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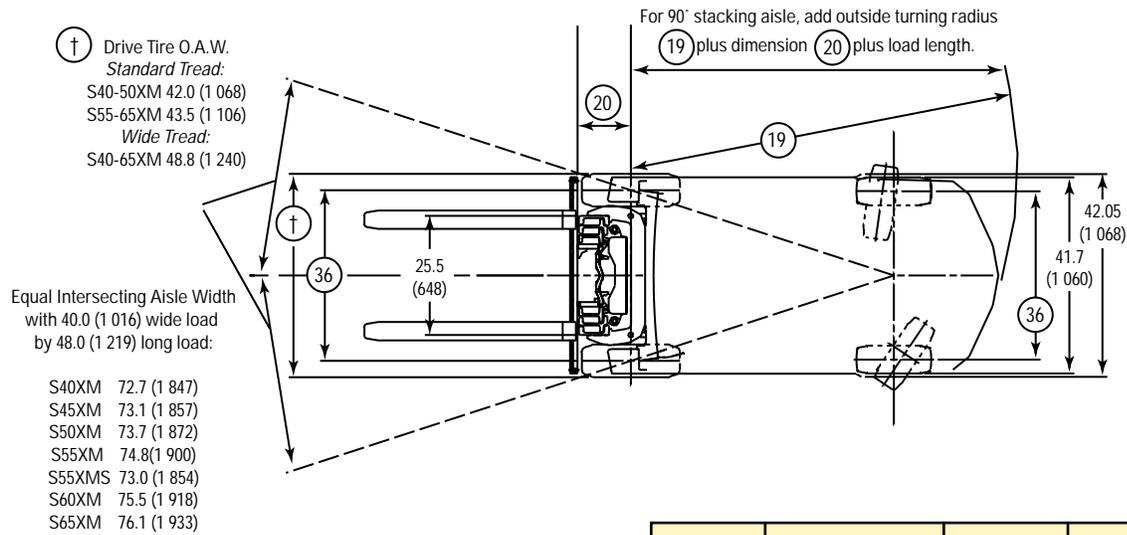
S40-65XM

Sit-down, Counterbalanced, Cushion Tire I.C.E. Lift Truck Series



TECHNICAL GUIDE

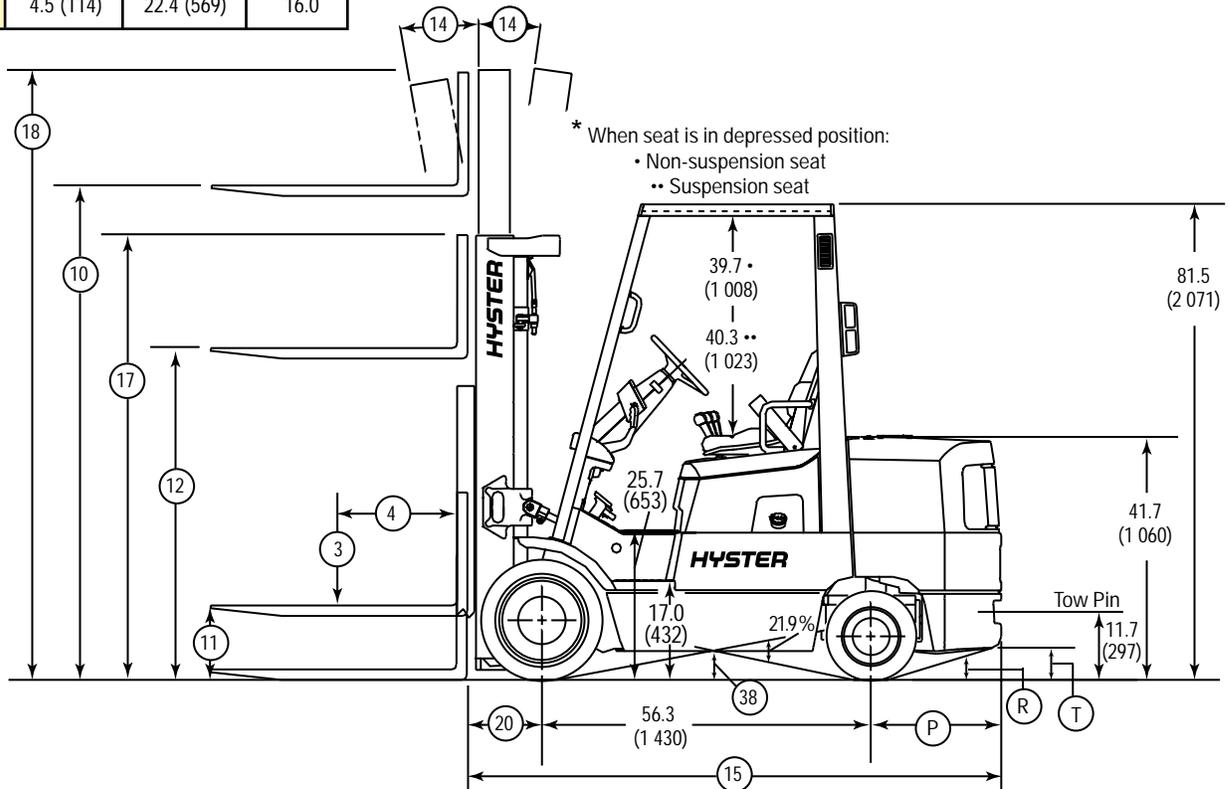
Hyster S40-65XM Lift Truck Dimensions



MODEL	(T) In. (mm)	(P) In. (mm)	(R) Degrees
S40XM	4.3 (109)	15.8 (401)	21.0°
S45XM	4.3 (109)	16.9 (429)	20.0°
S50XM	4.3 (109)	18.2 (462)	18.5°
S55XM	4.5 (114)	19.7 (500)	17.0°
S55XMS	4.8 (122)	15.4 (391)	19.5°
S60XM	4.3 (109)	21.1 (536)	16.5°
S65XM	4.5 (114)	22.4 (569)	16.0°

MODEL	TRUCK CAPACITY lb. (kg)	LOAD CENTER in. (mm)	CENTER of DRIVE AXLE MOMENT in. lb. (cm kg)
S40XM	4,000 (2 000)	24 (610)	155,200 (175 200)
S45XM	4,500 (2 250)	24 (610)	174,600 (197 100)
S50XM	5,000 (2 500)	24 (610)	194,000 (219 000)
S55XM	5,500 (2 500)	24 (610)	213,400 (246 500)
S55XMS	5,500 (2 500)	24 (610)	213,400 (246 500)
S60XM	6,000 (3 000)	24 (610)	234,000 (264 300)
S65XM	6,500 (3 200)	24 (610)	253,500 (281 920)

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

Hyster S40XM Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company	
	2	Model	S40XM (GM 3.0L)	S40XM (Mazda 2.2L)	S40XM (Mazda 2.0L)	
	3	Capacity, rated	lb. (kg)	4,000 (1 814)	4,000 (1 814)	4,000 (1 814)
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)
	5	Power type		Gas / LPG	LPG	LPG
	6	Operator type		Sit	Sit	Sit
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)	131.0 (3 327)
	11	Limited free-lift (TOF)	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)
	13	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8
	15	Length to face of forks	in. (mm)	86.9 (2 207)	86.9 (2 207)	86.9 (2 207)
	16	Width, standard tires	in. (mm)	42.0 (1 067)	42.0 (1 067)	42.0 (1 067)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	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)	179.4 (4 557) / 153.1 (3 889)
	19	Turning radius, minimum outside	in. (mm)	76.2 (1 936)	76.2 (1 936)	76.2 (1 936)
	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)	14.8 (376)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	91.0 (2 311)	91.0 (2 311)	91.0 (2 311)
PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES	YES
	24	Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
	25	Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	136.0 (0.69) / 127.0 (0.65)	N/A	N/A
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	133.0 (0.68) / 120.0 (0.61)	134.0 (0.68) / 121.0 (0.61)	123.0 (0.62) / 111.0 (0.56)
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	122.0 (0.62) / 115.0 (0.58)	N/A	N/A
		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	120.0 (0.61) / 110.0 (0.56)	121.0 (0.61) / 111.0 (0.56)	111.0 (0.56) / 101.0 (0.51)
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	129.0 (0.66) / 121.0 (0.61)	N/A	N/A
		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	127.0 (0.65) / 115.0 (0.58)	127.0 (0.65) / 116.0 (0.59)	117.0 (0.59) / 106.0 (0.54)
	26	Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
	27	Drawbar pull, Powershift, 1 mph NL / RL	lb _r (kN)	6,130 (27.3) / 5,280 (23.5)	N/A	N/A
	LPG data (this line only)	lb _r (kN)	5,450 (24.2) / 4,650 (20.7)	4,460 (19.8) / 3,760 (16.7)	4,140 (18.4) / 3,470 (15.4)	
28	Gradeability, Powershift, 1 mph NL / RL	%	26 / 50 ††	N/A	N/A	
	LPG data (this line only)	%	26 / 43	26 / NA	26 / 30	
WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	7,579 (3 438)	7,579 (3 438)	7,579 (3 438)
	31	Axle loading, static, front / rear - RL	lb. (kg)	10,261 (4 654) / 1,542 (699)	10,261 (4 654) / 1,542 (699)	10,261 (4 654) / 1,542 (699)
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 7.0 x 15.0	21.0 x 7.0 x 15.0	21.0 x 7.0 x 15.0
		Size of tires, steer (rear)		16.0 x 5.0 x 10.5	16.0 x 5.0 x 10.5	16.0 x 5.0 x 10.5
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	
ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)
	42	Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)
	43	Governed speed, NL	rpm	2,800	2,800	2,800
	44	Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 133.0 (2 184)	4 / 4 / 122.0 (1 999)
	45	Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter
	46	Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal
	47	Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	48	Transmission type		Powershift	Powershift	Powershift
55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	2,250 (15 513)	2,250 (15 513)	

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* **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 appears on the lift truck.

† **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. If these specifications are critical, the proposed application should be discussed with your authorized Hyster Dealer.

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

Hyster S45XM Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company	
	2	Model	S45XM (GM 3.0L)	S45XM (Mazda 2.2L)	S45XM (Mazda 2.0L)	
	3	Capacity, rated	lb. (kg)	4,500 (2 041)	4,500 (2 041)	4,500 (2 041)
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)
	5	Power type		Gas / LPG	LPG	LPG
	6	Operator type		Sit	Sit	Sit
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)	131.0 (3 327)
	11	Limited free-lift (TOF)	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)
	13	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8
	15	Length to face of forks	in. (mm)	88.0 (2 235)	88.0 (2 235)	88.0 (2 235)
	16	Width, standard tires	in. (mm)	42.0 (1 067)	42.0 (1 067)	42.0 (1 067)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)
	18	Height, std. mast extended with / without LBE	in. (mm)	179.0 (4 547) / 153.1 (3 889)	179.0 (4 547) / 153.1 (3 889)	179.0 (4 547) / 153.1 (3 889)
	19	Turning radius, minimum outside	in. (mm)	77.8 (1 976)	77.8 (1 976)	77.8 (1 976)
	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)	14.8 (376)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	92.6 (2 352)	92.6 (2 352)	92.6 (2 352)
	PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES
24		Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
25		Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	136.0 (0.69) / 126.0 (0.64)	N/A	N/A
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	133.0 (0.68) / 118.0 (0.60)	134.0 (0.68) / 121.0 (0.61)	123.0 (0.62) / 109.3 (0.56)
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	122.0 (0.62) / 114.0 (0.58)	N/A	N/A
26		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	120.0 (0.61) / 108.0 (0.55)	121.0 (0.61) / 111.0 (0.56)	111.0 (0.56) / 100.0 (0.51)
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	129.0 (0.66) / 120.0 (0.61)	N/A	N/A
27		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	127.0 (0.65) / 114.0 (0.58)	127.0 (0.65) / 116.0 (0.59)	117.0 (0.59) / 105.0 (0.53)
		Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
28		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
		Drawbar pull, Powershift, 1 mph NL / RL	lb _f (kN)	6,120 (27.2) / 5,270 (23.4)	N/A	N/A
	LPG data (this line only)	lb _f (kN)	5,440 (24.2) / 4,640 (20.6)	4,450 (19.8) / 3,750 (16.7)	4,120 (18.3) / 3,460 (15.4)	
29	Gradeability, Powershift, 1 mph NL / RL	%	24 / 46 ††	N/A	N/A	
	LPG data (this line only)	%	24 / 39	24 / 31	24 / 28	
WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	7,989 (3 624)	7,989 (3 624)	7,989 (3 624)
	31	Axle loading, static, front / rear - RL	lb. (kg)	11,011 (4 995) / 1,702 (772)	11,011 (4 995) / 1,702 (772)	11,011 (4 995) / 1,702 (772)
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 7.0 x 15.0	21.0 x 7.0 x 15.0	21.0 x 7.0 x 15.0
		Size of tires, steer (rear)		16.0 x 5.0 x 10.5	16.0 x 5.0 x 10.5	16.0 x 5.0 x 10.5
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	
ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)
	42	Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)
	43	Governed speed, NL	rpm	2,800	2,800	2,800
	44	Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 122.0 (1 999)	4 / 4 / 133.0 (2 184)
	45	Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter
	46	Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal
	47	Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	48	Transmission type		Powershift	Powershift	Powershift
55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	2,250 (15 513)	2,250 (15 513)	

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† **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. If these specifications are critical, the proposed application should be discussed with your authorized Hyster Dealer.

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

Hyster S50XM Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company		
	2	Model	S50XM (GM 3.0L)	S50XM (Mazda 2.2L)	S50XM (Mazda 2.0L)		
	3	Capacity, rated	lb. (kg)	5,000 (2 268)	5,000 (2 268)	5,000 (2 268)	
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)	
	5	Power type		Gas / LPG	LPG	LPG	
	6	Operator type		Sit	Sit	Sit	
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion	
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2	
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)	131.0 (3 327)	
	11	Limited free-lift (TOF)	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)	
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	
	13	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8	
	15	Length to face of forks	in. (mm)	89.2 (2 266)	89.2 (2 266)	89.2 (2 266)	
	16	Width, standard tires	in. (mm)	42.0 (1 067)	42.0 (1 067)	42.0 (1 067)	
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)	
	18	Height, std. mast extended with / without LBE	in. (mm)	179.0 (4 547) / 153.1 (3 889)	179.0 (4 547) / 153.1 (3 889)	179.0 (4 547) / 153.1 (3 889)	
	19	Turning radius, minimum outside	in. (mm)	79.0 (2 007)	79.0 (2 007)	79.0 (2 007)	
	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)	14.8 (376)	
	22	Aisle width (Add load length for 90° stack)	in. (mm)	93.8 (2 383)	93.8 (2 383)	93.8 (2 383)	
	PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES	YES
		24	Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
25		Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	136.0 (0.69) / 125.0 (0.64)	N/A	N/A	
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	133.0 (0.68) / 117.0 (0.59)	134.0 (0.68) / 118.0 (0.60)	123.0 (0.62) / 108.0 (0.55)	
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	122.0 (0.62) / 113.0 (0.57)	N/A	N/A	
		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	120.0 (0.61) / 109.0 (0.54)	121.0 (0.61) / 108.0 (0.55)	111.0 (0.56) / 99.0 (0.50)	
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	129.0 (0.66) / 119.0 (0.60)	N/A	N/A	
		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	127.0 (0.65) / 112.0 (0.57)	127.0 (0.65) / 113.0 (0.57)	117.0 (0.59) / 103.0 (0.52)	
26		Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
27		Drawbar pull, Powershift, 1 mph NL / RL	lb _f (kN)	6,110 (27.2) / 5,260 (23.4)	N/A	N/A	
		LPG data (this line only)	lb _f (kN)	5,430 (24.2) / 4,640 (20.6)	4,440 (19.8) / 3,740 (16.6)	4,110 (18.3) / 3,440 (15.3)	
28	Gradeability, Powershift, 1 mph NL / RL	%	22 / 42 ††	N/A	N/A		
	LPG data (this line only)	%	22 / 36	22 / 29	22 / 26		
WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	8,404 (3 812)	8,404 (3 812)	8,404 (3 812)	
	31	Axle loading, static, front / rear - RL	lb. (kg)	11,763 (5 336) / 1,864 (846)	11,763 (5 336) / 1,864 (846)	11,763 (5 336) / 1,864 (846)	
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 7.0 x 15.0	21.0 x 7.0 x 15.0	21.0 x 7.0 x 15.0	
		Size of tires, steer (rear)		16.0 x 5.0 x 10.5	16.0 x 5.0 x 10.5	16.0 x 5.0 x 10.5	
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)	
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)	
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)	
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	
39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand		
ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)	
	42	Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)	
	43	Governed speed, NL	rpm	2,800	2,800	2,800	
	44	Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 133.0 (2 184)	4 / 4 / 122.0 (1 999)	
	45	Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter	
	46	Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal	
	47	Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1	
	48	Transmission type		Powershift	Powershift	Powershift	
55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	2,250 (15 513)	2,250 (15 513)		

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* **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 appears on the lift truck.

† **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. If these specifications are critical, the proposed application should be discussed with your authorized Hyster Dealer.

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

Hyster S55XM Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company		
	2	Model	S55XM (GM 3.0L)	S55XM (Mazda 2.2L)	S55XM (Mazda 2.0L)		
	3	Capacity, rated	lb. (kg)	5,500 (2 495)	5,500 (2 495)	5,500 (2 495)	
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)	
	5	Power type		Gas / LPG	LPG	LPG	
	6	Operator type		Sit	Sit	Sit	
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion	
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2	
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)	131.0 (3 327)	
	11	Limited free-lift (TOF)	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)	
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	
	13	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8	
	15	Length to face of forks	in. (mm)	90.8 (2 306)	90.8 (2 306)	90.8 (2 306)	
	16	Width, standard tires	in. (mm)	43.5 (1 105)	43.5 (1 105)	43.5 (1 105)	
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)	
	18	Height, std. mast extended with / without LBE	in. (mm)	178.6 (4 536) / 155.7 (3 955)	178.6 (4 536) / 155.7 (3 955)	178.6 (4 536) / 155.7 (3 955)	
	19	Turning radius, minimum outside	in. (mm)	80.4 (2 042)	80.4 (2 042)	80.4 (2 042)	
	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)	14.8 (376)	
	22	Aisle width (Add load length for 90° stack)	in. (mm)	95.2 (2 418)	95.2 (2 418)	95.2 (2 418)	
	PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES	YES
		24	Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
25		Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	136.0 (0.69) / 124.0 (0.63)	N/A	N/A	
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	133.0 (0.68) / 115.0 (0.58)	134.0 (0.68) / 116.0 (0.59)	123.0 (0.62) / 106.0 (0.54)	
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	122.0 (0.62) / 112.0 (0.57)	N/A	N/A	
		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	120.0 (0.61) / 106.0 (0.54)	121.0 (0.61) / 106.0 (0.54)	111.0 (0.56) / 98.0 (0.50)	
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	129.0 (0.66) / 118.0 (0.60)	N/A	N/A	
		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	127.0 (0.65) / 111.0 (0.56)	127.0 (0.65) / 111.0 (0.56)	117.0 (0.59) / 102.0 (0.52)	
26		Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
27		Drawbar pull, Powershift, 1 mph NL / RL	lb _f (kN)	6,100 (27.1) / 5,260 (23.4)	N/A	N/A	
	LPG data (this line only)	lb _f (kN)	5,420 (24.1) / 4,630 (20.6)	4,420 (19.7) / 3,725 (16.6)	4,090 (18.2) / 3,420 (15.2)		
	Gradeability, Powershift, 1 mph NL / RL	%	21 / 39 ††	N/A	N/A		
28	LPG data (this line only)	%	21 / 34	21 / 27	21 / 24		
WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	8,814 (3 998)	8,814 (3 998)	8,814 (3 998)	
	31	Axle loading, static, front / rear - RL	lb. (kg)	12,485 (5 663) / 2,052 (931)	12,485 (5 663) / 2,052 (931)	12,485 (5 663) / 2,052 (931)	
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	
		Size of tires, steer (rear)		16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)	
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)	
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)	
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	
	39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	
ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)	
	42	Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)	
	43	Governed speed, NL	rpm	2,800	2,800	2,800	
	44	Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 133.0 (2 184)	4 / 4 / 122.0 (1 999)	
	45	Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter	
	46	Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal	
	47	Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1	
	48	Transmission type		Powershift	Powershift	Powershift	
	55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	2,250 (15 513)	2,250 (15 513)	

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† **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. If these specifications are critical, the proposed application should be discussed with your authorized Hyster Dealer.

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

Hyster S55XMS Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company		
	2	Model	S55XMS (GM 3.0L)	S55XMS (Mazda 2.2L)	S55XMS (Mazda 2.0L)		
	3	Capacity, rated	lb. (kg)	5,500 (2 495)	5,500 (2 495)	5,500 (2 495)	
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)	
	5	Power type		Gas / LPG	LPG	LPG	
	6	Operator type		Sit	Sit	Sit	
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion	
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2	
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	131.0 (3 327)	131.0 (3 327)	131.0 (3 327)	
	11	Limited free-lift (TOF)	in. (mm)	5.5 (140)	5.5 (140)	5.5 (140)	
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	35.7 (907) / 62.0 (1 575)	
	13	Forks, width / thickness	in. (mm)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	4.0 (102) / 1.5 (38)	
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8	
	15	Length to face of forks	in. (mm)	86.5 (2 197)	86.5 (2 197)	86.5 (2 197)	
	16	Width, standard tires	in. (mm)	43.5 (1 105)	43.5 (1 105)	43.5 (1 105)	
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)	
	18	Height, std. mast extended with / without LBE	in. (mm)	179.0 (4 547) / 153.1 (3 889)	179.0 (4 547) / 153.1 (3 889)	179.0 (4 547) / 153.1 (3 889)	
	19	Turning radius, minimum outside	in. (mm)	75.8 (1 925)	75.8 (1 925)	75.8 (1 925)	
	20	Center of wheel to face of forks	in. (mm)	14.8 (376)	14.8 (376)	14.8 (376)	
	22	Aisle width (Add load length for 90° stack)	in. (mm)	90.6 (2 301)	90.6 (2 301)	90.6 (2 301)	
	PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES	YES
		24	Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
25		Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	136.0 (0.69) / 124.0 (0.63)	N/A	N/A	
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	133.0 (0.68) / 115.0 (0.58)	134.0 (0.68) / 116.0 (0.59)	123.0 (0.62) / 106.0 (0.54)	
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	122.0 (0.62) / 112.0 (0.57)	N/A	N/A	
		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	120.0 (0.61) / 106.0 (0.54)	121.0 (0.61) / 106.0 (0.54)	111.0 (0.56) / 98.0 (0.50)	
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	129.0 (0.66) / 118.0 (0.60)	N/A	N/A	
		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	127.0 (0.65) / 111.0 (0.56)	127.0 (0.65) / 111.0 (0.56)	117.0 (0.59) / 102.0 (0.52)	
		26	Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
27		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Drawbar pull, Powershift, 1 mph NL / RL	lb _f (kN)	6,100 (27.1) / 5,250 (23.4)	N/A	N/A	
28		LPG data (this line only)	lb _f (kN)	5,420 (24.1) / 4,630 (20.6)	4,420 (19.7) / 3,725 (16.6)	4,090 (18.2) / 3,420 (15.2)	
	Gradeability, Powershift, 1 mph NL / RL	%	21 / 38 ††	N/A	N/A		
29	LPG data (this line only)	%	21 / 33	21 / 27	21 / 24		
WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	8,969 (4 068)	8,969 (4 068)	8,969 (4 068)	
	31	Axle loading, static, front / rear - RL	lb. (kg)	12,668 (5 746) / 2,025 (919)	12,668 (5 746) / 2,025 (919)	12,668 (5 746) / 2,025 (919)	
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	
		Size of tires, steer (rear)		16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)	
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)	
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)	
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	
	39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	
ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)	
	42	Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)	
	43	Governed speed, NL	rpm	2,800	2,800	2,800	
	44	Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 133.0 (2 184)	4 / 4 / 122.0 (1 999)	
	45	Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter	
	46	Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal	
	47	Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1	
	48	Transmission type		Powershift	Powershift	Powershift	
	55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	2,250 (15 513)	2,250 (15 513)	

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

Hyster S60XM Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company	
	2	Model	S60XM (GM 3.0L)	S60XM (Mazda 2.2L)	S60XM (Mazda 2.0L)	
	3	Capacity, rated	lb. (kg)	6,000 (2 722)	6,000 (2 722)	6,000 (2 722)
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)
	5	Power type		Gas / LPG	LPG	LPG
	6	Operator type		Sit	Sit	Sit
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	126.5 (3 213)	126.5 (3 213)	126.5 (3 213)
	11	Limited free-lift (TOF)	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 58.6 (1 488)	35.7 (907) / 58.6 (1 488)	35.7 (907) / 58.6 (1 488)
	13	Forks, width / thickness	in. (mm)	5.0 (127) / 2.0 (51)	5.0 (127) / 2.0 (51)	5.0 (127) / 2.0 (51)
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8
	15	Length to face of forks	in. (mm)	92.4 (2 347)	92.4 (2 347)	92.4 (2 347)
	16	Width, standard tires	in. (mm)	43.5 (1 105)	43.5 (1 105)	43.5 (1 105)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)
	18	Height, std. mast extended with / without LBE	in. (mm)	178.6 (4 536) / 155.7 (3 955)	178.6 (4 536) / 155.7 (3 955)	178.6 (4 536) / 155.7 (3 955)
	19	Turning radius, minimum outside	in. (mm)	81.7 (2 075)	81.7 (2 075)	81.7 (2 075)
	20	Center of wheel to face of forks	in. (mm)	15.0 (381)	15.0 (381)	15.0 (381)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	96.7 (2 456)	96.7 (2 456)	96.7 (2 456)
PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES	YES
	24	Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
	25	Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	119.0 (0.60) / 109.0 (0.55)	N/A	N/A
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	117.0 (0.59) / 102.0 (0.52)	118.0 (0.60) / 103.0 (0.52)	108.0 (0.55) / 94.0 (0.48)
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	117.0 (0.59) / 107.0 (0.54)	N/A	N/A
		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	114.0 (0.58) / 100.0 (0.51)	115.0 (0.58) / 101.0 (0.51)	107.0 (0.54) / 92.0 (0.47)
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	115.0 (0.58) / 106.0 (0.54)	N/A	N/A
		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	113.0 (0.57) / 99.0 (0.50)	114.0 (0.58) / 101.0 (0.51)	104.0 (0.53) / 92.0 (0.47)
	26	Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)
	27	Drawbar pull, Powershift, 1 mph NL / RL	lb _f (kN)	6,090 (27.1) / 5,240 (23.3)	N/A	N/A
	LPG data (this line only)	lb _f (kN)	5,410 (24.0) / 4,620 (20.6)	4,400 (19.6) / 3,710 (16.5)	4,070 (18.1) / 3,410 (15.2)	
28	Gradeability, Powershift, 1 mph NL / RL	%	19 / 36 ††	N/A	N/A	
	LPG data (this line only)	%	19 / 31	19 / 24	19 / 22	
WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	9,438 (4 281)	9,438 (4 281)	9,438 (4 281)
	31	Axle loading, static, front / rear - RL	lb. (kg)	13,557 (6 149) / 2,175 (987)	13,557 (6 149) / 2,175 (987)	13,557 (6 149) / 2,175 (987)
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0
		Size of tires, steer (rear)		16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	
ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)
	42	Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)
	43	Governed speed, NL	rpm	2,800	2,800	2,800
	44	Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 133.0 (2 184)	4 / 4 / 122.0 (1 999)
	45	Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter
	46	Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal
	47	Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	48	Transmission type		Powershift	Powershift	Powershift
55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	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 appears on the lift truck.

† **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. If these specifications are critical, the proposed application should be discussed with your authorized Hyster Dealer.

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

Hyster S65XM Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company		
	2	Model	S65XM (GM 3.0L)	S65XM (Mazda 2.2L)	S65XM (Mazda 2.0L)		
	3	Capacity, rated	lb. (kg)	6,500 (2 948)	6,500 (2 948)	6,500 (2 948)	
	4	Load center	in. (mm)	24 (610)	24 (610)	24 (610)	
	5	Power type		Gas / LPG	LPG	LPG	
	6	Operator type		Sit	Sit	Sit	
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion	
	8	Wheels, front / rear	(X=driven)	2X / 2	2X / 2	2X / 2	
DIMENSIONS	10	2-stg. LFL (TOF)	in. (mm)	126.5 (3 213)	126.5 (3 213)	126.5 (3 213)	
	11	Limited free-lift (TOF)	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)	
	12	Optional full free-lift (TOF) with / without LBE	in. (mm)	35.7 (907) / 58.6 (1 488)	35.7 (907) / 58.6 (1 488)	35.7 (907) / 58.6 (1 488)	
	13	Forks, width / thickness	in. (mm)	5.0 (127) / 2.0 (51)	5.0 (127) / 2.0 (51)	5.0 (127) / 2.0 (51)	
	14	Tilt angle, forward / backward	Deg. °	5 / 8	5 / 8	5 / 8	
	15	Length to face of forks	in. (mm)	93.7 (2 380)	93.7 (2 380)	93.7 (2 380)	
	16	Width, standard tires	in. (mm)	43.5 (1 105)	43.5 (1 105)	43.5 (1 105)	
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)	
	18	Height, std. mast extended with / without LBE	in. (mm)	178.6 (4 536) / 155.7 (3 955)	178.6 (4 536) / 155.7 (3 955)	178.6 (4 536) / 155.7 (3 955)	
	19	Turning radius, minimum outside	in. (mm)	82.9 (2 106)	82.9 (2 106)	82.9 (2 106)	
	20	Center of wheel to face of forks	in. (mm)	15.0 (381)	15.0 (381)	15.0 (381)	
	22	Aisle width (Add load length for 90° stack)	in. (mm)	97.9 (2 487)	97.9 (2 487)	97.9 (2 487)	
	PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES	YES
		24	Travel speed, NL / RL	mph (km/h)	10.9 (17.5) / 11.1 (17.9)	10.8 (17.4) / 10.9 (17.5)	10.8 (17.4) / 10.9 (17.5)
25		Lift speed, standard mast NL / RL (Gas)	ft/min (m/s)	119.0 (0.60) / 108.0 (0.55)	N/A	N/A	
		Lift speed, standard mast NL / RL (LPG)	ft/min (m/s)	117.0 (0.59) / 101.0 (0.51)	118.0 (0.60) / 102.0 (0.52)	108.0 (0.55) / 93.0 (0.47)	
		Opt. 2-stage FFL mast NL / RL (Gas)	ft/min (m/s)	117.0 (0.59) / 106.0 (0.54)	N/A	N/A	
26		Opt. 2-stage FFL mast NL / RL (LPG)	ft/min (m/s)	114.0 (0.58) / 99.0 (0.50)	115.0 (0.58) / 100.0 (0.51)	107.0 (0.54) / 91.0 (0.46)	
		Opt. 3-stage FFL mast NL / RL (Gas)	ft/min (m/s)	115.0 (0.58) / 105.0 (0.53)	N/A	N/A	
27		Opt. 3-stage FFL mast NL / RL (LPG)	ft/min (m/s)	113.0 (0.57) / 98.0 (0.50)	114.0 (0.58) / 99.0 (0.50)	104.0 (0.53) / 91.0 (0.46)	
		Lowering, standard mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
28		Opt. 2-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Opt. 3-stage FFL mast NL / RL	ft/min (m/s)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	82.8 (0.42) / 98.6 (0.50)	
		Drawbar pull, Powershift, 1 mph NL / RL	lb _f (kN)	6,080 (27.1) / 5,240 (23.3)	N/A	N/A	
29		LPG data (this line only)	lb _f (kN)	5,400 (24.0) / 4,610 (20.5)	4,390 (19.5) / 3,700 (16.5)	4,060 (18.1) / 3,400 (15.1)	
	Gradeability, Powershift, 1 mph NL / RL	%	18 / 34 ††	N/A	N/A		
30	LPG data (this line only)	%	18 / 29	18 / 22	18 / 21		
	Weight, total approximate, std. truck config.	lb. (kg)	9,798 (4 444)	9,798 (4 444)	9,798 (4 444)		
31	Axle loading, static, front / rear - RL	lb. (kg)	14,288 (6 481) / 2,303 (1 045)	14,288 (6 481) / 2,303 (1 045)	14,288 (6 481) / 2,303 (1 045)		
TIRES & WHEELS	33	Size of tires, drive (front)		21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	21.0 x 8.0 x 15.0	
		Size of tires, steer (rear)		16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	16.0 x 6.0 x 10.5	
	34	Wheelbase	in. (mm)	56.3 (1 430)	56.3 (1 430)	56.3 (1 430)	
	35	Tread, center of tires front / rear	in. (mm)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	35.0 (889) / 36.7 (932)	
	36	Ground clearance, lowest point - NL	in. (mm)	3.6 (91)	3.6 (91)	3.6 (91)	
	37	Ground clearance, center wheelbase - NL	in. (mm)	4.9 (125)	4.9 (125)	4.9 (125)	
	38	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	
	39	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	
	ELECTRIC	40	Battery, volts / cold cranking amps	V (amps)	12 (475)	12 (475)	12 (475)
42		Output per SAE standards, Gas / LPG	hp (kW)	62.5 (46.6) / 59.0 (44.0)	47.0 (35.0) / 47.0 (35.0)	41.5 (31.0) / 41.5 (31.0)	
43		Governed speed, NL	rpm	2,800	2,800	2,800	
44		Cycle, no. cylinders / displacement	cu. in. (cm ³)	4 / 4 / 181.0 (2 966)	4 / 4 / 133.0 (2 184)	4 / 4 / 122.0 (1 999)	
45		Clutch type (Powershift)	hp (kw)	Torque Converter	Torque Converter	Torque Converter	
46		Gear change type (Powershift)		MONOTROL Pedal	MONOTROL Pedal	MONOTROL Pedal	
47		Number of speeds, forward / reverse		1 / 1	1 / 1	1 / 1	
48		Transmission type		Powershift	Powershift	Powershift	
55	Relief pressure for attachments	psi (kPA)	2,250 (15 513)	2,250 (15 513)	2,250 (15 513)		

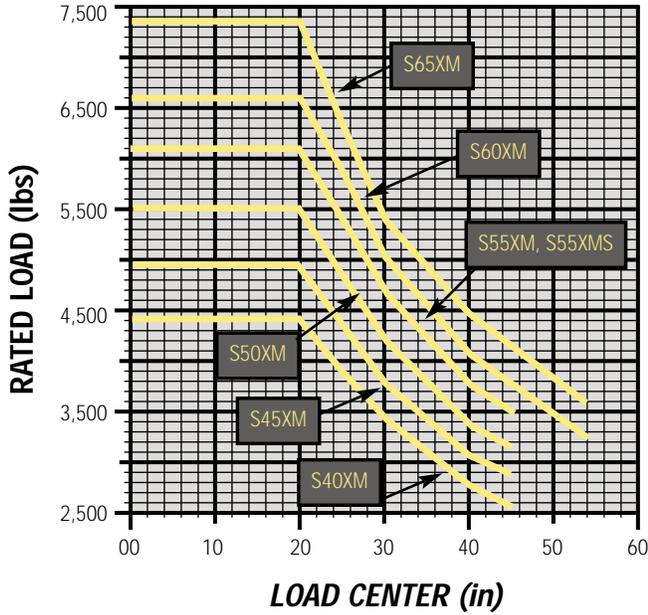
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† **NOTE:** Performance specifications/ratings are for truck equipped as described under Standard Equipment in this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your authorized Hyster Dealer.

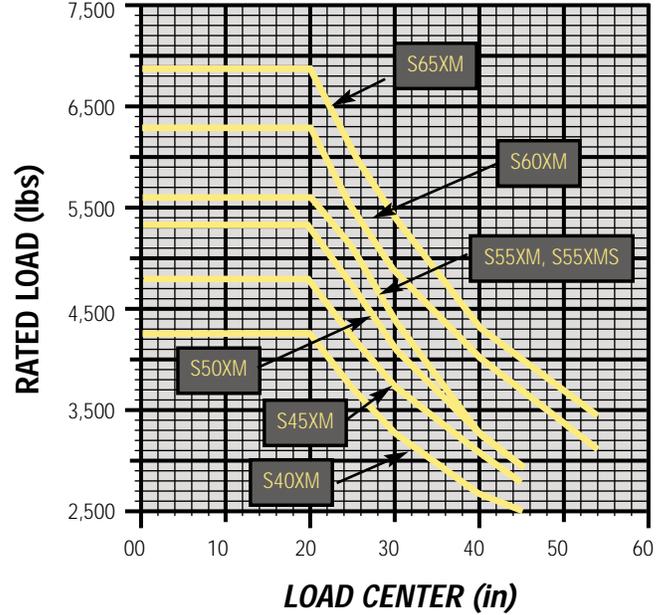
†† Limited by traction. For further information on this dimension, please contact your local Hyster Company dealer.

Hyster S40-65XM Lift Truck Rated Capacities

RATED LOAD vs. LOAD CENTER
STANDARD CARRIAGE
U. S. CUSTOMARY

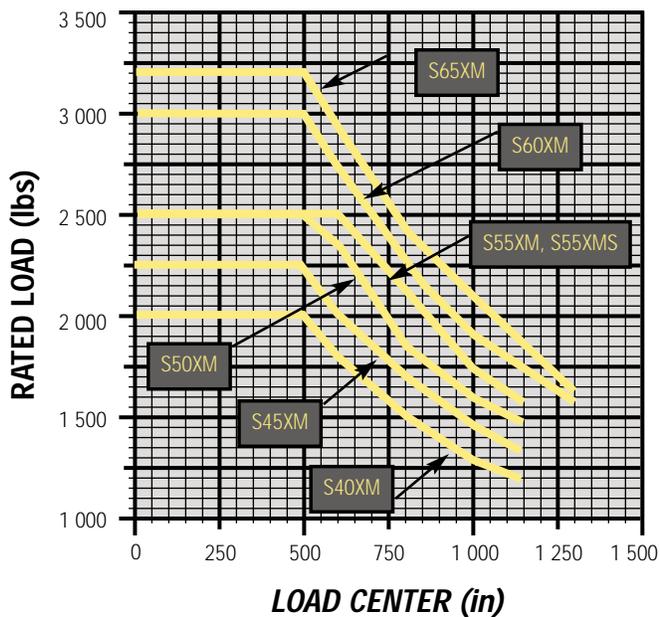


RATED LOAD vs. LOAD CENTER
INTEGRAL SIDESHIFT ATTACHMENT
U. S. CUSTOMARY

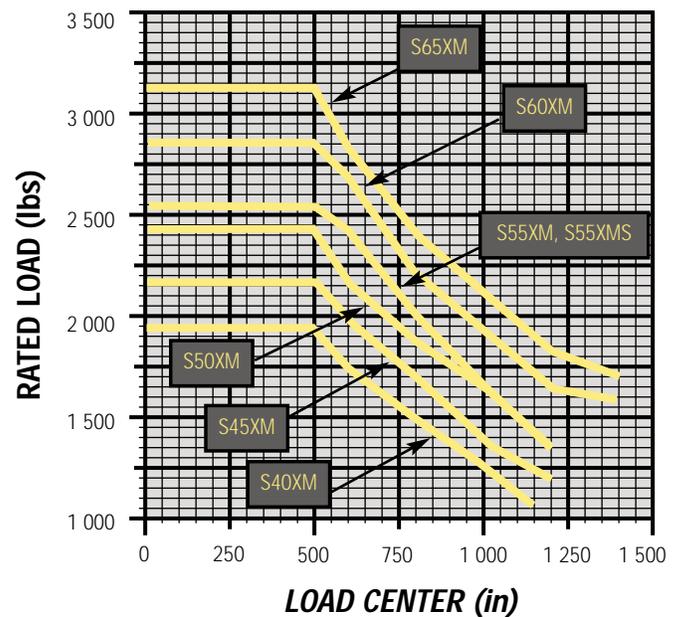


10

RATED LOAD vs. LOAD CENTER
STANDARD CARRIAGE
METRIC



RATED LOAD vs. LOAD CENTER
INTEGRAL SIDESHIFT ATTACHMENT
METRIC



Hyster S40-65XM Mast Specifications

S40-55XM, 55XMS MAST DIMENSIONS					in. (mm)				
Maximum Fork Height (Top of Forks) †	Overall Lowered Height	Overall Extended Height		Free-Lift (TOF) without Load Backrest Ext. *	S40XM lb. (kg)	Total Weight of Standard Equipped Truck			
		with Load Backrest Ext.	without Load Backrest Ext.			S45XM lb. (kg)	S50XM lb. (kg)	S55XM lb. (kg)	S55XMS lb. (kg)
2-STAGE LIMITED FREE-LIFT (LFL) VISTA									
84.0 (2 134)	60.5 (1 537)	132.2 (3 358)	105.9 (2 690)	5.5 (140)	7,648 (3 469)	8,007 (3 632)	8,422 (3 820)	8,832 (4 006)	8,987 (4 076)
119.5 (3 035)	78.0 (1 981)	167.6 (4 257)	141.3 (3 589)	5.5 (140)	7,802 (3 539)	8,161 (3 702)	8,576 (3 890)	8,986 (4 076)	9,141 (4 146)
131.0 (3 327)	84.0 (2 134)	179.4 (4 557)	153.1 (3 889)	5.5 (140)	7,853 (3 562)	8,212 (3 725)	8,627 (3 913)	9,037 (4 099)	9,192 (4 169)
151.0 (3 835)	94.0 (2 388)	199.1 (5 057)	172.8 (4 389)	5.5 (140)	7,939 (3 601)	8,298 (3 764)	8,713 (3 952)	9,123 (4 138)	9,278 (4 208)
2-STAGE FULL FREE-LIFT (FFL) VISTA									
118.0 (2 997)	78.0 (1 981)	167.2 (4 247)	140.9 (3 579)	56.0 (1 422)	7,841 (3 557)	8,200 (3 719)	8,615 (3 908)	9,025 (4 094)	9,180 (4 164)
129.5 (3 289)	84.0 (2 134)	179.0 (4 547)	153.1 (3 889)	62.0 (1 575)	7,897 (3 582)	8,256 (3 745)	8,671 (3 933)	9,081 (4 119)	9,236 (4 189)
3-STAGE FULL FREE-LIFT (FFL) VISTA									
171.5 (4 356)	76.0 (1 930)	219.5 (5 575)	192.5 (4 890)	55.0 (1 397)	8,157 (3 700)	8,516 (3 863)	8,931 (4 051)	9,341 (4 237)	9,496 (4 307)
189.0 (4 801)	82.0 (2 083)	237.2 (6 025)	210.2 (5 339)	61.0 (1 549)	8,232 (3 734)	8,591 (3 897)	9,006 (4 085)	9,416 (4 271)	9,571 (4 341)
218.5 (5 550)	94.0 (2 388)	266.7 (6 774)	239.7 (6 088)	72.5 (1 842)	8,383 (3 802)	8,742 (3 965)	9,157 (4 154)	9,567 (4 340)	9,722 (4 410)
4-STAGE FULL FREE-LIFT (FFL) VISTA ‡									
240.0 (6 096)	83.5 (2 121)	288.2 (7 320)	261.5 (6 642)	61.0 (1 549)	8,781 (3 983)	9,140 (4 146)	9,555 (4 334)	9,965 (4 520)	10,120 (4 590)

† Lift heights over 171.5" (4 356 mm) maximum fork height are considered highlifts and require reduced capacity and restricted back tilt.

* On 2-stage FFL and 3-stage VISTA®, subtract 25.5" (648 mm) if Load Backrest Extension (LBE) is used.

‡ Lift trucks equipped with the 4-stage FFL VISTA® mast require Class II carriage and forks.

S60-65XM MAST DIMENSIONS					in. (mm)	
Maximum Fork Height (Top of Forks) †	Overall Lowered Height	Overall Ext. Height		Free-Lift (TOF) without Load Backrest Ext. *	Total Weight of Standard Equipped Truck	
		with Load Backrest Ext.	without Load Backrest Ext.		S60XM lb. (kg)	S65XM lb. (kg)
2-STAGE LIMITED FREE-LIFT (LFL) VISTA						
126.5 (3 213)	84.0 (2 134)	174.6 (4 435)	151.8 (3 856)	6.0 (152)	9,731 (4 414)	10,091 (4 577)
146.0 (3 708)	94.0 (2 388)	194.3 (4 935)	171.4 (4 354)	6.0 (152)	9,817 (4 453)	10,177 (4 616)
2-STAGE FULL FREE-LIFT (FFL) VISTA						
126.5 (3 213)	84.0 (2 134)	174.7 (4 437)	151.8 (3 856)	58.5 (1 486)	9,772 (4 433)	10,132 (4 596)
3-STAGE FULL FREE-LIFT (FFL) VISTA						
164.0 (4 166)	76.0 (1 930)	212.4 (5 395)	188.8 (4 796)	51.5 (1 308)	10,036 (4 552)	10,396 (4 716)
182.0 (4 623)	82.0 (2 083)	230.1 (5 845)	206.5 (5 245)	57.5 (1 461)	10,108 (4 585)	10,468 (4 748)
193.5 (4 915)	88.0 (2 235)	241.9 (6 144)	218.3 (5 545)	63.5 (1 613)	10,176 (4 616)	10,536 (4 779)
211.5 (5 372)	94.0 (2 388)	259.6 (6 594)	236.0 (5 994)	69.0 (1 753)	10,257 (4 652)	10,617 (4 816)
4-STAGE FULL FREE-LIFT (FFL) VISTA ‡						
240.0 (6 096)	83.5 (2 121)	288.2 (7 320)	261.5 (6 642)	61.0 (1 549)	10,650 (4 831)	11,010 (4 994)

† Lift heights over 164.0" (4 166 mm) maximum fork height are considered highlifts and require reduced capacity and restricted back tilt.

* On 2-stage FFL and 3-stage VISTA®, subtract 25.5" (648 mm) if Load Backrest Extension (LBE) is used.

‡ Lift trucks equipped with the 4-stage FFL VISTA® mast require Class II carriage and forks.

Hyster S40-65XM Standard Features and Options

CAPACITY:

- Model S40XM:** 4,000 lbs. at 24" (1 814 kg at 610 mm) load center.
- Model S45XM:** 4,500 lbs. at 24" (2 041 kg at 610 mm) load center.
- Model S50XM:** 5,000 lbs. at 24" (2 268 kg at 610 mm) load center.
- Model S55XM:** 5,500 lbs. at 24" (2 495 kg at 610 mm) load center.
- Model S55XMS:** 5,500 lbs. at 24" (2 495 kg at 610 mm) load center.
- Model S60XM:** 6,000 lbs. at 24" (2 722 kg at 610 mm) load center.
- Model S65XM:** 6,500 lbs. at 24" (2 948 kg at 610 mm) load center.

Rated capacities are for trucks equipped with:

- 3-stage full free-lift VISTA® mast to 171.5" (4 356 mm) maximum fork height for S40-55XM, S55XMS or 164.0" (4 166 mm) for S60-65XM.
- 38.5" (978 mm) hook-type carriage with 42.0" (1 067 mm) long forks as required for S40-55XM, S55XMS or 48.0" (1 219 mm) for S60-65XM.
- Mazda 2.0L LPG emissions compliant engine
- Load backrest extension (LBE)
- Single speed Powershift transmission

STANDARD EQUIPMENT

Complete truck equipped with:

- Mazda 2.0L LPG emissions compliant engine
- 2-stage limited free-lift VISTA® mast with maximum fork height of 131.0" (3 327 mm) (S40-55XM, S55XMS) or 126.5" (3 213 mm) (S60-65XM)
- 38.5" (978 mm) wide hook-type carriage with load backrest extension
- 42.0" (1 067 mm) (S40-55M, S55XMS), 48.0" (1 219 mm) (S60-65XM) long forks
- 5 degrees forward and 8 degrees backward mast tilt
- 3-function valve
- Powershift transmission
- MONOTROL® pedal
- ComforCab isolated operator's compartment
- Instrumentation/monitor group includes:
 - Gauges:
 - Water temperature
 - Hour meter
 - Low fuel level-gas
 - Service Indicator Lights:
 - Charge circuit
 - Transmission oil temperature
 - Engine oil pressure
 - Brake fluid level
 - Radiator coolant level
 - Fasten seatbelt
 - Low fuel level-LPG only
 - Service engine soon-gas
- Power steering
- Non-suspension vinyl seat
- Horn
- Two brake lights with back-up lights
- DuraTread rubber floor mat
- High air intake
- Integral tie downs
- Operator restraint system
- Standard serpentine radiator
- Standard construction industry kit
- Five position tilt steering column
- 84.5" Overhead guard
- Operator's manual
- UL Classification G, LP or G/LP

OPTIONAL EQUIPMENT

The following equipment is available for the S40-65XM model series:

- GM 3.0L LPG or Gas-Fuel Injected emissions compliant engine
- Mazda 2.2L LPG emissions compliant engine
- Control lever directional control
- Standard radiator with screen
- Open core radiator with or without removable screen
- Engine shutdown system
- Premium instrumentation includes standard instrumentation plus:
 - Gauges:
 - Engine oil pressure
 - Volt meter
 - Service Indicator Lights:
 - Air cleaner restriction
- Full-suspension seats (vinyl or cloth)
- Semi-suspension seats (vinyl or cloth)
- 81.6" Overhead guard
- Dust/foundry kit
- Textile kit
- Paper applications kit
- 2 drive, 1 rear, 2 brake/tail with back-up lights
- 5 degrees forward and 5 degrees backward mast tilt
- 5 degrees forward and 4 degrees backward mast tilt (required with 4-stage)
- 10 degrees forward and 5 degrees backward mast tilt
- Lifting eyes
- Wide tread
- Selection of drive and steer tires
- Hook-type 38.5" (978 mm) sideshift
- Various fork sizes (pallet, polished and tapered, wood product (S60-65XM only))
- 4-function valve and hose groups
- Back-up alarm, reverse operated, self-adjusting
- Continuous amber strobe light
- Dual mirrors
- UL Classification GS or LPS
- Parts manual - printed or CD

All 2004 engines are EPA Emissions Compliant.

Hyster S40-65XM Standard Features and Options

MASTS

Masts are available in 2-stage limited free lift and 2, 3, or 4-stage full free-lift VISTA® masts.

Masts feature nested-channel design and full-radius, angled load rollers.

CARRIAGE

Carriages are hook-type, ITA Class II mounting (S40-55XM, S55XMS), ITA Class III (S60-65XM).

Overall width without load backrest extension (LBE) is 38.5" (978 mm); with LBE is 39.72" (1 009 mm).

Minimum inside-to-inside fork spacing is 0.12" (3 mm).

Maximum outside-to-outside fork spacing is 38.33" (974 mm).

FORKS

S40-55XM, S55XMS lift trucks feature:

1.5" x 4.0" x 36.0" to 60.0"

(40 x 100 x 915 to 1 525 mm) long pallet forks.

S60-65XM lift trucks use:

2.0" x 5.0" x 36.0" to 72.0"

(50 x 125 x 915 to 1 830 mm) long pallet forks.

Polished and tapered forks are also available.

ENGINES

Mazda emissions compliant LPG engines available include the standard F2.0L which uses 3.39" (86 mm) bore and 3.39" (86 mm) stroke to produce 122 cu. in. (1 999 cm³) displacement at a maximum torque of 104 ft lbs. (141 N•m) at 1600 RPM; or the optional 2.2L, which uses 3.39" (86 mm) bore and 3.70" (94 mm) stroke to produce 133 cu. in. (2 184 cm³) displacement at a maximum torque of 113 ft lbs. (153 N•m) at 1600 RPM.

Both the 2.0L and 2.2L Mazda LPG engines feature:

- Single barrel carburetor
- Velocity governor
- Heavy-duty air cleaner with pre-cleaner
- High energy ignition
- Mechanical fuel pump
- 12-volt electrical system
- Vaporizer
- Low emission LPG carburetor
- Fuel lock-off / filter assembly
- UL Classification LP

Optional GM 3.0L gas engine features include:

- 4 cycle, 4 cylinders, 181 cu. in. (2 966 cm³) displacement
- 4.0" (102 mm) bore; 3.6" (91 mm) stroke
- Electronic governor
- Fuel injection
- High energy ignition system
- Heavy-duty air cleaner with pre-cleaner
- Electric fuel pump
- 12-volt electrical system
- 14-gallon fuel tank
- UL Classification G
- Maximum torque is 137 ft.-lbs. (186 N•m) at 1400 RPM

Optional GM 3.0L LPG engine features include:

- Low emission LPG carburetor
- Electronic governor
- UL Classification LP
- Fuel lock-off / filter assembly, and vaporizer

TRANSMISSION

- Exclusive Hyster single-speed, powershift transmission.
- 10.5" (267 mm) torque converter has high stall ratios of 3.12:1 for all available engine models listed in this technical guide.

HYDRAULIC SYSTEM

- 3,100 psi (21 374 kPa) hydraulic lift system
- Tilt and auxiliary systems have 2,250 psi (15 513 kPa) relief pressure in all valve variations
- Full-flow, ten-micron paper element filter
- Three-function valve features push-away lever for clamp attachments; optional Direct-Action lever is available for non-clamping attachments.
- Truck equipped with a four-function valve features the Push-Away fourth-function lever for all applications.

STEERING SYSTEM

- Equal-area, double-ended, hydrostatic steering cylinder is mounted in cast ductile iron axle frame.
- Elastomeric axle mounts absorb shock and allow lubrication free articulation.
- Axle assembly utilizes synthetic boots and seals to

retain lubricants and shield components against destructive grit and reduce lube points.

DRIVE AXLE

Exclusive Hyster drive axle is a full-floating design. Wheel hub rotates on large, tapered roller bearings.

BRAKES

Hydraulic service brake system consists of sealed master cylinder with integral reservoir, fluid level monitor, inch brake pedal and linkage, brake fluid lines, and two self-adjusting, self-energizing brake assemblies.

OPERATOR AREA

- ComforCab isolated operator's compartment mounted on elastomeric mounts reduces noise and vibration transmission to operator for greater comfort.
- Wide, non-slip step on both sides of the truck and handgrip provide easy access to ComforCab.
- Standard vinyl non-suspension seat provides firm, comfortable support for the operator.
- Five position tilt steering column.
- Display is backlit for easy visibility under all lighting conditions.
- MONOTROL® pedal controls engine speed and truck direction, freeing driver's hands to operate steering and hydraulic levers.
- Grid-style overhead guard offers superb visibility at extended heights.
- Inch brake pedal combines inching and braking.

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



VELLUM OFFSET
8 1/2 x 11 - 11.80M
17500

Union Camp

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PHILADELPHIA

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HYSTER

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