



3 Main Specification

3.1 Capacity and Speed Summary – 3 phase units – 60Hz

Hoist Body	Fall	Capacity Ton	Capacity kg	Hoist Speed – fpm [m/min] & Type								
				8 [2.5] S	16 [5] S	32 [10] S	12 [3.6] T	16 [5] T	24 [7.2] T	32 [10] T	64 [19.5] T	
LM1	1	1/8	125								•	
LM1	2	1/8	125						•			
LM1	2	¼	250						•			
LM05	1	¼	250		•	•					•	
LM05	1	½	500		•	•					•	
LM10	1	½	500									•
LM05	2	1	1000						•			
LM10	1	1	1000		•	•					•	
LM16	1	1	1000									•
LM10	2	2	2000	•	•				•			
LM16	1	1 ½	1500								•	
LM16	2	3	3000						•			
LM20	1	2	2000								•	
LM20	2	4	4000						•			
LM25	1	3	2500							•		
LM25	2	5	5000				•					

• Indicates hoist speed is available. S = single speed. T = two speed.

3.2 Capacity and Speed Summary – 3 phase units – 60Hz – 460 Volt only

Hoist Body	Fall	Capacity Ton	Capacity kg	Hoist Speed – fpm [m/min] & Type		
				4-64 [1.2-19.5] I	2-32 [0.6-9.7] I	1-16 [0.3-4.9] I
LM10	1	1/2	500	•		
LM10	1	1	1000		•	
LM10	2	2	2000			•

• Indicates hoist speed is available. I = stepless inverter hoist control.

3.3 Capacity and Speed Summary – Single-phase units – 60Hz

Hoist Body	Fall	Capacity Ton	Capacity kg	Hoist Speed – fpm [m/min] & Type		
				8 [2.5] S	16 [5] S	32 [10] S
LM1	1	1/8	125		•	
LM05	1	1/4	250		•	
LM05	1	1/2	500		•	
LM05	2	1	1000	•		

• Indicates hoist speed is available. S = single speed.



3.4 Standard Hoist Offering and Rating

LoadMate electric chain hoists are rated ASME duty only for US capacities and rated FEM duty only for metric capacities.

US Cap. Ton	Duty ASME	Metric Cap. Kg	Duty FEM	Hoist	Fall	Motor Type	Hoist Speed FPM 60 Hz	Hoist Speed m/min 60 Hz	115V 1-PH 60Hz	208V 60Hz	230V 60Hz	460V 60Hz	575V 60Hz	Hoist Speed m/min 50 Hz	400V 50Hz
1/8	H3	125	1Bm	LM1	1	MT06E-200	16	5	●						
1/8	H4	125	1Bm	LM1	1	MT06E-104	32/8	10/2.5		●	●	●	●	8/2	●
1/8	H4	125	2m	LM1	2	MT06E-104	16/4	5/1.25		●	●	●	●	4/1	●
1/4	H3	250	1Bm	LM1	2	MT06E-104	16/4	5/1.25		●	●	●	●	4/1	●
1/4	H3	250	1Bm	LM05	1	MT07EY-200	16	5	●						
1/4	H4	250	2m	LM05	1	MT07EA200 (was SC2-4)	16	5		●	●	●		4	
1/4	H4	250	2m	LM05	1	MT07EC100 (was SC3-2)	32	10		●	●	●		8	
1/4	H4	250	2m	LM05	1	MT07E-104 (was PC3)	32/8	10/2.5		●	●	●	●	8/2	●
1/2	H3	500	1Bm	LM05	1	MT07EY-200	16	5	●						
1/2	H4	500	1Bm	LM05	1	MT07EA200 (was SC2-4)	16	5		●	●	●		4	
1/2	H4	500	1Bm	LM05	1	MT07EC100 (was SC3-2)	32	10		●	●	●		8	
1/2	H4	500	1Bm	LM05	1	MT07E-104 (was PC3)	32/8	10/2.5		●	●	●	●	8/2	●
1/2	H4	500	2m	LM05	2	MT07E-104 (was PC3)	16/4	5/1.25					●	4/1	●
1/2	H4	500	2m	LM10	1	PC4	64/16	19.5/5		●	●	●	●	16.3/4	●
1/2	H4	500	2m	LM10	1	MF10MA200	4-64	1.2-19.5				●		1-16.3	
1	H3	1000	1Bm	LM05	2	MT07EY-200	8	2.5	●						
1	H4	1000	1Bm	LM05	2	MT07E-104 (was PC3)	16/4	5/1.25		●	●	●	●	4/1	●
1	H4	1000	1Bm	LM10	1	SC3-4	16	5		●	●	●		4	
1	H4	1000	1Bm	LM10	1	SC4-2	32	10		●	●	●		8	
1	H4	1000	1Bm	LM10	1	PC4	32/8	10/2.5		●	●	●	●	8/2	●
1	H4	1000	1Bm	LM10	1	MF10MA200	2-32	0.6-9.7				●		0.5-8.1	
1	H4	1000	1Bm	LM16	1	PC5	64/16	19.5/5		●	●	●	●	16.3/4	●
1 1/2	H4	1500	1Bm	LM16	1	PC5	32/8	10/2.5		●	●	●	●	8/2	●
2	H4	2000	1Bm	LM10	2	SC3-4	8	2.5		●	●	●		2	
2	H4	2000	1Bm	LM10	2	SC4-2	16	5		●	●	●		4	
2	H4	2000	1Bm	LM10	2	PC4	16/4	5/1.25		●	●	●	●	4/1	●
2	H4	2000	1Bm	LM10	2	MF10MA200	1-16	0.3-4.9				●		0.25-4	
2	H4	2000	1Bm	LM20	1	PC5	32/8	10/2.5		●	●	●	●	8/2	●
2 1/2	H4	2500	2m	LM20	2	PC5	16/4	5/1.25		●	●	●	●	4/1	●
2 1/2	H4	2500	1Bm	LM25	1	PC5	24/6	7.2/1.8		●	●	●	●	6/1.5	●
3	H4	3000	1Bm	LM16	2	PC5	16/4	5/1.25		●	●	●	●	4/1	●
3	H4	-----	---	LM25	1	PC5	24/6	7.2/1.8		●	●	●	●	6/1.5	●
4	H4	4000	1Bm	LM20	2	PC5	16/4	5/1.25		●	●	●	●	4/1	●
5	H4	5000	1Bm	LM25	2	PC5	12/3	3.6/0.9		●	●	●	●	3/0.75	●

● Indicates hoist is available for this voltage.
 (1 ton = 2000 lbs.)

3.5 Reeving

LoadMate electric chain hoists are available with either a single line (fall) or 2 lines (falls) reeving.



3.6 Maximum Lifts

These are the maximum lifts with the chain container mounted to the hoists.

Frame	Reeving Part	Minimum lift ft [m]	Maximum lift ft [m]	Chain ø x pitch (mm)
LM1	1	10 [3]	96 [30]	3.1 x 9.3
	2	10 [3]	48 [15]	3.1 x 9.3
LM05	1	10 [3]	150 [46]	4.8 x 12.5
	2	10 [3]	75 [23]	4.8 x 12.5
LM10	1	10 [3]	150 [46]	6.8 x 17.8
	2	10 [3]	75 [23]	6.8 x 17.8
LM16	1	10 [3]	150 [46]	9.0 x 27
	2	10 [3]	75 [23]	9.0 x 27
LM20	1	10 [3]	150 [46]	11.3 x 31
	2	10 [3]	75 [23]	11.3 x 31
LM25	1	10 [3]	150 [46]	11.3 x 31
	2	10 [3]	75 [23]	11.3 x 31

4 Load Chain

4.1 Standard Load Chain

The load chain on the electric chain hoist is zinc electro-plated as standard to provide a degree of protection against corrosion. Use of zinc electro-plated load chain is not recommended for caustic dipping applications.

Load chain ø x pitch (d x t)	3.1 x 9.3	4.8 x 12.5	6.8 x 17.8	9.0 x 27	11.3 x 31
Class	DAT	DAT	DAT	DAT	DAT
Grade	HE80S or HE G80	H80S or HE G80	H80S or HE G80	H80D or HE G80	H80D or HE G80
Min. Breaking strain (N/mm ²)	800	800	800	800	800
Surface Hardness:	550 – 700 HV	550 – 700 HV	550 – 700 HV	550 – 700 HV	550 – 700 HV
Standards	DIN 5684-8	DIN 5684-8	DIN 5684-8	DIN 5684-8	DIN 5684-8
Cross-section area (mm ²)	15.1	36.2	72.6	127.2	200.6
Safe load limit of chain (kg)	125	500	1000	1600	2500
Min. Breaking force (kN)	11.2	29	58.1	93.0	160
Min. total elongation	10%	10%	10%	10%	10%
Dimension over 11 links (mm)	102.3	137.5 (+0.35,-0.20)	195.8 (+1.05,-0.25)	297 (0.75,-0.40)	341 (+1.1,-0.5)
Weight per meter (kg/m)	0.22	0.54	1.08	1.80	2.85
Corrosion protection	Zinc-plated	Zinc-plated	Zinc-plated	Zinc-plated	Zinc-plated

4.2 Stainless Steel Load Chain

The rated capacity of the hoists using stainless steel load chain is reduced from maximum in order to maintain proper design margins. The table below lists the maximum capacity rating for each hoist when equipped with a stainless steel load chain. The material type of the stainless steel chain is 316.

Hoist Body	Load chain ø x pitch (d x t)	Reeving-part	Capacity* Ton	Capacity* Kg
LM1	3.1 x 9.3	1	1/16	62.5
LM1	3.1 x 9.3	2	1/8	125
LM05	4.8 x 12.5	1	1/4	250
LM05	4.8 x 12.5	2	½	500
LM10	6.8 x 17.8	1	½	500
LM10	6.8 x 17.8	2	1	1000
LM16	9.0 x 27	1	1	1000
LM16	9.0 x 27	2	2	2000
LM20/LM25	11.3 x 31	1	1 1/2	1500
LM20/LM25	11.3 x 31	2	3	3000

* Stainless steel load chain