



TM

STRONG PARTNERS. TOUGH TRUCKS.

ACX

Three-wheel Electric Counterbalanced Lift Trucks J1.60–2.00XMT

1 600 – 2 000 kg



J1.60XMT, J1.80XMT, J2.00XMT

CHARACTERISTICS	1.1	Manufacturer
	1.2	Model designation
	1.3	Power: battery, diesel, LPG, electric mains
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker
	1.5	Load capacity Q (kg)
	1.6	Load centre c (mm)
	1.8	Load distance x (mm)
	1.9	Wheelbase y (mm)

WEIGHT	2.1	Unladen weight (max. battery)	kg
	2.2	Axle loading with load, front/rear (max. battery)	kg
	2.3	Axle loading without load, front/rear (max. battery)	kg

WHEELS & TYRES	3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Number of wheels, front/rear (X = driven)	
	3.6	Track width, front	b ₁₀ (mm)
	3.7	Track width, rear	b ₁₁ (mm)

DIMENSIONS	4.1	Mast tilt, α = forward/β = back	degrees
	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift ↑	h ₂ (mm)
	4.4	Lift height ↑	h ₃ (mm)
	4.5	Height of mast, extended ↑	h ₄ (mm)
	4.7	Overhead guard height ■	h ₆ (mm)
	4.8	Seat height ○	h ₇ (mm)
	4.12	Towing coupling height	h ₁₀ (mm)
	4.19	Overall length	l ₁ (mm)
	4.20	Length to face of forks	l ₂ (mm)
	4.21	Overall width	b ₁ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage DIN 15173. Class A/B	
	4.24	Fork carriage width ●	b ₃ (mm)
	4.31	Ground clearance under mast, with load	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆	Ast (mm)
	4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆	Ast (mm)
	4.35	Outer turning radius	W ₀ (mm)
	4.36	Inner turning radius	b ₁₃ (mm)

PERFORMANCE	5.1	Travel speed with/without load ❖	km/h
	5.2	Lifting speed with/without load	m/sec
	5.3	Lowering speed with/without load	m/sec
	5.5	Drawbar pull with/without load, 60 minute rating	N
	5.6	Max. drawbar pull with/without load, 5 minute rating	N
	5.7	Gradeability with/without load, 30 minute rating †	%
	5.8	Max. gradeability with/without load, 5 minute rating †	%
	5.9	Acceleration time with/without load ❖	Sec
	5.10	Service brake	

MOTOR	6.1	Drive motor output, 60 minute rating	kW
	6.2	Lifting motor, 15% rating	kW
	6.3	Battery DIN 43531/35/36 A, B, C, no	
	6.4	Battery voltage/capacity at 5 hr rate	V/Ah
	6.5	Battery weight (min./max.)	kg

OTHER	8.1	Drive control	
	8.2	Working pressure for attachments ◇	bar
	8.3	Oil flow for attachments	l/min
	8.5	Towing coupling type	

HYSTER		HYSTER		HYSTER	
J1.60XMT (545) □		J1.60XMT (640) □		J1.80XMT (640) □	
Battery		Battery		Battery	
Seat		Seat		Seat	
1 600		1 600		1 800	
500		500		500	
339		339		339	
1 290		1 385		1 385	

3 040		3 080		3 180	
4 120	520	4 100	570	4 460	510
1 480	1 560	1 540	1 540	1 580	1 600

SE		SE		SE	
18 x 7 - 8		18 x 7 - 8		18 X 7 - 8	
15 x 4,5 - 8		15 x 4,5 - 8		15 x 4,5 - 8	
2X	2	2X	2	2X	2
864		864		864	
179		179		179	

5	5	5	5	5	5
2 130		2 130		2 130	
100		100		100	
3 290		3 290		3 290	
3 906		3 906		3 906	
2 058		2 058		2 058	
964		964		964	
525		525		525	
2 808		2 903		2 903	
1 808		1 903		1 903	
1 040		1 040		1 040	
40	80	1 000	40	80	1 000
2A		2A		2A	
980		980		980	
82		82		82	
100		100		100	
3 137		3 232		3 232	
3 260		3 355		3 355	
1 470		1 565		1 565	
-		-		-	

13,0	14,3	13,0	14,3	12,8	14,3
0,40	0,54	0,40	0,54	0,36	0,54
0,47	0,39	0,47	0,39	0,48	0,39
3 406	3 680	3 406	3 680	3 346	3 655
11 415	11 690	11 415	11 690	11 355	11 664
11,0	16,0	11,0	16,0	10,0	15,0
25,0	34,0	25,0	35,0	23,0	35,0
5,5	5,3	5,6	5,3	5,6	5,3
Hydraulic		Hydraulic		Hydraulic	

2 x 5,0		2 x 5,0		2 x 5,0	
12		12		12	
43531A		43531A		43531A	
48	440	48	550	48	550
673	743	813	899	813	899

AC Electronic		AC Electronic		AC Electronic	
138		138		138	
25		25		25	
Pin		Pin		Pin	

Specification data is based on VDI 2198

Equipment and weight:

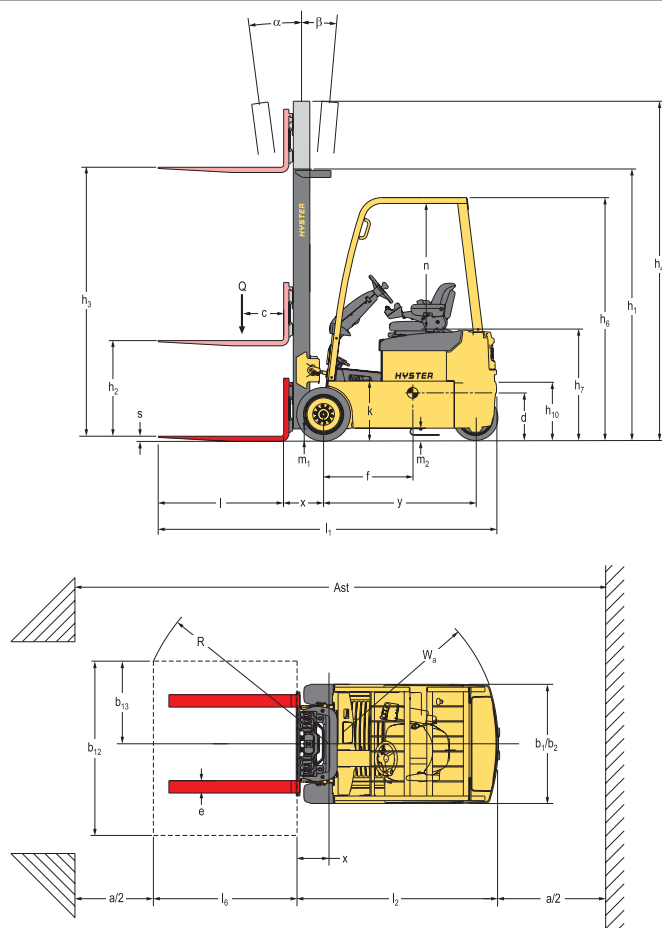
Weights (line 2.1) are based on the following specifications:

Complete truck with 3 330 mm Vista 2-stage limited free lift mast, 980 mm hook type carriage with load backrest and 1 010 mm forks. Overhead guard and pneumatic shaped solid drive and steer tyres.

HYSTER			HYSTER			HYSTER			1.1	CHARACTERISTICS
J1.80XMT (750) □			J2.00XMT (640) □			J2.00XMT (750) □			1.2	
Battery			Battery			Battery			1.3	
Seat			Seat			Seat			1.4	
1 800			2 000			2 000			1.5	
500			500			500			1.6	
339			339			339			1.8	
1 495			1 385			1 495			1.9	
3 280			3 470			3 300			2.1	WEIGHT
4 440	630		4 920	540		4 780	510		2.2	
1 640	1 640		1 720	1 750		1 670	1 630		2.3	
SE			SE			SE			3.1	WHEELS & TYRES
18 x 7 - 8			200/50 - 10			200/50 - 10			3.2	
15 x 4,5 - 8			15 x 4,5 - 8			15 x 4,5 - 8			3.3	
2X	2		2X	2		2X	2		3.5	
864			869			869			3.6	
179			179			179			3.7	
5	5		5	5		5	5		4.1	DIMENSIONS
2 130			2 130			2 130			4.2	
100			100			100			4.3	
3 290			3 290			3 290			4.4	
3 906			3 906			3 906			4.5	
2 058			2 058			2 058			4.7	
964			964			964			4.8	
525			525			525			4.12	
3 013			2 903			3 013			4.19	
2 013			1 903			2 013			4.20	
1 040			1 076			1 076			4.21	
40	80	1 000	40	100	1 000	40	100	1 000	4.22	
2A			2A			2A			4.23	
980			980			980			4.24	
82			82			82			4.31	
100			100			100			4.32	
3 342			3 232			3 342			4.33	
3 465			3 355			3 465			4.34	
1 675			1 565			1 675			4.35	
-			-			-			4.36	
12,8	14,3		12,6	14,3		12,6	14,3		5.1	PERFORMANCE
0,36	0,54		0,33	0,54		0,33	0,54		5.2	
0,48	0,39		0,49	0,39		0,49	0,39		5.3	
3 337	3 646		3 260	3 603		3 294	3 637		5.5	
11 346	11 655		11 269	11 612		11 304	11 647		5.6	
10,0	15,0		9,0	14,0		9,0	15,0		5.7	
23,0	36,0		31,0	34,0		22,0	36,0		5.8	
5,6	5,3		5,6	5,3		5,6	5,3		5.9	
Hydraulic			Hydraulic			Hydraulic			5.10	
2 x 5,0			2 x 5,0			2 x 5,0			6.1	MOTOR
12			12			12			6.2	
43531A			43531A			43531A			6.3	
48	660		48	550		48	660		6.4	
962	1 064		813	899		962	1 064		6.5	
AC Electronic			AC Electronic			AC Electronic			8.1	OTHER
138			138			138			8.2	
25			25			25			8.3	
Pin			Pin			Pin			8.5	

Forks:	
J1.60-1.80XMT:	80 x 40 x 900 to 1 200 mm long
J2.00XMT:	100 x 40 x 900 to 1 200 mm long
Fork spacing:	
Inside to inside, minimum:	30 mm
Outside to outside, maximum:	900 mm

Truck dimensions



 = Centre of gravity of unladen truck

$A_{st} = w_a + x + l_6 + a$ (see lines 4.33 & 4.34)

a = Minimum operating clearance

(V.D.I. standard = 200 mm BITA recommendation = 300 mm)

l_6 = Load length

*Standard tread shown - see 3.6 for optional tread

NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.

- Nominal battery compartment length
- † Bottom of forks
- + Without load backrest
- h_6 subject to +/- 5 mm tolerance
- Full suspension seat (FLS1500) specified
- Subtract 32 mm without load backrest
- ◆ Stacking aisle width (lines 4.33 & 4.34) is based on the V.D.I. standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.
- † Gradeability figures (lines 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- ❖ With e-hydraulics and 'extended shift' on
- ◇ Variable

Tables key:

- ★ Add 650 mm with load backrest extension
- Deduct 650 mm with load backrest extension

Notice

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating Manual.

Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.



This truck conforms to the current EU requirements.

Model

J1.60XMT (545) □ **J1.60XMT** (640) □ **J1.80XMT** (640) □ **J1.80XMT** (750) □ **J2.00XMT** (640) □ **J2.00XMT** (750) □

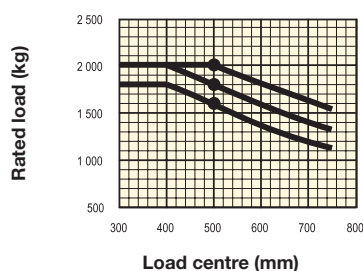
Load moment cm-kg

134 240 134 240 151 020 151 020 167 800 167 800

Dimensions (mm)

d	534	550	532	540	503	541
f	661	690	696	747	698	739
k	500	500	500	500	500	500
n	1 054 ○	1 054 ○	1 054 ○	1 054 ○	1 054 ○	1 054 ○

Rated capacities



Load centre

Distance from front of forks to centre of gravity of load.

Rated load

Based on vertical masts up to 3 330 mm top of forks.

Mast and Capacity Information

Values shown are for standard equipment. When using non-standard equipment these values may change. Please contact your Hyster dealer for information.

Masts J1.60-2.00XMT

	Maximum fork height mm (h ₃ +s)	Back tilt	Overall lowered height mm	Overall extended height mm	Free lift (top of forks) mm (h ₂ +s)
2-Stage limited free lift	3 330	5°	2 130	3 906 ★	140
	3 830	5°	2 380	4 406 ★	140
	4 330	5°	2 730	4 906 ★	140
2-Stage full free lift	3 215	5°	2 080	3 862 ★	1 506 ○
3-Stage full free lift	4 450	5°	1 980	5 074 ★	1 406 ○
	4 750	5°	2 080	5 374 ★	1 506 ○
	4 900	5°	2 130	5 524 ★	1 556 ○
	5 500	5°	2 380	6 124 ★	1 806 ○

J1.60-2.00XMT - Capacity chart in kg @ 500 mm load centre

Pneumatic shaped solid tyres													
Maximum fork height mm (h ₃ +s)	Without sideshift						With integral sideshift						
	J1.60XMT (545) □	J1.60XMT (640) □	J1.80XMT (640) □	J1.80XMT (750) □	J2.00XMT (640) □	J2.00XMT (750) □	J1.60XMT (545) □	J1.60XMT (640) □	J1.80XMT (640) □	J1.80XMT (750) □	J2.00XMT (640) □	J2.00XMT (750) □	
2-Stage limited free lift	3 330	1 600	1 600	1 800	1 800	2 000	2 000	1 600	1 600	1 800	1 800	2 000	2 000
	3 830	1 600	1 600	1 800	1 800	2 000	2 000	1 600	1 600	1 800	1 800	2 000	2 000
	4 330	1 600	1 600	1 800	1 800	2 000	2 000	1 600	1 600	1 780	1 800	1 950	1 980
2-Stage full free lift	3 215	1 600	1 600	1 800	1 800	2 000	2 000	1 600	1 600	1 800	1 800	2 000	2 000
3-Stage full free lift	4 450	1 600	1 600	1 800	1 800	2 000	2 000	1 580	1 580	1 780	1 800	1 960	1 980
	4 750	1 470	1 500	1 660	1 680	1 950	1 950	1 500	1 500	1 680	1 680	1 930	1 930
	4 900	1 410	1 430	1 590	1 610	1 930	1 900	1 410	1 430	1 590	1 610	1 900	1 900
	5 500	1 130	1 160	1 270	1 290	1 610	1 560	1 130	1 160	1 270	1 290	1 610	1 560

J1.60-2.00XMT - Capacity chart in kg @ 600 mm load centre

Pneumatic shaped solid tyres													
Maximum fork height mm (h ₃ +s)	Without sideshift						With integral sideshift						
	J1.60XMT (545) □	J1.60XMT (640) □	J1.80XMT (640) □	J1.80XMT (750) □	J2.00XMT (640) □	J2.00XMT (750) □	J1.60XMT (545) □	J1.60XMT (640) □	J1.80XMT (640) □	J1.80XMT (750) □	J2.00XMT (640) □	J2.00XMT (750) □	
2-Stage limited free lift	3 330	1 350	1 350	1 600	1 600	1 800	1 800	1 350	1 350	1 600	1 600	1 800	1 800
	3 830	1 350	1 350	1 600	1 600	1 800	1 800	1 350	1 350	1 600	1 600	1 800	1 800
	4 330	1 350	1 350	1 600	1 600	1 800	1 800	1 350	1 350	1 600	1 600	1 800	1 800
2-Stage full free lift	3 215	1 350	1 350	1 600	1 600	1 800	1 800	1 350	1 350	1 600	1 600	1 800	1 800
3-Stage full free lift	4 450	1 350	1 350	1 600	1 600	1 800	1 800	1 350	1 350	1 600	1 600	1 780	1 780
	4 750	1 320	1 320	1 560	1 560	1 770	1 750	1 320	1 320	1 560	1 560	1 750	1 720
	4 900	1 290	1 290	1 540	1 540	1 720	1 720	1 290	1 290	1 540	1 540	1 700	1 700
	5 500	1 130	1 160	1 270	1 290	1 610	1 560	1 130	1 160	1 270	1 290	1 590	1 560

The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift and, depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread.

Product Features

Application matched performance and battery shift life

- Hyster ACX system offers extended shift life or extra AC performance options to suit each application.
- AC traction motors for reliable, positive performance.
- Brushless DC steering motor.
- Compact dimensions and extraordinary manoeuvrability offer tight aisle widths.
- Available with cushion or pneumatic shaped solid tyres.
- Available with 48V or 80V battery configuration.

Advanced ergonomic features to inspire productivity

- Hydraulic control/seat choices
 - Standard fully adjustable semi-suspension seat with integral armrest. With low effort, soft touch, manual hydraulic levers.
 - Optional e-hydraulic seat with TouchPoint™ mini-levers provide ultimate fingertip precision control.
 - Optional e-hydraulic seat with TouchControl™ joystick. Especially suited to intensive applications where hydraulic operation is frequent and accurate/delicate hydraulic control is required.
- Convenient step and handgrip for ease of access
- Demand Sense Steering
- Monotrol® pedal (optional)
- Clear view dash display with LCD indicators
- 4 pre-programmed performance modes
 - Pin codes (optional) can be allocated to individual drivers allowing them access only to the performance level suited to their ability and experience.
- Battery discharge indicator with lift interrupt
- Full range of Vista masts. 2 stage limited free lift, 2 or 3 stage full free lift with hydraulic mast cushioning for dependable handling of fragile loads.
Offering excellent visibility with smooth, low noise operation.

Dependability and low cost of operation

- Extended battery shift life
- 1 000 hour service intervals on most major components*
- 100% brushless AC motors
- Auto regenerative braking
- On board diagnostics for early warning of maintenance requirements
- One piece frame, designed using FEA** technology, and robust steer axle design for proven durability

* Subject to applications survey

**Finite Element Analysis



Strong Partners, Tough Trucks, for Demanding Operations Everywhere.

Hyster supplies a complete product range, including Warehouse trucks, IC and Electric Counterbalanced trucks, Container Handlers and Reach Stackers.

Hyster is committed to being much more than a lift truck supplier. Our aim is to offer a complete partnership capable of responding to the full spectrum of materials handling issues:

Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster. Our network of highly trained dealers provides expert, responsive local support.

They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your materials handling needs so you can focus on the success of your business today and in the future.



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