



**STRONG PARTNERS.
TOUGH TRUCKS.™**



FOUR-WHEEL ELECTRIC COUNTERBALANCED LIFT TRUCKS

E2.2-3.5XN

2 200-3 500 KG



E2.2XN, E2.5XN, E3.0XN, E3.2XN, E3.5XN

DISTINGUISHING MARKS	1.1	Manufacturer (abbreviation)
	1.2	Manufacturer's type designation
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker
	1.5	Rated capacity/rated load Q (t)
	1.6	Load centre distance c (mm)
	1.8	Load distance, centre of drive axle to fork x (mm)
	1.9	Wheelbase y (mm)

WEIGHTS	2.1	Service weight 	kg
	2.2	Axle loading, laden front/rear 	kg
	2.3	Axle loading, unladen front/rear 	kg

TYRES / CHASSIS	3.1	Tyres: L = pneumatic, V = solid, SE = Pneumatic Shape Solid
	3.2	Tyre size, front
	3.3	Tyre size, rear
	3.5	Wheels, number front/rear (x = driven wheels)
	3.6	Tread, front * b ₁₀ (mm)
	3.7	Tread, rear b ₁₁ (mm)

DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward α / β (°)
	4.2	Height, mast lowered h ₁ (mm)
	4.3	Free lift  h ₂ (mm)
	4.4	Lift  h ₃ (mm)
	4.5	Height, mast extended  h ₄ (mm)
	4.7	Height of overhead guard (cabin)  h ₅ (mm)
	4.7.1	Cab height (open cab) (mm)
	4.8	Seat height relating to SIP/stand height  h ₇ (mm)
	4.12	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 /b ₂ (mm)
	4.22	Fork dimensions ISO 2331 s/e/l (mm)
	4.23	Fork carriage ISO 2328, class/type A, B
	4.24	Fork carriage width  b ₃ (mm)
	4.31	Ground clearance, laden, below mast m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase m ₂ (mm)
	4.33	Load dimension b ₁₂ × l ₆ crossways b ₁₂ × l ₆ (mm)
	4.34	Aisle width predetermined load dimensions A _{st} (mm)
	4.34.1	Aisle width for pallets 1000 × 1200 crossways  A _{st} (mm)
	4.34.2	Aisle width for pallets 800 × 1200 lengthways  A _{st} (mm)
	4.35	Turning radius W ₁ (mm)
	4.36	Internal turning radius b ₁₃ (mm)
	4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)
	4.42	Step Height (from ground to running board) (mm)
	4.43	Step Height (mm)

PERFORMANCE DATA	5.1	Travel speed, laden / unladen 	km/h
	5.2	Lift speed, laden / unladen	m/sec
	5.3	Lowering speed, laden / unladen	m/sec
	5.5	Drawbar pull, laden / unladen **	N
	5.6	Maximum drawbar pull laden / unladen ***	N
	5.7	Gradeability laden / unladen **** †	%
	5.8	Maximum gradeability laden / unladen †	%
	5.9	Acceleration time, laden / unladen 	sec
	5.10	Service brake	

ELECTRIC ENGINE	6.1	Drive motor rating S2 60 min	kW
	6.2	Lift motor rating at S3 15%	kW
	6.3	Battery according to DIN 43531/35/36 A, B, C, no	
	6.4	Battery voltage/nominal capacity K5	V/ah
	6.5	Battery weight (min / max)	kg
	6.6	Energy consumption according to VDI cycle 	kWh/h

ADDITIONAL DATA	8.1	Type of drive unit	
	10.1	Operating pressure for attachments	bar
	10.2	Oil volume for attachments 	l/min
	10.3	Hydraulic oil tank, capacity	l
	10.7	Sound pressure level at the driver's seat 	dB(A)
	10.8	Towing coupling, type DIN	

HYSTER		HYSTER	
E2.2XN SWB		E2.2XN MWB	
Electric (battery)		Electric (battery)	
Seated		Seated	
2.2		2.2	
500		500	
390		390	
4530		4650	

4530		4650	
5574	1150	5601	1234
1809	2715	2009	2632

V		V	
21 x 8 x 15		21 x 8 x 15	
16 x 6 x 10.5		16 x 6 x 10.5	
2X	2	2X	2
905	1039	905	1039
940		940	

5		5		5		5	
2235				2235			
100				100			
3452				3452			
4049				4049			
2248				2248			
2286				2286			
280				280			
1217				1217			
3016				3040			
2016				2040			
1108		1242		1108		1242	
100	40	1000		100	40	1000	
2A				2A			
977				977			
85				85			
92				92			
1200 x 1000				1200 x 1000			
3329				3475			
3329				3475			
3525				3674			
1735				1884			
501				501			
1774				1824			
772				772			
475				475			

19.8	19.7	19.8	19.7
0.52	0.72	0.52	0.72
0.57	0.51	0.57	0.51
13460	14271	13460	14271
22100	16785	22100	16785
20	32	20	32
34	39	34	39
4.9	4.9	4.9	4.9
Hydraulic		Hydraulic	

23.6		23.6	
24.0		24.0	
No		No	
80	375	80	450
1050	1500	1320	1770
6.31		6.31	

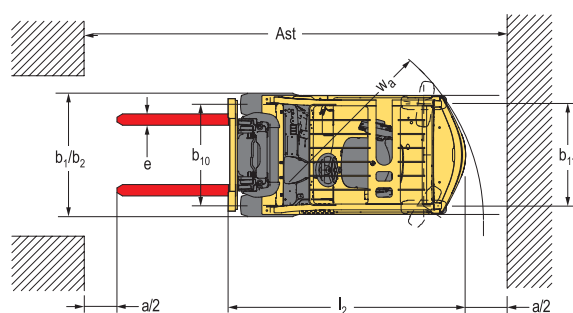
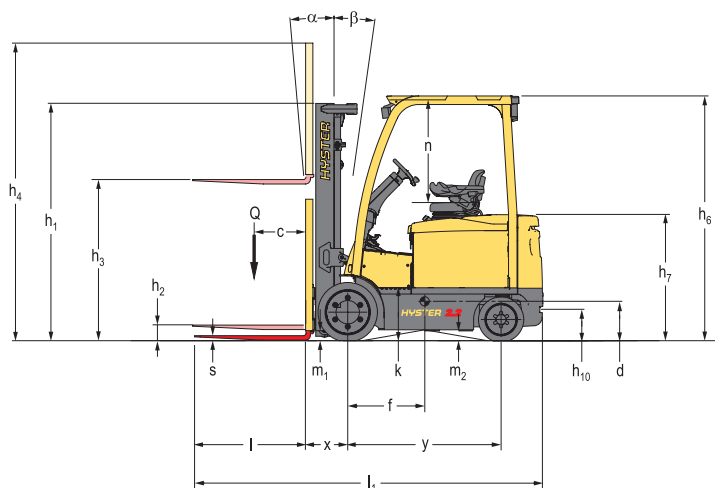
AC Electronic		AC Electronic	
155		155	
20 - 40		20 - 40	
29.7		29.7	
67		67	
Pin		Pin	

Specification data is based on VDI 2198. * Standard / Wide tread ** 60 minute rating *** 5 minute rating **** 30 minute rating

EQUIPMENT AND WEIGHT: Weights (line 2.1) are based on the following specifications: Complete truck with 3 492 mm (E2.2-2.5XN), 3 309 mm (E3.0-3.5XN) 2-stage limited free lift mast, 1 020 mm hook-type carriage with load backrest, 1 000 mm forks, overhead guard and standard cushion drive and steer tyres.

HYSTER				HYSTER				HYSTER				HYSTER				HYSTER				1.1	DISTINGUISHING MARKS										
E2.5XN SWB				E2.5XN MWB				E3.0XN MWB				E3.2XN LWB				E3.5XN LWB				1.2											
Electric (battery)				Electric (battery)				Electric (battery)				Electric (battery)				Electric (battery)				1.3											
Seated				Seated				Seated				Seated				Seated				1.4											
2.5				2.5				3.0				3.2				3.5				1.5											
500				500				500				500				500				1.6											
390				390				402				402				402				1.6											
1230				1377				1377				1545				1545				1.9											
4710						4650						5090						5180						5390						2.1	WEIGHTS
6041		1168		6098		1043		6963		1126		7271		1108		7722		1166		2.2											
1762		2947		2009		2632		2031		3059		2233		2946		2212		3176		2.3											
V				V				V				V				V				3.1	TIRES / CHASSIS										
21 x 8 x 15				21 x 8 x 15				21 x 8 x 15				21 x 8 x 15				21 x 9 x 15				3.2											
16 x 6 x 10.5				16 x 6 x 10.5				16 x 6 x 10.5				16 x 6 x 10.5				16 x 7 x 10.5				3.3											
2X		2		2X		2		2X		2		2X		2		2X		2		3.5											
905		1039		905		1039		905		1039		905		1039		929		1013		3.6											
940				940				940				940				915				3.7											
5				5				5				5				5				5				4.1	DIMENSIONS						
2235				2235				2235				2235				2235				4.2											
100				100				100				100				100				4.3											
3452				3452				3259				3259				3259				4.4											
4049				4049				3954				3954				3954				4.5											
2248				2248				2248				2248				2248				4.7											
2286				2286				2286				2286				2286				4.7.1											
280				280				280				280				280				4.8											
1217				1217				1217				1217				1217				4.12											
3040				3143				3199				3343				3367				4.19											
2040				2143				2199				2343				2367				4.20											
1108		1242		1108		1242		1108		1242		1108		1242		1158		1242		4.21											
100	40	1000		100	40	1000		125	50	1000		125	50	1000		125	50	1000		4.22											
2A				2A				3A				3A				3A				4.23											
977				977				977				977				977				4.24											
85				85				85				85				85				4.31											
92				92				92				92				92				4.32											
1200 x 1000				1200 x 1000				1200 x 1000				1200 x 1000				1200 x 1000				4.33											
3351				3475				3518				3676				3696				4.34											
3351				3475				3518				3676				3696				4.34.1											
3547				3674				3717				3876				3896				4.34.2											
1757				1884				1915				2074				2094				4.35											
501				561				561				630				630				4.36											
1781				1824				1853				1931				1941				4.41											
772				772				772				772				772				4.42											
475				475				475				475				475				4.43											
19.9		19.7		19.9		19.7		19.4		19.7		19.0		19.7		19.1		19.7		5.1	PERFORMANCE DATA										
0.52		0.72		0.49		0.72		0.42		0.63		0.40		0.63		0.37		0.63		5.2											
0.57		0.51		0.57		0.51		0.56		0.46		0.57		0.46		0.58		0.46		5.3											
13315		14271		13315		14271		12953		14150		12837		14129		12643		14078		5.5											
21914		16785		21914		16785		21485		17272		21342		18165		21108		18651		5.6											
19		32		19		32		16		29		16		28		14		27		5.7											
33		39		33		39		28		36		26		37		25		37		5.8											
4.9		4.9		4.9		4.9		4.9		4.9		4.9		4.9		4.9		4.9		5.9											
Hydraulic				Hydraulic				Hydraulic				Hydraulic				Hydraulic				5.10											
23.6				23.6				23.6				23.6				23.6				6.1	ELECTRIC ENGINE										
24.0				24.0				24.0				24.0				24.0				6.2											
No				No				No				No				No				6.3											
80		375		80		450		80		450		80		600		80		600		6.4											
1050		1500		1320		1770		1320		1770		1550		2000		1550		2000		6.5											
6.31				6.31				6.70				7.89				8.58				6.6											
AC Electronic				AC Electronic				AC Electronic				AC Electronic				AC Electronic				8.1	ADDITIONAL DATA										
155				155				155				155				155				10.1											
20-40				20-40				20-40				20-40				20-40				10.2											
29.7				29.7				29.7				29.7				29.7				10.3											
67				67				67				67				67				10.7											
Pin				Pin				Pin				Pin				Pin				10.8											

TRUCK DIMENSIONS



$Ast = Wa + x + l_6 + a$ (see lines 4.34.1 & 4.34.2)

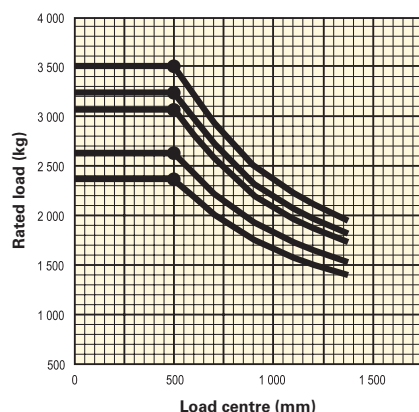
a = Minimum operating clearance

(VDI standard = 200 mm BITA recommendation = 300 mm)

l_6 = Load length

Dimensions (mm)	E2.2XN SWB	E2.2XN MWB	E2.5XN SWB	E2.5XN MWB	E3.0XN SWB	E3.2XN LWB	E3.5XN LWB
d	613	618	615	618	616	618	617
f	728	773	764	774	825	869	905
k	458	458	458	458	458	458	458
n	993	993	993	993	993	993	993

RATED CAPACITIES



E3.5XN
E3.2XN
E3.0XN
E2.5XN
E2.2XN

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

Rated load: Based on vertical 3-stage full free lift mast up to 4 310 mm for E2.2-2.5XN and 4 120 mm for E3.0-3.5XN and 977 mm Standard Carriage with Load Backrest.

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.

- Max battery
- † Bottom of forks
- Without load backrest
- + h6 subject to +/- 5 mm tolerance
- Full Suspension specified. Compressed condition, add 40 mm for nominal position
- Add 43 mm with load backrest
- ▽ With 'HiP' high performance settings
- △ eLo performance setting
- ☒ Maximum flow set through dash display.
- ◆ Stacking aisle width (lines 4.34.1 & 4.34.2) is based on the VDI 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 sideshift carriage add 38mm for E2.2XNSWB, 37mm for E2.2XN MWB-E2.5XN MWB, 31mm for E3.0XN-E3.2XN, 30mm for E3.5XN

MAST TABLES KEY:

- ★ Add 666mm with load backrest extension.
- Deduct 666mm with load backrest extension.
- ❖ Add 684mm with load backrest extension.
- ▲ Deduct 684mm with load backrest extension.
- * Add 583mm with load backrest extension.
- ✕ Deduct 583mm with load backrest extension.
- ✳ Add 601mm with load backrest extension.
- Deduct 601mm with load backrest extension.
- Wide tread required. Standard tread possible but with reduced capacity. Contact your Hyster dealer.

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.

CE Safety:

This truck conforms to the current EU requirements.

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

VISTA MASTS E2.2-2.5XN

	Maximum Fork Height h ₃ (mm) + s	Back Tilt	Overall Lowered Height (mm)	Overall Extended Height (mm)	Free lift (top of forks) h ₂ (mm)
Vista 2-Stage limited free lift	3 492 4 132 4 832	5 5 5	2 235 2 635 2 985	4 049 ★ 4 689 ★ 5 389 ★	140 140 140
Vista 2-Stage full free lift	3 502	5	2 235	4 059 ★	1 678 ○
Vista 3-Stage full free lift	5 100 5 550 6 000	5 5 5	2 235 2 385 2 585	5 639 ❖ 6 089 ❖ 6 539 ❖	1 696 ▲ 1 845 ▲ 2 046 ▲

VISTA MASTS E3.0-3.5XN

	Maximum Fork Height h ₃ (mm) + s	Back Tilt	Overall Lowered Height (mm)	Overall Extended Height (mm)	Free lift (top of forks) h ₂ (mm) □
Vista 2-Stage limited free lift	3 309 3 709 4 209	5 5 5	2 235 2 535 2 785	3 954 * 4 354 * 4 854 *	150 150 150
Vista 2-Stage full free lift	3 502	5	2 235	3 955 *	1 590 ✕
Vista 3-Stage full free lift	4 768 5 218 5 968	5 5 5	2 235 2 385 2 735	5 395 * 5 218 * 5 968 *	1 608 ► 1 758 ► 2 108 ►

E2.2-3.5XN - capacity chart in kg @ 500 mm load centres

	Cushion Tyres															
	Maximum fork height (mm) + s	Without sideshift				With integral sideshift				Maximum fork height (mm) + s	Without sideshift			With integral sideshift		
		E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)		E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)	E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)
Vista 2-Stage limited free lift	3 492	2 200	2 200	2 500	2 500	2 160	2 160	2 450	2 450	3 309	3 000	3 200	3 500	2 930	3 120	3 410
	4 132	2 200	2 200	2 500	2 500	2 150	2 160	2 450	2 450	3 709	3 000	3 200	3 500	2 920	3 110	3 400
	4 832	2 120	2 130	2 420	2 420	2 070	2 070	2 350	2 350	4 209	3 000	3 200	3 500	2 190	3 100	3 390
Vista 2-Stage full free lift	3 502	2 200	2 200	2 500	2 500	2 160	2 160	2 450	2 450	3 310	3 000	3 200	3 500	2 930	3 120	3 410
Vista 3-Stage full free lift	5 100	2 080	2 080	2 370	2 370	2 020	2 030	2 300	2 300	4 768	2 890	3 090	3 390	2 800	2 990	3 280
	5 550	2 000	2 010	2 290	2 280	1 940	1 950	2 220	2 210	5 218	2 810	3 000	3 290	2 710	2 900	3 180
	6 000	1 920	1 930	2 200□	2 190	1 850	1 860	2 120□	2 110	5 968	2 650□	2 840□	3 120 □	2 540□	2 720□	3 000□

E2.2-3.5XN - capacity chart in kg @ 600 mm load centres

	Cushion Tyres															
	Maximum fork height (mm) + s	Without sideshift				With integral sideshift				Maximum fork height (mm) + s	Without sideshift			With integral sideshift		
		E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)	E2.2XN (700)	E2.2XN (847)	E2.5XN (700)	E2.5XN (847)		E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)	E3.0XN (847)	E3.2XN (1 015)	E3.5XN (1 015)
Vista 2-Stage limited free lift	3 492 4 132 4 832	2 030 2 020 1 940	2 030 2 020 1 950	2 300 2 290 2 210	2 300 2 290 2 210	1 950 1 940 1 860	1 950 1 940 1 870	2 210 2 200 2 120	2 210 2 200 2 120	3 309 3 709 4 209	2 760 2 760 2 750	2 940 2 940 2 930	3 210 3 210 3 200	2 640 2 640 2 630	2 810 2 810 2 800	3 070 3 070 3 060
Vista 2-Stage full free lift	3 502	2 030	2 030	2 300	2 300	1 950	1 950	2 210	2 210	3 310	2 760	2 940	3 210	2 640	2 810	3 070
Vista 3-Stage full free lift	5 100 5 550 6 000	1 900 1 820 1 740	1 900 1 830 1 750	2 160 2 080 1 900 □	2 160 2 080 1 980	1 820 1 750 1 670	1 830 1 750 1 680	2 080 2 000 1 910 □	2 070 1 990 1 900	4 768 5 218 5 968	2 650 2 560 2 400 □	2 820 2 740 2 570 □	3 090 3 000 2 830 □	2 530 2 450 2 300 □	2 700 2 620 2 460 □	2 960 2 870 2 710 □

NOTE: To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please consult your Hyster dealer. 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

DEPENDABILITY

- Redesigned mast incorporates new chain placement and hose routings that maximise fork visibility for the driver and reliable, high performance lifting.
- New robust mast design provides excellent visibility and reliable, high performance lifting.
- Strong chassis construction and reliable, long-lasting components deliver excellent durability and stability, increasing driver confidence and enhancing productivity.
- AC motor technology on traction and hoist, with built in thermal management system, allows the truck to work reliably over long runs and in demanding work cycles, reducing downtime significantly.
- The electrical system features a CANbus communications network and Hall Effect sensors for increased reliability.
- IP54 enclosed traction motors and IP65 protection of controls prevents ingress of water and dust particles, reducing the probability of truck downtime.

PRODUCTIVITY

- AC traction motor delivers smooth acceleration, fast travel and rapid direction changes with excellent torque performance. This is combined with regenerative braking to deliver efficient load handling in the toughest of applications.
- Compact dimensions deliver tight turning circles and class leading manoeuvrability when working in aisles or congested loading/unloading bays.
- Powerful 80 V battery, offering extended battery shift life and optional side battery removal, delivers superb traction and hoist performance, for fast, efficient, uninterrupted load handling and simple fast recharging keeps trucks on the move.
- Advanced design drive axle - with self-adjusting power-assisted drum brakes - and new steer axle, - featuring HSM™ (Hyster Stability Mechanism) - give the driver confidence, which increases his productivity.

ERGONOMICS

- The ergonomically designed operator compartment provides a comfortable and highly productive environment for the operator, offering generous foot space and easy on/off access.
- Low noise and whole body vibration combined with a full suspension seat with 80 mm suspension travel and a range of adjustments - ensures the operator remains comfortable over long shifts.
- The fully adjustable tilt steering column - with telescopic and memory tilt options - allows the operator to get on and off the truck quickly and easily throughout the shift, ensuring maximum comfort and increased productivity.
- The TouchPoint™ mini-lever module armrest with built in hydraulic controls, integrated directional control, emergency off switch and horn, offers the ultimate in comfort and control. Alternatively, seat-side manual levers also deliver easy load handling.
- A 'heads-up' display keeps the driver's field of vision clear but provides him with 'at a glance' information on truck operating conditions or performance settings.
- A rear grab handle with integrated horn for frequent reverse travel and an automatic park brake also contribute to ease of operation and excellent driver comfort.

LOW COST OF OWNERSHIP

- A wide choice of truck capacity, battery size and wheelbase options offers customers the best combination of battery shift life, performance and manoeuvrability to match their application needs.
- Customisable performance settings allow energy efficiency to be ideally balanced with productivity, delivering high throughput at lower operating cost.
- Extended shift life reduces the need for battery recharging, saving time and money and increasing uptime.
- The Vehicle System Manager (VSM) allows adjustment of truck performance parameters and monitors key functions, leading to application matched performance and minimum downtime.
- Fast delivery of diagnostic information enables precise troubleshooting, optional service remainder, easy maintenance planning and leads to lower operating costs.

SERVICEABILITY

- Standard 1 000 hour service interval.
- Service access is fast and unrestricted, with an easily removable two-piece floor plate providing access to brake fluid, hydraulic filter and valves, VSM, tilt cylinders and automatic park brake release.
- Battery is easily accessible thanks to the well designed hood, which opens to a wide angle with minimum effort.
- Access to diagnostic information via dash display with or plug-in port and laptop. This functionality saves technician time when setting up multiple items.
- LED master, indicator, brake and back-up lights are designed to last the lifetime of the truck. Combined with the approved LED work lights truck is bulb less.

STRONG PARTNERS. TOUGH TRUCKS.™

FOR DEMANDING OPERATIONS, EVERYWHERE.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

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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 material handling needs so you can focus on the success of your business today and in the future.



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