HYSTER"

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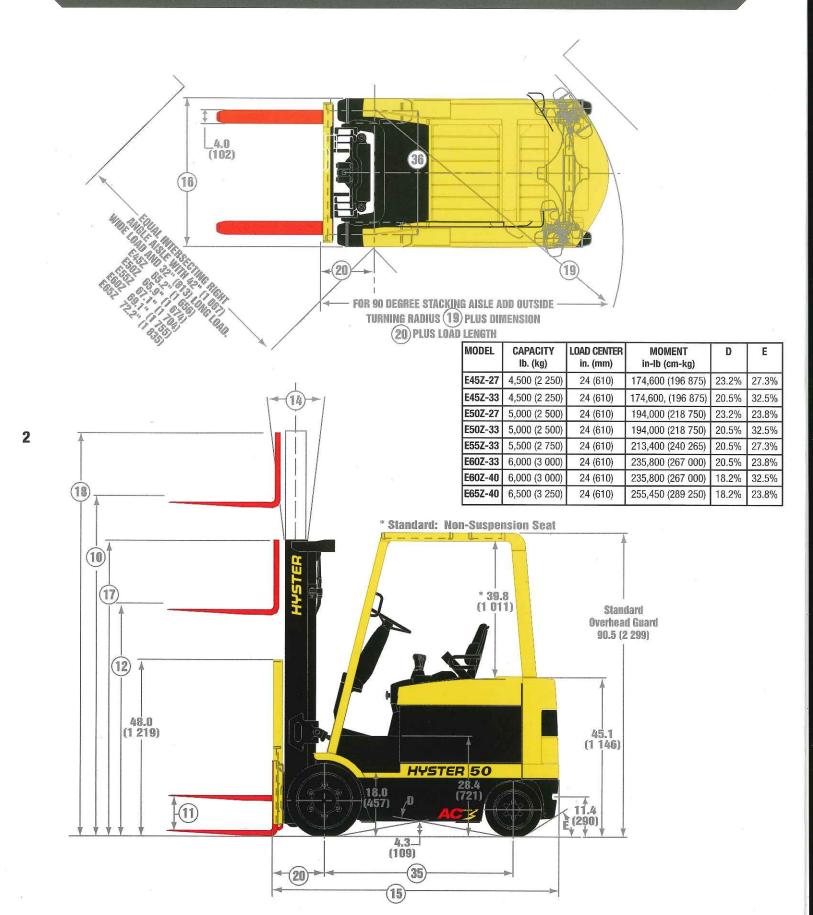


Sit-down, Counterbalance Electric, Cushion Tire Lift Truck Series



TECHNICAL GUIDE

Hyster E45-65Z Lift Truck Dimensions



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

Hyster E45Z Lift Truck Specifications

	5	N C. L.		Hyster Company	Hyster Company
		Manufacturer		E45Z (36 V)	E45Z (48 V)
		Model Consists rated	lb. (kg)	4,500 (2 041)	4,500 (2 041)
# -	_	Capacity, rated		24 (610)	24 (610)
<u> </u>	4	Load center	in. (mm)	Electric	Electric
GENERAL		Power type		Sit	Sit
		Operator type			
		Tire type, front / rear		Cushion / Cushion	Cushion / Cushion
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2
	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)
		Limited free-lift (TOF)	in, (mm)	5.5 (140)	5.5 (140)
		Optional full free-lift (TOF) with / without LBE	in. (mm)	35.8 (909) / 62.0 (1 575)	35.8 (909) / 62.0 (1 575)
	_	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)
	14	Tilt angle, forward / backward	Deg. °	5/8	5/8
DIMENSIONS	15	Length to face of forks †	in. (mm)	77.0 (1 956)	77.0 (1 956)
2	16	Width, standard tires	in. (mm)	42.1 (1 069)	42.1 (1 069)
	11000	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)
Ē		Height, std. mast extended with / without LBE	in. (mm)	179.4 (4 557) / 153.1 (3 889)	179.4 (4 557) / 153.1 (3 889)
		Turning radius, minimum outside •	in. (mm)	66.7 (1 694)	66.7 (1 694)
DESCRIPTION OF THE PERSON.	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)
	22	Aisle width (Add load length for 90° stack) **	in. (mm)	81.5 (2 070)	81.5 (2 070)
		Right angle stacking aisle (with 48" forks) ¥	in. (mm)	130.0 (3 302)	130.0 (3 302)
4.5		riight angle stacking asic (with 40 101/0)	in (inity)	100.0 (0 002)	
	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed, maximum, Extended Shift disabled NL / RL	mph (km/h)	11.0 (17.7) / 9.9 (15.9)	11.3 (18.2) / 11.3 (18.2)
		Travel speed, Extended Shift enabled NL / RL	mph (km/h)	9.9 (15.9) / 9.0 (14.5)	10.7 (17.2) / 10.0 (16.1)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	101.0 (0.51) / 58.0 (0.30)	123.0 (0.63) / 78.0 (0.40)
병		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	93.0 (0.48) / 60.0 (0.31)	123.0 (0.63) / 80.0 (0.41)
AN		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	91.0 (0.46) / 61.0 (0.31)	120.0 (0.61) / 78.0 (0.40)
PERFORMANCE		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	100.0 (0.51) / 57.0 (0.29)	126.0 (0.65) / 79.0 (0.40)
루 	26	Lowering, standard mast NL / RL	ft/min (m/s)	100.0 (0.51) / 112.0 (0.57)	100.0 (0.51) / 112.0 (0.57)
Ŧ		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	90.0 (0.46) / 103.0 (0.52)	90.0 (0.46) / 103.0 (0.52)
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	92.0 (0.47) / 106.0 (0.54)	92.0 (0.47) / 106.0 (0.54)
		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	77.0 (0.39) / 88.0 (0.45)	77.0 (0.39) / 88.0 (0.45)
	27	Gradeability, 5 min rating NL / RL	%	38 / 23	39 / 24
		Gradeability, 30 min rating NL / RL	%	25 / 15	26 / 16
- Pa	30	Weight, total approximate without battery	lb. (kg)	6,765 (3 069)	6,765 (3 069)
Ĕ S	31	Axle loading, static, front / rear - RL	lb. (kg)	12,255 (5 559) / 2,490 (1 130)	12,255 (5 559) / 2,490 (1 130)
	01	7 Vito totaling, state, more 7 total Tile	(-9/		
	33	Size of tires, drive (front)		21 x 7 x 15	21 x 7 x 15
က	34	Size of tires, steer (rear)		16 x 5 x 10.5	16 x 5 x 10.5
MHEE.	35	Wheelbase	in. (mm)	47.6 (1 209)	47.6 (1 209)
⇟	36	Tread, center of tires front / rear	in. (mm)	35.1 (892) / 36.9 (937)	35.1 (892) / 36.9 (937)
∞ŏ	37	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)
TIRES	38	Ground clearance, center wheelbase - NL	in. (mm)	4.3 (109)	4.3 (109)
	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Foot	Foot / Foot
	41	Rattery type		Lead acid	Lead acid
	42	Battery, type Battery, volts / ampere hours		36 / 1,100	48 / 800
	43	Battery, which is ampere nours	lbs. (kg)	2,300 (1 043)	2,300 (1 043)
	43	Traction motor, 60-minute rating	hp (kw)	13.0 (9.7)	13.0 (9.7)
ں		Pump motor, 15-minute rating	hp (kw)	14.0 (10.4)	14.0 (10.4)
TRIC	15	rump motor, ro-minute rating	Tip (KW)		Transistor
ECTRIC	45			ITANSISION	
ELECTRIC	45	Traction motor control method	Standard/Ontional	Transistor Contactor / Transistor	
ELECTRIC	45		Standard/Optional	Contactor / Transistor Infinitely variable	Contactor / Transistor Infinitely variable

* CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appear on the lift truck.

[†] Add 2.5" (64 mm) or add • 3.2" (81 mm) or add **1.2" (31 mm) if optional 33.11" (841 mm) battery compartment is used.

[¥] Add 3.3" (84 mm) or add § 5.8" (147 mm) if optional 33.11" (841 mm) battery compartment is used.

ç Relief pressure is 2,250 (15 513 kPa) for 3-function valve with relief cartridge and 4-function valve.

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Hyster E50Z Lift Truck Specifications

	100				
	1	Manufacturer		Hyster Company	Hyster Company
	2	Model		E50Z (36 V)	E50Z (48 V)
	3	Capacity, rated	lb. (kg)	5,000 (2 265)	5,000 (2 265)
GENERAL	4	Load center	in. (mm)	24 (610)	24 (610)
	5	Power type		Electric	Electric
9	6	Operator type		Sit	Sit
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2
		Section Control Management Control Con			000000
	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)
	11	Limited free-lift (TOF)	in. (mm)	5.5 (140)	5.5 (140)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.8 (909) / 62.0 (1 575)	35.8 (909) / 62.0 (1 575)
	13	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)
S	14	Tilt angle, forward / backward	Deg. °	5/8	5/8
DIMENSIONS	15	Length to face of forks †	in. (mm)	78.6 (1 996)	78.6 (1 996)
S	16	Width, standard tires	in. (mm)	42.1 (1 069)	42.1 (1 069)
≝	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)
	18	Height, std. mast extended with / without LBE	in. (mm)	179.4 (4 557) / 153.1 (3 889)	179.4 (4 557) / 153.1 (3 889)
	19	Turning radius, minimum outside •	in. (mm)	68.1 (1 730)	68.1 (1 730)
	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)
	22	Aisle width (Add load length for 90° stack) **	in. (mm)	82.9 (2 106)	82.9 (2 106)
		Right angle stacking aisle (with 48" forks) ¥	in. (mm)	131.3 (3 335)	131.3 (3 335)
			Darker Millerman		
	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed, maximum, Extended Shift disabled NL / RL	mph (km/h)	10.8 (17.4) / 9.6 (15.5)	11.3 (18.2) / 11.3 (18.2)
		Travel speed, Extended Shift enabled NL / RL	mph (km/h)	9.7 (15.6) / 8.7 (14.0)	10.6 (17.1) / 9.8 (15.8)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	101.0 (0.51) / 56.0 (0.28)	123.0 (0.63) / 74.0 (0.38)
핑		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	93.0 (0.48) / 58.0 (0.30)	123.0 (0.63) / 77.0 (0.39)
A		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	91.0 (0.46) / 57.0 (0.29)	120.0 (0.61) / 75.0 (0.38)
PERFORMANCE		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	100.0 (0.51) / 55.0 (0.28)	126.0 (0.65) / 77.0 (0.39)
FF.	26	Lowering, standard mast NL / RL	ft/min (m/s)	100.0 (0.51) / 113.0 (0.57)	100.0 (0.51) / 113.0 (0.57)
出		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	90.0 (0.46) / 106.0 (0.54)	90.0 (0.46) / 106.0 (0.54)
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	92.0 (0.47) / 108.0 (0.55)	92.0 (0.47) / 108.0 (0.55)
		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	77.0 (0.39) / 91.0 (0.46)	77.0 (0.39) / 91.0 (0.46)
	27	Gradeability, 5 min rating NL / RL	%	36 / 22	37 / 22
		Gradeability, 30 min rating NL / RL	%	23 / 14	25 / 15
	30	Weight, total approximate without battery	lb. (kg)	7,215 (3 272)	7,215 (3 272)
M_	31	Axle loading, static, front / rear - RL	lb. (kg)	13,160 (5 969) / 2,580 (1 170)	13,160 (5 969) / 2,580 (1 170)
		The founding saddy note found	ib. (reg)	10,100 (0 000) / 2,000 (1 170)	10,100 (0 000) 7 2,000 (1 110)
	33	Size of tires, drive (front)		21 x 7 x 15	21 x 7 x 15
တ	34	Size of tires, steer (rear)		16 x 5 x 10.5	16 x 5 x 10.5
丽	35	Wheelbase §	in. (mm)	47.6 (1 209)	47.6 (1 209)
WHEEL	36	Tread, center of tires front / rear	in. (mm)	35.1 (892) / 36.9 (937)	35.1 (892) / 36.9 (937)
6	37	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)
TIRES	38	Ground clearance, center wheelbase - NL	in. (mm)	4.3 (109)	4.3 (109)
Ë	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Foot	Foot / Foot
	44	Potton, time		Land id	I gast used
8,23	41	Battery, type		Lead acid	Lead acid
	42	Battery, volts / ampere hours	11 11.23	36 / 1,100	48 / 800
()	43	Battery, minimum Traction mater 60 minute ration	lbs. (kg)	2,300 (1 043)	2,300 (1 043)
ELECTRIC	44 4E	Traction motor, 60-minute rating	hp (kw)	13.0 (9.7)	13.0 (9.7)
EC	45	Pump motor, 15-minute rating	hp (kw)	14.0 (10.4)	14.0 (10.4)
品	H	Traction motor control method	Cton doud (O-ti)	Transistor	Transistor
		Pump motor control method	Standard/Optional	Contactor / Transistor	Contactor / Transistor
1000		Number of speeds	200 220	Infinitely variable	Infinitely variable
Tem.	55	Relief pressure for attachments Ç	psi (kPA)	2,250 (15 513)	2,250 (15 513)

^{*} CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appear on the lift truck.

[†] Add 2.5" (64 mm) or add • 3.2" (81 mm) or add **1.2" (31 mm) if optional 33.11" (841 mm) battery compartment is used.

[¥] Add 3.3" (84 mm) or add § 5.8" (147 mm) if optional 33.11" (841 mm) battery compartment is used.

ç Relief pressure is 2,250 (15 513 kPa) for 3-function valve with relief cartridge and 4-function valve.

Hyster E55Z Lift Truck Specifications

100	-1	Manufacturer		Hyster Company	Hyster Company
		Model		E55Z (36 V)	E55Z (48 V)
37 111	1400.0	Capacity, rated	lb. (kg)	5,500 (2 495)	5,500 (2 495)
A.	4	Load center	in. (mm)	24 (610)	24 (610)
GENERAL	_	Power type	11. (11111)	Electric	Electric
GE		Operator type		Sit	Sit
				Cushion / Cushion	Cushion / Cushion
	_	Tire type, front / rear	0/ 12		
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2
	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)
N. ST		Limited free-lift (TOF)	in, (mm)	5.5 (140)	5.5 (140)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.8 (909) / 62.0 (1 575)	35.8 (909) / 62.0 (1 575)
		Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)
	14	Tilt angle, forward / backward	Deg. °	5/8	5/8
SNC	15	Length to face of forks	in. (mm)	82.8 (2 103)	82.8 (2 103)
Sic	16	Width, standard tires	in. (mm)	42.1 (1 069)	42.1 (1 069)
DIMENSIONS		Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)
ā		Height, std. mast extended with / without LBE	in. (mm)	179.4 (4 557) / 153.1 (3 889)	179.4 (4 557) / 153.1 (3 889)
		Turning radius, minimum outside	in. (mm)	72.9 (1 852)	72.9 (1 852)
8,744	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	87.7 (2 228)	87.7 (2 228)
		Right angle stacking aisle (with 48" forks)	in. (mm)	136.0 (3 454)	136.0 (3 454)
		Right angle stacking aisle (with 48 Torks)	111. (11111)	130.0 (3 434)	130.0 (3 434)
T ST	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed, maximum, Extended Shift disabled NL / RL	mph (km/h)	10.8 (17.4) / 9.4 (15.1)	11.3 (18.2) / 11.3 (18.2)
		Travel speed, Extended Shift enabled NL / RL	mph (km/h)	9.7 (15.6) / 8.6 (13.8)	10.6 (17.1) / 9.6 (15.5)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	101.0 (0.51) / 54.0 (0.27)	123.0 (0.63) / 71.0 (0.36)
ш		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	93.0 (0.47) / 57.0 (0.29)	123.0 (0.63) / 75.0 (0.38)
PERFORMANCE		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	91.0 (0.46) / 55.0 (0.28)	120.0 (0.61) / 73.0 (0.37)
™		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	100.0 (0.51) / 54.0 (0.27)	126.0 (0.64) / 74.0 (0.38)
효	26	Lowering, standard mast NL / RL	ft/min (m/s)	100.0 (0.51) / 115.0 (0.58)	100.0 (0.51) / 115.0 (0.58)
띮		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	90.0 (0.46) / 109.0 (0.55)	90.0 (0.46) / 109.0 (0.55)
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	92.0 (0.47) / 110.0 (0.56)	92.0 (0.47) / 110.0 (0.56)
		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	77.0 (0.39) / 95.0 (0.48)	77.0 (0.39) / 95.0 (0.48)
	27	Gradeability, 5 min rating NL / RL	%	35 / 20	36 / 21
		Gradeability, 30 min rating NL / RL	%	23 / 13	24 / 14
Citana		aradoability, 50 militrating NE7 Tie			
WT.	30	Weight, total approximate without battery	lb. (kg)	6,925 (3 141)	6,925 (3 141)
3	31	Axle loading, static, front / rear - RL	lb. (kg)	13,970 (6 337) / 2,405 (1 091)	13,970 (6 337) / 2,405 (1 091)
E E	22	Size of tires, drive (front)		21 x 7 x 15	21 x 7 x 15
	33	Size of tires, (steer) rear		16 x 5 x 10.5	16 x 5 x 10.5
ELS			in. (mm)	53.4 (1 356)	53.4 (1 356)
Ш	35	Wheelbase			35.1 (892) / 36.9 (937)
4	20	Tread center of tires front / rear	in (mm)	35 1 (892) / 36 9 (937)	
WHEEL	36	Tread, center of tires front / rear	in. (mm)	35.1 (892) / 36.9 (937) 3.6 (91)	The state of the s
∞	37	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)
∞	37 38	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL	The state of the s	3.6 (91) 4.3 (109)	3.6 (91) 4.3 (109)
	37 38 39	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking	in. (mm)	3.6 (91) 4.3 (109) Hydraulic / Mechanical	3.6 (91) 4.3 (109) Hydraulic / Mechanical
∞	37 38	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL	in. (mm)	3.6 (91) 4.3 (109)	3.6 (91) 4.3 (109)
∞	37 38 39 40	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking	in. (mm)	3.6 (91) 4.3 (109) Hydraulic / Mechanical	3.6 (91) 4.3 (109) Hydraulic / Mechanical
∞	37 38 39 40	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type	in. (mm)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot
∞	37 38 39 40 41 42	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type Battery, volts / ampere hours	in. (mm) in. (mm)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid
TIRES &	37 38 39 40 41 42 43	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type Battery, volts / ampere hours Battery, minimum	in. (mm) in. (mm)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 36 / 1,100	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 48 / 800
TIRES &	37 38 39 40 41 42 43 44	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type Battery, volts / ampere hours Battery, minimum Traction motor, 60-minute rating	in. (mm) in. (mm) lbs. (kg) hp (kw)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 36 / 1,100 2,300 (1 043)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 48 / 800 2,300 (1 043)
TIRES &	37 38 39 40 41 42 43	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type Battery, volts / ampere hours Battery, minimum Traction motor, 60-minute rating Pump motor, 15-minute rating	in. (mm) in. (mm)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 36 / 1,100 2,300 (1 043) 13.0 (9.7)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 48 / 800 2,300 (1 043) 13.0 (9.7)
∞	37 38 39 40 41 42 43 44	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type Battery, volts / ampere hours Battery, minimum Traction motor, 60-minute rating Pump motor, 15-minute rating Traction motor control method	in. (mm) in. (mm) in. (kg) lbs. (kg) hp (kw) hp (kw)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 36 / 1,100 2,300 (1 043) 13.0 (9.7) 14.0 (10.4) Transistor	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 48 / 800 2,300 (1 043) 13.0 (9.7) 14.0 (10.4)
TIRES &	37 38 39 40 41 42 43 44	Ground clearance, lowest point - NL Ground clearance, center wheelbase - NL Brakes, method of control, service / parking Brakes, method of operation, service / parking Battery, type Battery, volts / ampere hours Battery, minimum Traction motor, 60-minute rating Pump motor, 15-minute rating	in. (mm) in. (mm) lbs. (kg) hp (kw)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 36 / 1,100 2,300 (1 043) 13.0 (9.7) 14.0 (10.4)	3.6 (91) 4.3 (109) Hydraulic / Mechanical Foot / Foot Lead acid 48 / 800 2,300 (1 043) 13.0 (9.7) 14.0 (10.4) Transistor

^{*} CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appear on the lift truck.

ç Relief pressure is 2,250 (15 513 kPa) for 3-function valve with relief cartridge and 4-function valve.

Hyster E60Z Lift Truck Specifications

		A 2 00 - 10 - 10 - 10 - 10 - 10 - 10 - 10		221 00 221	
N. I.S.	1	Manufacturer		Hyster Company	Hyster Company
	2	Model		E60Z (36 V)	E60Z (48 V)
=	3	Capacity, rated	lb. (kg)	6,000 (2 722)	6,000 (2 722)
GENERAL	4	Load center	in. (mm)	24 (610)	24 (610)
点	5	Power type		Electric	Electric
J	6	Operator type		Sit	Sit
THE RES	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion
-5,555	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2
	10	2-stg. LFL (T0F)	· /- /	400 5 (0.040)	722 - 12 - 13 - 13
	11		in. (mm)	126.5 (3 213)	126.5 (3 213)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	6.0 (152)	6.0 (152)
	13	Forks, width / thickness	in. (mm) in. (mm)	35.8 (909) / 58.6 (1 488) 5.0 (127) / 2.0 (51)	35.8 (909) / 58.6 (1 488) 5.0 (127) / 2.0 (51)
	14	Tilt angle, forward / backward	Deg. °	5/8	5.0 (127) / 2.0 (51)
DIMENSIONS	15	Length to face of forks	in. (mm)	84.5 (2 146)	
Sic	16	Width, standard tires	in. (mm)	43.5 (1 105)	84.5 (2 146) 43.5 (1 105)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)
言	18		in. (mm)	174.6 (4 435) / 151.8 (3 586)	174.6 (4 435) / 151.8 (3 586)
	19	Turning radius, minimum outside	in. (mm)	74.4 (1 890)	74.4 (1 890)
	20	Center of wheel to face of forks	in. (mm)	15.3 (389)	15.3 (389)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	89.7 (2 278)	89.7 (2 278)
50		Right angle stacking aisle (with 48" forks)	in. (mm)	137.5 (3 493)	137.5 (3 493)
				107.0 (0 100)	107.0 (0 400)
	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed, maximum, Extended Shift disabled NL / RL	mph (km/h)	10.6 (17.1) / 9.1 (14.6)	11.3 (18.2) / 11.3 (18.2)
100		Travel speed, Extended Shift enabled NL / RL	mph (km/h)	9.5 (15.3) / 8.3 (13.4)	10.4 (16.7) / 9.4 (15.1)
9 1167	25	Lift speed, standard mast NL / RL	ft/min (m/s)	93.0 (0.47) / 49.0 (0.25)	116.0 (0.59) / 64.0 (0.33)
PERFORMANCE	_	Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.0 (0.42) / 49.0 (0.25)	109.0 (0.55) / 65.0 (0.33)
MAI		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	81.0 (0.41) / 49.0 (0.25)	105.0 (0.53) / 65.0 (0.33)
OR	00	Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	100.0 (0.51) / 53.0 (0.27)	126.0 (0.64) / 72.0 (0.37)
뚪	26	Lowering, standard mast NL / RL	ft/min (m/s)	90.0 (0.46) / 110.0 (0.56)	90.0 (0.46) / 110.0 (0.56)
Д		Opt. 2-stage FFL mast NL / RL Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	72.0 (0.37) / 103.0 (0.52)	72.0 (0.37) / 103.0 (0.52)
		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	78.0 (0.40) / 105.0 (0.53)	78.0 (0.40) / 105.0 (0.53)
	27	Gradeability, 5 min rating NL / RL	ft/min (m/s)	77.0 (0.39) / 99.0 (0.50) 32 / 19	77.0 (0.39) / 99.0 (0.50)
	LI	Gradeability, 30 min rating NL / RL			33 / 19
-		diadeability, 30 militrating NE / NE	%	21 / 12	22 / 13
WT.	30	Weight, total approximate without battery	lb. (kg)	7,525 (3 413)	7,525 (3 413)
\$	31	Axle loading, static, front / rear - RL	lb. (kg)	14,935 (6 775) / 2,675 (1 213)	14,935 (6 775) / 2,675 (1 213)
2	33	Size of tires, drive (front)		21 x 8 x 15	21 2 15
S	34	Size of tires, steer (rear)		16 x 6 x 10.5	21 x 8 x 15 16 x 6 x 10.5
E	35	Wheelbase	in. (mm)	53.4 (1 356)	53.4 (1 356)
WHEEL	36	Tread, center of tires front / rear	in. (mm)	35.5 (902) / 35.9 (912)	35.5 (902) / 35.9 (912)
~	37	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)
100000000000000000000000000000000000000	38	Ground clearance, center wheelbase - NL	in. (mm)	4.3 (109)	4.3 (109)
#	39	Brakes, method of control, service / parking	(*********************************	Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Foot	Foot / Foot
		- 100 Marie 100			in contractor suppression
	41	Battery, type		Lead acid	Lead acid
1000	42	Battery, volts / ampere hours		36 / 1,300	48 / 1,000
()	43	Battery, minimum	lbs. (kg)	2,900 (1 315)	2,900 (1 315)
IB(44	Traction motor, 60-minute rating	hp (kw)	13.0 (9.7)	13.0 (9.7)
ELECTRIC	45	Pump motor, 15-minute rating Traction motor control method	hp (kw)	14.0 (10.4)	14.0 (10.4)
前		Pump motor control method	Ctondard/Outland	Transistor Contactor / Transistor	Transistor
324		Number of speeds	Standard/Optional	Contactor / Transistor	Contactor / Transistor
No.	EE		m c1 (1.DA)	Infinitely variable	Infinitely variable
100 0	55	Relief pressure for attachments ç	psi (kPA)	2,250 (15 513)	2,250 (15 503)

* CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appear on the lift truck.

ç Relief pressure is 2,250 (15 513 kPa) for 3-function valve with relief cartridge and 4-function valve.

Hyster E65Z Lift Truck Specifications

3 100	4	Manufacturer		Hyster Company	Hyster Company
	2	Model		E65Z (36 V)	E65Z (48 V)
	3	Capacity, rated	lb. (kg)	6,500 (2 948)	6,500 (2 948)
ZAL S	4	Load center	in. (mm)	24 (610)	24 (610)
GENERAL	5	Power type	THE ARTHURY	Electric	Electric
田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	6	Operator type		Sit	Sit
	7			Cushion / Cushion	Cushion / Cushion
100	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2
	U	Wileds, Holit / Total	(X=driveri)	ZIVI Z	EN L
	10		in. (mm)	126.5 (3 213)	126.5 (3 213)
	11	Limited free-lift (TOF)	in. (mm)	6.0 (152)	6.0 (152)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	34.2 (869) / 58.6 (1 488)	34.2 (869) / 58.6 (1 488)
	13	Forks, width / thickness	in. (mm)	5.0 (127) / 2.0 (51)	5.0 (127) / 2.0 (51)
S	14	Tilt angle, forward / backward	Deg. °	5/8	5/8
NO	15	Length to face of forks	in. (mm)	91.2 (2 317)	91.2 (2 317)
DIMENSIONS	16	Width, standard tires	in. (mm)	43.5 (1 105)	43.5 (1 105)
IME	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)
	18	Height, std. mast extended with / without LBE	in. (mm)	174.6 (4 435) / 151.8 (3 586)	174.6 (4 435) / 151.8 (3 586)
(interior	19	Turning radius, minimum outside	in. (mm)	81.5 (2 070)	81.5 (2 070)
1	20	Center of wheel to face of forks	in. (mm)	15.3 (389)	15.3 (389)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	96.8 (2 459)	96.8 (2 459)
BEIL		Right angle stacking aisle (with 48" forks)	in. (mm)	144.6 (3 673)	144.6 (3 673)
	23	Stability (Comply with ANSI?) *		YES	YES
100	24	Travel speed, maximum, Extended Shift disabled NL / RL	mph (km/h)	10.6 (17.1) / 9.0 (14.5)	11.3 (18.2) / 11.3 (18.2)
		Travel speed, Extended Shift enabled NL / RL	mph (km/h)	9.5 (15.3) / 8.2 (13.2)	10.4 (16.7) / 9.3 (15.0)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	93.0 (0.47) / 47.0 (0.24)	116.0 (0.59) / 62.0 (0.32)
ш		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.0 (0.42) / 48.0 (0.24)	109.0 (0.55) / 63.0 (0.32)
ANC		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	81.0 (0.41) / 48.0 (0.24)	105.0 (0.53) / 63.0 (0.32)
PERFORMANCE		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	100.0 (0.51) / 52.0 (0.26)	126.0 (0.64) / 70.0 (0.36)
<u>E</u>	26	Lowering, standard mast NL / RL	ft/min (m/s)	90.0 (0.46) / 112.0 (0.57)	90.0 (0.46) / 112.0 (0.57)
H		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	72.0 (0.37) / 105.0 (0.53)	72.0 (0.37) / 105.0 (0.53)
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	78.0 (0.40) / 107.0 (0.54)	78.0 (0.40) / 107.0 (0.54)
		Opt. 4-stage FFL mast NL / RL	ft/min (m/s)	77.0 (0.39) / 103.0 (0.52)	77.0 (0.39) / 103.0 (0.52)
200	27	Gradeability, 5 min rating NL / RL	%	31 / 18	31 / 19
		Gradeability, 30 min rating NL / RL	%	21 / 12	22 / 12
VI.	30	Weight, total approximate without battery	lb. (kg)	7,154 (3 245)	7,154 (3 245)
WT.	31	Axle loading, static, front / rear - RL	lb. (kg)	15,705 (7 124) / 2,530 (1 148)	15,705 (7 124) / 2,530 (1 148)
AL 15	01	Actio loading, statio, none/real Tie	10. (119)	10,700 (7 12 1) 7 2,000 (1 1 10)	10,700 (7 121) / 2,000 (1 110)
	33	Size of tires, drive (front)		21 x 8 x 15	21 x 8 x 15
S	34	Size of tires, steer (rear)		16 x 6 x 10.5	16 x 6 x 10.5
WHEEL	35	Wheelbase	in. (mm)	60.0 (1 524)	60.0 (1 524)
喜	36	Tread, center of tires front / rear	in. (mm)	35.5 (902) / 35.9 (912)	35.5 (902) / 35.9 (912)
8	37	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)
TIRES &	38	Ground clearance, center wheelbase - NL	in. (mm)	4.3 (109)	4.3 (109)
F	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Foot	Foot / Foot
	41	Battery, type		Lead acid	Lead acid
	42	Battery, volts / ampere hours		36 / 1,600	48 / 1,200
	43	Battery, minimum	lbs. (kg)	3,420 (1 551)	3,420 (1 551)
<u></u>	44	Traction motor, 60-minute rating	hp (kw)	13.0 (9.7)	13.0 (9.7)
ELECTRIC	45	Pump motor, 15-minute rating	hp (kw)	14.0 (10.4)	14.0 (10.4)
Ä	-10.50	Traction motor control method		Transistor	Transistor
		Pump motor control method	Standard/Optional	Contactor / Transistor	Contactor / Transistor
		Number of speeds		Infinitely variable	Infinitely variable
	55	Relief pressure for attachments ç	psi (kPA)	2,250 (15 513)	2,250 (15 503)

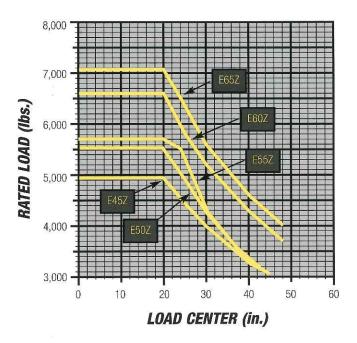
^{*} CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appear on the lift truck.

ç Relief pressure is 2,250 (15 513 kPa) for 3-function valve with relief cartridge and 4-function valve.

Hyster E45-65Z Lift Truck Rated Capacities

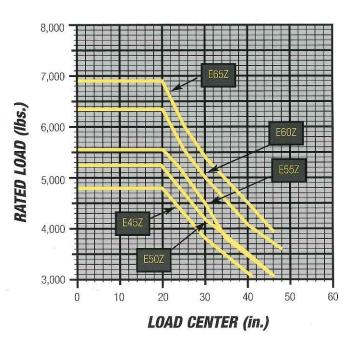
RATED LOAD vs. LOAD CENTER

STANDARD CARRIAGE
U. S. CUSTOMARY



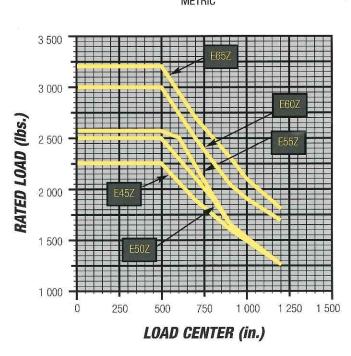
RATED LOAD vs. LOAD CENTER

INTEGRAL SIDESHIFT ATTACHMENT U. S. CUSTOMARY



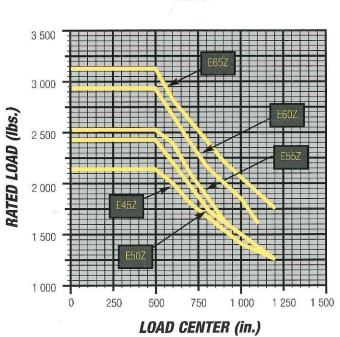
RATED LOAD vs. LOAD CENTER

STANDARD CARRIAGE METRIC



RATED LOAD vs. LOAD CENTER

INTEGRAL SIDESHIFT ATTACHMENT METRIC



Hyster E45-65Z Mast Specifications

E45-55Z MAST DIMENSION	S			PERSONAL REPORTED AND IN
Maximum Fork Height † (Top of Forks) in. (mm)	Overall Lowered Height in. (mm)	Overall Extended Height With Load Backrest Ext. in. (mm)	Overall Extended Height w/o Load Backrest Ext. in. (mm)	* Free-Lift (TOF) w/o Load Backrest Ext. †† in. (mm)
2-STAGE LIMITED FREE-LIFT (LF	FL) VISTA			
84.5 (2 146)	60.5 (1 537)	132.0 (3 353)	106.0 (2 692)	5.5 (140)
119.5 (3 035)	78.0 (1 981)	167.5 (4 255)	141.5 (3 594)	5.5 (140)
131.0 (3 327)	84.0 (2 134)	179.5 (4 559)	153.0 (3 886)	5.5 (140)
151.0 (3 835)	94.0 (2 388)	199.0 (5 055)	173.0 (4 394)	5.5 (140)
2-STAGE FULL FREE-LIFT (FFL)	VISTA			
118.0 (2 997)	78.0 (1 981)	167.0 (4 242)	141.0 (3 581)	56.0 (1 422)
130.0 (3 302)	84.0 (2 134)	179.0 (4 547)	153.0 (3 886)	62.0 (1 575)
3-STAGE FULL FREE-LIFT (FFL)	VISTA (Requires Restricted B	ack Tilt)		
171.5 (4 356)	76.0 (1 930)	219.5 (5 575)	192.5 (4 890)	55.0 (1 397)
189.0 (4 801)	82.0 (2 083)	237.0 (6 020)	210.0 (5 334)	61.0 (1 549)
218.5 (5 550)	94.0 (2 388)	267.0 (6 782)	240.0 (6 096)	72.5 (1 842)
4-STAGE FULL FREE-LIFT (FFL)	VISTA (Requires 4 degrees R	estricted Back Tilt)		
240.0 (6 096)	84.0 (2 134)	288.0 (7 315)	261.5 (6 642)	61.0 (1 549)

[†] Lift heights over 171.5" (4 355 mm) maximum fork height may require reduced capacity, restricted back tilt and may require wide tread.

^{††} Subtract 10.8" (275 mm) with 2-stage FFL, and 12.8" (325 mm) with 3-stage FFL when truck has 3- or 4-function valve and header hoses.

Maximum Fork Height † (Top of Forks) in. (mm)	Overall Lowered Height in. (mm)	Overall Extended Height With Load Backrest Ext. in. (mm)	Overall Extended Height w/o Load Backrest Ext. in. (mm)	* Free-Lift (TOF) w/o Load Backrest Ext. †† in. (mm)
2-STAGE LIMITED FREE-LIFT (LI	FL) VISTA			
126.5 (3 215)	84.0 (2 135)	174.5 (4 435)	152.0 (3 860)	6.0 (150)
146.0 (3 710)	94.0 (2 390)	194.5 (4 940)	171.5 (4 355)	6.0 (150)
2-STAGE FULL FREE-LIFT (FFL)	VISTA			
126.5 (3 215)	84.0 (2 135)	174.5 (4 435)	152.0 (3 860)	58.5 (1 485)
3-STAGE FULL FREE-LIFT (FFL)	VISTA (Requires Restricted B	ack Tilt)		
164.0 (4 165)	76.0 (1 930)	212.5 (5 400)	189.0 (4 800)	51.5 (1 310)
182.0 (4 625)	82.0 (2 083)	230.0 (5 840)	206.5 (5 245)	57.5 (1 460)
193.5 (4 915)	88.0 (2 235)	242.0 (6 145)	218.5 (5 550)	63.5 (1 615)
211.5 (5 370)	94.0 (2 390)	259.5 (6 590)	236.0 (5 995)	69.0 (1 755)
4-STAGE FULL FREE-LIFT (FFL)	VISTA (Requires 4 degrees R	estricted Back Tilt)		
240.0 (6 096)	84.0 (2 134)	288.0 (7 315)	261.5 (6 642)	61.0 (1 549)

[†] Lift heights over 164.0" (4 166 mm) maximum fork height may require reduced capacity, restricted back tilt and may require wide tread.

^{*} If load backrest extension is used on 2-stage FFL, subtract 26.3" (665 mm), or 3-stage FFL, subtract 27.0" (685 mm).

^{*} If load backrest extension is used on 2-stage FFL, subtract 26.3" (665 mm), or 3-stage FFL, subtract 27.0" (685 mm).

^{††} Subtract 7.9" (200 mm) with 2-stage FFL, and 24.5" (620 mm) with 3-stage FFL when truck has 3- or 4-function valve and header hoses.

BATTERY SPECIFICATIONS		E45-50Z-27"	E45-60Z-33"	E65Z-40"
Compartment size, L x W x H *	in	38.9 x 27.4 x 24.4	38.9 x 33.2 x 24.4	38.9 x 39.8 x 24.4
***	(mm)	(987 x 695 x 620)	(987 x 842 x 620)	(987 x 1 010 x 620)
Maximum battery size, L x W x H *	in	38.7 x 27.2 x 24.3	38.7 x 33.0 x 24.3	38.7 x 39.6 x 24.3
	(mm)	(983 x 691 x 617)	(983 x 838 x 617)	(983 x 1 006 x 617)
Voltage, standard / optional		36 / 48	36 / 48	36 / 48
Plates, standard / optional		23 / 17	27 / 21	33 / 25
Capacity, 6-hr rate / max. AH, 36V	kWh (AH)	38.2 / 1,100	45.2 / 1,300	55.4 / 1,600
Capacity, 6-hr rate / max. AH, 48V	kWh (AH)	37.0 / 800	46.3 / 1,000	55.7 / 1,200
Weight, minimum	lb. (kg)	2,300 (1 045)	2,900 (1 315)	3,420 (1 550)
Weight, maximum	lb. (kg)	3,300 (1 495)	3,900 (1 770)	4,400 (1 995)

^{*} Length is measured side to side of truck, width is measured front to back of truck. Trucks use 36 volt gray, 48 volt blue battery connector - 30" (760 mm) 2/0 gauge leads, B position. Requires disconnect handle. If optional battery rollers are used, subtract 1.25" (32 mm) from the maximum battery height dimension. If raised hood option is used, add 1.25" (32 mm) to maximum battery height dimension.

Hyster E45-65Z Standard Features and Options

CAPACITY:

Model E45Z: 4,500 lbs. at 24" (2 041 kg at 610 mm) load center. Model E50Z: 5,000 lbs. at 24" (2 268 kg at 610 mm) load center. Model E55Z: 5,500 lbs. at 24" (2 495 kg at 610 mm) load center. Model E60Z: 6,000 lbs. at 24" (2 722 kg at 610 mm) load center. Model E65Z: 6,500 lbs. at 24" (2 948 kg at 610 mm) load center.

Rated capacities are for trucks equipped with:

- Three-stage full free-lift VISTA® mast to 171.5" (4 356 mm) (E45-55Z) maximum fork height for E45-55Z or 164.0" (4 166 mm) for E60-65Z.
- 38.5" (978 mm) hook-type carriage with 36.0" to 60.0" (914 to 1 524 mm) long forks as required for E45-55Z or 36.0" to 72.0" (914 mm to 1 829 mm) for E60-65Z
- Load backrest extension (LBE)
- 90.5" (2 299 mm) overhead guard
- · Minimum weight battery and standard battery compartment.

STANDARD EQUIPMENT

Complete truck equipped with:

- 2-stage limited free-lift VISTA mast with maximum fork height of 131.0" (3 327 mm) (E45-55Z) or 126.5" (3 213 mm) (E60-65Z)
- 38.5" (978 mm) carriage with load backrest extension
- 42.0" (1 067 mm) long forks
- 36 volt electrical system includes battery connector 350 amp, gray
- · AC traction system with brushless AC motor
- AC Transistor traction control includes: Auto Deceleration System, advanced thermal management system, and seamless direction change
- Standard dash display which includes: battery discharge indicator with lift interrupt, hour meter, indicator lights, on-board truck setup and diagnostics (via technician password), numeric input keypad, programmable service reminder, truck status codes, alphanumeric display readout.
- DC contactor hydraulics
- A/C traction controller cooling system
- CANBus communication system
- Manual parking brake foot actuated
- On demand power steering with brushless steer motor
- · Vinyl non-suspension seat
- Operator restraint system
- · Seven position tilt steering column
- · Amenities tray and clip board storage
- MONOTROL directional control foot actuated
- 90.5" grid style overhead guard
- VISTA® mast with canted load rollers
- Self energizing / self-adjusting non-asbestos service brakes
- Sealed motor controller compartment
- Operator's manual
- UL Classification E.

Battery not included.

OPTIONAL EQUIPMENT

The following equipment is available for the E45-65Z model series:

- · AC transistor hydraulics with brushless AC motor
- Premium instrumentation includes all of the features of the standard plus: operator selectable performance modes, operator checklists, operator passwords
- 48 volt electrical system includes blue battery connector
- · Battery compartment rollers
- · Battery side covers
- Lever directional control hand actuated
- Semi-suspension and full-suspension seats (vinyl or cloth)
- Electric parking brake seat actuated
- Wide tread
- · Polyurethane and lug tread tires (drive and steer)
- Tilt options: 5° forward / 5° back or 10° forward / 5° back
- · 2 LED brake/back-up and tail lights
- 2 drive, 1 rear drive, 2 LED brake/tail with back-up lights
- · Various fork lengths
- Light: Amber Strobe (continuous activation)
- · 4-function hydraulic control valve
- Integral sideshifter
- Alarm back-up (87 dba)
- 2-stage Limited Free Lift
- 2-stage Full Free Lift mast
- 3-stage Full Free Lift mast
- 4-stage Full Free Lift mast
- Corrosion and freezer construction packages
- UL Classification EE, ES
- Parts manual printed or CD.

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Hyster E45-65Z Standard Features and Options

MASTS

Masts are available in 2-stage, 3-stage and 4-stage configurations.

Hot rolled steel mast channel sections with crossmembers resist flaring at flanges. Pre-lubed and sealed, full-radius, angled full-face contact load rollers resist forward, backward and lateral forces.

CARRIAGE

Carriages are hook-type, ITA Class II mounting (E45-55Z), ITA Class III (E60-65Z). Overall width without load backrest extension (LBE) is 38.5" (975 mm); with LBE is 39.7" (1 010 mm). Minimum inside-to-inside fork spacing with 5" (127 mm) wide forks is 0". Maximum outside-to-outside spacing is 35.5" (900 mm) for Class II and for Class III type.

FORKS

E45-55Z lift trucks use: 1.5" x 4.0" x 36.0" to 60.0" long (40 x 100 x 915 to 1 525 mm)

E60-65Z lift trucks use: 2.0" x 5.0" x 36.0" to 72.0" long (50 x 125 x 915 to 1 830 mm)

ELECTRONIC CONTROLS

The lift trucks feature an AC Controlled Transistor traction control system which offers:

- Smooth acceleration and deceleration motor in both forward and reverse directions without pause.
- Auto Deceleration System, which automatically slows the truck through regenerative braking when the accelerator pedal is released.
- Regenerative braking down to zero speed
- Advanced thermal management system, which gradually adjusts truck performance in the event of issues to prevent damage to critical components
- Excellent speed control utilizing closed loop speed regulation
- · Connection point for PC access

Standard dash display includes:

- Indicator lights
- Numerical keypad
- On board adjustable performance parameters
- · Extensive on board diagnostics
- Truck status codes and error messages

- · Alphanumeric display readout
- Programmable service reminder

The transistor control system is mounted in the counterweight for heat dissipation and protection from damaging impacts and contaminants.

HYDRAULIC SYSTEM

- High pressure hydraulic system is 3,100 psi (21.4 MPa)
- In-line, return full flow filtration protects hydraulic circuit.
- Gear-type pump and motor pivots upward for better brush access.
- Manually operated main control valve provides precise operator control of hydraulic functions.
- Self lubricating chromed rods and single urethane seals offer long service life.

STEERING SYSTEM

Hydrostatic power steering makes tight maneuvering easy. Responsive steering rate of 3.9 turns lock-to-lock. Steering pump and motor are mounted on rubber isolators for quiet operation. Fixed clearance pump conserves battery power. Permanent magnet motor operates at maximum efficiency with low maintenance requirements.

Cast ductile iron steer axle features transverse, double acting hydraulic cylinder. This axle features tapered roller bearings and non-adjustable tie rods for precise steering control and a durable low maintenance system.

DRIVE TRAIN

Standard 36-volt and optional 48-volt traction motors are:

- Long stack construction for best efficiency in stop-start applications.
- · Series wound and Class H insulated.
- Drive end bearing and drive shaft spline are lubricated by transmission oil for long service life.
- · Internal cooling fan increases motor life.

BRAKES

Non-asbestos service brakes with self-adjusting, self-energizing shoes are located at each end of drive axle housing.

Wheel hubs are sealed to prevent leakage of oil and grease onto brake shoes. Large diameter brakes for low pedal effort.

BATTERY

Steel battery compartment provides secure storage and servicing ease. Color impregnated polymer hood pivots forward exposing battery fully. (Battery not included.)

OPERATOR AREA

- Large-sized open steps.
- Contoured hand grip, rounded hood, and clutter-free floor-plate allow easy access in and out of compartment.
- · Soft touch hydraulic levers for fingertip control.
- The optional supportive full-suspension seat has three adjustable backrest angle positions and adjustments for operator weight.
- · Seven position tilt steering column.
- Amenities tray and clipboard storage in dash provide ample storage for pens, tags and tape.
- Excellent visibility through VISTA® mast and lattice style overhead guard.
- Exclusive Hyster MONOTROL pedal provides direction and acceleration control.

Special attachments, equipment or accessories not listed above may be available through Applications Engineering for specific application requirements.



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Part No.: E45-65Z/TG 1/2004 Litho in U.S.A. Visit us online at www.hysterusa.com or call us at 1-800-HYSTER-1.

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