



STRONG PARTNERS. TOUGH TRUCKS.

Three-Wheel Electric Counterbalanced Lift Trucks A1.00-1.50XL

1 000 – 1 500 kg



A1.00XL, A1.25XL, A1.50XL

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: mast Forward/Vertical/Back ★ y (mm)

WEIGHTS	2.1	Unladen weight	kg
	2.2	Axle loading with load, front/rear ‡	kg
	2.3	Axle loading without load, front/rear ‡	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, standard/wide tread ★★	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 Δ standard/wide tread	b ₁ /b ₂ (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 _a (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	kg
	6.6	Power consumption in accordance with VDI cycle	kWh/h

OTHER	8.1	Drive control	
	8.2	Working pressure for attachments	bar
	8.3	Oil flow for attachments	l/min
	8.4	Average noise level at operator's ear (Lpaz)	dB (A)
		Guaranteed sound power (Lwaz)	dB
	8.5	Towing coupling type	

HYSTER			HYSTER			HYSTER			CHARACTERISTICS	
A1.00XL			A1.25XL			A1.50XL				1.1
Battery			Battery			Battery				1.2
Seat			Seat			Seat				1.3
1 000			1 250			1 500				1.4
500			500			500				1.5
318			318			318				1.6
1 130	1 163	1 229	1 130	1 163	1 229	1 130	1 163	1 229		1.7

2 460				2 630				2 900				WEIGHTS
2 920	540			3 340	540			3 840	560			
1 220	1 240			1 210	1 420			1 280	1 620			

SE		SE		SE		3.1	WHEELS & TYRES
18 x 7-8		18 x 7-8		18 x 7-8		3.2	
18 x 7-8		18 x 7-8		18 x 7-8		3.3	
2	1X	2	1X	2	1X	3.5	
865	-	865	-	865	-	3.6	
-		-		-		3.7	

3	6			3	6			3	6			DIMENSIONS
2 091,5				2 091,5				2 091,5				
50				50				50				
3 260				3 260				3 260				
3 801				3 801				3 801				
1 972				1 972				1 972				
917,5				917,5				917,5				
471,5				471,5				471,5				
2 770				2 770				2 770				
1 770				1 770				1 770				
1 050	1 184			1 050	1 184			1 050	1 184			
40	80	1 000		40	80	1 000		40	80	1 000		
2A				2A				2A				
857				857				857				
88				88				88				
110,5				110,5				110,5				
3 098				3 098				3 098				
3 219,8				3 219,8				3 219,8				
1 450				1 450				1 450				
-				-				-				

10	11			10	11			9	11			PERFORMANCE
0,28	0,43			0,26	0,43			0,24	0,43			
0,55	0,51			0,55	0,51			0,55	0,51			
1 080	1 100			980	1 060			850	990			
4 230	5 600			4 230	5 550			4 390	5 500			
6	8			5	7			4	6			
12	15			11	15			10	15			
6	6			6	6			7	6			
Hydraulic				Hydraulic				Hydraulic				

4,2		4,2		4,2		6.1	MOTOR
4,8		4,8		4,8		6.2	
DIN 43535A		DIN 43535A		DIN 43535A		6.3	
24	880	24	880	24	880	6.4	
450		450		620		6.5	
-		-		-		6.6	

Electronic				Electronic				Electronic				OTHER
155				155				155				
20				20				20				
☎				☎				☎				
☎				☎				☎				
Pin				Pin				Pin				

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, 860 mm hook type carriage with load backrest and 1 000 mm forks. Overhead guard and pneumatic shaped solid drive and steer tyres.

Forks:

A1.00XL, A1.25XL, A1.50XL:

40 x 80 x 900 mm to 1 200 mm long

Fork spacing:

Inside to inside, minimum: 48 mm

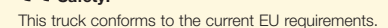
Outside to outside, maximum: 759 mm

Truck dimensions


$$r = \text{SQRT} \left((x + l_6)^2 + \frac{(b_{12})^2}{2} \right)$$

l_6 = Load Length

Rated capacities



Mast and Capacity Information

Vista masts A1.00-1.50XL

	Maximum fork height mm \blacktriangle	Back tilt	Overall lowered height mm	Overall extended height mm	Free lift (top of forks) mm \square
Vista 2-Stage limited free lift	3 330	6°	2 092	3 801 \blacktriangle	90
	3 800	6°	2 342	4 301 \blacktriangle	90
	4 300	6°	2 692	4 801 \blacktriangle	90
Vista 2-Stage full free lift	3 300	6°	2 092	3 801 \blacktriangle	1 524
Vista 3-Stage full free lift	4 420	6°	1 942 \blacktriangleright	4 921 \blacktriangle	1 374
	4 870	6°	2 092	5 371 \blacktriangle	1 524
	5 320	6°	2 342	5 821 \blacktriangle	1 774

A1.00-1.50XL - Capacity chart in kg @ 500 mm load centre

Pneumatic shaped solid tyres						
Maximum fork height mm \blacktriangle	Without sideshift			With sideshift		
	A1.00XL	A1.25XL	A1.50XL	A1.00XL	A1.25XL	A1.50XL
Vista 2-Stage limited free lift	3 330	1 000	1 250	960	1 200	1 440
	3 800	1 000	1 250	960	1 200	1 440
	4 300	930	1 180	890	1 120	1 360
Vista 2-Stage full free lift	3 300	1 000	1 250	960	1 200	1 440
Vista 3-Stage full free lift	4 420 \diamond	1 000	1 250	960	1 200	1 400
	4 870 \diamond	930	1 170	890	1 120	1 340
	5 320 \diamond	860	1 090	820	1 040	1 290

A1.00-1.50XL - Capacity chart in kg @ 600 mm load centre

Pneumatic shaped solid tyres						
Maximum fork height mm \blacktriangle	Without sideshift			With sideshift		
	A1.00XL	A1.25XL	A1.50XL	A1.00XL	A1.25XL	A1.50XL
Vista 2-Stage limited free lift	3 330	920	1 140	860	1 080	1 290
	3 800	910	1 140	860	1 070	1 290
	4 300	850	1 070	800	1 010	1 220
Vista 2-Stage full free lift	3 300	920	1 140	860	1 070	1 290
Vista 3-Stage full free lift	4 420 \diamond	910	1 140	860	1 070	1 290
	4 870 \diamond	850	1 070	800	1 010	1 230
	5 320 \diamond	780	990	730	930	1 150

Highlifts

The rated capacities shown are for trucks equipped with standard or sideshift carriage, and nominal length forks (see p.5). 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
A1.00XL	3 800	1 000
A1.25XL	3 800	1 000
A1.50XL	3 800	1 000

High lift masts require Hyster's approval 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.

Product Features

Superb manoeuvrability

The compact design of this 3 wheel electric series, combined with the smooth, load sensing steering system, provides a tight turning circle. A variable wheelbase allows even easier manoeuvring during handling operations and a more comfortable, stable drive.

Comfort and controllability

The 5-position tilt steering column and a fully adjustable semi-suspension seat allow each operator to select his most comfortable driving position. Low effort, contoured levers are conveniently sited at the driver's side. The transistor controlled Hydraulic power steering, Hyster Monotrol pedal and the easy to read Powergauge instrument panel with hourmeter, battery discharge indicator and lift interrupt function collectively facilitate optimum productivity. Pneumatic shaped solid tyres are provided as standard.

Great performance with low maintenance needs

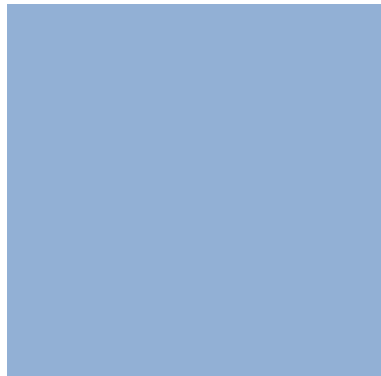
This series offers 500 hour service intervals and the Hyster SEM system employs a MOSFET microprocessor for the traction motor. Only 1 contactor is needed for this motor, resulting in smooth, quiet, reliable operation and reduced maintenance.

Automatic braking promotes low-effort, controlled truck deceleration upon release of the accelerator pedal. The result is reduced driver fatigue, prolonged motor brush life and brake life.

On board diagnostics facilitate early warning of maintenance needs and swift fault detection to aid correction.

Masts

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



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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