



J1.60-2.00XMT ACX

- Application matched performance options
- Unrivalled productivity in VDI tests
- Premium driver confidence and comfort features
- Hyster proven durability, a 75 year pedigree

3 wheel electric counterbalance lift trucks. 1 600 to 2 000 kg @ 500 mm

The truck with application matched performance

The Hyster J1.60-2.00XMT series of three wheel electric trucks, combine front wheel drive with AC motor control to provide unrivalled performance. Advanced design features deliver new standards of operator control and reliability. Performance control options enable these trucks to meet the demands of different applications and deliver significant cost savings to the customer.

An evaluation programme, in compliance with industry recognised VDI standards, that matched specifications to different applications, has demonstrated the class leading handling efficiency of these trucks. You can choose between an AC Extended Shift Life option and an AC Extra Performance option, supported by a wide variety of wheelbase and battery configurations for each model.

Proportional traction control allows tight cornering without loss of power to provide outstanding manoeuvrability and smooth operation.

A truck to inspire driver confidence

The Hyster E-Hydraulic armrest with integral adjustment and mini-levers offers the latest in fingertip precision control. A full suspension seat with wide range of adjustment features, and tilt steering column allow each operator to select their preferred driving position. Ultra compact steering wheel and Demand-Sense steering, Automatic park brake and Monotrol direction control pedal combined with AC motor no-pause direction changing gives the driver the confidence and comfort to perform at his best. The dash display with LCD indication offers readability in low light conditions, and allows the operator to choose from 4 pre-set performance modes that will fine-tune the trucks performance to suit his driving style and the application task.

A wide step, convenient handgrip and uncluttered floor space allow easy on/off access and a battery discharge indicator with lift interrupt is standard.

A truck users will trust

Hyster reliability, proven over 75 years, is key to the J1.60-2.00XMT series, with 1000 hour service intervals as standard*. The AC brushless drive motors, the CANbus truck electronic communication system and low maintenance wet brakes represent the latest technology harnessed to enhance truck reliability.

The Hyster pioneered battery side extraction option, available on some models, offers users the advantage of battery change with minimal interruption to work flow.

On board diagnostics facilitate early warning of maintenance needs and swift fault detection to aid correction. A start-up checklist and password protection are also available (optional).

Regenerative braking promotes increased battery shift life and reduces driver fatigue whilst saving on brake use.

Masts

A full range of Vista 2-stage limited free lift, 2-stage and 3-stage full free lift masts are designed for excellent visibility and smooth operation. Hyster full free lift masts have hydraulic mast cushioning for dependable handling of fragile loads and reduction of annoying noise. For reliable truck operation, all hydraulic hoses are protected by routing inside the mast construction.

* Subject to application survey. Includes the majority of major components.

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 ₈ (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	
966		966		966	
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	
1 009		1 009		1 009	
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
703	713	851	861	851	861

AC Electronic		AC Electronic		AC Electronic	
138		138		138	
-		-		-	
Pin		Pin		Pin	

Equipment and weight:

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

Complete truck with 3 030 mm Vista 2-stage limited free lift mast, 980 mm hook type carriage with load backrest and 1 000 mm forks. Overhead guard and pneumatic shaped solid drive and steer tyres.

HYSTER			CHARACTERISTICS	
J1.80XMT (750) □	J2.00XMT (640) □	J2.00XMT (750) □	1.1	
Battery	Battery	Battery	1.2	
Seat	Seat	Seat	1.3	
1 800	2 000	2 000	1.4	
500	500	500	1.5	
339	339	339	1.6	
1 495	1 385	1 495	1.8	
			1.9	
HYSTER			WEIGHT	
3 280	3 470	3 300	2.1	
4 440	630	4 780	2.2	
1 640	1 640	1 670	2.3	
HYSTER			WHEELS & TYRES	
SE	SE	SE	3.1	
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	2X	2X	3.5	
864	869	862	3.6	
179	179	179	3.7	
HYSTER			DIMENSIONS	
5	5	5	4.1	
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	
966	966	966	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	100	4.22	
2A	2A	2A	4.23	
1 009	1 009	1 009	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	
HYSTER			PERFORMANCE	
12,8	14,3	12,6	5.1	
0,36	0,54	0,33	5.2	
0,48	0,39	0,49	5.3	
3 337	3 646	3 260	5.5	
11 346	11 655	11 269	5.6	
10,0	15,0	9,0	5.7	
23,0	36,0	31,0	5.8	
5,6	5,3	5,6	5.9	
Hydraulic	Hydraulic	Hydraulic	5.10	
HYSTER			MOTOR	
2 x 5,0	2 x 5,0	2 x 5,0	6.1	
12	12	12	6.2	
43531A	43531A	43531A	6.3	
48	660	48	6.4	
1 008	1 018	851	6.5	
HYSTER			OTHER	
AC Electronic	AC Electronic	AC Electronic	8.1	
138	138	138	8.2	
-	-	-	8.3	
Pin	Pin	Pin	8.5	



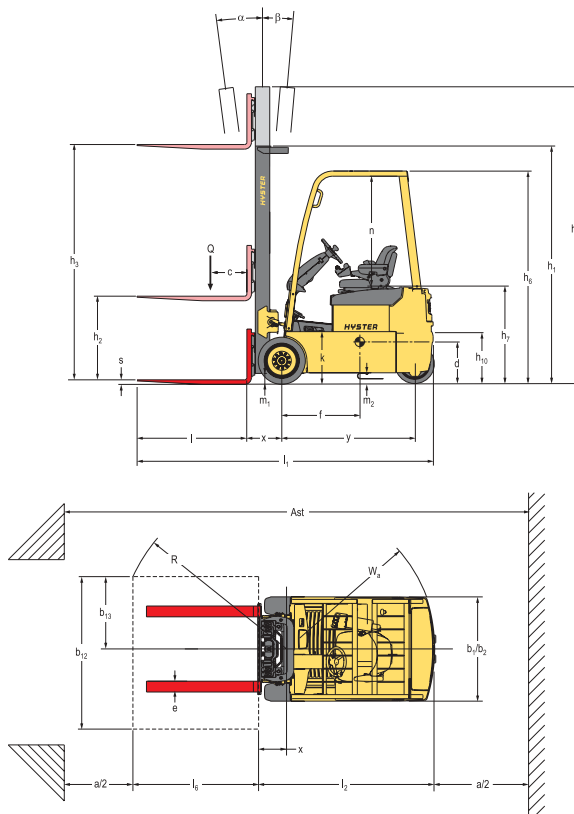
Forks:

J1.60-1.80XMT: 80 x 40 x 900 to 1 200 mm long
J2.00XMT: 100 x 45 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

$A_{st} = w_a + x + l_0 + a$ (see lines 4.33 & 4.34)

a = Minimum operating clearance

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

l_0 = 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 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.

Tables key:

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

Model

J1.60XMT

J1.80XMT

J2.00XMT

Load moment cm-kg

133 600

150 300

167 000

Dimensions (mm)

d

600

600

600

e

670

720

730

g

15°

15°

15°

j

530

530

530

k

500

500

500

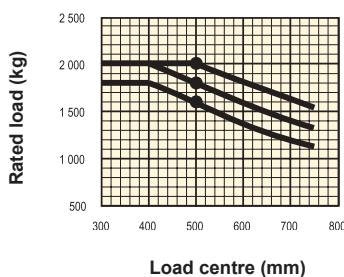
n

1 017

1 017

1 017

Rated capacities



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

Load centre

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

Rated load

Based on vertical masts up to 3 030 mm top of forks.



Hyster, **HYSTER**, Monotrol, Vista, Challenger and SpaceSaver are trademarks of Hyster Company. Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.



This truck conforms to the current EU requirements.

Mast and capacity information

Vista 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)
Vista 2-Stage limited free lift	3 330	7°	2 130	3 906 ★	140
	3 830	7°	2 380	4 406 ★	140
	4 330	5°	2 730	4 606 ★	140
Vista 2-Stage full free lift	3 270	5°	2 080	3 862 ★	1 506 ○
Vista 3-Stage full free lift	4 500	5°	1 980	5 074 ★	1 406 ○
	4 800	5°	2 080	5 374 ★	1 506 ○
	5 550	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	J1.80XMT	J2.00XMT	J1.60XMT	J1.80XMT	J2.00XMT
Vista 2-Stage limited free lift	3 330	1 600	1 800	1 510	1 730	1 840
	3 830	1 600	1 800	1 510	1 710	1 820
	4 330	1 520	1 720	1 430	1 650	1 750
Vista 2-Stage full free lift	3 270	1 550	1 770	1 460	1 680	1 790
Vista 3-Stage full free lift	4 500	1 530	1 680	1 440	1 640	1 770
	4 800	1 370	1 480	1 370	1 480	1 750
	5 550	960	1 020	950	1 020	1 660

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	J1.80XMT	J2.00XMT	J1.60XMT	J1.80XMT	J2.00XMT
Vista 2-Stage limited free lift	3 330	1 440	1 630	1 350	1 560	1 660
	3 830	1 430	1 620	1 350	1 530	1 640
	4 330	1 350	1 540	1 270	1 470	1 570
Vista 2-Stage full free lift	3 270	1 380	1 580	1 320	1 500	1 610
Vista 3-Stage full free lift	4 500	1 370	1 550	1 280	1 460	1 590
	4 800	1 350	1 480	1 280	1 460	1 560
	5 550	960	1 020	950	1 020	1 550



Highlifts

The rated capacities shown are for trucks equipped with standard or sideshift carriage, and nominal length forks (see below). Masts above the maximum fork height shown here are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread.

Model	Max. fork height mm	Nominal fork length mm
J1.60XMT	3 030	1 000
J1.80XMT	3 030	1 000
J2.00XMT	3 030	1 000

High lift masts require approval from Hyster based on specific application information. This information should be supplied on Hyster form 857025-25, and will be used to determine rated capacities to be included on a specific nameplate. The completed nameplate must be installed on the truck before it is put to use.

Warning

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 Europe, Flagship House, Reading Road North, Fleet, Hants GU51 4WD, England
<http://www.hyster.co.uk>
For information, tel: +44 (0) 1252 810261

12/04/TLC Printed in England Form No. 871710/2

A division of NACCO Materials Handling Limited.

