



VERY NARROW AISLE SERIES
V30-35ZMU

**STRONG PARTNERS.
TOUGH TRUCKS.™**

BRIGGS
EQUIPMENT MEXICO
info@BriggsEquipmentMexico.com
55-9020-5042

> V30-35ZMU SERIES

UNRIVALED VERSATILITY TO FIT YOUR APPLICATION

Hyster® very narrow aisle trucks enable operators to optimize storage capacity and efficiently retrieve pallets in high intensity operations.

With a range of model configurations, mast options and lift heights to choose from, customers can select the right solution for their specific operation. Hyster® VNA trucks are the perfect solution for working inside very narrow aisles with very high racking.

The Hyster VNA lift truck is designed for indoor use and is ideally suited for applications such as large distribution centers and high density stacking and storing. The Hyster V30-35ZMU series of lift trucks offers a host of options, including five chassis choices, three operator compartment configurations, and either 48 or 72 volt systems. These options, along with our advanced ergonomic design, allow the operator to maintain maximum productivity throughout an entire shift. Its superior energy efficiency makes the V30-35ZMU very narrow aisle turret trucks cost less to operate and helps increase your productivity.





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> V30-35ZMU SERIES

VERSATILITY

The Hyster® V30-35ZMU trucks deliver unrivaled versatility. A host of options allows you to choose the truck your application requires:

- Five chassis choices
- Three operator compartment configurations
- Standard open cab design allows easy order picking access
- 48 or 72 Volt

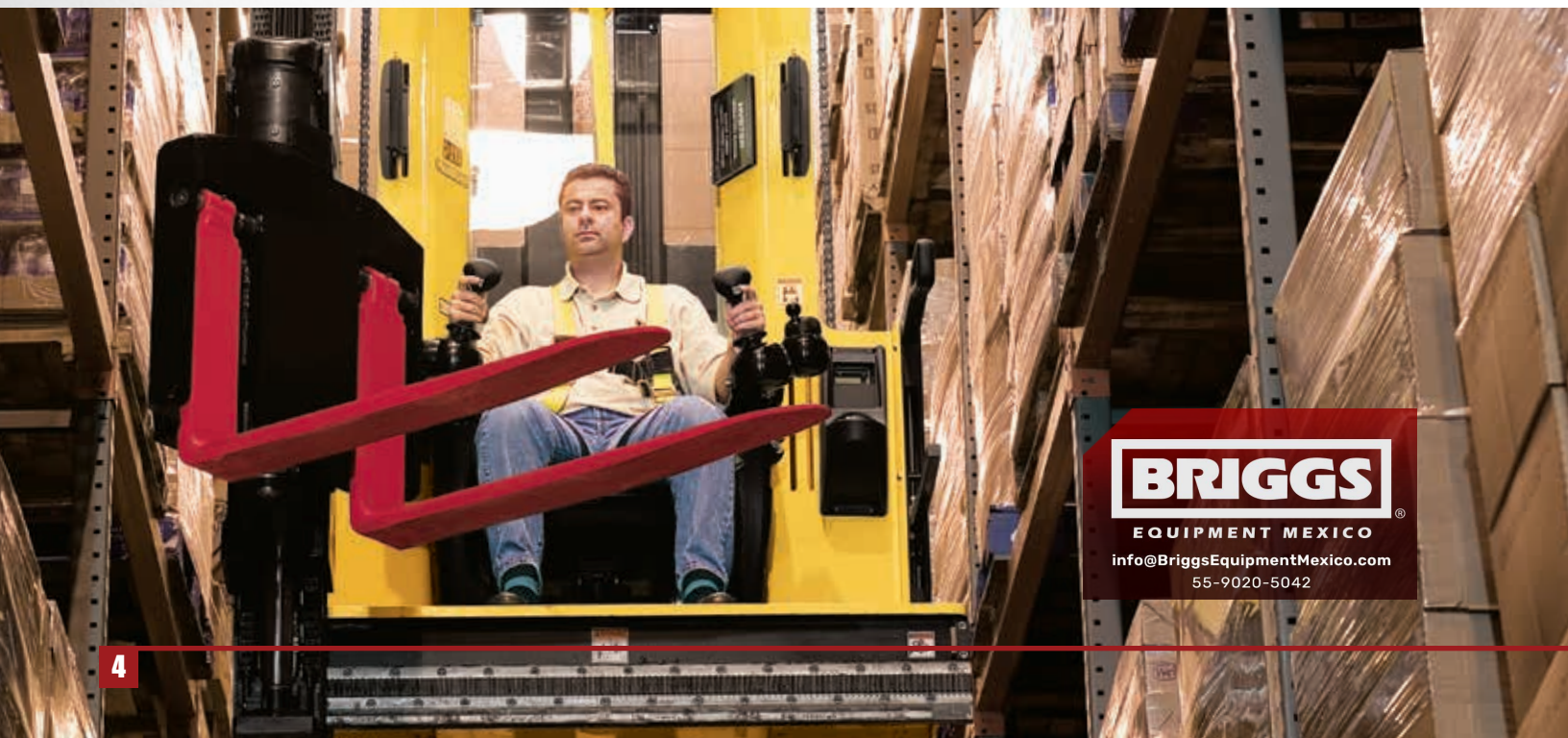
Operators can program truck performance for their preferred working style to boost productivity. Adjustable parameters include:

- Acceleration
- Travel speed
- Lift/lower speeds
- Regenerative braking force
- Lift limits
- Operator password access
- Optional load wheel brakes
- Optional freezer conditioning
- Optional freezer cab with heater
- Optional fork tilt and positioning
- Optional shuttle table

PRODUCTIVITY

The Hyster® V30-35ZMU series gives you the power to get more done.

- Hyster Company's exclusive HySense Advance feature monitors lift height and load weight to provide maximum truck performance
- Rigid tri-form or quad form mast design
- Multi-tasking design allows simultaneous operation of all truck functions
- Automatic synchronized traverse and rotation of attachment
- Automatic forks forward / centering function
- Automatic regenerative braking
- Automatic regenerative cab lowering
- An optional pre-height selector automatically reduces lift speed when the turret head approaches a pre-defined height



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LOW COST OF OWNERSHIP

Hyster Company gives you an edge over your competition with the V30-35ZMU series of very narrow aisle turret trucks that cost less to operate and helps increase your productivity.

- AC traction, hoist and steering motors have no brushes to check or replace
- Extended service intervals on major components
- Several key truck functions can be operated simultaneously without a decrease in power for enhanced efficiency and productivity
- Superior energy efficiency
- MOSFET AC Controllers
- Patent-pending hydraulic pressure compensation system
- Continuous vehicle system monitoring
- Thermal management
- Quickly identifies service needs
- CANBUS communication system reduces wiring and electrical connections

ERGONOMICS

The advanced ergonomic design of the V30-35ZMU series allows the operator to maintain maximum productivity throughout an entire shift.

- The armrests and joysticks are fully adjustable for standing or sitting operators
- Standard dome light, work lights and cabin fan optimize operator comfort and productivity
- With three-way adjustment of the forward-mounted console, operators can easily reach controls
- Superior rear visibility is provided by an open main mast design and a large rear window
- Low step height eases entry and exit
- Operator foot sensors, located under the floor board, are larger for easy activation
- The seat can swivel between 0° to 20°
- The optional forward-mounted console is completely adjustable

> V30-35ZMU SERIES

SERVICEABILITY

The V30-35ZMU series is designed for reduced service needs, so you can keep things moving. When regular maintenance is necessary, it can be done quickly.

- Key components are reached via a one piece steel motor compartment cover that opens 180°
- CANBUS communication system allows single point diagnostic access of all truck components
- The fixed position of the traction motor prevents twisting and stretching of cable connections
- Bolt-on mast bearings allow easy inspection and replacement.
- Attachment bearings are easily accessed and adjustable
- Tilt-out hydraulic control valve allows easy access to components

DEPENDABILITY

- O-ring face seal hydraulic fittings
- Sealed electrical connectors meet IP66 rating
- Optical encoders and hall effect switches provide high duty cycle operation
- Thermal management system protects key components
- Gear on gear steering design requires no adjustments
- Electronic steering and lift stops eliminate mechanical shocks to the steering and mast
- In-line hydraulic filters extend component life
- AC motors and controls deliver consistent, enhanced performance throughout the usable battery discharge cycle



SUPPORTING CUSTOMERS WITH WORLD-CLASS PARTS & SERVICE

Four Parts Distribution Centers strategically located around the world provide a full range of original equipment and aftermarket parts that help maintain our customers' uptime. In fact, our Guaranteed Availability Program ensures that parts that are normally required in the first 2 years of operation will be available from your Hyster® parts dealer within 24 hours or they are free.*

We also take that commitment into the field with the Hyster CERTECH® Certification training program. This technical training program provides both systems level as well as product-specific education to ensure lift trucks are repaired right the first time.

* Contact your local dealer for program details.

INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For over 90 years, Hyster has conquered the world's most demanding applications. In the 1920s Hyster started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — whether powered by gasoline, LPG, diesel, electric, CNG, lithium-ion or hydrogen fuel cells — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



Dealer Network — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



Hyster Fleet Services — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



Parts — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



Rental Products — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



Hyster Capital — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



Special Products Engineering Department (SPED) — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



Operator Training — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.



Service — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.

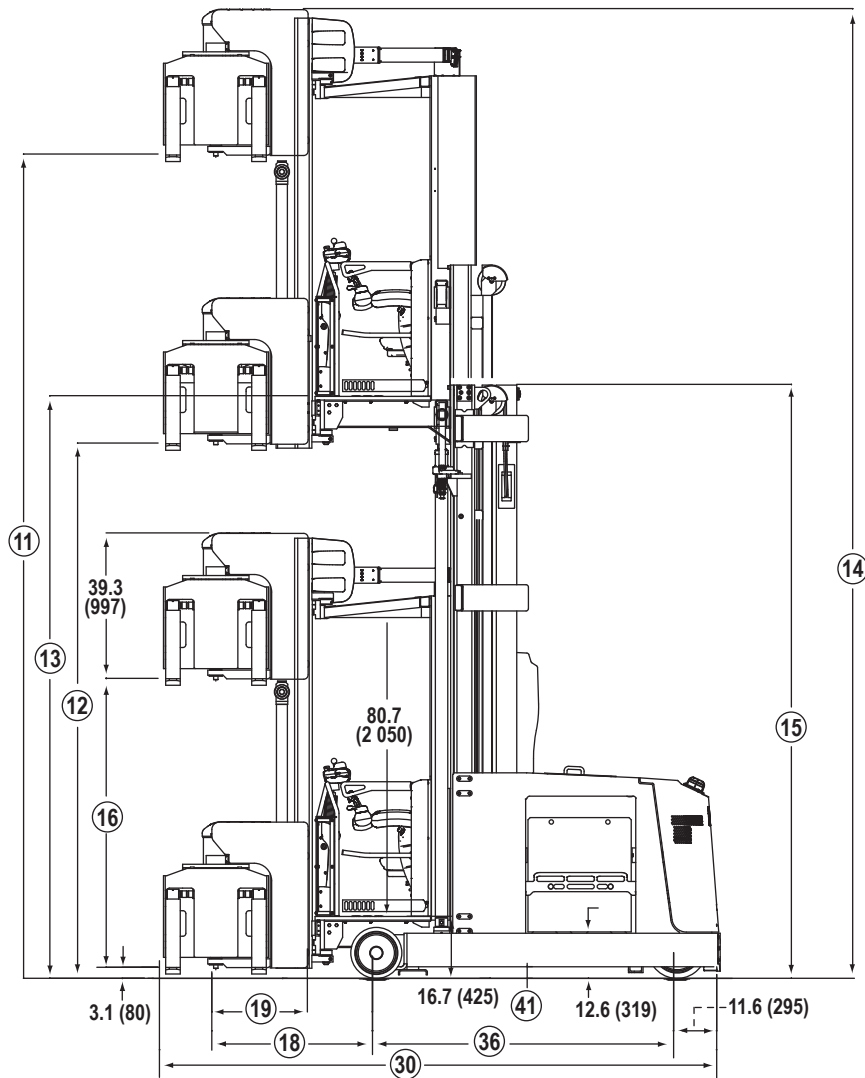
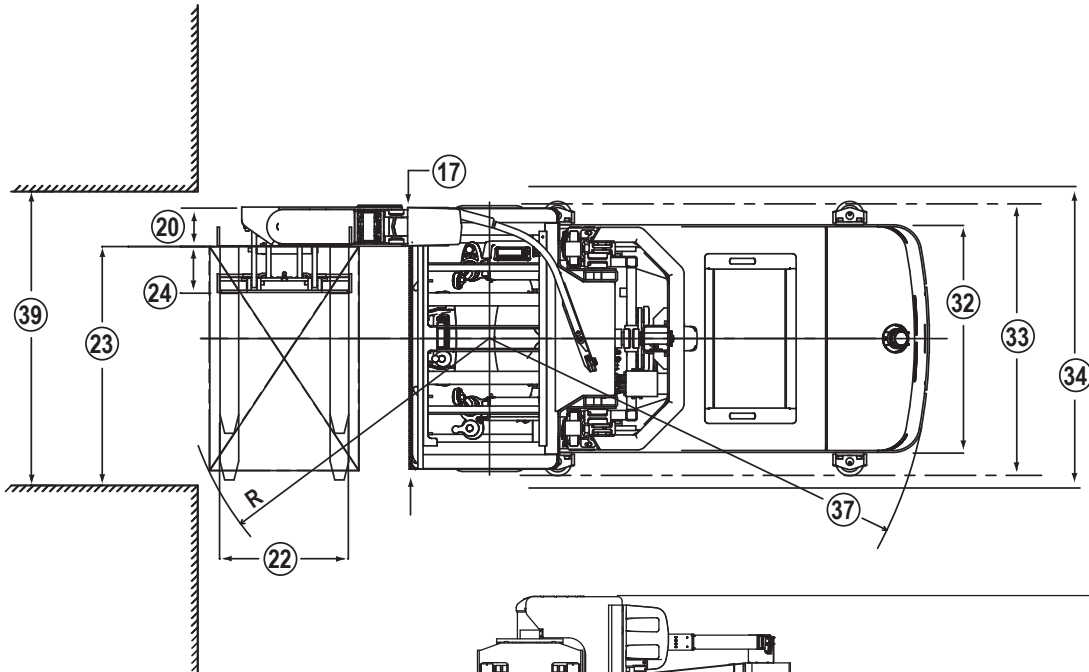
V30-35ZMU SERIES



VERY NARROW AISLE TURRET TRUCK
PRODUCT TECHNICAL GUIDE



DIMENSIONS



Circled dimensions correspond to the line numbers on the tabulated chart inside the technical guide. Dimensions are in inches (millimeters).

V30ZMU SPECIFICATIONS

		Hyster			
GENERAL	1	Manufacturer	Hyster		
	2	Model	V30ZMU		
	3	Operator type	Man-up turret - sit or stand operation		
	4	Model configuration	Wheel base designation		
	5	Capacity	Medium WB	Long WB	
	6	Load center	lb (kg)	3,000 (1360)	
	7	Power type	Distance	24 (610)	
	8	Tire type	Power type	Electric - 48 volt	
	9	Wheels	Number (x=drive), front/rear	Polyurethane/polyurethane	
	10	Mast type		2/1x	
DIMENSIONS	17	Attachment	Tri-Form		
	18	Traverse frame widths	in (mm)	47.2/55.1/61.0/66.9 (1200/1400/1500/1700)	
	19	Distance, rotator C/L to load wheel C/L, 2-stg/3-stg	in (mm)	43.3/46.3 (1101/1177)	
	20	Pivot boom length	in (mm)	26.4 (670)	
	21	Pivot boom thickness (lost rotator width)	in (mm)	8.3 (210)	
	22	Fork carriage width	in (mm)	28.3 (720)	
	23	Fork spread adjustment (outside-outside dimension), min/max	in (mm)	20.0/28.3 (508/720)	
	24	Traverse stroke	in (mm)	40/46.8/52.7/57.7 (990/1190/1340/1490)	
	25	Reach carriage stroke (pantograph)	in (mm)	4/5/6/8/10 (102/127/152/203/254)	
	26	Cab width	in (mm)	47.2/55.1/61/66.9 (1200/1400/1500/1700)	
	27	Cab depth (front of cab to operator seat back)	in (mm)	34.2 (870)	
	28	Forks	Thickness x width x length	1.75 x 4 x 42 (45 x 100 x 1066)	
	29	Type		Pin	
	30	Truck length	Headlength (chassis length to face of traverse frame), 2-stg/3-stg	in (mm)	105/108 (2669/2745)
	31	Overall truck length with tucked forks (no load), 2-stg/3-stg	in (mm)	145.6/148.6 (3698/3774)	
	32	Length to face of forks (forks forward), 2-stg/3-stg	in (mm)	135.6/138.6 (3444/3520)	
	33	Overall dimensions	Frame width	in (mm)	48 (1220)
	34	Basewidth (width across load wheels)	in (mm)	48/56/62/68 (1220/1425/1575/1725)	
	35	Width across guide rollers	in (mm)	48/56/62/68 (1220/1425/1575/1725)	
	36	Top of fork - mast lowered	in (mm)	50.2/58/64/69.9 (1275/1475/1625/1775)	
	37	Wheelbase	in (mm)	3.1 (80)	
	38	Turning radius	in (mm)	76.5 (1943)	
	39	Transfer aisle	Minimum turning radius	in (mm)	81.2 (2063)
	40	Clear aisle width	Minimum transfer aisle with tucked load, 2-stg/3-stg	in (mm)	88.6 (2250)
	41	Ground clearance	With pallet on forks, 2-stg/3-stg	in (mm)	171.3 (4352)/175.7 (4462)
	42	Lowest point (no load)	in (mm)	176.0 (4472)/180.4 (4582)	
	43	Center of wheelbase (no load)	in (mm)	Contact Sales	
	44	Total approx. weight	Standard truck (without battery)	lb (kg)	14,740 (6701)
	45	Axle loading	Static with rated load and standard mast (standard truck), front/rear	lb (kg)	15,475 (7034)
	46	Speed - travel	Travel speed, RL/NL	mph	6.5/6.5
	47	Lift speed	Main mast, RL/NL	fpm	65/83
	48	Lower speed	Auxiliary mast, RL/NL	fpm	69/77
	49	Attachment speed	Main mast, RL/NL	fpm	98/98
	50	Gradeability	Auxiliary mast, RL/NL	fpm	79/77
	51	Brakes	Traverse speed RL/NL	in per sec	7.5/7.9
52	Method of operation	Rotate speed (full 180 degree rotation), maximum speed	sec	6*	
53	Service brakes	Maximum gradeability, RL ††	%	6	
54	Tire type	Electric/mechanical			
55	Wheels	Plugging			
56	Tire size	Load/drive			
57	Tire size	Drive wheel, rear	in (mm)	15.75 x 6.3 (400 x 160)	
58	Battery type	Battery type		16 x 7 (406 x 178)	
59	Volts/max ampere hours	Volts/max ampere hours	V/AH	48/1085	
60	Weight, minimum	Weight, minimum	lb (kg)	2,976 (1350)	
61	Connector style on truck	Connector style on truck		3,087 (1400)	
62	Recommended battery lead length and connector position	Recommended battery lead length and connector position		Blue SB 350	
63	Battery sizes (with optional spacer groups), length/width	Battery sizes (with optional spacer groups), length/width	in	44.2 x 20.8	
64	Battery sizes (with optional spacer groups), length/width	Battery sizes (with optional spacer groups), length/width	in	38.7 x 23.8	
65	Battery sizes (with optional spacer groups), length/width	Battery sizes (with optional spacer groups), length/width	in	38.7 x 27	
66	Electric motors	Drive motor rating (s2 - 60 minimum rating)	kw	7.5	
67	Hoist motor rating (s3 - 25% duty cycle rating)	Hoist motor rating (s3 - 25% duty cycle rating)	kw	2 x 12	
68	Drive motor control	Drive motor control		AC - MOSFET	
69	Hoist motor control	Hoist motor control		AC - MOSFET	

CERTIFICATION: These Hyster® lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture.

† **NOTE:** Performance specifications/ratings are for truck equipped as described under standard equipment in this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company Dealer.

†† Limited by traction. For further information on this dimension, please contact your local Hyster Company dealer.

* Performance adjustable per application - factory default speed set at 7.7 seconds.

** Optional with Hyster Power Collect™

V35ZMU SPECIFICATIONS

		Hyster					
GENERAL	1	Manufacturer	Hyster				
	2	Model	V35ZMU				
	3	Operator type	Man-up turret - sit or stand operation				
	4	Model configuration	Wheel base designation	Short WB	Medium WB	Long WB	
	5	Capacity	lb (kg)	3,500 (1590)			
	6	Load center	Distance	24 (610)			
	7	Power type		Electric - 72 volt			
	8	Tire type		Polyurethane/polyurethane			
	9	Wheels	Number (x=drive), front/rear	2/1x			
	10	Mast type		Tri-form	Quad-form		
DIMENSIONS	17	Attachment	Traverse frame widths	in (mm) 47.2/55.1/61.0/66.9 (1200/1400/1500/1700)			
	18		Distance, rotator C/L to load wheel C/L, 2-stg/3-stg	43.3/46.3 (1101/1177)		43.3/49.3 (1101/1251)	
	19		Pivot boom length	in (mm) 26.4 (670)			
	20		Pivot boom thickness (lost rotator width)	in (mm) 8.3 (210)			
	21		Fork carriage width	in (mm) 28.3 (720)			
	22		Fork spread adjustment (outside-outside dimension), min/max	in (mm) 20.0/28.3 (508/720)			
	23		Traverse stroke	in (mm) 40/46.8/52.7/57.7 (990/1190/1340/1490)			
	24		Reach carriage stroke (pantograph)	in (mm) 4/5/6/8/10 (102/127/152/203/254)			
	25	Cab	Cab width	in (mm) 47.2/55.1/61/66.9 (1200/1400/1500/1700)			
	26		Cab depth (front of cab to operator seat back)	in (mm) 34.2 (870)			
	27	Forks	Thickness x width x length	in (mm) 1.75 x 4 x 42 (45 x 100 x 1066)			
	28		Type	Pin			
	29	Truck length	Headlength (chassis length to face of traverse frame), 2-stg/3-stg	in (mm) 109.8/112.8 (2789/2865)	114.9/120.8 (2919/3069)	122.6/128.5 (3114/3264)	
	30		Overall truck length with tucked forks (no load), 2-stg/3-stg	in (mm) 150.3/153.3 (3818/3894)	155.4/161.3 (3948/4098)	163.1/168 (4143/4293)	
	31		Length to face of forks (forks forward), 2-stg/3-stg	in (mm) 135.6/138.6 (3444/3520)			
	32	Overall dimensions	Frame width	in (mm) 48 (1220)			
	33		Basewidth (width across load wheels)	in (mm) 48/56/62/68 (1220/1425/1575/1725)			
	34		Width across guide rollers	in (mm) 50.2/58/64/69.9 (1275/1475/1625/1775)			
	35		Top of fork - mast lowered	in (mm) 3.1 (80)			
	36	Wheelbase		in (mm) 81.2 (2063)	86.3 (2193)	94 (2388)	
	37	Turning radius	Minimum turning radius	in (mm) 93.3 (2370)	98.2 (2495)	105.7 (2685)	
	38	Transfer aisle	Minimum transfer aisle with tucked load, 2-stg/3-stg	in (mm) 176.0 (4472)/180.4 (4582)	181.0 (4597)/186.9 (4797)	188.4 (4787)/192.8 (4897)	
	39	Clear aisle width	With pallet on forks, 2-stg/3-stg	in (mm) Contact Sales			
	40	Ground clearance	Lowest point (no load)	in (mm) 1.75 (45)			
	41		Center of wheelbase (no load)	in (mm) 2.9 (75)			
	WT.	42	Total approx. wt.	Standard truck (without battery)	lb (kg) 15,744 (7170)	16,907 (7685)	17,426 (7921)
		43	Axle loading	Static w/rated load and standard mast (std. truck), front/rear	lb (kg) 13,913/5,161 (6324/2346)	14,491/5,716 (6587/2598)	14,738/5,988 (6699/2722)
		44	Speed - travel	Travel speed, RL/NL	mph 6.5/6.5		
	PERFORMANCE †	45	Lift speed	Main mast, RL/NL	fpm 69/79		
		46		Auxiliary mast, RL/NL	fpm 69/77		
		47	Lower speed	Main mast, RL/NL	fpm 118/118		
		48		Auxiliary mast, RL/NL	fpm 79/77		
		49	Attachment speed	Traverse speed RL/NL	in per sec 7.5/7.9		
		50		Rotate speed (full 180 degree rotation), maximum speed	sec 6*		
		51	Gradeability	Maximum gradeability, RL ††	% 6		
		52	Brakes	Service brakes	Electric/mechanical		
53			Method of operation	Plugging			
WHEELS		54	Tire type	Load/drive	Polyurethane/polyurethane		
	55	Wheels	Number (x=drive), front/rear	2/1x			
	56	Tire size	Load wheels, front	in (mm) 13.78 x 5.5 (350 x 140)			
	57	Tire size	Drive wheel, rear	in (mm) 16 x 7 (406 x 178)			
ELECTRIC	58	Battery	Battery type	Lead acid Thin Plate Pure Lead** Lithium-ion**			
	59		Volts/max ampere hours	v/ah 72/775	72/930	72/1240	
	60		Weight, minimum	lb (kg) 3,307 (1500)	4,079 (1850)	4,189 (1900)	
	61		Connector style on truck	Green SB 350			
	62		Recommended battery lead length and connector position	30" position B			
	63		Battery sizes (with optional spacer groups), length/width	in 38.3 x 13.5 (x 2 - 36V battery)	38.1 x 15.8 (x 2 - 36V battery)	38.3 x 17.9 (x 2 - 36V battery)	
	64		Battery sizes (with optional spacer groups), length/width	in 37.9 x 14.0 (x 2 - 36V battery)	37.9 x 15.5 (x 2 - 36V battery)	38.7 x 20.4 (x 2 - 36V battery)	
	65		Battery sizes (with optional spacer groups), length/width	in 38.3 x 26.7 (Single 72V battery)	----	38.3 x 20.1 (x 2 - 36V battery)	
	66	Electric motors	Drive motor rating (s2 - 60 minimum rating)	kw 7.5			
	67		Hoist motor rating (s3 - 25% duty cycle rating)	kw 2 x 15			
	68		Drive motor control	AC - MOSFET			
	69		Hoist motor control	AC - MOSFET			

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†† Limited by traction. For further information on this dimension, please contact your local Hyster Company dealer.

* Performance adjustable per application - factory default speed set at 7.7 seconds.

** Optional with Hyster Power Collect™

MAST DIMENSIONS: V30ZMU-MWB, V30ZMU-LWB, V35ZMU-SW

Maximum fork height* (Top of forks) in (mm)	Overall lowered height in (mm)	Overall extended height in (mm)	Main lift maximum fork height in (mm)	Free-lift (TOF) in (mm)	Operator orderpicking height in (mm)	Operator platform height maximum in (mm)
2-STAGE TRI-FORM MAST DIMENSIONS						
232.3 (5,900)	118.1 (3,000)	271.1 (6,887)	148.0 (3,760)	84.3 (2,140)	220 (5,588)	160.8 (4,085)
255.9 (6,500)	129.5 (3,290)	294.8 (7,487)	171.6 (4,360)	84.3 (2,140)	244 (6,198)	184.4 (4,685)
279.5 (7,100)	141.3 (3,590)	318.4 (8,087)	195.3 (4,960)	84.3 (2,140)	268 (6,807)	208.1 (5,285)
302.4 (7,680)	141.3 (3,590)	341.2 (8,667)	195.3 (4,960)	107.1 (2,720)	268 (6,807)	208.1 (5,285)
302.1 (7,700)	153.1 (3,890)	342.0 (8,687)	218.9 (5,560)	84.3 (2,140)	291 (7,391)	231.7 (5,885)
326.8 (8,300)	164.9 (4,190)	365.6 (9,287)	242.5 (6,160)	84.3 (2,140)	315 (8,001)	255.3 (6,485)
337.0 (8,560)	153.1 (3,890)	375.9 (9,547)	218.9 (5,560)	118.1 (3,000)	291 (7,391)	231.7 (5,885)
350.4 (8,900)	176.8 (4,490)	389.3 (9,887)	266.1 (6,760)	84.3 (2,140)	339 (8,611)	278.9 (7,085)
360.6 (9,160)	164.9 (4,190)	399.5 (10,147)	242.5 (6,160)	118.1 (3,000)	315 (8,001)	255.3 (6,485)
374.0 (9,500)	188.6 (4,790)	412.9 (10,487)	289.8 (7,360)	84.3 (2,140)	362 (9,195)	302.6 (7,685)
381.9 (9,700)	192.5 (4,890)	420.7 (10,687)	297.6 (7,560)	84.3 (2,140)	370 (9,398)	310.4 (7,885)
384.3 (9,760)	176.8 (4,490)	423.1 (10,747)	266.1 (6,760)	107.1 (2,720)	339 (8,611)	278.9 (7,085)
396.9 (10,080)	206.3 (5,240)	435.7 (11,067)	312.6 (7,940)	84.3 (2,140)	385 (9,779)	325.4 (8,265)
407.9 (10,360)	188.6 (4,790)	446.7 (11,347)	289.8 (7,360)	118.1 (3,000)	362 (9,195)	302.6 (7,685)
2-STAGE TRI-FORM MAST DIMENSIONS - AVAILABLE ONLY ON V30ZMU-LWB AND V35ZMU-SWB						
408.7 (10,380)	212.2 (5,390)	447.5 (11,367)	324.4 (8,240)	84.3 (2,140)	397 (10,084)	337.2 (8,565)
415.7 (10,560)	192.5 (4,890)	454.6 (11,547)	297.6 (7,560)	118.1 (3,000)	370 (9,398)	310.4 (7,885)
420.5 (10,680)	218.1 (5,540)	459.3 (11,667)	336.2 (8,540)	84.3 (2,140)	409 (10,389)	349.0 (8,865)
430.7 (10,940)	206.3 (5,240)	469.6 (11,927)	312.6 (7,940)	118.1 (3,000)	385 (9,779)	325.4 (8,265)
436.2 (11,080)	226.0 (5,740)	475.1 (12,067)	352.0 (8,940)	84.3 (2,140)	424 (10,770)	364.8 (9,265)
442.5 (11,240)	212.2 (5,390)	481.4 (12,227)	324.4 (8,240)	118.1 (3,000)	397 (10,084)	337.2 (8,565)
454.3 (11,540)	218.1 (5,540)	493.2 (12,527)	336.2 (8,540)	118.1 (3,000)	409 (10,389)	349.0 (8,865)
455.9 (11,580)	235.8 (5,990)	494.8 (12,567)	371.7 (9,440)	84.3 (2,140)	444 (11,278)	384.4 (9,765)
463.8 (11,780)	239.8 (6,090)	502.6 (12,767)	379.5 (9,640)	84.3 (2,140)	452 (11,481)	392.3 (9,965)
470.0 (11,940)	226.0 (5,740)	508.9 (12,927)	352.0 (8,940)	118.1 (3,000)	424 (10,770)	364.8 (9,265)
475.6 (12,080)	245.7 (6,240)	514.4 (13,067)	391.3 (9,940)	84.3 (2,140)	464 (11,786)	404.1 (10,265)
489.8 (12,440)	235.8 (5,990)	528.6 (13,427)	371.7 (9,440)	118.1 (3,000)	444 (11,278)	384.4 (9,765)
491.3 (12,480)	253.5 (6,440)	530.2 (13,467)	407.1 (10,340)	84.3 (2,140)	479 (12,167)	419.9 (10,665)
497.6 (12,640)	239.8 (6,090)	536.5 (13,627)	379.5 (9,640)	118.1 (3,000)	452 (11,481)	392.3 (9,965)
509.4 (12,940)	245.7 (6,240)	548.3 (13,927)	391.3 (9,940)	118.1 (3,000)	464 (11,786)	404.1 (10,265)
525.2 (13,340)	253.5 (6,440)	564.1 (14,327)	407.1 (10,340)	118.1 (3,000)	479 (1,167)	419.9 (10,665)
3-STAGE TRI-FORM MAST DIMENSIONS						
227.9 (5,790)	118.1 (3,000)	266.8 (6,777)	143.7 (3,650)	84.3 (2,140)	216 (5,486)	156.5 (3,975)
250.8 (6,370)	141.1 (3,585)	289.6 (7,357)	143.7 (3,650)	107.1 (2,720)	216 (5,486)	156.5 (3,975)
280.3 (7,120)	141.1 (3,585)	319.2 (8,107)	173.2 (4,400)	107.1 (2,720)	246 (6,248)	186.0 (4,725)
320.9 (8,150)	152.2 (3,865)	359.7 (9,137)	202.8 (5,150)	118.1 (3,000)	275 (6,985)	215.6 (5,475)
350.4 (8,900)	152.2 (3,865)	389.3 (9,887)	232.3 (5,900)	118.1 (3,000)	305 (7,747)	245.1 (6,225)
368.9 (9,370)	141.1 (3,585)	407.8 (10,357)	261.8 (6,650)	107.1 (2,720)	334 (8,484)	274.6 (6,975)
375.6 (9,540)	147.2 (3,740)	414.4 (10,527)	291.3 (7,400)	84.3 (2,140)	364 (9,246)	304.1 (7,725)
405.1 (10,290)	157.1 (3,990)	440.0 (11,277)	320.9 (8,150)	84.3 (2,140)	393 (9,982)	333.7 (8,475)
409.5 (10,400)	152.2 (3,865)	448.3 (11,387)	291.3 (7,400)	118.1 (3,000)	364 (9,246)	304.1 (7,725)
3-STAGE TRI-FORM MAST DIMENSIONS - AVAILABLE ONLY ON V30ZMU-LWB AND V35ZMU-SWB						
434.6 (11,040)	166.9 (4,240)	473.5 (12,027)	350.4 (8,900)	84.3 (2,140)	423 (10,744)	363.2 (9,225)
439.0 (11,150)	157.1 (3,990)	477.8 (12,137)	320.9 (8,150)	118.1 (3,000)	393 (9,982)	333.7 (8,475)
464.2 (11,790)	176.8 (4,490)	503.0 (12,777)	379.9 (9,650)	84.3 (2,140)	452 (11,481)	392.7 (9,975)
468.5 (11,900)	166.9 (4,240)	507.4 (12,887)	350.4 (8,900)	118.1 (3,000)	423 (10,744)	363.2 (9,225)
493.7 (12,540)	186.6 (4,740)	532.6 (13,527)	409.4 (10,400)	84.3 (2,140)	482 (12,243)	422.2 (10,725)
498.0 (12,650)	176.8 (4,490)	536.9 (13,637)	379.9 (9,650)	118.1 (3,000)	452 (11,481)	392.7 (9,975)
527.6 (13,400)	186.6 (4,740)	566.4 (14,387)	409.4 (10,400)	118.1 (3,000)	482 (12,243)	422.2 (10,725)

MWB = medium wheel base ; LWB = long wheel base
 * Maximum fork height = main lift + free lift

MAST DIMENSIONS: V35ZMU-MWB, V35ZMU-LWB

Maximum fork height* (Top of forks)	Overall lowered height	Overall extended height	Main lift maximum Fork height	Free-lift (TOF)	Operator orderpicking height	Operator platform height maximum
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE QUAD-FORM MAST DIMENSIONS						
219.7 (5,580)	118.1 (3,000)	258.5 (6,567)	135.4 (3,440)	84.3 (2,140)	208 (5,283)	148.2 (3,765)
239.4 (6,080)	127.6 (3,240)	278.2 (7,067)	155.1 (3,940)	84.3 (2,140)	227 (5,766)	167.9 (4,265)
259.1 (6,580)	137.4 (3,490)	297.9 (7,567)	174.8 (4,440)	84.3 (2,140)	247 (6,274)	187.6 (4,765)
281.9 (7,160)	141.1 (3,585)	320.7 (8,147)	174.8 (4,440)	107.1 (2,720)	247 (6,274)	187.6 (4,765)
301.6 (7,660)	147.2 (3,740)	340.4 (8,647)	194.5 (4,940)	107.1 (2,720)	267 (6,782)	207.3 (5,265)
318.1 (8,080)	166.9 (4,240)	357.0 (9,067)	233.9 (5,940)	84.3 (2,140)	306 (7,772)	246.7 (6,265)
332.3 (8,440)	157.1 (3,990)	371.1 (9,427)	214.2 (5,440)	118.1 (3,000)	287 (7,290)	227.0 (5,765)
340.9 (8,660)	166.9 (4,240)	397.8 (9,647)	233.9 (5,940)	107.1 (2,720)	306 (7,772)	246.7 (6,265)
360.6 (9,160)	176.8 (4,490)	399.5 (10,147)	253.5 (6,440)	107.1 (2,720)	326 (8,280)	266.3 (6,765)
371.7 (9,440)	176.8 (4,490)	410.5 (10,427)	253.5 (6,440)	118.1 (3,000)	326 (8,280)	266.3 (6,765)
380.3 (9,660)	186.6 (4,740)	419.2 (10,647)	273.2 (6,940)	107.1 (2,720)	346 (8,788)	286.0 (7,265)
391.3 (9,940)	186.6 (4,740)	430.2 (10,927)	273.2 (6,940)	118.1 (3,000)	346 (8,788)	286.0 (7,265)
400.0 (10,160)	196.5 (4,990)	439.9 (11,147)	292.9 (7,740)	107.1 (2,720)	365 (9,271)	305.7 (7,765)
408.7 (10,380)	212.2 (5,390)	447.5 (11,367)	324.4 (8,240)	84.3 (2,140)	397 (10,084)	337.2 (8,565)
411.0 (10,440)	196.5 (4,990)	449.9 (11,427)	292.9 (7,740)	118.1 (3,000)	365 (9,271)	305.7 (7,765)
419.7 (10,660)	206.3 (5,240)	458.5 (11,647)	312.6 (7,940)	107.1 (2,720)	385 (9,779)	325.4 (8,265)
431.5 (10,960)	212.2 (5,390)	470.4 (11,947)	324.4 (8,240)	107.1 (2,720)	397 (10,084)	337.2 (8,565)
442.5 (11,240)	212.2 (5,390)	481.4 (12,227)	324.4 (8,240)	118.1 (3,000)	397 (10,084)	337.2 (8,565)
459.1 (11,660)	226.0 (5,740)	497.9 (12,647)	352.0 (8,940)	107.1 (2,720)	424 (10,770)	364.8 (9,265)
470.1 (11,940)	226.0 (5,740)	508.9 (12,927)	352.0 (8,940)	118.1 (3,000)	424 (10,770)	364.8 (9,265)
478.7 (12,160)	235.8 (5,990)	517.6 (13,147)	371.6 (9,440)	107.1 (2,720)	444 (11,278)	384.4 (9,765)
489.8 (12,440)	235.8 (5,990)	528.6 (13,427)	371.6 (9,440)	118.1 (3,000)	444 (11,278)	384.4 (9,765)
509.4 (12,940)	245.7 (6,240)	548.3 (13,927)	391.3 (9,940)	118.1 (3,000)	464 (11,786)	404.1 (10,265)
2-STAGE QUAD-FORM MAST DIMENSIONS - AVAILABLE ONLY ON V35ZMU-LWB						
514.2 (13,060)	253.5 (6,440)	553.0 (14,047)	407.1 (10,340)	107.1 (2,720)	479 (12,167)	419.9 (10,665)
525.2 (13,340)	253.5 (6,440)	564.1 (14,327)	407.1 (10,340)	118.1 (3,000)	479 (12,167)	419.9 (10,665)
3-STAGE QUAD-FORM MAST DIMENSIONS						
279.9 (7,110)	118.1 (3,000)	318.8 (8,097)	195.7 (4,970)	84.3 (2,140)	268 (6,807)	208.5 (5,295)
309.4 (7,860)	127.6 (3,240)	348.3 (8,847)	225.2 (5,720)	84.3 (2,140)	298 (7,569)	238.0 (6,045)
313.8 (7,970)	152.2 (3,865)	352.6 (8,957)	195.7 (4,970)	118.1 (3,000)	268 (6,807)	208.5 (5,295)
332.3 (8,440)	141.1 (3,585)	371.1 (9,427)	225.2 (5,720)	107.1 (2,720)	298 (7,569)	238.0 (6,045)
343.3 (8,720)	152.2 (3,865)	382.2 (9,707)	225.2 (5,720)	118.1 (3,000)	298 (7,569)	238.0 (6,045)
361.8 (9,190)	141.1 (3,585)	400.7 (10,177)	254.7 (6,470)	107.1 (2,720)	327 (8,306)	267.5 (6,795)
372.8 (9,470)	152.2 (3,865)	411.7 (10,457)	254.7 (6,470)	118.1 (3,000)	327 (8,306)	267.5 (6,795)
391.3 (9,940)	147.2 (3,740)	430.2 (10,927)	284.3 (7,220)	107.1 (2,720)	357 (9,068)	297.0 (7,545)
402.4 (10,220)	152.2 (3,865)	441.2 (11,207)	284.3 (7,220)	118.1 (3,000)	357 (9,068)	297.0 (7,545)
420.9 (10,690)	157.1 (3,990)	459.7 (11,677)	313.8 (7,970)	107.1 (2,720)	386 (9,804)	326.6 (8,295)
427.6 (10,860)	166.9 (4,240)	466.4 (11,847)	343.3 (8,720)	84.3 (2,140)	416 (10,566)	356.1 (9,045)
431.9 (10,970)	157.1 (3,990)	470.7 (11,957)	313.8 (7,970)	118.1 (3,000)	386 (9,804)	326.6 (8,295)
450.4 (11,440)	166.9 (4,240)	489.3 (12,427)	343.3 (8,720)	107.1 (2,720)	416 (10,566)	356.1 (9,045)
461.4 (11,720)	166.9 (4,240)	500.3 (12,707)	343.3 (8,720)	118.1 (3,000)	416 (10,566)	356.1 (9,045)
479.9 (12,190)	176.8 (4,490)	518.8 (13,177)	372.8 (9,470)	107.1 (2,720)	445 (11,303)	385.6 (9,795)
490.9 (12,470)	176.8 (4,490)	529.8 (13,457)	372.8 (9,470)	118.1 (3,000)	445 (11,303)	385.6 (9,795)
509.4 (12,940)	186.6 (4,740)	548.3 (13,927)	402.4 (10,220)	107.1 (2,720)	475 (12,065)	415.2 (10,545)
516.1 (13,110)	196.5 (4,990)	555.0 (14,097)	431.9 (10,970)	84.3 (2,140)	504 (12,802)	444.7 (11,295)
520.5 (13,220)	186.6 (4,740)	559.3 (14,207)	402.4 (10,220)	118.1 (3,000)	475 (12,065)	415.2 (10,545)
539.0 (13,690)	196.5 (4,990)	577.8 (14,677)	431.9 (10,970)	107.1 (2,720)	504 (12,802)	444.7 (11,295)
545.7 (13,860)	206.3 (5,240)	584.5 (14,847)	461.4 (11,720)	84.3 (2,140)	534 (13,564)	474.2 (12,045)
550.0 (13,970)	196.5 (4,990)	588.9 (14,957)	431.9 (10,970)	118.1 (3,000)	504 (12,802)	444.7 (11,295)

MWB = medium wheel base ; LWB = long wheel base

* Maximum fork height = main lift + free lift

V35ZMU-MWB, V35ZMU-LWB MAST DIMENSIONS AND BATTERY SPECIFICATIONS

Maximum fork height* (Top of forks)	Overall lowered height	Overall extended height	Main lift maximum fork height	Free-lift (TOF)	Operator orderpicking height	Operator platform height maximum
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)

3-STAGE QUAD-FORM MAST DIMENSIONS - AVAILABLE ONLY ON V35ZMU-LWB

568.5 (14,440)	206.3 (5,240)	607.4 (15,427)	461.4 (11,720)	107.1 (2,720)	534 (13,564)	474.2 (12,045)
579.5 (14,720)	206.3 (5,240)	618.4 (15,707)	461.4 (11,720)	118.1 (3,000)	534 (13,564)	474.2 (12,045)

3-STAGE QUAD-FORM MAST DIMENSIONS - AVAILABLE ONLY AS SPECIAL ORDER WITH V35ZMU-LWB

581	219	620	496	84	569	509
591	211	631	473	118	546	486
603	215	642	485	118	558	498
615	222	655	508	107	581	521
627	226	667	520	107	593	533
634	236	674	549	84	622	562
651	234	690	544	107	617	557
668	236	707	549	118	622	562

AUXILIARY MAST SPECIFICATIONS

Free lift	Overall lowered height
in (mm)	in (mm)
84.3 (2,140)	118.1 (3,000)
107.1 (2,720)	141.1 (3,585)
118.1 (3,000)	152.2 (3,865)

BATTERY SPECIFICATIONS

	V30ZMU		V35ZMU		
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
	MWB	LWB	SWB	MWB	LWB
Compartment size, L x W x H *	40 x 24 x 37 (1016 x 610 x 940)	40 x 28.7 x 37 (1016 x 730 x 940)	40 x 28.7 x 37 (1016 x 730 x 940)	40 x 33.5 x 37 (1016 x 850 x 940)	40 x 41.5 x 37 (1016 x 1 55 x 940)
Maximum battery size, L x W x H *	44.4 x 21.3 x 31 (1 127 x 540 x 787)	38.7 x 27 x 31 (983 x 686 x 787)	38 x 14 x 31** (965 x 356 x 787)	38.1 x 15.5 x 31** (969 x 403 x 787)	38.7 x 20.4 x 31** (983 x 518 x 787)
Voltage	48	48	72	72	72
Capacity, 6-hr rate (max. AH)	1,085	1,240	775**	930**	1,240**
Capacity, 6-hr rate (max. AH)	54.1	59.5	27.9	33.5	59.5
Weight, minimum	2,976 (1,350)	3,087 (1,400)	3,307 (1,500)	4,079 (1,850)	4,189 (1,900)
Weight, maximum	3,527 (1,600)	3,968 (1,800)	3,968 (1,800)	4,850 (2,200)	5,842 (2,650)

* Length is measured side to side of truck, width is measured front to back of truck. Trucks use 48 volt blue, 72 volt green battery connector.

** Truck requires two 36 volt batteries of this dimension. Series Jumper not included.

V30-35ZMU FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
AC hoist system with regenerative lowering	x	
Auto deceleration system (ADS)	x	
Operator adjustable performance modes (soft, standard, medium, hard)	x	
End of aisle slow down		x
End of aisle slow down to stop		x
End of aisle stop		x
Wire guidance - 5.25 KHz line frequency	x	
Wire guidance - 6.25 KHz line frequency		x
DRIVE	STD	OPT
15.7" x 6.2" polyurethane drive wheel	x	
13.8" x 5.5" polyurethane load wheels	x	
LIFT	STD	OPT
2-stage tri form construction mast 232" maximum lift height, 119" overall lowered height	x	
3-stage tri form construction masts		x
2-stage quad form construction masts (V35ZMU)		x
3-stage quad form construction masts (V35ZMU)		x
HANDLING	STD	OPT
28" carriage with 26" rotator	x	
1.75" x 4" x 42" pin type standard taper forks	x	
1.50" x 5" x 42" pin type standard taper forks		x
1.75" x 4" x 32" pin type standard taper forks		x
1.75" x 4" x 40" pin type standard taper forks		x
1.75" x 4" x 47" pin type standard taper forks		x
Adjustable mechanical stabilizers		x
Fixed narrow mechanical stabilizers		x
Guide rollers (adds 2" to chassis width)		x
ERGONOMICS	STD	OPT
Rotating seat with auto centering & locking position	x	
Seat side controls	x	
Multi-turn steering	x	
Sit, stand or lean operator positions	x	
Flip-up side rails with gas spring assist and interlock	x	
Flip-up full-suspension cloth seat with height adjustment	x	
Adjustable armrests independent of seat position	x	
Anti-fatigue floor mat	x	
Operator fan & dome light - OHG mounted	x	
Forward mounted controls		x
Return to center steering		x
OPERATION	STD	OPT
44.2" x 20.8" x 30.9" battery compartment	x	
Medium wheel base	x	
38.3" x 26.7" x 30.9" battery compartment (V35ZMU)	x	
Short wheel base (V35ZMU)	x	
Key switch start	x	
55" operator platform width	x	
Retractable tether with full body harness	x	
56" chassis width	x	
24v DC/DC converter (2 amp)	x	
Without battery	x	
Without charger	x	
Fully integrated canbus control system	x	
Parking brake with foot switch release	x	
Graphics display with real time truck status	x	
Battery discharge indicator with lift interrupt	x	
Integral multi-mode hour meter	x	
Real-time onboard diagnostics	x	
Active thermal management system	x	
Override for forks traverse (in MDU compartment)	x	
Manual lowering valve (in MDU compartment)	x	
Battery top access door	x	
Static discharge strap	x	
Electronic horn	x	
Power supply disconnect button	x	
One piece motor compartment cover with gas cylinder assist	x	

OPERATION (continued)	STD	OPT
Welded steel frame	x	
38.4" x 26.8" x 30.9" battery compartment		x
38.7" x 23.6" x 30.9" battery compartment		x
38.7" x 23.8" x 30.9" battery compartment		x
38.7" x 27.0" x 30.9" battery compartment		x
37.9" x 14.0" x 30.9" battery compartment (V35ZMU)		x
38.1" x 15.8" x 30.9" battery compartment (V35ZMU)		x
38.3" x 13.5" x 30.9" battery compartment (V35ZMU)		x
38.3" x 17.9" x 30.9" battery compartment (V35ZMU)		x
38.3" x 20.1" x 30.9" battery compartment (V35ZMU)		x
38.7" x 20.4" x 30.9" battery compartment (V35ZMU)		x
38.3" x 15.7" x 30.5" battery compartment (V35ZMU)		x
Long wheel base		x
Medium wheel base (V35ZMU)		x
Key switch start with operator password		x
Clip board		x
Hydraulic stabilizers		x
Lexan windshield		x
RF terminal bracket		x
Trash bin & beverage holder		x
47" operator platform width		x
61" operator platform width		x
67" operator platform width		x
Front barrier on operator platform		x
48" chassis width		x
62" chassis width		x
68" chassis width		x
Hyster Reaction™ wireless access HID prox card reader		x
Hyster Reaction™ wireless access iClass MiFare prox card reader		x
Hyster Reaction™ wireless access ISO prox card reader		x
Hyster Reaction™ wireless monitoring with cellular connectivity		x
Hyster Reaction™ wireless monitoring with WIFI connectivity		x
Hyster Reaction™ wireless verification		x
Audible alarm - reverse direction activated - self-adjusting 82-102 db(a)		x
Motion alarm - forward and reverse operation - self-adjusting 82-102 db(a)		x
12v DC/DC converter (2.4 Amp)		x
24v DC/DC converter (2 amp)		x
Installation assistance package		x
RFID control system		x
SUPPLEMENTAL	STD	OPT
English literature pack and labels	x	
Operator, parts and service manuals	x	
12 months/no hour limit full truck warranty, 36 months/6,000 hours powertrain warranty, 60 months/10,000 hour frame warranty; please see full warranty statement for additional details.	x	
Stabilizer label		x
French literature pack and labels		x
Spanish literature pack and labels		x
Multiple extended protection plans (contact warranty department for details)		x
APPEARANCE	STD	OPT
2-part poly Hyster yellow paint	x	
CONSTRUCTION	STD	OPT
UL classification type "E"	x	
Cold store construction (-40° F)		x
UL classification type "EE" - includes UL label		x
VISIBILITY	STD	OPT
Amber led strobe light, continuous operation with key on	x	
Work lights - right and left side	x	
Flashing amber strobe on motor cover and under operator compartment	x	
Wire mesh installed on top of operator compartment		x
Lexan overhead guard cover		x
Blue and red spot lights		x
ENERGY SYSTEM	STD	OPT
Lead acid	x	
Hyster Power Collect™		x




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