# E45-65XM Lift Truck Technical Guide



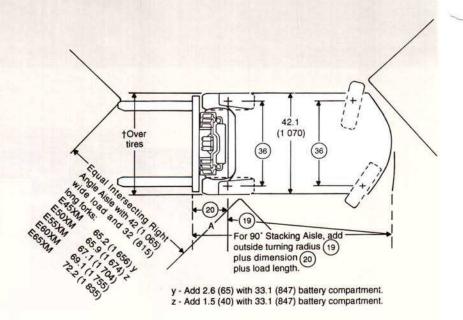




# **E45-65XM Lift Truck Specifications**

MODEL	CAPACITY	LOAD CENTER	MOMENT
	b (kg)	in (mm)	in-lb (cm-kg)
E45XM	4,500	24	174,600
	(2 250)	(500)	(196 875)
E50XM	5,000	24	194,000
	(2 500)	(500)	(218 750)
E55XM	5,500	24	213,400
	(2 750)	(500)	(218 750)
E60XM	6,000	24	235,800
	(3 000)	(500)	(267 000)
E65XM	6,500	24	255,450
	(3 250)	(500)	(289 250)

MAST	Α		
E45-55XM 2-STG. LFL	14.8	(375)	
E45-55XM 2-STG. FFL	14.8	(375)	
E45-55XM 3-STG. FFL	14.8	(375)	
E60-65XM 2-STG. LFL	15.3	(390)	
E60-65XM 2-STG. FFL	15.3	(390)	
E60-65XM 3-STG. FFL	15.3	(390)	



Model/Trea	d	Trea	d Width	Ove	r Tirest	LOO-I
45-55XM Stand		35.1	(891)	42.1	(1 070)	4 14 PHE 14 PH
60-65XM Stand	iard	35.5	(905)	43.5	(1 105)	
45-55XM W	Vide	41.9	(1 065)	48.9	(1 240)	
E60-65XM W	Vide	40.9	(1 040)	48.9	(1 240)	
MODEL		В	1		1	
HENNESSEE		-c-san	1			
E45XM	1,000	7.3%			(10	
E50XM	23	8.8%				
E55XM	27	7.3%				*When seat is in depressed position.
E60XM	23	8.8%				88.4
E65XM	23	8.8%				42.3* (2 245 (1 065) Option
						86.0
						(2 184
						3 E45-50XM 23% E55XM 21% A5.1
						E60-65XM 18% (1 070)
						18.0
					•	3.6 (91) (35) Tow pin
						(15) 11.4 (290)

Circled dimensions correspond to the line numbers on the tabulated chart inside the Technical Guide.

Dimensions are in inches (millimeters).



### **Hyster E45XM Lift Truck Specifications**

	1	Manufacturer	Hyster Company	Hyster Company	
G	2	Model	E45XM (36 V)	E45XM (48 V)	
E	3	Capacity, rated lb.	The property of the party of th	4,500 (2 250)	
N	4	Load center in. (n		24 (500)	
E	5	Power type	Electric	Electric	
R	6	Operator type	Sit	Sit	
A	7	Tire type, front/rear	Cushion/Cushion	Cushion/Cushion	
L	8	Wheels, front/rear (X=driven)	2X / 2	2X / 2	
-	_	2-stg. LFL (TOF) in. (n	Part of the Part o	131.0 (3 330)	
_	10000			5.5 (140)	
D		Opt. full free-lift (TOF) with/w/o LBE in. (n	25/1	35.8 (909) / 62.0 (1 570)	
		1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		4.0 (100)/1.5 (40)	
M		Forks, width/thickness in. (n	* 5/8	5/8	
E			The state of the s	77.0 (1 965)	
N	15			42.1 (1 070)	
S		Width, standard tires in. (n		PRESENT TO THE PROPERTY OF THE	
		Height, std. mast lowered in. (n		84.0 (2 135)	
O		Height, std. mast ext. with/w/o LBE in. (n		179.4 (4 555) / 148.1 (3 760)	
N S		Turning radius, minimum outside in. (n		66.7 (1 695)	
3	20			14.8 (375)	
	-			81.5 (2 070)	
P		Stability (Comply with ANSI?)	Yes	Yes	
E	24	Travel speed, nl/rl 02 mph (kr		9.0 (14.5) / 8.1 (13.0)	
R		Travel speed, nl/rl E & 01 mph (kr	n/h) 8.6 (13.8) / 7.8 (12.7)	9.9 (15.9) / 9.1 (14.6)	
F	25	Lift speed, nl/rl E, 01 & 02 ft/min (r	n/s) 88.0 (0.45) / 58.0 (0.30)	117.0 (0.60) / 76.0 (0.39)	
0		Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (r	n/s) 93.0 (0.48) / 60.0 (0.31)	123.0 (0.63) / 80.0 (0.41)	
R		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (r	n/s) 91.0 (0.46) / 61.0 (0.31)	120.0 (0.61) / 78.0 (0.39)	
M		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (r	n/s) 89.0 (0.45) / 57.0 (0.29)	112.0 (0.57) / 79.0 (0.40)	
A	26	Lowering, nl/rl E, 01 & 02 ft/min (r	n/s) 100.0 (0.51) / 112.0 (0.57)	100.0 (0.51) / 112.0 (0.57)	
N	13	Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (r	n/s) 90.0 (0.46) / 103.0 (0.52)	90.0 (0.46) / 103.0 (0.52)	
C		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (r	n/s) 92.0 (0.47) / 106.0 (0.54)	92.0 (0.47) / 106.0 (0.54)	
E		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (r	n/s) 81.0 (0.41) / 88.0 (0.45)	81.0 (0.41) / 88.0 (0.45)	
w	30	Total approximate weight w/o battery lb.	kg) 6,765 (3 048)	6,765 (3 048)	
Т	31	Axle loading, static, rated load frt / rear lb.	kg) 12,255 (5 560) / 2,490 (1 130)	12,255 (5 560) / 2,490 (1 130)	
W			2/2	2/2	
Н	33	Size of tires, front	21 x 7 x 15	21 x 7 x 15	
L	34	Size of tires, rear	16 x 5 x 10.5	16 x 5 x 10.5	
S	35	the state of the s	TOTAL CONTRACTOR OF THE PARTY O	47.6 (1 210)	
&	Committee of	Tread, center of tires front / rear in. (n	The first term of the first te	35.1 (890) / 36.9 (935)	
T				3.6 (91)	
R	DATE OF			4.4 (110)	
E	Jack Contracts	Brakes, method of control, service / parking	Hydraulic / Mechanical	Hydraulic / Mechanical	
S	Control of the	Brakes, method of operation, service / parking		Foot / Foot	
	_		Lead acid	Lead acid	
_	1100000	Battery, volts / ampere hours	36 / 1,100	48 / 800	
E	A CHIPPING	Battery, minimum weight lb.	The second secon	2,300 (1 045)	
E	I TO A SHOP	Traction motor, 60 min. rating 02 hp (	7.00	12.8 (9.6)	
c	44		Southern Southern Control of the Con	The state of the s	
T	1-			18.8 (14.0)	
R	45	Pump motor, 15 min. rating E, 01 & 02 hp (		16.8 (12.5)	
1		Traction motor control method	SCR	SCR	
С		Pump motor control method	Contactor	Contactor	
		Number of speeds	Infinitely variable	Infinitely variable	100
	55	Relief pressure for attachments A psi (k	PA) 2,250 (15 500)	2,250 (15 500)	

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 comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck.

For more information on the Control Package Options - E, 01, 02 see Page 10 of this Technical Guide.

Add 6.0" (150 mm) if optional 33.11"(847 mm) battery compartment is used.

Add 5.8" (145 mm) if optional 33.11" (847 mm) battery compartment is used.

Relief pressure is 2,250 (15 515 kPa) for 3-function valve with relief cartridge and 4-function valve.



## **Hyster E50XM Lift Truck Specifications**

2	1	Manufacturer	Hyster Company	Hyster Company	A SOLUTION AND A SECOND
G	2	Model	E50XM (36 V)	E50XM (48 V)	
E	17/17/	Capacity, rated lb. (kg	COMPANY OF THE PARTY OF THE PAR	5,000 (2 500)	
N	25/6/4	Load center in. (mm		24 (500)	
E	15000	Power type	Electric	Electric	
R	1772	Operator type	Sit	Sit	
A L	7	Tire type, front/rear	Cushion / Cushion	Cushion / Cushion	
_	- Garan	Wheels, front/rear (X=driven)	2X/2	2X/2	
	_	2-stg. LFL (TOF) in. (mm	) 131.0 (3 330)	131.0 (3 330)	
n	11	Limited free-lift (TOF) in. (mm		5.5 (140)	
D				35.8 (909) / 62.1 (1 577)	
		Forks, width/thickness in. (mm		4.0 (100) / 1.5 (40)	
M E	200		° 5/8	5/8	
N	A PARKET	Length to face of forks in. (mm		78.6 (1 995)	
S	100	The state of the s	(A) 10/10/10/10/10/10/10/10	42.1 (1 070)	
ı	17	Height, std. mast lowered in. (mm		84.0 (2 135)	
0		Height, std. mast ext. with/w/o LBE in. (mm		179.4 (4 555) / 148.1 (3 760)	
N		Tuming radius, minimum outside in. (mm		68.1 (1 730)	
s	20	Center of wheel to face of forks in. (mm		14.8 (375)	
-81	22	Aisle width(Add Id. Igth. for 90° stack) in. (mm		82.9 (2 105)	
	23	Stability (Comply with ANSI?)	Yes	Yes	
P				8.8 (13.5) / 7.9 (11.7)	
E	24	Travel speed, nl/rl E & 01 mph (km/r		9.8 (15.8) / 9.0 (14.5)	
R	25	Lift speed, nl/rl E, 01 & 02 ft/min (m/s		117.0 (0.60) / 74.0 (0.38)	
F O	20	Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (m/s		123.0 (0.63) / 77.0 (0.39)	
R		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (m/s		120.0 (0.61) / 75.0 (0.38)	
M		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	TANK TO SERVE TO SERVE TO SERVE THE TANK THE SERVE THE S	112.0 (0.57) / 77.0 (0.39)	
A	26	Lowering, nl/rl E, 01 & 02 ft/min (m/s		100.0 (0.51) / 113.0 (0.56)	
N	20	Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (m/s		90.0 (0.46) / 106.0 (0.52)	
C		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (m/s		92.0 (0.47) / 108.0 (0.54)	
E		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (m/s		81.0 (0.41) / 88.0 (0.45)	
w	30			7,215 (3 272)	
		Axle loading, static, rated load frt/rear lb. (kg		13,160 (5 970) / 2,580 (1 170)	
T W			2/2	2/2	
Н	100000	Size of tires, front	21 x 7 x 15	21 x 7 x 15	
Ľ	34	Size of tires, from	16 x 5 x 10.5	16 x 5 x 10.5	
s	1111111111	Wheelbase ☆☆ in. (mm	. The transport of the second	47.6 (1 209)	
&	36	Tread, center of tires front/rear in. (mm		35.1 (892) / 36.9 (935)	
Т				3.6 (91)	
1	37	Ground clearance, no load lowest pt. in. (mm Ground clearance, no load ctr. whlbs. in. (mm		4.3 (109)	
R	38			Hydraulic/Mechanical	
E S	39 40	Brakes, method of control, service/parking Brakes, method of operation, service/parking	Hydraulic/Mechanical Foot / Foot	Foot / Foot	
-			Lead acid	Lead acid	
_		Battery, type Battery, volts/ampere hours	36/1,100	36/1,100	
E	manufabilities	Battery, minimum weight lb. (kg	AND THE RESIDENCE OF THE PARTY	2,300 (1 045)	
E	470,000		The state of the s	16.0 (12.0)	
c	44		A STATE OF THE PARTY OF THE PAR	18.8 (14.0)	
T	45			17-457-03192 SE3	
R	45	Pump motor, 15 min. rating E, 01 & 02 hp (kw		16.8 (12.5)	
ı		Traction motor control method	SCR	SCR	
С		Pump motor control method	Contactor	Contactor	
		Number of speeds	Infinitely variable	Infinitely variable	THE REAL PROPERTY.
	55	Relief pressure for attachments Apsi (kPA	2,250 (15 500)	2,250 (15 500)	

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For more information on the Control Package Options - E, 01, 02 see Page 10 of this Technical Guide.

Add 3.6\* (90 mm) if optional 33.11\* (847 mm) battery compartment is used.

Add 5.8" (145 mm) if optional 33.11" (847 mm) battery compartment is used.

Relief pressure is 2,250 (15 515 kPa) for 3-function valve with relief cartridge and 4-function valve.



### Hyster E55XM Lift Truck Specifications

	1	Manufacturer	Hyster Company	Hyster Company	
G	2	Model	E55XM (36 V)	E55XM (48 V)	
E	100.1	Capacity, rated lb. (kg		5,500 (2 500)	
N	4740	Load center in. (mm		24 (500)	
Ε	4	The second section is a second	Electric	Electric	
R		Power type	Sit	Sit	
A	1200	Operator type	Cushion / Cushion	Cushion / Cushion	
L	(3)	Tire type, front/rear	2X/2	2X/2	
		Wheels, front/rear (X=driven)		131.0 (3 330)	
	72000000	2-stg. LFL (TOF) in. (mm		2000	
D		Limited free-lift (TOF) in. (mm		5.5 (140)	
1		Opt. full free-lift (TOF) with/w/o LBE in. (mm		35.8 (909) / 62.1 (1 577)	
M		Forks, width/thickness in. (mm		4.0 (100) / 1.5 (40)	
E		Tilt angle, forward/backward	5/8	5/8	
N		Length to face of forks in. (mm		82.8 (2 103)	
S		Width, standard tires in. (mm		42.0 (1 070)	
1	100	Height, std. mast lowered in. (mm	5 DTG	84.0 (2 135)	
0		Height, std. mast ext. with/w/o LBE in. (mm	20	179.4 (4 556 ) / 148.1 (3 760)	
N	10000	Tuming radius, minimum outside in. (mm	and the second of the second o	72.9 (1 850)	
S	20	[BB](2-4): "아프트 'REM (REM THE	to Provide the Control of the Contro	14.8 (375)	
	22	Aisle width (Add Id. Igth. for 90° stack) in. (mm		87.7 (2 230)	
P	23	Stability (Comply with ANSI?)	Yes	Yes	
E	24	Travel speed, nl/rl 02 mph (km/h		8.7 (12.9) / 7.8 (11.4)	
R		Travel speed, nl/rl E & 01 mph (km/h		9.7 (15.6) / 8.9 (14.3)	
F	25	Lift speed, nl/rl E, 01 & 02 ft/min (m/s	88.0 (0.45) / 54.0 (0.28)	117.0 (0.60) / 71.0 (0.36)	
0		Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	93.0 (0.47) / 57.0 (0.29)	123.0 (0.63) / 75.0 (0.38)	
R		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	91.0 (0.46) / 55.0 (0.28)	120.0 (0.61) / 73.0 (0.37)	
M		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	N/A	N/A	
Α	26	Lowering, nl/rl E, 01 & 02 ft/min (m/s	100.0 (0.51) / 115.0 (0.58)	100.0 (0.51) / 115.0 (0.58)	
N		Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	90.0 (0.46) / 109.0 (0.55)	90.0 (0.46) / 109.0 (0.55)	
С		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	92.0 (0.47) / 110.0 (0.56)	92.0 (0.47) / 110.0 (0.56)	
E		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (m/s	) N/A	N/A	
W	30	Total approximate weight w/o battery lb. (kg	6,925 (3 141)	6,925 (3 141)	
Т		Axle loading, static, rated load frt/rear lb. (kg	13,970 (6 335) / 2,405 (1 095)	13,970 (6 335) / 2,405 (1 095)	
W		Number tires front/rear	2/2	2/2	
Н	33	Size of tires, front	21 x 7 x 15	21 x 7 x 15	
Ļ	34	Size of tires, rear	16 x 5 x 10.5	16 x 5 x 10.5	
S	35	Wheelbase in. (mm	53.4 (1 355)	53.4 (1 355)	
& T	36	Tread, center of tires front/rear in. (mm	35.1 (890) / 36.9 (935)	35.1 (890) / 36.9 (935)	
Ιi	37	Ground clearance, no load lowest pt. in. (mm	3.6 (91)	3.6 (91)	
R	38	Ground clearance, no load ctr. whlbs. in. (mm	4.3 (109)	4.3 (109)	
Ε	39	Brakes, method of control, service/parking	Hydraulic/Mechanical	Hydraulic/Mechanical	
S	40	Brakes, method of operation, service/parking	Foot / Foot	Foot / Foot	
	41	Battery, type	Lead acid	Lead acid	
E	42	Battery, volts/ampere hours	36/1,100	48/1,000	
L	43	Battery, minimum weight lb. (kg	2,900 (1 315)	2,900 (1 315)	
E	44	Traction motor, 60 min. rating 02 hp (kw	9.8 (7.3)	12.9 (9.6)	
C		Traction motor, 60 min. rating E & 01 hp (kw		18.8 (14.0)	
T	45	Pump motor, 15 min. rating E, 01 & 02 hp (kw		16.8 (12.5)	
R		Traction motor control method	SCR	SCR	
c		Pump motor control method	Contactor	Contactor	
		Number of speeds	Infinitely variable	Infinitely variable	
	55	Relief pressure for attachments psi (kPA		2, 250 (15 500)	
	_				

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 comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Relief pressure is 2,250 (15 515 kPa) for 3-function valve with relief cartridge and 4-function valve.



# **Hyster E60XM Lift Truck Specifications**

P231	1	Manufacturer	THE PERSON		Hyster Company	Hyster Company	
G	-	Model			E60XM (36 V)	E60XM (48 V)	
E	_	Capacity, rated		lb. (kg)	6,000 (3 000)	6,000 (3 000)	
N	4	Load center		in. (mm)	24 (500)	24 (500)	
E	10000	Power type			Electric	Electric	
R	700	Operator type			Sit	Sit	
Α.	21440	Tire type, front/rear			Cushion / Cushion	Cushion / Cushion	
L	100	Wheels, front/rear (X=0	driven)		2X/2	2X/2	
		2-stg. LFL (TOF)		in. (mm)	126.5 (3 215)	126.5 (3 215)	
_		Limited free-lift (TOF)		in. (mm)	6.0 (152)	6.0 (152)	
D		Opt. full free-lift (TOF)	with/w/o LBE		35.8 (909) / 62.1 (1 577)	35.8 (909) / 62.1 (1 577)	
		Forks, width/thickness	marmo ebe	in. (mm)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)	
M E		Tilt angle, forward/back	cward	()	5/8	5/8	
N		Length to face of forks		in. (mm)	84.9 (2 155)	84.9 (2 155)	
S	H102500	Width, standard tires		in. (mm)	43.5 (1 105)	43.5 (1 105)	
ĭ		Height, std. mast lower	har	in. (mm)	84.0 (2 135)	84.0 (2 135)	
0	MAKEN	Height, std. mast ext. v				174.6 (4 435) / 146.1 (3 762)	
N	110000	Turning radius, minimu		in. (mm)	74.4 (1 890)	74.4 (1 890)	
s	UNITED BOX OF STREET	Center of wheel to face		in. (mm)	15.3 (390)	15.3 (390)	
	400000000000000000000000000000000000000	Aisle width (Add Id. Igth		The state of the s	89.7 (2 280)	89.7 (2 280)	
		Stability (Comply with A		K) III. (IIIII)	Yes	Yes	
Р		Travel speed, nl/rl		mph (km/h)	6.4 (10.3) / 5.6 (9.5)	8.5 (12.7) / 7.6 (11.2)	
E	24	Travel speed, nl/rl		mph (km/h)	8.3 (13.4) / 7.6 (12.2)	9.7 (15.6) / 8.8 (14.2)	
R	05				79.0 (0.40) / 49.0 (0.25)	108.0 (0.55)/64.0 (0.32)	
F	25	Lift speed, nl/rl		ft/min (m/s)		109.0 (0.55) / 65.0 (0.33)	
0		Opt. 2-stg. FFL nl/rl		ft/min (m/s)	82.0 (0.42) / 49.0 (0.25)		
R	1 81	Opt. 3-stg. FFL nl/rl		ft/min (m/s)	81.0 (0.41) / 49.0 (0.25)	105.0 (0.53) / 65.0 (0.33) N/A	
M		Opt. 4-stg. FFL nl/rl		ft/min (m/s)	N/A	ACREA COMP. MASSACE PRODUCTION OF THE PROPERTY	
A	26	Lowering, nl/rl		ft/min (m/s)	90.0 (0.46) / 112.0 (0.57)	90.0 (0.46) / 112.0 (0.57)	
N		Opt. 2-stg. FFL nl/rl		ft/min (m/s)	72.0 (0.37) / 106.0 (0.54)	72.0 (0.37) / 106.0 (0.54)	
C E		Opt. 3-stg. FFL nl/rl		ft/min (m/s)	78.0 (0.40) / 107.0 (0.54)	78.0 (0.40) / 107.0 (0.54)	
	-	Opt. 4-stg. FFL nl/rl		ft/min (m/s)	N/A	N/A 7 F05 (0.410)	
W		Total approximate weig			7,525 (3 412)	7,525 (3 412)	
T	_	Axle loading, static, rat		ar lb. (kg)	14,935 (6 775) / 2,675 (1 210)	14,935 (6 775) / 2,675 (1 210)	
W	100	Number tires front/rear			2/2		
Н	155.5	Size of tires, front			21 x 8 x 15	21 x 8 x 15	
s	250100	Size of tires, rear			16 x 6 x 10.5	16 x 6 x 10.5	
&	1	Wheelbase	227	in. (mm)	53.4 (1 355)	53.4 (1 355)	
Т		Tread, center of tires fr		in. (mm)	35.5 (891) / 36.9 (935)	35.5 (891) / 36.9 (935)	
1					3.6 (91)	3.6 (91)	
R		Ground clearance, no l			4.3 (109)	4.3 (109)	
E		Brakes, method of cont	101 0		Hydraulic/Mechanical	Hydraulic/Mechanical	
s		Brakes, method of ope	ration, service	e/parking	Foot / F∞t	Foot / Foot	
					Lead acid	Lead acid	
E	100000	Battery, volts/ampere h		100	36 / 1,300	48 / 1,000	
L	0.000	Battery, minimum weig		lb. (kg)	2,900 (1 315)	2,900 (1 315)	
E	44	Traction motor, 60 min.	0.000	02 hp (kw)	9.8 (7.3)	12.9 (9.6)	
C	DUP-SEA	Traction motor, 60 min.			16.1 (12.0)	18.8 (14.0)	
Ŕ	45	Pump motor, 15 min. rat		02 hp (kw)	12.6 (9.4)	16.8 (12.5)	
ï		Traction motor control			SCR	SCR	
c		Pump motor control me	ethod		Contactor	Contactor	
925V		Number of speeds			Infinitely variable	Infinitely variable	
	55	Relief pressure for atta	chments	psi (kPA)	2,250 (15 500)	2,250 (15 500)	

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 comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Relief pressure is 2,250 (15 515 kPa) for 3-function valve with relief cartridge and 4-function valve.



# **Hyster E65XM Lift Truck Specifications**

	1	Manufacturer	Hyster Company	Hyster Company	ALBERT STATE
G	1425	Model	E65XM (36 V)	E65XM (48 V)	
E		Capacity, rated lb. (kg)		6,500 (3 200)	
N	4	Load center in. (mm)		24 (500)	
E		Power type	Electric	Electric	
R		Operator type	Sit	Sit	
A .	110000	Tire type, front/rear	Cushion / Cushion	Cushion / Cushion	
L		Wheels, front/rear (X=driven)	2X/2	2X/2	
		2-stg. LFL (TOF) in. (mm)		126.5 (3 215)	and the same of th
D	HOGG, CAR	Limited free-lift (TOF) in. (mm)		6.0 (150)	
1	In Citation and	Opt. full free-lift (TOF) with/w/o LBE in. (mm)	THE DESIGNATION RESENTABLE VALUE OF STREET, AND ADDRESS OF STREET, A	34.2 (870) / 60.1 (1 527)	
м		Forks, width/thickness in. (mm)		5.0 (125) / 2.0 (50)	
E		Tilt angle, forward/backward	5/8	5/8	
N		Length to face of forks in. (mm)	TO THE PARTY OF TH	91.5 (2 325)	
s		Width, standard tires in. (mm		43.5 (1 105)	
1	100000	Height, std. mast lowered in. (mm)		84.0 (2 135)	
0	all Solving Color	Height, std. mast ext. with/w/o LBE in. (mm)	the state of the s	179.4 (4 556) / 146.1 (3 762)	
N	1575	Turning radius, minimum outside in. (mm)	The state of the s	81.5 (2 070)	
s	1235	Center of wheel to face of forks in. (mm)	THE RESIDENCE OF THE PARTY OF T	15.3 (390)	
	15000	Aisle width (Add ld. lgth. for 90° stack) in. (mm)		96.8 (2 460)	
Р	_	Stability (Comply with ANSI?)	Yes	Yes	
E	100	Travel speed, nl/rl 02 mph (km/h)	6.4 (10.3) / 5.6 (9.5)	8.6 (12.7) / 7.5 (11.1)	
R		Travel speed, nl/rl E & 01 mph (km/h)		9.6 (15.4) / 8.7 (14.0)	
F	25	Lift speed, nl/rl E, 01 & 02 ft/min (m/s)		108.0 (0.55) / 62.0 (0.32)	
0		Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (m/s)		109.0 (0.55) / 63.0 (0.32)	
R		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (m/s)		105.0 (0.53) / 63.0 (0.32)	
М		Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (m/s)		N/A	
Α	26	Lowering, nl/rl E, 01 & 02 ft/min (m/s)	31 <b>1</b> //	90.0 (0.46) / 110.0 (0.57)	
N		Opt. 2-stg. FFL nl/rl E, 01 & 02 ft/min (m/s)		72.0 (0.37) / 103.0 (0.54)	
С		Opt. 3-stg. FFL nl/rl E, 01 & 02 ft/min (m/s)		78.0 (0.40) / 105.0 (0.54)	
Ε	120	Opt. 4-stg. FFL nl/rl E, 01 & 02 ft/min (m/s)		N/A	
w	30	Total approximate weight w/o battery lb. (kg)		7,154 (3 244)	
Т	31	Axle loading, static, rated load frt/rear lb. (kg)		15,705 (7 125) / 2,530 (1 145)	
W		Number tires front/rear	2/2	2/2	
н	33	Size of tires, front	21 x 8 x 15	21 x 8 x 15	
L	34	Size of tires, rear	16 x 6 x 10.5	16 x 6 x 10.5	
S	35	Wheelbase in. (mm)	60.0 (1 525)	60.0 (1 525)	
& T	36	Tread, center of tires front/rear in. (mm)	35.4 (890) / 36.9 (935)	35.4 (890) / 36.9 (935)	
î.	37	Ground clearance, no load lowest pt. in. (mm)	3.6 (91)	3.6 (91)	
R	38	Ground clearance, no load ctr. whlbs. in. (mm)	4.3 (109)	4.3 (109)	
E	39	Brakes, method of control, service/parking	Hydraulic / Mechanical	Hydraulic / Mechanical	
S	40	Brakes, method of operation, service/parking	Foot / Foot	Foot / Foot	
		Battery,type	Lead acid	Lead acid	
Е		Battery, volts/ampere hours	36 / 1,600	48 / 1,200	
L		Battery, minimum weight lb. (kg)	U■ 2 = 20 W	3,420 (1 550)	
E	44	Traction motor, 60 min. rating 02 hp (kw)	A COLUMN	12.9 (9.6)	
C		Traction motor, 60 min. rating E & 01 hp (kw)		18.8 (14.0)	
R	100	Pump motor, 15 min. rating E, 01 & 02 hp (kw)	and the second s	16.8 (12.5)	
ï		Traction motor control method	SCR	SCR	
c		Pump motor control method	Contactor	Contactor	
		Number of speeds	Infinitely variable	Infinitely variable	KILLINGULUK.
	55	Relief pressure for attachments psi (kPA)	2,250 (15 500)	2,250 (15 500)	

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 comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck.

Relief pressure is 2,250 (15 515 kPa) for 3-function valve with relief cartridge and 4-function valve.



### **Mast Dimensions & Battery Specifications**

Maximum Fork Height (Top of Forks)		c	verall		Overall Ext	tended Heigh	t	Free-	Lift (TOF)
		311000	wered Height	With Le	oad est Ext.	7.00 (0.00) (0.00)	ut Load est Ext.		t Load rest Ext.
84.5	(2 134)	60.5	(1 524)	133.0	(3 377)	107.0	(2 717)	5.5	(140)
119.5	(3 035)	78.0	(1 980)	167.5	(4 255)	141.5	(3 595)	5.5	(140)
131.0	(3 330)	84.0	(2 135)	179.5	(4 560)	153.0	(3 885)	5.5	(140)
151.0	(3 835)	94.0	(2 390)	199.0	(5 055)	173.0	(4 395)	5.5	(140)
119.0	(3 025)	78.0	(1 980)	167.0	(4 240)	141.0	(3 580)	56.0	(1 420)
131.0	(3 330)	84.0	(2 135)	179.0	(4 545)	153.0	(3 890)	62.0	(1 575)
171.5	(4 355)	76.0	(1 930)	219.5	(5 575)	192.5	(4 890)	55.0	(1 395)
189.0	(4 800)	82.0	(2 085)	237.0	(6 020)	210.0	(5 335)	61.0	(1 550)
218.5	(5 550)	94.0	(2 390)	267.0	(6 780)	240.0	(6 095)	72.5	(1 840)
240.0	(6 100)	83.5	(2 120)	288.0	(7 320)	262.5	(6 670)	61.0	(1 550)

Lift heights over 171.5" (4 355 mm) max. fork height may require reduced capacity, restricted back tilt, and may require wide tread. If load backrest extension is used on 2-stage FFL or 3-stage FFL, subtract 27.0" (685 mm).

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 & header hoses.

Maximum Fork Height (Top of Forks)		C	verall		Overall Ext	tended Heigh	t	Free-	Lift (TOF)
		Height Lowered		With Load Backrest Ext.		Without Load Backrest Ext.		W/out Load Backrest Ext.	
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)
126.5	(3 215)	84.0	(2 135)	174.5	(4 435)	152.0	(3 860)	58.5	(1 485)
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	(2 085)	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)
240.0	(6 100)	83.5	(2 120)	288.0	(7 320)	262.5	(6 670)	61.0	(1 550)

Lift heights over 164.0" (4 165 mm) max. fork height may require reduced capacity, restricted back tilt, and may require wide tread. Subtract 7.9" (200 mm) with 2-stage FFL and 12.8" (326 mm) with 3-stage FFL when truck has 3 or 4-function valve and header hoses. If load backrest extension is used on 2-stage FFL and 3-stage FFL, subtract 24.5" (620 mm).

_			E45-50XM-27"	E45-60XM-33"	E65XM-40"
11 (	Compartment size, L x W x H *	in (mm)	38.86 x 27.36 x 24.41 (987 x 695 x 620)	38.86 x 33.15 x 24.41 (987 x 842 x 620)	38.86 x 39.76 x 24.41 (987 x 1010 x 620)
2	Maximum battery size,L x W x H *	in (mm)	38.7 x 27.2 x 24.29 (983 x 691 x 617)	38.7 x 33.0 x 24.29 (983 x 838 x 617)	38.70 x 39.61 x 24.29 (983 x 1006 x 617)
3 '	Voltage, standard/optional		36 / 48	36 / 48	36 / 48
4	Plates, standard/optional		23 / 17	27 / 21	33 / 33
5 (	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
6	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.

Trucks use SB350 connector - 30" (760 mm) 2/0 gauge leads, B position, 36-volt-gray, 48-volt-blue. Requires disconnect handle.



## **E45-65XM Lift Truck Capacity Charts**

300

500

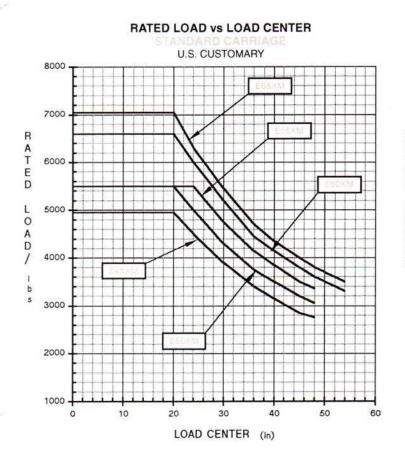
700

900

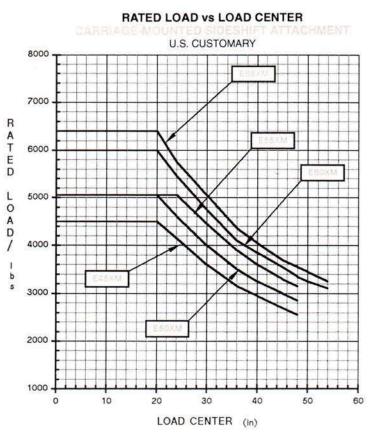
LOAD CENTER (mm)

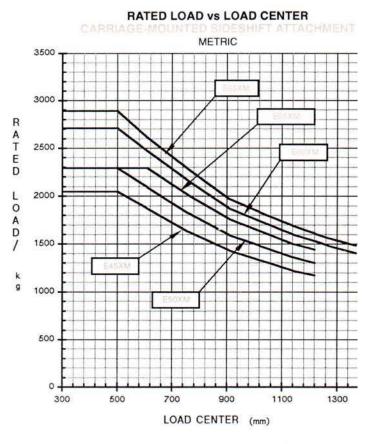
1100

1300



# RATED LOAD vs LOAD CENTER STANDARD CARRIAGE METRIC 3500 R A T 2500 C A D / 1500 500







### E45-65XM Lift Truck Control Package Options

### Enhanced Package

36 Volt, 11" Traction Motor, EV-100ZX SCR Traction Control, ★Enhanced Dash Display, Performance Mode Selector, Battery Discharge Indicator With Lift Interrupt, Hour Meter, Field Weakening, Regenerative Braking, Brush Wear Indicators, Over-temperature Indicator, MONOTROL® Pedal, Power Steering, Tilt Steering Column, Manual Park Brake, Brake/Back-up/Tail Lights, Cloth Semi-Suspension Seat, Operator Restraint System, Grid Style Overhead Guard, SB350 Connector, U.L. Classification E.

A summary of the features of each of the control packages:

ADD-ON FEATURES	Enhanced Package	Std. Pkg. No. 01	Std. Pkg. No. 02
9" Traction Motor		100 mm.	Std.
11" Traction Motor	Std.	Std.	
Standard Display ♦♦		Std.	Std.
Enhanced Display	Std.		
EV-100ZX SCR Traction Control	Std.	Std.	Std.
Contactor Hydraulic Control	Std.	Std.	Std.
SCR Hydraulic Control	Opt.	Opt.	Opt.
BDI		Std.	Std.
BDI with Lift Interrupt	Std.	Opt.	Opt. ■
Manual Park Brake	Std.	Std.	Std.
Seat and Manual Park Brake	Opt.	Opt.	Opt.
Direction Control Lever	Opt.	Opt.	Opt.
MONOTROL Pedal	Std.	Std.	Std.
Enclosed Motors	Opt.	Opt.	
U.L. Classification EE/ES	Opt.	Opt.	
Freezer or Corrosion	Opt.	Opt.	
Brush Wear Indicators	Std.		
Over-temperature Indicator	Std.		
Regenerative Braking	Std.	Std.	
Field Weakening	Std.	Std.	

- BDI with Lift Interrupt includes: Perfromance Mode Selector and Status/Diagnostic Indicator.
- \* Enhanced Dash Dispaly includes: BDI with Lift Interrupt LED Indicator; Digital Hourmeter; Fasten Seat Belt Indicator; Low Brake Fluid Indicator; Parking Brake Indicator; Steering Pump Indicator; Brush Wear Indicator; Traction Motor Indicator; Lift Pump Motor Indicator; Steering Pump Indicator; Brush Wear Indicator; Motor Temperature Indicator; Status Code/Diagnostic Indicator; Hourmeter Function Indicator; Status Codes Push Button; and Performance Mode Selector.
- \*\* Standard Dash Display includes: Hourmeter; BDI (voltmeter); Parking Brake Indicator; Low Brake Fluid Indicator; and Fasten Seat Belt Indicator.



### Standard Features and Options

### Capacity

Model E45XM: 4,500 lbs. at 24" (2 250 kg at 600 mm)
Model E50XM: 5,000 lbs. at 24" (2 500 kg at 600 mm)
Model E55XM: 5,500 lbs. at 24" (2 750 kg at 600 mm)
Model E60XM: 6,000 lbs. at 24" (3 000 kg at 600 mm)
Model E65XM: 6,500 lbs. at 24" (3 250 kg at 600 mm)

### Rated capacities are for trucks equipped with:

Three-Stage full free-lift VISTA® mast to 171.5" (4 355 mm) (E45-55XM) or 164.0" (4 165 mm) (E60-65XM) maximum fork height; 38.5" (975 mm) wide standard carriage; 36" to 60" (915 - 1 525 mm) (E45-55XM) or 36" to 72" (915 - 1 830 mm) (E60-65XM) long forks as required; Operator's overhead guard; and minimum weight battery.

### Standard Equipment

Complete E45-65XM truck is equipped with: 2-stage limited free-lift VISTA mast; 38.5" carriage; load backrest extension; 42" long forks; 36-volt; EV-100ZX SCR control; field weakening; regenerative braking; brush wear indicators; over-temperature indicator; MONOTROL® pedal; tilt steering column; manual park brake; 3-function hydraulic control valve; tail/brake/back-up lights; contactor hydraulics; power steering; operating manual; cloth semi-suspension seat; operator restraint system; operating manual; grid style overhead guard; SB battery connector; UL Classification E.

Optional equipment includes 3- and 4-Stage full free-lift masts;48 Volt electrical system and components; directional control levers; SCR hysdraulics; vinyl semi-suspension and non-suspension seats; seat actuated park brake; freezer/corrosion construction; battery rollers; mast tilt; sideshift carriage; third and fourth-function hydraulics with hose groups; directaction 3rd-function hand lever; E, 01, 02 control packages; raised hood; polished and tapered forks; 2-drive, 1 rear drive, 2 brake/tail/back-up lights; dome light; battery compartments; polyure-thane tires; and UL Classification EE and ES.

Carriages are hook-type, ITA Class II mounting (E45-55XM), ITA Class III (E60-65XM). 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 is 0". Maximum outside-to-outside spacing is 34.4" (875 mm) for Class II type and 35.5" (900 mm) for Class III type.

E45-55 lift trucks use: 1.5" x 4" x 36" to 60" long (40 x 100 x 915 to 1 525 mm) E60-65XM lift trucks use 2.0" x 5.0" x 36 to 72" long (50 x 125 x 915 to 1 830 mm)

Steel battery compartment provides secure storage and

servicing ease. Fiberglass hood pivots forward exposing battery fully. (Battery not included.)

Large-sized open steps.

Contoured hand grip, rounded hood, and clutter-free floorplate allow easy access in and out of compartment.

Hydrostatic power steering. Soft touch hydraulic levers for fingertip control.

Supportive semi-suspension seat has three adjustable backrest angle positions and adjustments for operator weight.

Five position tilt steering column.

Enhanced instrument dash display provides vital truck operation and diagnostic information.

Amenities tray and clipboard storage relief in dash provide ample storage for pens, tags and tape.

Excellent visibility through VISTA mast and lattice style overhead guard.

High performance, low effort braking.

Exclusive Hyster MONOTROL pedal provides direction and acceleration control.

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.

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 design, with its tapered roller bearings, precision machined parts and non-adjustable tie rods, provides a durable low maintenance system with precise steering control.

The lift trucks feature the G.E. EV100ZX SCR control system:

Enhanced package provides permanent memory of:

- Last 16 status codes for quick diagnosis.
- Service hours on traction logic card and battery state of charge.
- Records hour meter reading at time fault occurred.

SCR protected by pulse monitor trip circuit, current limit, and thermal limit.

Acceleration adjustable for smooth starts.

Control settings programmable to match performance characteristics.

Provides up to 95 percent of available battery voltage for smooth, stepless acceleration.

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

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

Hot rolled steel mast channel sections with cross-members resist flaring at flanges.

Pre-lubed and sealed, full-radius, angled load rollers resist forward, backward and lateral forces.

Hydraulic system components matched to flow requirements for smooth system operation.

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.

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

Manually operated main control valve provides precise operator control of hydraulic functions.

Self lubricating chromed rods and single urethane seals offer long service life.