2	28.2	0.64
LH0823	BL423		2X3				13.16	15.16	22.2	28.2	0.80
LH0834	BL434		3X4				17.40	19.40	33.4	42.3	1.12
LH0844	BL444		4X4				19.51	21.51	44.5	58.0	1.28
LH0846	BL446		4X6				23.75	25.75	44.5	58.0	1.60
LH0866	BL466		6X6				27.99	29.99	66.7	82.6	1.92
LH0888	BL488		8X8				36.45	38.45	89.0	110.5	2.56
LH1022	BL522	15.875	2X2	15.09	2.44	5.96	12.90	15.40	33.4	45.2	0.88
LH1023	BL523		2X3				15.37	17.87	33.4	45.2	1.10
LH1034	BL534		3X4				20.32	22.82	48.9	66.8	1.50
LH1044	BL544		4X4				22.78	25.28	66.7	86.8	1.80
LH1046	BL546		4X6				27.74	30.24	66.7	86.5	2.20
LH1066	BL566		6X6				32.69	35.19	100.1	125.5	2.65
LH1088	BL588		8X8				42.57	45.07	133.4	170.5	3.50
LH1222	BL622	19.05	2X2	18.11	3.3	7.94	17.37	20.37	48.9	65.8	1.45
LH1223	BL623		2X3				20.73	23.73	48.9	65.8	1.80
LH1234	BL634		3X4				27.43	30.43	75.6	100.0	2.50
LH1244	BL644		4X4				30.78	33.78	97.9	122.6	2.90
LH1246	BL646		4X6				37.49	40.49	97.9	122.6	3.60
LH1266	BL666		6X6				44.20	47.20	146.8	195.3	4.30
LH1288	BL688		8X8				57.61	60.61	195.7	240.8	5.80

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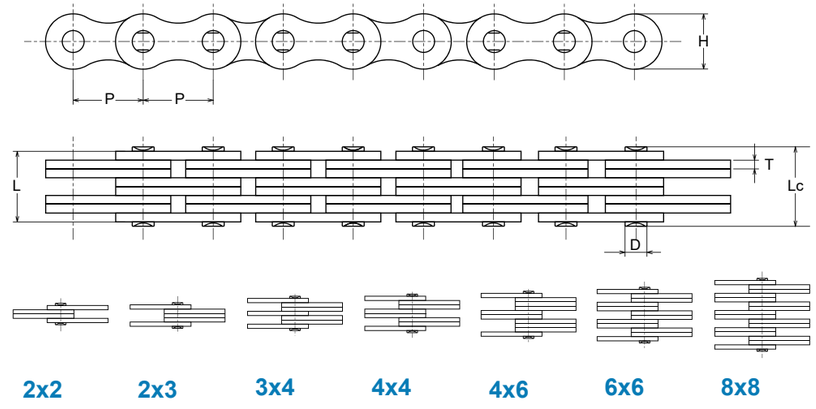
Leaf Chains
BL / LH Series Leaf Chain
TRANSDRIVE® DRIVE PERFORMANCE

BL / LH Series (Leaf Heavy) leaf chains consist of link plates which are thicker and larger in contour than the AL Series link plates of the same pitch. The link plates have the same thickness as the link plates of the next larger pitch size in ANSI roller chains. The pins have the same diameter as those of ANSI roller chains of the next larger pitch.



LH1622/BL822 - LH2488/BL1288 Size Chart (mm)

ANSI Chain No.	ISO Chain No.	Pitch P	Lancing	Plate Thickness		Pin Diameter D max	Pin Length		Ultimate Tensile Strength min kN	Average Tensile Strength kN	Weight Per Metre kg/m
				H max	T max		L max	Lc max			
LH1622	BL822	25.4	2X2	24.13	4.09	9.54	21.34	24.84	84.5	110.5	2.20
LH1623	BL823		2X3				25.48	28.98	84.5	110.5	2.70
LH1634	BL834		3X4				33.76	37.26	129.0	175.8	3.80
LH1644	BL844		4X4				37.90	41.40	169.0	220.2	4.30
LH1646	BL846		4X6				46.10	49.68	169.0	220.2	5.40
LH1666	BL866		6X6				54.45	57.96	253.6	326.8	6.50
LH1688	BL888		8X8				71.02	74.52	338.1	438.1	8.60
LH2022	BL1022	31.75	2X2	30.48	4.90	11.11	25.37	29.37	115.6	152.0	3.4
LH2023	BL1023		2X3				30.33	34.33	115.6	152.0	4.3
LH2034	BL1034		3X4				40.23	44.23	182.4	235.2	6.0
LH2044	BL1044		4X4				45.19	49.19	231.3	290.8	6.9
LH2046	BL1046		4X6				55.09	59.09	231.3	290.8	8.6
LH2066	BL1066		6X6				65.00	69.00	347.0	428.6	10.3
LH2088	BL1088		8X8				84.81	88.81	462.6	503.3	13.8
LH2422	BL1222	38.10	2X2	36.55	5.77	12.71	29.62	34.12	151.2	193.8	4.6
LH2423	BL1223		2X3				35.43	39.93	151.2	193.8	5.8
LH2434	BL1234		3X4				47.07	51.57	244.6	316.0	8.1
LH2444	BL1244		4X4				52.88	57.38	302.5	383.0	9.3
LH2446	BL1246		4X6				64.52	69.02	302.5	383.0	11.6
LH2466	BL1266		6X6				76.15	80.65	453.7	545.6	13.9
LH2488	BL1288		8X8				99.42	103.92	605.0	728.0	18.6

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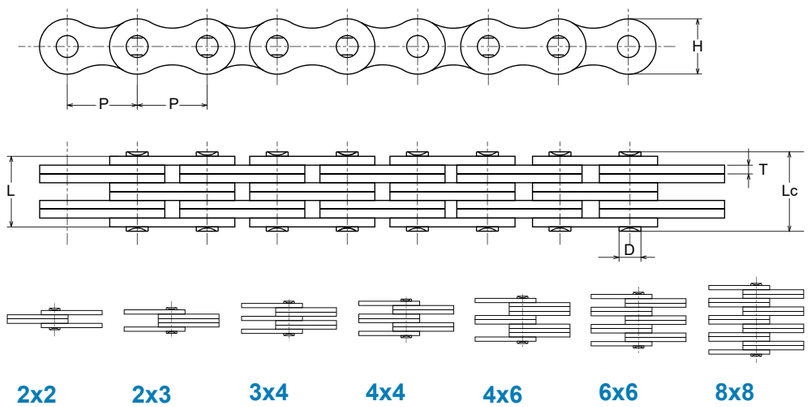
BL / LH Series Leaf Chain

TRANSDRIVE® DRIVE PERFORMANCE

BL / LH Series (Leaf Heavy) leaf chains consist of link plates which are thicker and larger in contour than the AL Series link plates of the same pitch. The link plates have the same thickness as the link plates of the next larger pitch size in ANSI roller chains. The pins have the same diameter as those of ANSI roller chains of the next larger pitch.



LH2822/BL1422 - LH4088/BL2088 Size Chart (mm)

ANSI Chain No.	ISO Chain No.	Pitch P	Lancing	Plate Thickness		Pin Diameter D max	Pin Length		Ultimate Tensile Strength min kN	Average Tensile Strength kN	Weight Per Metre kg/m
				H max	T max		L max	Lc max			
LH2822	BL1422	44.45	2X2	42.74	6.55	14.29	33.55	38.55	191.3	226.6	6.1
LH2823	BL1423		2X3				40.16	45.16	191.3	226.6	7.6
LH2834	BL1434		3X4				53.37	58.37	315.8	375.5	10.6
LH2844	BL1444		4X4				59.97	64.97	382.6	453.3	12.2
LH2846	BL1446		4X6				73.18	78.18	382.6	453.3	15.2
LH2866	BL1466		6X6				86.39	91.39	578.3	680.8	18.2
LH2888	BL1488		8X8				112.8	117.8	765.1	900.8	24.3
LH3222	BL1622	50.8	2X2	48.74	7.52	17.46	39.01	45.01	289.1	343.6	8.0
LH3223	BL1623		2X3				46.58	52.58	289.1	343.6	10.0
LH3234	BL1634		3X4				61.72	67.72	440.4	520.8	14.0
LH3244	BL1644		4X4				69.29	75.29	578.3	682.3	16.0
LH3246	BL1646		4X6				84.43	90.43	578.3	682.3	20.0
LH3266	BL1666		6X6				99.57	105.57	857.4	988.6	24.0
LH3288	BL1688		8X8				129.84	135.84	1156.5	1366.5	32.0
LH4022	BL2022	63.5	2X2	60.33	9.91	23.81	51.74	60.0	433.7	520.0	15.9
LH4023	BL2023		2X3				61.70	69.7	433.7	520.0	20.0
LH4034	BL2034		3X4				81.61	89.61	649.4	780.0	27.8
LH4044	BL2044		4X4				91.57	99.57	867.4	1040.5	31.8
LH4046	BL2046		4X6				111.48	119.5	867.4	1040.5	40.0
LH4066	BL2066		6X6				131.40	139.4	1301.1	1560.0	47.5
LH4088	BL2088		8X8				171.22	179.22	1734.8	2080.5	63.5

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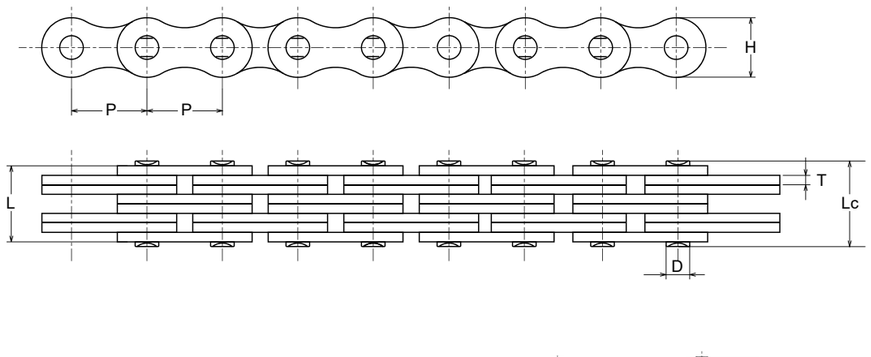
FL Series Leaf Chain

TRANSDRIVE® DRIVE PERFORMANCE

An earlier style and less commonly used leaf chain. The FL / FLC leaf chain is a light duty that uses single interlacing. It is most commonly used in the UK and to a lesser extent in Europe.



Chain No.	Pitch P mm	Lancing	Plate Depth h2 max mm	Plate Thickness T max mm	Pin Diameter d2 max mm	Pin Length L max mm	Ultimate Tensile Strength Q min kN/LB	Average Tensile Strength Q0 kN mm	Weight Per Metre q kg/m
FL644	5.940	4X4	4.7	0.60	1.85	6.6	6.5/1477	7.8	0.40
FL666		6X6				9.3	9.75/2216	11.8	0.80
FL688		8X8				12.0	13.0/2955	15.6	1.20
FL523	8.000	2X3	6.3	1.00	2.31	6.7	7 .00/1575	7.4	0.50
FL844		4X4	6.9	0.73		7.9	10.0/2273	12.1	1.00
FL944	9.525	4X4	8.7	1.04	3.28	10.4	21.0/4724	24.7	0.43
FL945		4X5				11.5	21.00/4724	23.0	0.50
FL966		6X6				14.9	31.0/7045	36.8	0.65
FL988		8X8				19.0	42.00/9450	46.2	0.87
FL1222	12.700	2X2	8.2	1.00	3.58	7.0	11.43/2598	13.6	0.19
FL1223		2X3	10.2	2.03	4.45	12.8	20.0/4545	23.8	0.61
FL1244		4X4	10.2	1.70	4.45	16.7	44.0/10000	52.3	0.83
FLC534	15.875	3X4	12.7	1.85	5.08	15.3	40.4/9181	44.4	0.99
FLC545		4X5				19.2	51.3/12340	59.7	1.27
FLC556		5X6				22.7	67.6/15363	74.3	1.54
FLC567		6X8				26.8	80.80/18176	89.0	1.82
FLC578		7X8				30.8	90.00/20250	99.0	2.10

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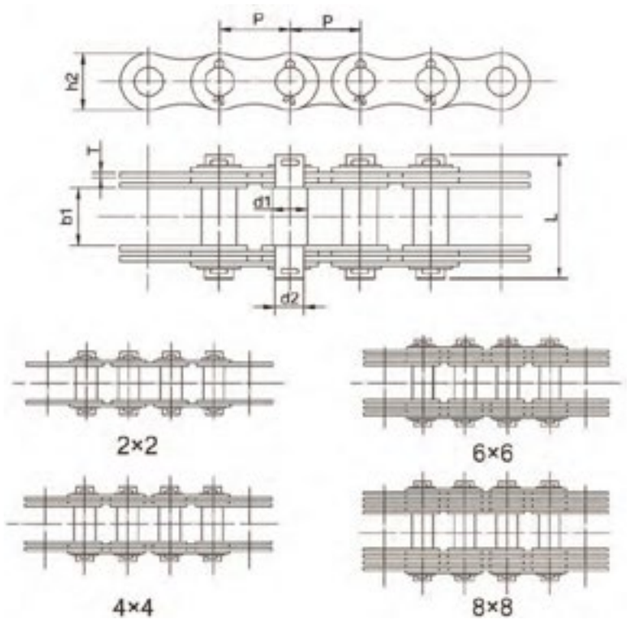
Galle Chain

Named after their inventor André Galle, the Galle chain is the simplest type of steel link chain. They are used for industrial applications where it is necessary transmit high tensile force with a small circumferential velocity such as hoisting and lifting.



Chain No.	Pitch P mm	Width Between Inner Plates b1 min mm	Lancing	Pin Diameter		Pin Length L max mm	Plate Depth h2 max mm	Plate Thickness T max mm	Ultimate Tensile Strength Q min kN/LB	Weight Per Metre q kg/m
				d1 max mm	d2 max mm					
MP15	15	12	2X2	5	4	28.2	12	2.03	5.0/1125	0.7
MP20	20	15	2X2	8	6	32.0	15	2.03	12.5/2812	1.1
MP25	25	18	2X2	10	8	41.3	18	3.00	25.0/5624	1.8
MP30	30	20	4X4	11	9	57.0	20	3.00	40.0/8999	3.4
MP35	35	22	4X4	12	10	60.0	26	3.00	60.0/13498	4.5
MP40	40	25	4X4	14	12	62.0	32	3.00	80.0/17998	5.0
MP45	45	30	4X4	17	14	72.3	35	3.00	100.0/22497	7.0
MP50	50	35	4X4	22	18	102.0	40	4.50	150. 0/337 46	11.3
MP55	55	40	4X4	24	21	122.0	42	6.00	200.0/44994	14.5
MP60	60	45	4X4	26	23	129.3	46	6.00	250.0/56243	17.1
MP70	70	50	6X6	32	28	166.6	55	6.00	375.0/84364	34.0
MP80	80	60	6X6	36	32	180.0	60	6.00	500.0/112486	39.0
MP90	90	70	6X6	40	36	208.0	70	7.00	750.0/168728	53.0
MP100	100	80	8X8	45	40	250.6	80	7.00	1000.0/224972	77.0
MP110	110	90	8X8	50	45	266.0	90	7.00	1250.0/281215	90.0
MP120	120	100	8X8	55	50	295.3	100	8.00	1500.0/337 458	112.0

Every effort has been taken to ensure that the data listed in this catalogue is correct.
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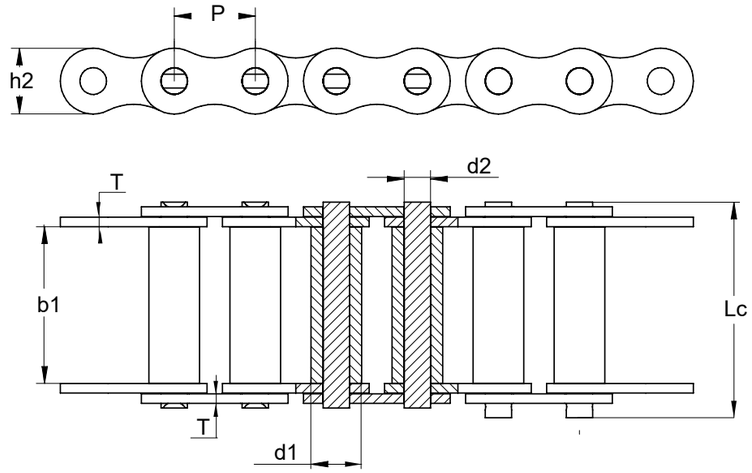
Rollerless Leaf Chain

The rollerless design allows for smaller designs such as 4mm or ANSI 1/4-inch pitch. The rollerless chain is generally used for light loads or those that require only a direct pull.



Chain No.	Pitch P mm	Bush Diameter d1 max mm	Width Between Inner Plates b1 max mm	Pin Diameter d2 max mm	Pin Length		Inner Plate Depth h2 max mm	Plate Thickness T max mm	Ultimate Tensile Strength Q min kN	Average Tensile Strength Q0 kN mm	Weight Per Metre q kg/m
					L max mm	Lc max mm					
45-1	12.700	5.63	7.85	3.96	16.60	17.80	12.00	1.50	14.1	17.5	0.54
55-1	15.875	7.03	9.40	5.08	20.70	22.20	15.09	2.03	22.2	29.4	0.83
65-1	19.050	8.33	12.57	5.94	25.90	27.70	18.00	2.42	31.80	41.5	1.22
85-1	25.400	11.10	15.75	7.92	32.70	35.00	24.00	3.25	56.7	69.4	2.16
105-1	31.750	13.60	18.90	9.53	40.40	44.70	30.00	4.00	88.5	109.2	3.31
125-1	38.100	15.60	25.22	11.10	50.30	54.30	35. 70	4.80	127.0	156.3	4.97
145-1	44.450	18.00	25.22	12.70	54.40	59.00	41.00	5.60	172.4	212.0	6.50
165-1	50.800	20.00	31.55	14.27	64.80	69.60	47.80	6.40	226.8	278.9	8.70

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