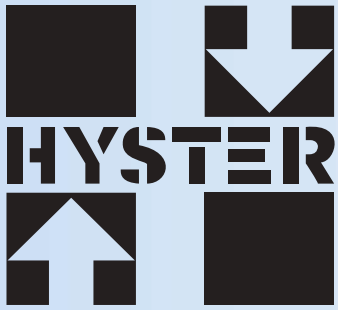




Also includes
specifications
for the:

S80XM-BCS

S100XM-BCS

S120XMS

S120XMS-PRS



S70-120XM

Technical Guide



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S70-80XM

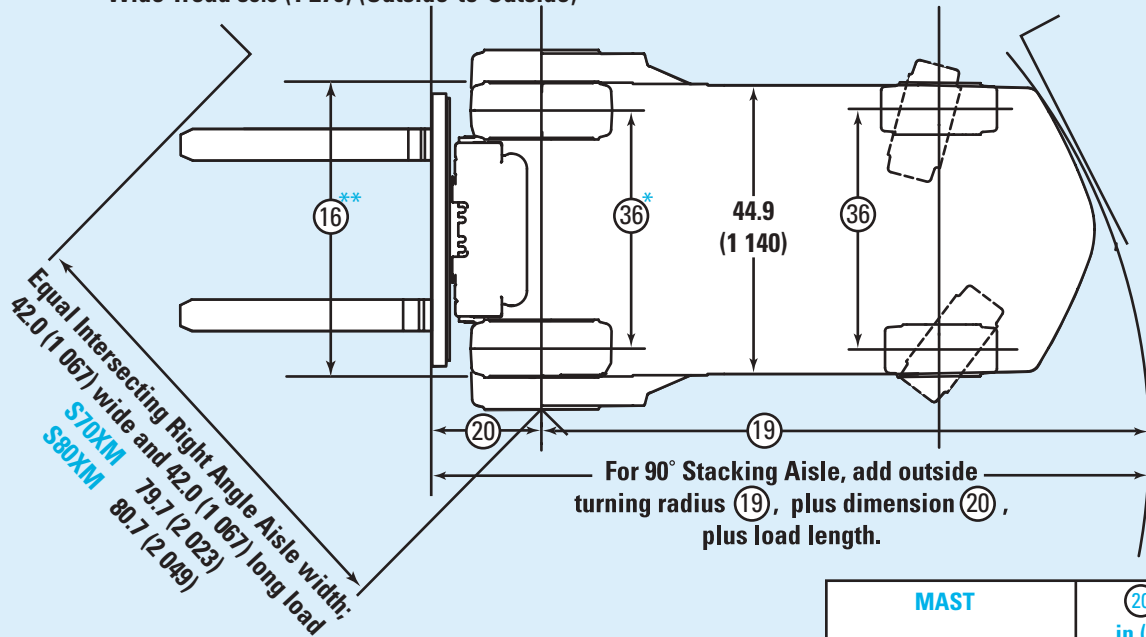




S70-80XM LIFT TRUCK SPECIFICATIONS

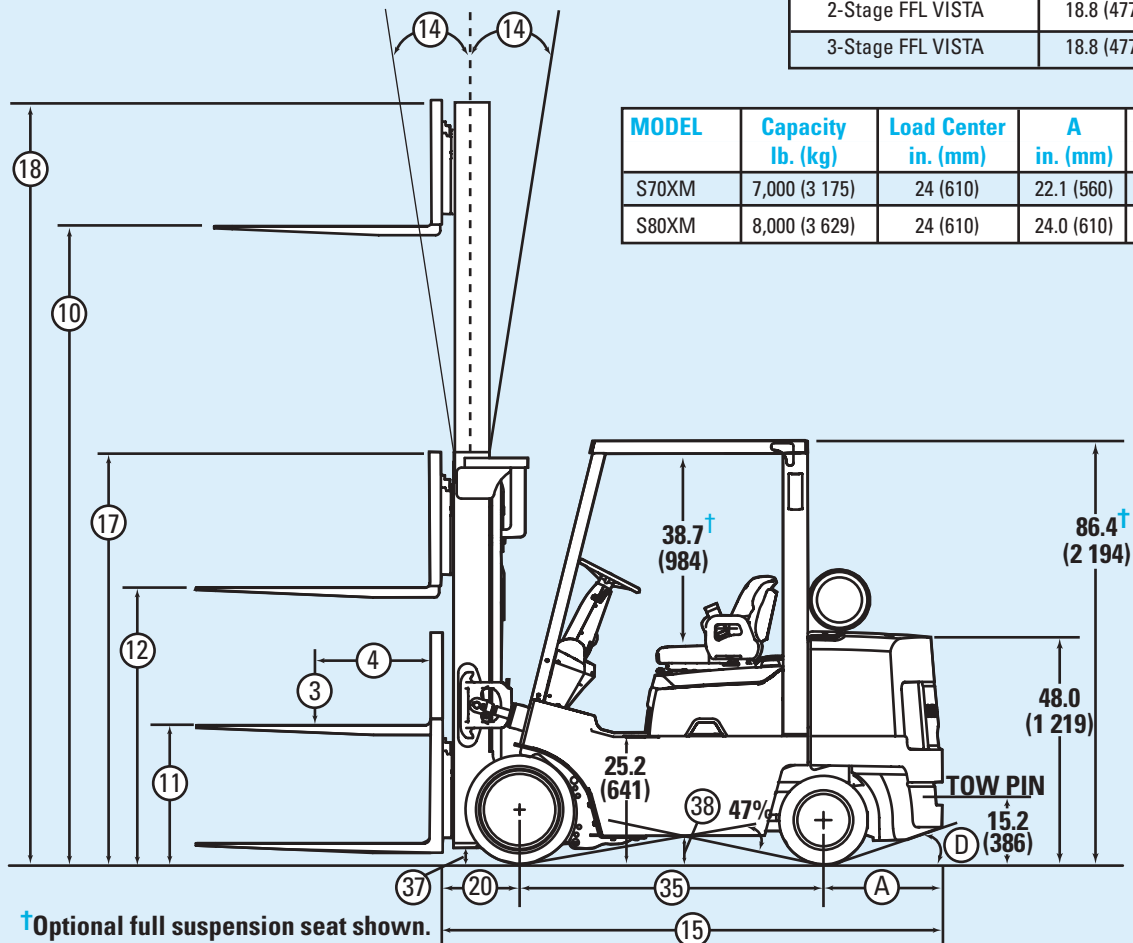
* Wide Tread 41.0 (1 041) (Center line to Center line)

** Wide Tread 50.0 (1 270) (Outside-to-Outside)



MAST	(20) in (mm)
2-Stage LFL VISTA	17.6 (447)
2-Stage FFL VISTA	18.8 (477)
3-Stage FFL VISTA	18.8 (477)

MODEL	Capacity lb. (kg)	Load Center in. (mm)	A in. (mm)	D %
S70XM	7,000 (3 175)	24 (610)	22.1 (560)	38
S80XM	8,000 (3 629)	24 (610)	24.0 (610)	38



†Optional full suspension seat shown.

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

Dimensions are in inches (millimeters).



S70XM LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Company	Hyster Company	Hyster Company
	2	Model		S70XM (GM 4.3L)	S70XM (GM 4.3L)	S70XM (Perkins)
	3	Capacity, rated	lb. (kg)	7,000 (3 175)	7,000 (3 175)	7,000 (3 175)
	4	Load Center	in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type		Gas	LPG	Diesel
	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-stage LFL (TOF)	in. (mm)	122.0 (3 099)	122.0 (3 099)	122.0 (3 099)
	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)	35.3 (897) / 53.1 (1 349)	35.3 (897) / 53.1 (1 349)	35.3 (897) / 53.1 (1 349)
	13	Forks, width / thickness	in. (mm)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)
	14	Tilt angle, forward / backward	Deg. °	5 / 6	5 / 6	5 / 6
	15	Length to face of forks	in. (mm)	101.5 (2 577)	101.5 (2 577)	101.5 (2 577)
	16	Width, standard tires	in. (mm)	46.1 (1 170)	46.1 (1 170)	46.1 (1 170)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)
	18	Height, standard mast extended with / without LBE	in. (mm)	172.0 (4 369) / 152.2 (3 866)	172.0 (4 369) / 152.2 (3 866)	172.0 (4 369) / 152.2 (3 866)
	19	Turning radius, minimum outside	in. (mm)	88.6 (2 251)	88.6 (2 251)	88.6 (2 251)
	20	Center of wheel to face of forks	in. (mm)	17.6 (447)	17.6 (447)	17.6 (447)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	106.2 (2 698)	106.2 (2 698)	106.2 (2 698)
PERFORMANCE †	23	Stability (Comply with ANSI?)		YES	YES	YES
	24	Travel speed, maximum forward (PS)	mph (km/h)	11.7 (18.8)	11.7 (18.8)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	134.0 (0.68) / 123.0 (0.63)	134.0 (0.68) / 123.0 (0.63)	134.0 (0.68) / 123.0 (0.63)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	118.0 (0.60) / 111.0 (0.56)	118.0 (0.60) / 111.0 (0.56)	118.0 (0.60) / 111.0 (0.56)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	124.0 (0.63) / 114.0 (0.58)	124.0 (0.63) / 114.0 (0.58)	124.0 (0.63) / 114.0 (0.58)
	26	Lowering speed, standard mast NL / RL	ft/min (m/s)	93.0 (0.47) / 108.0 (0.55)	93.0 (0.47) / 108.0 (0.55)	93.0 (0.47) / 108.0 (0.55)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	70.0 (0.36) / 99.0 (0.50)	70.0 (0.36) / 99.0 (0.50)	70.0 (0.36) / 99.0 (0.50)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	87.0 (0.44) / 105.0 (0.53)	87.0 (0.44) / 105.0 (0.53)	87.0 (0.44) / 105.0 (0.53)
	27	Drawbar pull, Powershift, maximum / 1 mph	lb _f (kN)	6,962 (31.0) / 6,222 (27.7)	6,520 (29.0) / 5,801 (25.8)	5,780 (25.7) / 5,320 (23.7)
	28	Gradeability, Powershift 1 mph NL / RL	%	27 / 33	27 / 31	26 / 29
WT.	30	Total approximate weight	lb. (kg)	11,940 (5 416)	11,940 (5 416)	11,940 (5 416)
	31	Axle loading, static, front / rear - RL	lb. (kg)	18,151 (8 233) / 2,076 (942)	18,151 (8 233) / 2,076 (942)	18,151 (8 233) / 2,076 (942)
WHEELS & TIRES	32	Number tires, front / rear		2 / 2	2 / 2	2 / 2
	33	Size of tires, front		22 X 9 X 16	22 X 9 X 16	22 X 9 X 16
	34	Size of tires, rear		18 X 6 X 12.1	18 X 6 X 12.1	18 X 6 X 12.1
	35	Wheelbase	in. (mm)	61.8 (1 570)	61.8 (1 570)	61.8 (1 570)
	36	Tread, center of tires, front / rear	in. (mm)	37.1 (941) / 39.5 (1 003)	37.1 (941) / 39.5 (1 003)	37.1 (941) / 39.5 (1 003)
	37	Ground clearance, lowest point - RL	in. (mm)	4.5 (114)	4.5 (114)	4.5 (114)
	38	Ground clearance, center wheelbase - NL	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand
DRIVETRAIN	42	Battery, volts / cold cranking amps	V (amps)	12 / 475	12 / 475	12 / 900
	46	Engine make / model		GM V6-4.3L	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards	hp (kW)	93.8 (69.9)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL	rpm	2,500	2,500	2,500
	49	Cycle / Number of cylinders / Displacement	cu. in. (cm ³)	4 / 6 / 260.0 (4 260)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)		Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)		Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	54	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S80XM LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Company	Hyster Company	Hyster Company
	2	Model		S80XM (GM 4.3L)	S80XM (GM 4.3L)	S80XM (Perkins)
	3	Capacity, rated	lb. (kg)	8,000 (3 629)	8,000 (3 629)	8,000 (3 629)
	4	Load Center	in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type		Gas	LPG	Diesel
	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-stage LFL (TOF)	in. (mm)	122.0 (3 099)	122.0 (3 099)	122.0 (3 099)
	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)	35.3 (897) / 53.1 (1 349)	35.3 (897) / 53.1 (1 349)	35.3 (897) / 53.1 (1 349)
	13	Forks, width / thickness	in. (mm)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)
	14	Tilt angle, forward / backward	Deg. °	5 / 6	5 / 6	5 / 6
	15	Length to face of forks	in. (mm)	103.4 (2 626)	103.4 (2 626)	103.4 (2 626)
	16	Width, standard tires	in. (mm)	46.1 (1 170)	46.1 (1 170)	46.1 (1 170)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)
	18	Height, standard mast extended with / without LBE	in. (mm)	172.0 (4 369) / 152.2 (3 866)	172.0 (4 369) / 152.2 (3 866)	172.0 (4 369) / 152.2 (3 866)
	19	Turning radius, minimum outside	in. (mm)	90.6 (2 302)	90.6 (2 302)	90.6 (2 302)
	20	Center of wheel to face of forks	in. (mm)	17.6 (447)	17.6 (447)	17.6 (447)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	108.2 (2 749)	108.2 (2 749)	108.2 (2 749)
PERFORMANCE †	23	Stability (Comply with ANSI?)		YES	YES	YES
	24	Travel speed, maximum forward (PS)	mph (km/h)	11.7 (18.8)	11.7 (18.8)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	134.0 (0.68) / 123.0 (0.63)	134.0 (0.68) / 123.0 (0.63)	134.0 (0.68) / 123.0 (0.63)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	118.0 (0.60) / 110.0 (0.56)	118.0 (0.60) / 110.0 (0.56)	118.0 (0.60) / 110.0 (0.56)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	124.0 (0.63) / 114.0 (0.58)	124.0 (0.63) / 114.0 (0.58)	124.0 (0.63) / 114.0 (0.58)
	26	Lowering speed, standard mast NL / RL	ft/min (m/s)	93.0 (0.47) / 108.0 (0.55)	93.0 (0.47) / 108.0 (0.55)	93.0 (0.47) / 108.0 (0.55)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	70.0 (0.36) / 99.0 (0.50)	70.0 (0.36) / 99.0 (0.50)	70.0 (0.36) / 99.0 (0.50)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	87.0 (0.44) / 105.0 (0.53)	87.0 (0.44) / 105.0 (0.53)	87.0 (0.44) / 105.0 (0.53)
	27	Drawbar pull, Powershift, maximum / 1 mph	lb _f (kN)	6,962 (31.0) / 6,222 (27.7)	6,520 (29.0) / 5,801 (25.8)	5,780 (25.7) / 5,320 (23.7)
WT.	28	Gradeability, Powershift 1 mph NL / RL	%	24 / 30	24 / 28	23 / 26
	30	Total approximate weight	lb. (kg)	12,740 (5 779)	12,740 (5 779)	12,740 (5 779)
	31	Axle loading, static, front / rear - RL	lb. (kg)	19,260 (8 736) / 2,350 (1 066)	19,260 (8 736) / 2,350 (1 066)	19,260 (8 736) / 2,350 (1 066)
WHEELS & TIRES	32	Number tires, front / rear		2 / 2	2 / 2	2 / 2
	33	Size of tires, front		22 X 9 X 16	22 X 9 X 16	22 X 9 X 16
	34	Size of tires, rear		18 X 7 X 12.1	18 X 7 X 12.1	18 X 7 X 12.1
	35	Wheelbase	in. (mm)	61.8 (1 570)	61.8 (1 570)	61.8 (1 570)
	36	Tread, center of tires, front / rear	in. (mm)	37.1 (941) / 39.5 (1 003)	37.1 (941) / 39.5 (1 003)	37.1 (941) / 39.5 (1 003)
	37	Ground clearance, lowest point - NL	in. (mm)	4.5 (114)	4.5 (114)	4.5 (114)
	38	Ground clearance, center wheelbase - NL	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand
DRIVETRAIN	42	Battery, volts / cold cranking amps	V (amps)	12 / 475	12 / 475	12 / 900
	46	Engine make / model		GM V6-4.3L	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards	hp (kW)	93.8 (69.9)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL	rpm	2,500	2,500	2,500
	49	Cycle / Number of cylinders / Displacement	cu. in. (cm ³)	4 / 6 / 260.0 (4 260)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)		Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)		Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	54	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S70-80XM LIFT TRUCK SPECIFICATIONS

CAPACITY

Model S70XM: 7,000 lbs. at 24"
(3 175 kg at 610 mm)

Model S80XM: 8,000 lbs. at 24"
(3 629 kg at 610 mm)

Rated capacities are for truck equipped with:

- Overhead guard
- Three-stage full free-lift VISTA® mast to 174.6"
(4 435 mm) maximum fork height
- 48.0" (1 219 mm) standard carriage with load backrest extension and 48.0" (1 219 mm) forks as required.

STANDARD EQUIPMENT

Complete S70-80XM truck is equipped with: GM V6-4.3L LPG engine (with fixed LPG bracket); powertrain protection system; 122.0" (3 099 mm) two-stage limited free-lift VISTA mast; 5° forward / 6° backward tilt; 42.0" (1 067 mm) wide hook-type carriage; 42.0" (1 067 mm) wide carriage or integral sideshift load backrest extension (for pallet forks); 48.0" (1 219 mm) long Class III hook-type pallet forks; three-function direct acting hydraulic control valve; single speed powershift transmission; MONOTROL pedal; instrumentation panel including: water temperature gauges, charge circuit light, transmission oil pressure & temperature lights, brake fluid level light and engine coolant light; single pedal inch brake; drum service brakes; 87.0" (2 210 mm) OAH overhead guard; 46.0" (1 168 mm) tread; 22 x 9 x 16 smooth tread drive tires; 18 x 6 x 12.1 smooth tread steer tires (S70XM); 18 x 7 x 12.1 smooth tread steer tires (S80XM); tilt steering wheel; high air intake; vinyl non-suspension seat; operator restraint system; rear counterweight exhaust; 2 brake lights with back-up lights; operating manual; and UL Classification LP.

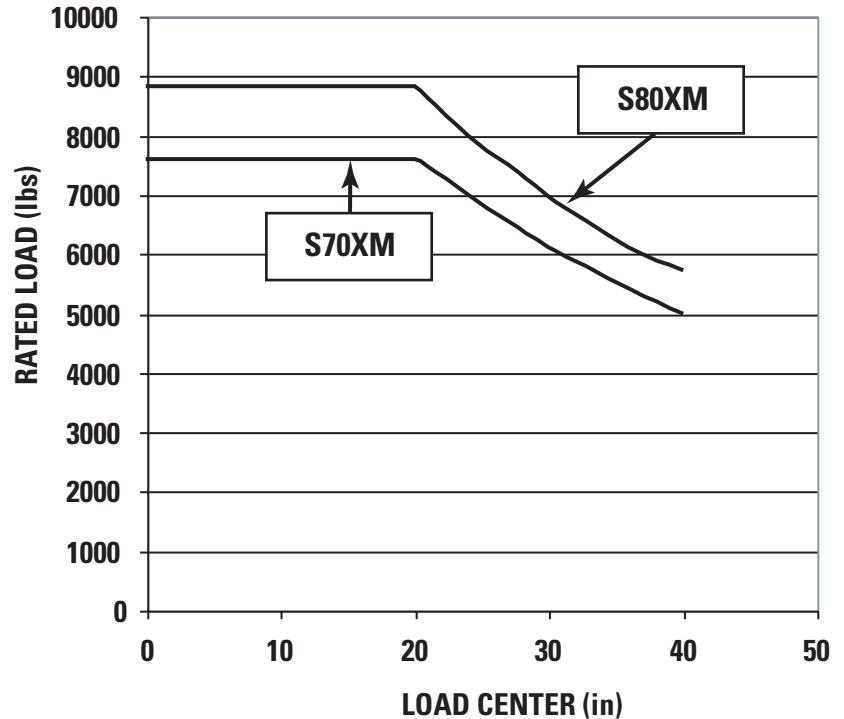
Optional equipment includes:

GM V6-4.3L fuel injected gas engine (w/ UL Classification G); Perkins 1004 diesel engine (w/ UL Classification D); EZXchange LP tank bracket; One Quart Hydra Smooth accumulator; premium monitor group including std instrumentation plus: engine oil pressure gauge, voltmeter, air cleaner restriction light, password protection key system and low fuel level light (LPG); 2 pedal inch brake; radiator screen (n/a with diesel engine); directional control lever; 50" (1 270) wide tread tires, smooth tread non-marking and lug tread drive and steer tires; overhead exhaust; cloth or vinyl full suspension seat; 84.0" (2 134 mm) OAH overhead guard (N/A w/full suspension seats); precleaner; lights: 2 drive, 1 rear drive, 2 brake / tail with back-up lights; amber strobe light; back-up alarm; 8° forward / 5° back tilt; parts manual; hook-type integral sideshift carriage; various 2 & 3 stage mast heights; various fork lengths; polished and tapered wood product forks; UL Classification LPS.

RATED LOAD VS. LOAD CENTER

Standard Carriage

U.S. CUSTOMARY



Conversion Factors:

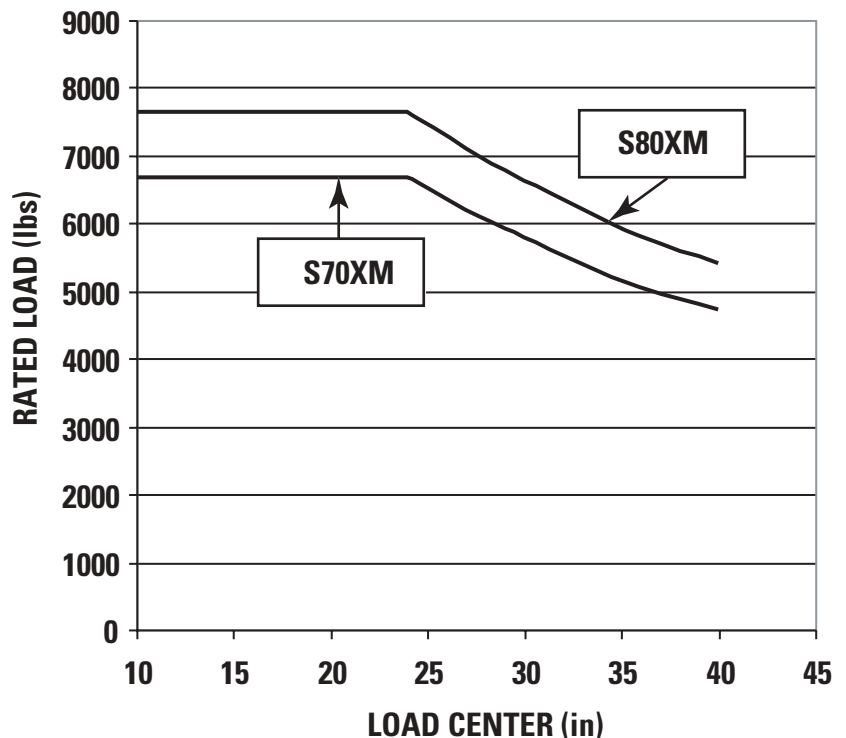
1.0 in = 25.4 mm

1.0 lb = 0.45 kg

RATED LOAD VS. LOAD CENTER

Sideshift Carriage

U.S. CUSTOMARY





S80XM-BCS & S100XM-BCS

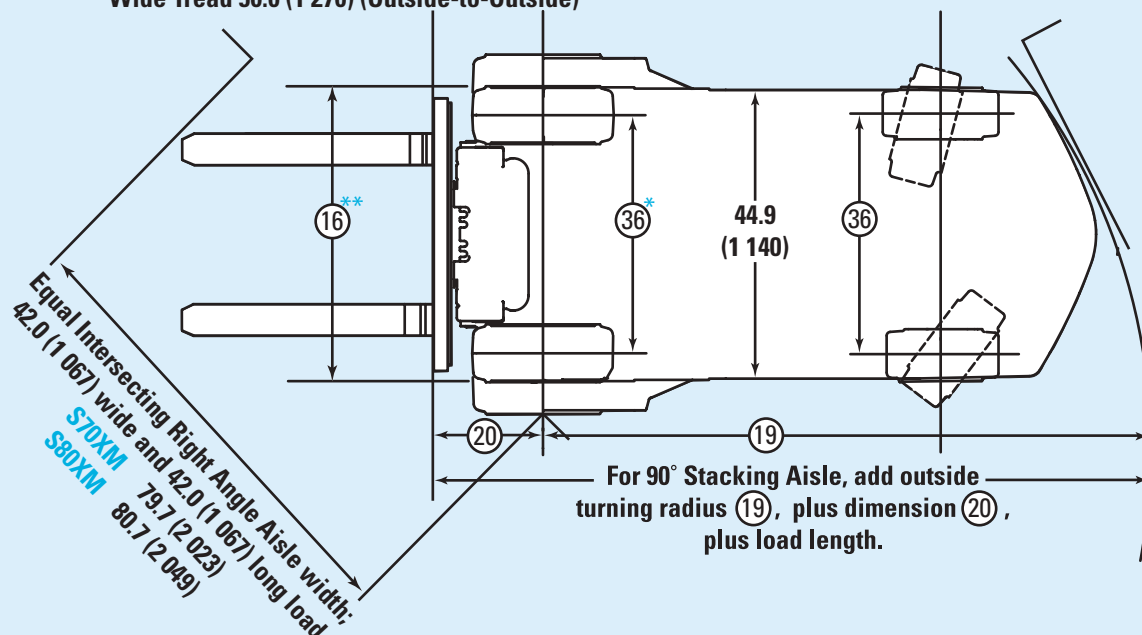




S80XM-BCS - S100XM-BCS BOXCAR SPECIAL LIFT TRUCK SPECIFICATIONS

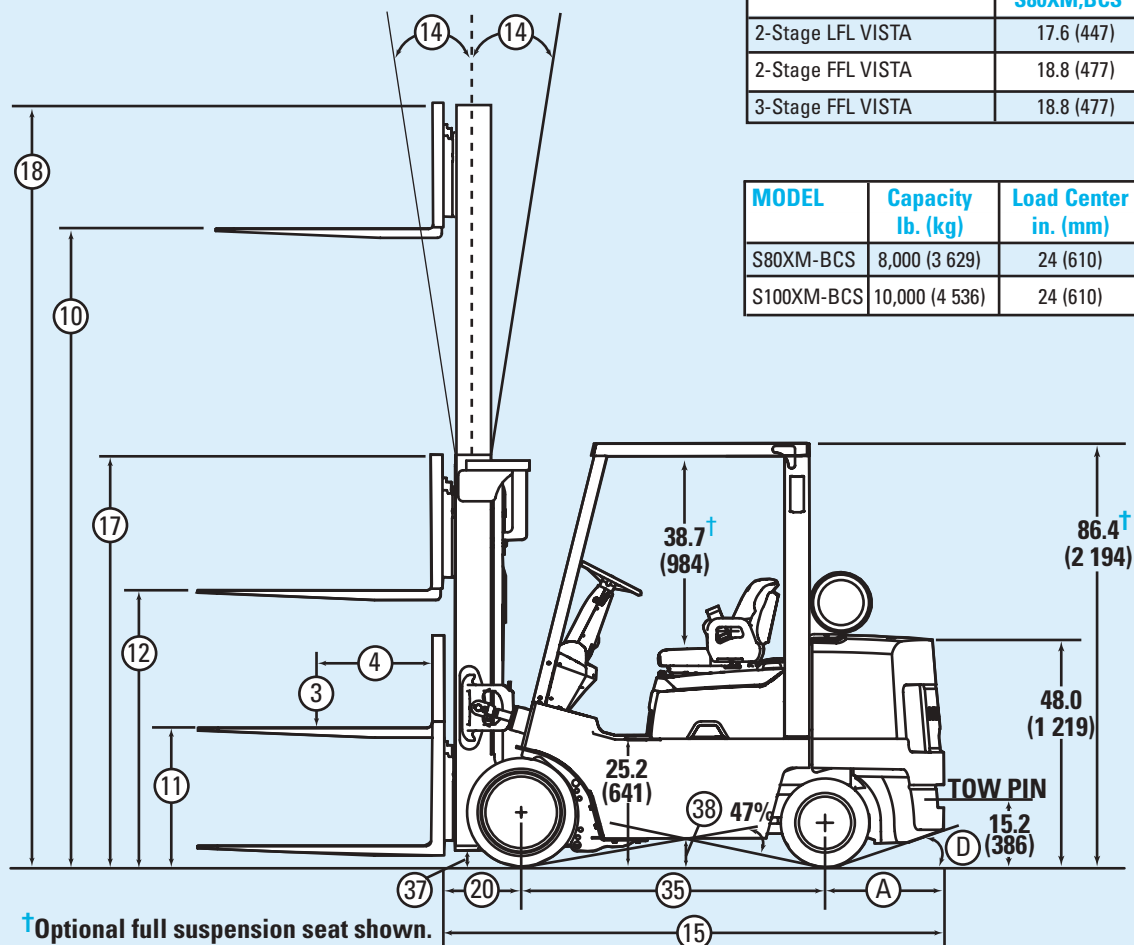
* Wide Tread 41.0 (1 041) (Center line to Center line)

** Wide Tread 50.0 (1 270) (Outside-to-Outside)



MAST	②① S80XM,BCS	in. (mm) S100XM,BCS
2-Stage LFL VISTA	17.6 (447)	18.2 (462)
2-Stage FFL VISTA	18.8 (477)	19.4 (492)
3-Stage FFL VISTA	18.8 (477)	19.4 (492)

MODEL	Capacity lb. (kg)	Load Center in. (mm)	A in. (mm)	D %
S80XM-BCS	8,000 (3 629)	24 (610)	14.7 (374)	47
S100XM-BCS	10,000 (4 536)	24 (610)	20.3 (516)	36



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



S80XM-BCS BOXCAR SPECIAL LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Company	Hyster Company	Hyster Company
	2	Model		S80XM-BCS (GM 4.3L)	S80XM-BCS (GM 4.3L)	S80XM-BCS (Perkins)
	3	Capacity, rated	lb. (kg)	8,000 (3 629)	8,000 (3 629)	8,000 (3 629)
	4	Load Center	in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type		Gas	LPG	Diesel
	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-stage LFL (TOF)	in. (mm)	122.0 (3 099)	122.0 (3 099)	122.0 (3 099)
	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)	35.3 (897) / 53.1 (1 349)	35.3 (897) / 53.1 (1 349)	35.3 (897) / 53.1 (1 349)
	13	Forks, width / thickness	in. (mm)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)	5.0 (125) / 2.0 (50)
	14	Tilt angle, forward / backward	Deg. °	5 / 6	5 / 6	5 / 6
	15	Length to face of forks	in. (mm)	94.1 (2 391)	94.1 (2 391)	94.1 (2 391)
	16	Width, standard tires	in. (mm)	46.1 (1 170)	46.1 (1 170)	46.1 (1 170)
	17	Height, standard mast lowered	in. (mm)	84.0 (2 134)	84.0 (2 134)	84.0 (2 134)
	18	Height, standard mast extended with / without LBE	in. (mm)	172.0 (4 369) / 152.2 (3 866)	172.0 (4 369) / 152.2 (3 866)	172.0 (4 369) / 152.2 (3 866)
	19	Turning radius, minimum outside	in. (mm)	82.8 (2 102)	82.8 (2 102)	82.8 (2 102)
	20	Center of wheel to face of forks	in. (mm)	17.6 (447)	17.6 (447)	17.6 (447)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	100.4 (2 549)	100.4 (2 549)	100.4 (2 549)
PERFORMANCE †	23	Stability (Comply with ANSI?)		YES	YES	YES
	24	Travel speed, maximum forward (PS)	mph (km/h)	11.7 (18.8)	11.7 (18.8)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	134.0 (0.68) / 123.0 (0.63)	134.0 (0.68) / 123.0 (0.63)	134.0 (0.68) / 123.0 (0.63)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	118.0 (0.60) / 110.0 (0.56)	118.0 (0.60) / 110.0 (0.56)	118.0 (0.60) / 110.0 (0.56)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	124.0 (0.63) / 114.0 (0.58)	124.0 (0.63) / 114.0 (0.58)	124.0 (0.63) / 114.0 (0.58)
	26	Lowering speed, standard mast NL / RL	ft/min (m/s)	93.0 (0.47) / 108.0 (0.55)	93.0 (0.47) / 108.0 (0.55)	93.0 (0.47) / 108.0 (0.55)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	70.0 (0.36) / 99.0 (0.50)	70.0 (0.36) / 99.0 (0.50)	70.0 (0.36) / 99.0 (0.50)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	87.0 (0.44) / 105.0 (0.53)	87.0 (0.44) / 105.0 (0.53)	87.0 (0.44) / 105.0 (0.53)
WT.	27	Drawbar pull, Powershift, maximum / 1 mph	lbf (kN)	6,962 (31.0) / 6,222 (27.7)	6,520 (29.0) / 5,801 (25.8)	5,780 (25.7) / 5,320 (23.7)
	28	Gradeability, Powershift 1 mph NL / RL	%	26 / 31	26 / 29	23 / 26
WHEELS & TIRES	30	Total approximate weight	lb. (kg)	13,220 (5 997)	13,220 (5 997)	13,220 (5 997)
	31	Axle loading, static, front / rear - RL	lb. (kg)	19,785 (8 974) / 2,008 (911)	19,785 (8 974) / 2,008 (911)	19,785 (8 974) / 2,008 (911)
	32	Number tires, front / rear		2 / 2	2 / 2	2 / 2
	33	Size of tires, front		22 X 9 X 16	22 X 9 X 16	22 X 9 X 16
	34	Size of tires, rear		18 X 7 X 12.1	18 X 7 X 12.1	18 X 7 X 12.1
	35	Wheelbase	in. (mm)	61.8 (1 570)	61.8 (1 570)	61.8 (1 570)
	36	Tread, center of tires, front / rear	in. (mm)	37.1 (942) / 39.5 (1 003)	37.1 (942) / 39.5 (1 003)	37.1 (942) / 39.5 (1 003)
	37	Ground clearance, lowest point - NL	in. (mm)	4.5 (114)	4.5 (114)	4.5 (114)
	38	Ground clearance, center wheelbase - NL	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand
DRIVETRAIN	42	Battery, volts / cold cranking amps	V (amps)	12 / 475	12 / 475	12 / 900
	46	Engine make / model		GM V6-4.3L	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards	hp (kW)	93.8 (69.9)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL	rpm	2,500	2,500	2,500
	49	Cycle / Number of cylinders / Displacement	cu. in. (cm³)	4 / 6 / 260.0 (4 260)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)		Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)		Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	54	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S100XM-BCS BOXCAR SPECIAL LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Company	Hyster Company	Hyster Company
	2	Model		S100XM-BCS (GM 4.3L)	S100XM-BCS (GM 4.3L)	S100XM-BCS (Perkins)
	3	Capacity, rated	lb. (kg)	10,000 (4 536)	10,000 (4 536)	10,000 (4 536)
	4	Load Center	in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type		Gas	LPG	Diesel
	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-stage LFL (TOF)	in. (mm)	111.8 (2 840)	111.8 (2 840)	111.8 (2 840)
	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)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)
	13	Forks, width / thickness	in. (mm)	6.0 (152) / 2.0 (50)	6.0 (152) / 2.0 (50)	6.0 (152) / 2.0 (50)
	14	Tilt angle, forward / backward	Deg. °	5 / 6	5 / 6	5 / 6
	15	Length to face of forks	in. (mm)	100.3 (2 548)	100.3 (2 548)	100.3 (2 548)
	16	Width, standard tires	in. (mm)	52.0 (1 320)	52.0 (1 320)	52.0 (1 320)
	17	Height, standard mast lowered	in. (mm)	84.2 (2 138)	84.2 (2 138)	84.2 (2 138)
	18	Height, standard mast extended with / without LBE	in. (mm)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)
	19	Turning radius, minimum outside	in. (mm)	89.4 (2 270)	89.4 (2 270)	89.4 (2 270)
	20	Center of wheel to face of forks	in. (mm)	18.2 (462)	18.2 (462)	18.2 (462)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	107.6 (2 732)	107.6 (2 732)	107.6 (2 732)
PERFORMANCE ⁺	23	Stability (Comply with ANSI?)		YES	YES	YES
	24	Travel speed, maximum forward (PS)	mph (km/h)	11.7 (18.8)	11.7 (18.8)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	101.0 (0.51) / 94.0 (0.48)	101.0 (0.51) / 94.0 (0.48)	101.0 (0.51) / 94.0 (0.48)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	102.0 (0.52) / 100.0 (0.51)	102.0 (0.52) / 100.0 (0.51)	102.0 (0.52) / 100.0 (0.51)
	26	Lowering speed, standard mast NL / RL	ft/min (m/s)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	63.0 (0.32) / 89.0 (0.45)	63.0 (0.32) / 89.0 (0.45)	63.0 (0.32) / 89.0 (0.45)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)
WT.	27	Drawbar pull, Powershift, maximum / 1 mph	lbf (kN)	6,962 (31.0) / 6,222 (27.7)	6,520 (29.0) / 5,801 (25.8)	5,780 (25.7) / 5,320 (23.7)
	28	Gradeability, Powershift 1 mph NL / RL	%	28 / 25	28 / 23	26 / 21
WHEELS & TIRES	30	Total approximate weight	lb. (kg)	15,980 (7 248)	15,980 (7 248)	15,980 (7 248)
	31	Axle loading, static, front / rear - RL	lb. (kg)	23,997 (10 885) / 3,268 (1 482)	23,997 (10 885) / 3,268 (1 482)	23,997 (10 885) / 3,268 (1 482)
	32	Number tires, front / rear		2 / 2	2 / 2	2 / 2
	33	Size of tires, front		22 X 12 X 16	22 X 12 X 16	22 X 12 X 16
	34	Size of tires, rear		18 X 8 X 12.1	18 X 8 X 12.1	18 X 8 X 12.1
	35	Wheelbase	in. (mm)	61.8 (1 570)	61.8 (1 570)	61.8 (1 570)
	36	Tread, center of tires, front / rear	in. (mm)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)
	37	Ground clearance, lowest point - NL	in. (mm)	4.7 (118)	4.7 (118)	4.7 (118)
	38	Ground clearance, center wheelbase - NL	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand
DRIVETRAIN	42	Battery, volts / cold cranking amps	V (amps)	12 / 475	12 / 475	12 / 900
	46	Engine make / model		GM V6-4.3L	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards	hp (kW)	93.8 (69.9)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL	rpm	2,500	2,500	2,500
	49	Cycle / Number of cylinders / Displacement	cu. in. (cm ³)	4 / 6 / 260.0 (4 260)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)		Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)		Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse		1 / 1	1 / 1	1 / 1
	54	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S80XM-BCS - S100XM-BCS BOXCAR SPECIAL LIFT TRUCK SPECIFICATIONS

CAPACITY

Model S80XM-BCS: 8,000 lbs. at 24"
(3 629 kg at 610 mm)

Model S100XM-BCS: 10,000 lbs. at 24"
(4 536 kg at 610 mm)

Rated capacities are for truck equipped with:

- Overhead guard
- Three-stage full free-lift VISTA® mast to 174.6" (4 435 mm) for S80XM-BCS and 184.6" (4 690 mm) for S100XM-BCS maximum fork height
- 48.0" (1 219 mm) standard carriage with load backrest extension and 48.0" (1 219 mm) forks as required.

STANDARD EQUIPMENT

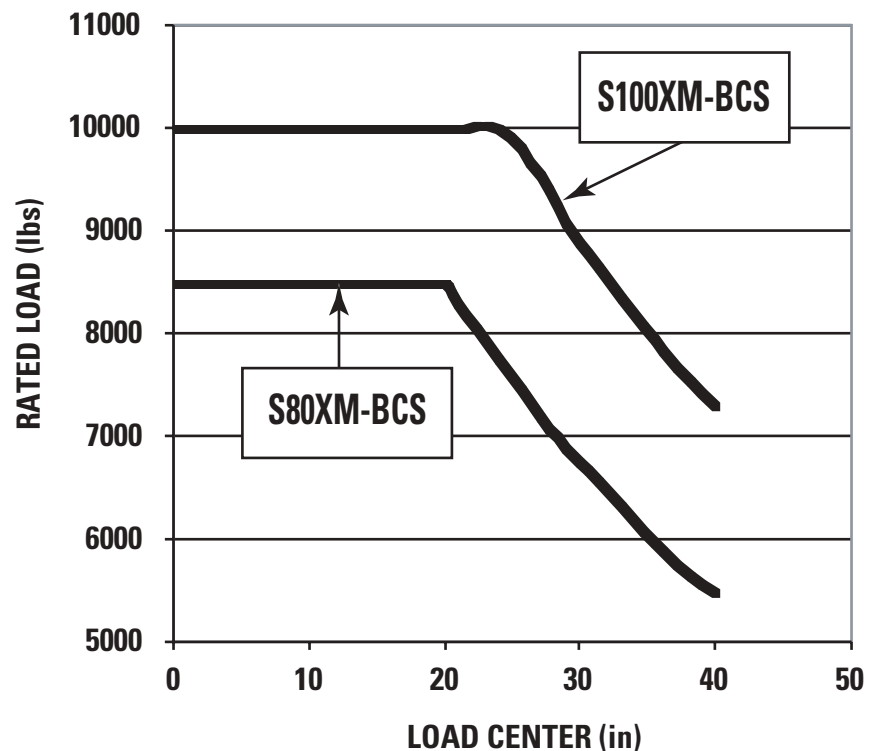
Complete S80XM-BCS and S100XM-BCS truck is equipped with: GM V6-4.3L LPG engine (with fixed LPG bracket); powertrain protection system; 122.0" (3 099 mm) two-stage limited free-lift VISTA® mast (S80XM-BCS), 112.0" (2 845 mm) 2-stage limited free-lift VISTA mast (S100XM-BCS); 5° forward / 6° backward tilt; 42.0" (1 067 mm) wide hook-type carriage; load backrest extension; 48.0" (1 219 mm) long Class III hook-type pallet forks (S80XM-BCS), 48.0" (1 219 mm) long Class IV hook-type pallet forks (S100XM-BCS); three-function direct acting hydraulic control valve; single speed powershift transmission; MONOTROL pedal; instrumentation panel including: water temperature gauges, charge circuit light, transmission oil pressure & temperature lights, brake fluid level light and engine coolant light; single pedal inch brake; drum service brakes; 87.0" (2 210 mm) OAH overhead guard; 46.0" (1 168 mm) tread (S80XM-BCS), 52.0" (1 321 mm) tread (S100XM-BCS); 22 x 9 x 16 smooth tread drive tires, 18 x 7 x 12.1 smooth tread steer tires (S80XM-BCS); 22 x 12 x 16 smooth tread drive tires, 18 x 8 x 12.1 smooth tread steer tires (S100XM-BCS); tilt steering wheel; high air intake; vinyl non-suspension seat; operator restraint system; rear counterweight exhaust; 2 brake lights with back-up lights; operating manual; and UL Classification LP.

* Optional equipment includes:

GM V6-4.3L fuel injected gas engine (w/ UL Classification G); Perkins 1004 diesel engine (w/ UL Classification D); EZXchange LP tank bracket; one quart Hydra Smooth accumulator; premium monitor group including std instrumentation plus: engine oil pressure gauge, voltmeter, air cleaner restriction light, password protection key system and low fuel level light (LPG); 2 pedal inch brake; radiator screen (n/a with diesel engine); directional control lever; wide tread tires, smooth tread non-marking and lug tread drive and steer tires; cloth or vinyl full suspension seat; 84.0" (2 134 mm) OAH overhead guard (N/A w/full susp. seats); precleaner; lights: 2 drive, 1 rear drive, 2 brake / tail with back-up lights; amber strobe light; back-up alarm; 8° forward / 5° back tilt; parts manual; various 2 & 3-stage mast heights; hook-type attachment carriage (S100XM-BCS); hook-type integral sideshift carriage; various fork lengths; polished and tapered wood product forks;

RATED LOAD VS. LOAD CENTER

Standard Carriage
U.S. CUSTOMARY



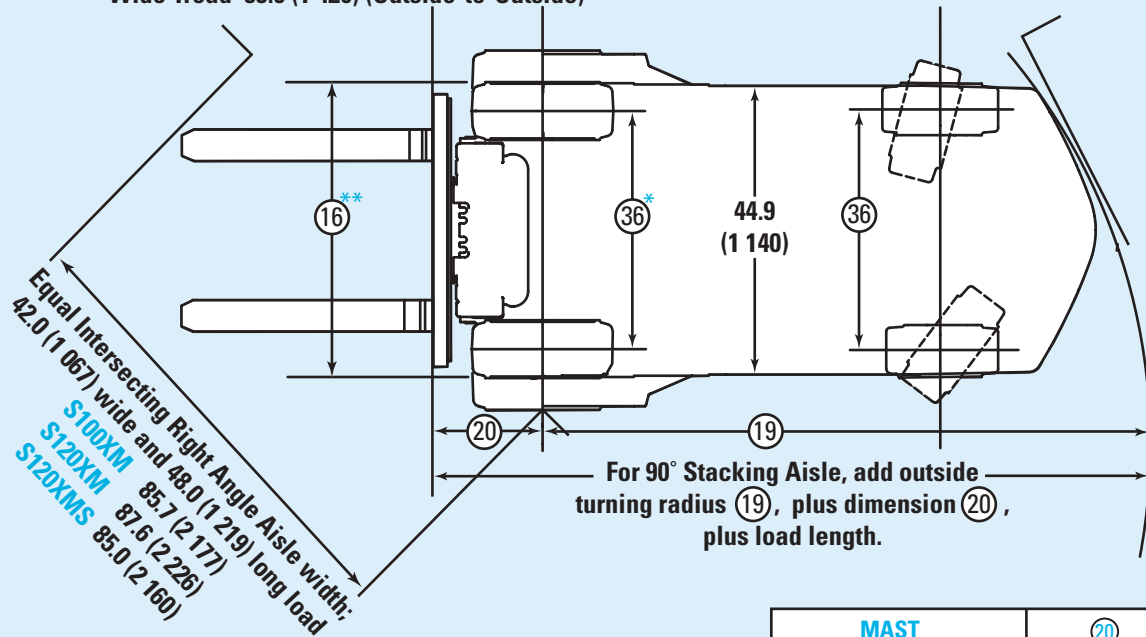
Conversion Factors:
1.0 in = 25.4 mm
1.0 lb = 0.45 kg



S100-120XM, S120XMS LIFT TRUCK SPECIFICATIONS

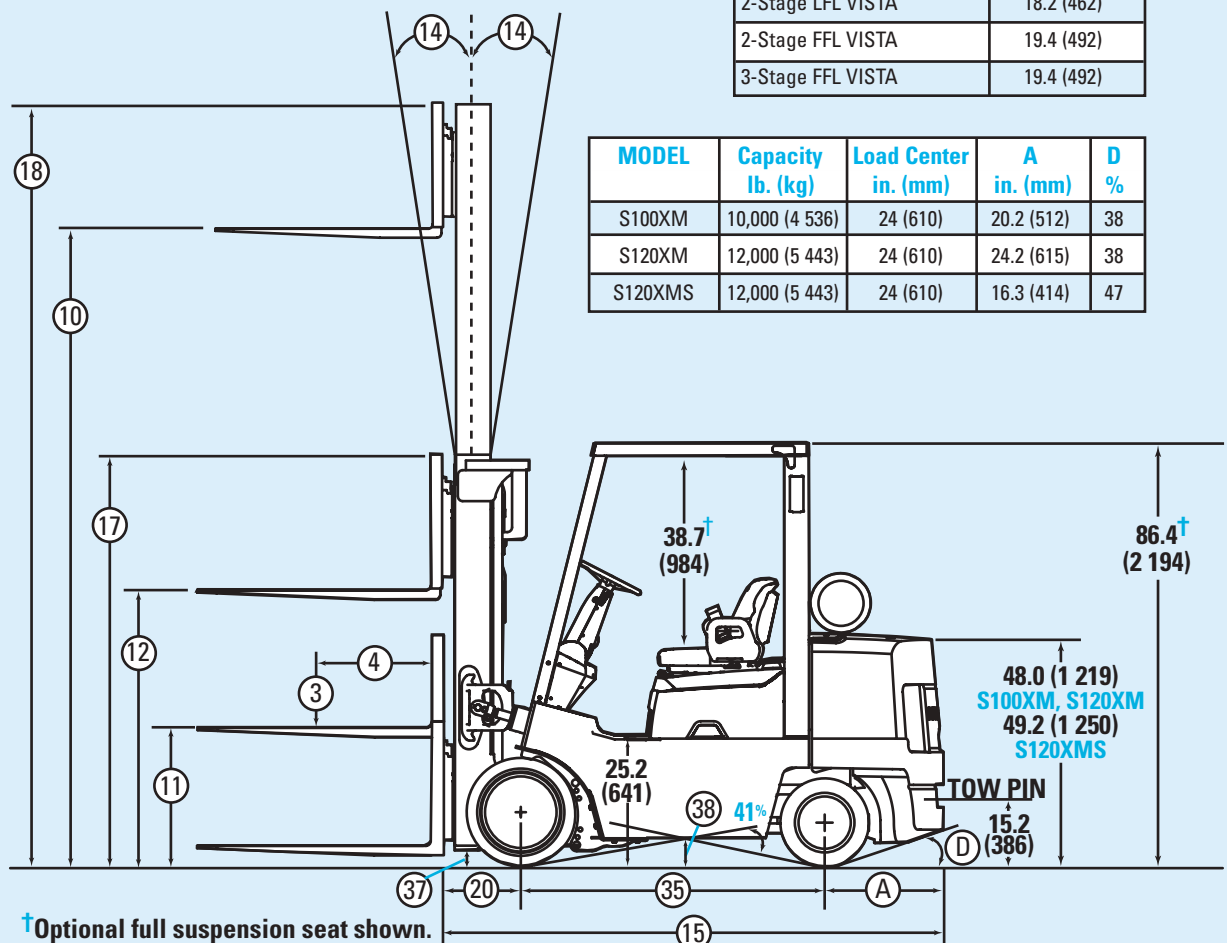
* Wide Tread 43.9 (1 115) (Center line to Center line)

** Wide Tread 55.9 (1 420) (Outside-to-Outside)



MAST	(20) in. (mm)
2-Stage LFL VISTA	18.2 (462)
2-Stage FFL VISTA	19.4 (492)
3-Stage FFL VISTA	19.4 (492)

MODEL	Capacity lb. (kg)	Load Center in. (mm)	A in. (mm)	D %
S100XM	10,000 (4 536)	24 (610)	20.2 (512)	38
S120XM	12,000 (5 443)	24 (610)	24.2 (615)	38
S120XMS	12,000 (5 443)	24 (610)	16.3 (414)	47



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

Dimensions are in inches (millimeters).



\$100 - 120XM, \$120XMS





S100-120XM LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Company	Hyster Company	Hyster Company	Hyster Company
	2	Model		S100XM (GM 4.3L)	S100XM (Perkins)	S120XM (GM 4.3L)	S120XM (Perkins)
	3	Capacity, rated	lb. (kg)	10,000 (4 536)	10,000 (4 536)	12,000 (5 443)	12,000 (5 443)
	4	Load Center	in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type		Gas - LPG	Diesel	Gas - LPG	Diesel
	6	Operator type		Sit	Sit	Sit	Sit
	7	Tire type, front / rear		Cushion / Cushion	Cushion / Cushion	Cushion / Cushion	Cushion / Cushion
	8	Wheels, front / rear (X = driven)		2X / 2	2X / 2	2X / 2	2X / 2
DIMENSIONS	10	2-stage LFL (TOF)	in. (mm)	111.8 (2 840)	111.8 (2 840)	111.8 (2 840)	111.8 (2 840)
	11	Limited free-lift (TOF)	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)	6.0 (152)
	12	Optional full free-lift (TOF) with/without LBE	in. (mm)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)
	13	Forks, width / thickness	in. (mm)	6.0 (152) / 2.0 (50)	6.0 (152) / 2.0 (50)	6.0 (152) / 2.5 (64)	6.0 (152) / 2.5 (64)
	14	Tilt angle, forward / backward	Deg. °	5 / 6	5 / 6	5 / 6	5 / 6
	15	Length to face of forks	in. (mm)	109.0 (2 768)	109.0 (2 768)	112.9 (2 867)	112.9 (2 867)
	16	Width, standard tires	in. (mm)	52.0 (1 320)	52.0 (1 320)	52.0 (1 320)	52.0 (1 320)
	17	Height, standard mast lowered	in. (mm)	84.2 (2 138)	84.2 (2 138)	84.2 (2 138)	84.2 (2 138)
	18	Height, standard mast extended with / without LBE	in. (mm)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)
	19	Turning radius, minimum outside	in. (mm)	96.4 (2 449)	96.4 (2 449)	100.1 (2 542)	100.1 (2 542)
	20	Center of wheel to face of forks	in. (mm)	18.2 (462)	18.2 (462)	18.2 (462)	18.2 (462)
	22	Aisle width (Add load length for 90° stack)	in. (mm)	114.6 (2 911)	114.6 (2 911)	118.3 (3 004)	118.3 (3 004)
PERFORMANCE †	23	Stability (Comply with ANSI?)		YES	YES	YES	YES
	24	Travel speed, maximum forward (PS)	mph (km/h)	11.7 (18.8)	11.8 (19.0)	11.7 (18.8)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL	ft/min (m/s)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	101.0 (0.51) / 94.0 (0.48)	101.0 (0.51) / 94.0 (0.48)	101.0 (0.51) / 87.0 (0.44)	101.0 (0.51) / 87.0 (0.44)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	102.0 (0.52) / 100.0 (0.51)	102.0 (0.52) / 100.0 (0.51)	102.0 (0.52) / 89.0 (0.45)	102.0 (0.52) / 89.0 (0.45)
	26	Lowering speed, standard mast NL / RL	ft/min (m/s)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)
		Optional 2-stage FFL mast NL / RL	ft/min (m/s)	63.0 (0.32) / 89.0 (0.45)	63.0 (0.32) / 89.0 (0.45)	63.0 (0.32) / 92.0 (0.47)	63.0 (0.32) / 92.0 (0.47)
		Optional 3-stage FFL mast NL / RL	ft/min (m/s)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)
	27	Drawbar pull, Powershift, maximum / 1 mph	lb _f (kN)	6,962 (31.0) / 6,222 (27.7)	5,780 (25.7) / 5,320 (23.7)	6,962 (31.0) / 6,222 (27.7)	5,780 (25.7) / 5,320 (23.7)
		LPG data, this line only	lb _f (kN)	6,520 (29.0) / 5,801 (25.8)	N/A	6,520 (29.0) / 5,801 (25.8)	N/A
WT.	28	Gradeability, Powershift 1 mph NL / RL	%	23 / 24	26 / 21	24 / 21	23 / 19
		LPG data, this line only	%	23 / 22	N/A	24 / 20	N/A
	30	Total approximate weight	lb. (kg)	14,920 (6 768)	14,920 (6 768)	16,390 (7 434)	16,390 (7 434)
	31	Axle loading, static, front / rear - RL	lb. (kg)	23,850 (10 818) / 2,364 (1 072)	23,850 (10 818) / 2,364 (1 072)	26,739 (12 129) / 2,822 (1 280)	26,739 (12 129) / 2,822 (1 280)
WHEELS & TIRES	32	Number tires, front / rear		2 / 2	2 / 2	2 / 2	2 / 2
	33	Size of tires, front		22 X 12 X 16	22 X 12 X 16	22 X 12 X 16	22 X 12 X 16
	34	Size of tires, rear		18 X 8 X 12.1	18 X 8 X 12.1	18 X 8 X 12.1	18 X 8 X 12.1
	35	Wheelbase	in. (mm)	70.5 (1 790)	70.5 (1 790)	70.5 (1 790)	70.5 (1 790)
	36	Tread, center of tires, front / rear	in. (mm)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)
	37	Ground clearance, lowest point - NL	in. (mm)	4.7 (118)	4.7 (118)	4.7 (118)	4.7 (118)
	38	Ground clearance, center wheelbase - NL	in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	Foot / Hand	Foot / Hand
DRIVETRAIN	42	Battery, volts / cold cranking amps	V (amps)	12 / 475	12 / 900	12 / 475	12 / 900
	46	Engine make / model		GM V6-4.3L	Perkins 1004	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards	hp (kW)	93.8 (69.9)	82.3 (61.4)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL	rpm	2,500	2,500	2,500	2,500
	49	Cycle/Number of cylinders/Displacement	cu. in. (cm ³)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)		Torque Converter	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)		Foot / Hand	Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse		1 / 1	1 / 1	1 / 1	1 / 1
	54	Transmission type		Powershift	Powershift	Powershift	Powershift
	55	Relief pressure for attachments	psi (kPa)	2,250 (15 513)	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S120XMS LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company
	2	Model	S120XMS (GM 4.3L)	S120XMS (GM 4.3L)	S120XMS (Perkins)
	3	Capacity, rated lb. (kg)	12,000 (5 443)	12,000 (5 443)	12,000 (5 443)
	4	Load Center in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type	Gas	LPG	Diesel
	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-stage LFL (TOF) in. (mm)	111.8 (2 840)	111.8 (2 840)	111.8 (2 840)
	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)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)	47.8 (1 215) / 35.0 (889)
	13	Forks, width / thickness in. (mm)	6.0 (152) / 2.5 (64)	6.0 (152) / 2.5 (64)	6.0 (152) / 2.5 (64)
	14	Tilt angle, forward / backward Deg. °	5 / 6	5 / 6	5 / 6
	15	Length to face of forks in. (mm)	105.0 (2 666)	105.0 (2 666)	105.0 (2 666)
	16	Width, standard tires in. (mm)	52.0 (1 320)	52.0 (1 320)	52.0 (1 320)
	17	Height, standard mast lowered in. (mm)	84.2 (2 138)	84.2 (2 138)	84.2 (2 138)
	18	Height, standard mast extended with / without LBE in. (mm)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)
	19	Turning radius, minimum outside in. (mm)	93.5 (2 375)	93.5 (2 375)	93.5 (2 375)
	20	Center of wheel to face of forks in. (mm)	18.2 (462)	18.2 (462)	18.2 (462)
	22	Aisle width (Add load length for 90° stack) in. (mm)	111.7 (2 837)	111.7 (2 837)	111.7 (2 837)
PERFORMANCE †	23	Stability (Comply with ANSI?)	YES	YES	YES
	24	Travel speed, maximum forward (PS) mph (km/h)	11.7 (18.8)	11.7 (18.8)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL ft/min (m/s)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)	108.0 (0.55) / 105.0 (0.53)
		Optional 2-stage FFL mast NL / RL ft/min (m/s)	101.0 (0.51) / 87.0 (0.44)	101.0 (0.51) / 87.0 (0.44)	101.0 (0.51) / 87.0 (0.44)
		Optional 3-stage FFL mast NL / RL ft/min (m/s)	102.0 (0.52) / 89.0 (0.45)	102.0 (0.52) / 89.0 (0.45)	102.0 (0.52) / 89.0 (0.45)
		Lowering speed, standard mast NL / RL ft/min (m/s)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)
	26	Optional 2-stage FFL mast NL / RL ft/min (m/s)	63.0 (0.32) / 92.0 (0.47)	63.0 (0.32) / 92.0 (0.47)	63.0 (0.32) / 92.0 (0.47)
		Optional 3-stage FFL mast NL / RL ft/min (m/s)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)
WT.	27	Drawbar pull, Powershift, maximum / 1 mph lbf (kN)	6,962 (31.0) / 6,222 (27.7)	6,520 (29.0) / 5,801 (25.8)	5,780 (25.7) / 5,320 (23.7)
	28	Gradeability, Powershift 1 mph NL / RL %	25 / 21	25 / 20	23 / 19
WHEELS & TIRES	30	Total approximate weight lb. (kg)	16,590 (7 525)	16,590 (7 525)	16,590 (7 525)
	31	Axle loading, static, front / rear - RL lb. (kg)	26,545 (12 041) / 2,882 (1 307)	26,545 (12 041) / 2,882 (1 307)	26,545 (12 041) / 2,882 (1 307)
	32	Number tires, front / rear	2 / 2	2 / 2	2 / 2
	33	Size of tires, front	22 X 12 X 16	22 X 12 X 16	22 X 12 X 16
	34	Size of tires, rear	18 X 8 X 12.1	18 X 8 X 12.1	18 X 8 X 12.1
	35	Wheelbase in. (mm)	70.5 (1 790)	70.5 (1 790)	70.5 (1 790)
	36	Tread, center of tires, front / rear in. (mm)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)
	37	Ground clearance, lowest point - NL in. (mm)	4.7 (118)	4.7 (118)	4.7 (118)
	38	Ground clearance, center wheelbase - NL in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking	Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
DRIVETRAIN	40	Brakes, method of operation, service / parking	Foot / Hand	Foot / Hand	Foot / Hand
	42	Battery, volts / cold cranking amps V (amps)	12 / 475	12 / 475	12 / 900
	46	Engine make / model	GM V6-4.3L	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards hp (kW)	93.8 (69.9)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL rpm	2,500	2,500	2,500
	49	Cycle / Number of cylinders / Displacement cu. in. (cm³)	4 / 6 / 260.0 (4 260)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)	Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse	1 / 1	1 / 1	1 / 1
	54	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S100-120XM, S120XMS LIFT TRUCK SPECIFICATIONS

CAPACITY

Model S100XM: 10,000 lbs. at 24"
(4 536 kg at 610 mm)

Model S120XM: 12,000 lbs. at 24"
(5 443 kg at 610 mm)

Model S120XMS: 12,000 lbs. at 24"
(5 443 kg at 610 mm)

Rated capacities are for truck equipped with:

- Overhead guard
- Three-stage full free-lift VISTA® mast to 184.6" (4 690 mm) maximum fork height
- 48.0" (1 219 mm) standard carriage (S100-120XM) with load backrest extension; 42.0" (1 067 mm) standard carriage with load backrest extension (S120XMS) and 48.0" (1 219 mm) forks as required.

STANDARD EQUIPMENT

Complete S100-120XM, S120XMS truck is equipped with: GM V6-4.3L LPG engine (with fixed LPG bracket); powertrain protection system; 112.0" (2 845 mm) two-stage limited free-lift VISTA mast; 5° forward / 6° backward tilt; 42.0" (1 067 mm) wide hook-type carriage; load backrest extension; 48.0" (1 219 mm) long Class IV hook-type pallet forks; three-function direct acting hydraulic control valve; single speed powershift transmission; MONOTROL pedal; instrumentation panel including: water temperature gauges, charge circuit light, transmission oil pressure & temperature lights, brake fluid level light and engine coolant light; single pedal inch brake; drum service brakes; 87.0" (2 210 mm) OAH overhead guard; 52.0" (1 321 mm) tread; 22 x 12 x 16 smooth tread drive tires; 18 x 8 x 12.1 smooth tread steer tires; tilt steering wheel; high air intake; vinyl non-suspension seat; operator restraint system; rear counterweight exhaust; 2 brake lights with back-up lights; operating manual; and UL Classification LP.

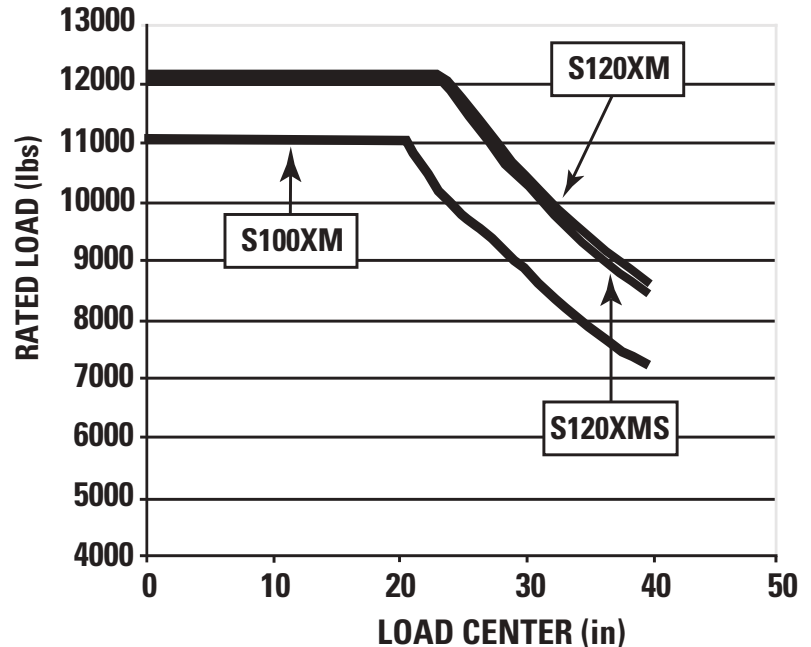
Optional equipment includes:

GM V6-4.3L fuel injected gas engine (w/ UL Classification G); Perkins 1004 diesel engine (w/ UL Classification D); EZXchange LP tank bracket; One Quart Hydra Smooth accumulator; premium monitor group including std instrumentation plus: engine oil pressure gauge, voltmeter, air cleaner restriction light, password protection key system and low fuel level light (LPG); 2 pedal inch brake; radiator screen (N/A with diesel engine); directional control lever; 56" (1 422) wide tread tires, smooth tread non-marking and lug tread drive and steer tires; 8° forward / 5° back tilt; overhead exhaust (N/A w/S120XMS); cloth or vinyl full suspension seat; 84.0" (2 134 mm) OAH overhead guard (N/A w/full suspension seats); precleaner; lights: 2 drive, 1 rear drive, 2 brake / tail with back-up lights; amber strobe light; back-up alarm; ; parts manual; various 2 and 3-stage mast heights; hook-type attachment carriage (S100XM); hook-type integral sideshift carriage; polished and tapered wood product forks; UL Classification G,D or LPS.

RATED LOAD VS. LOAD CENTER

Standard Carriage

U.S. CUSTOMARY



Conversion Factors:

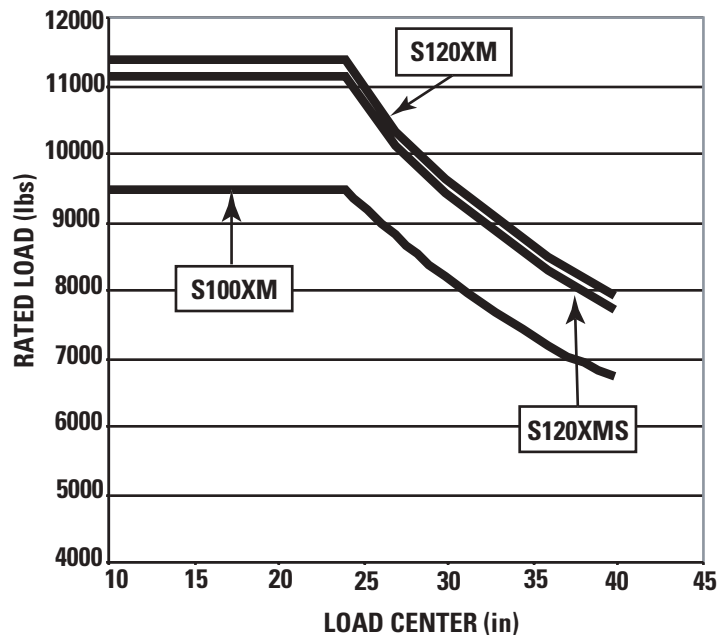
1.0 in = 25.4 mm

1.0 lb = 0.45 kg

RATED LOAD VS. LOAD CENTER

Sideshift Carriage

U.S. CUSTOMARY





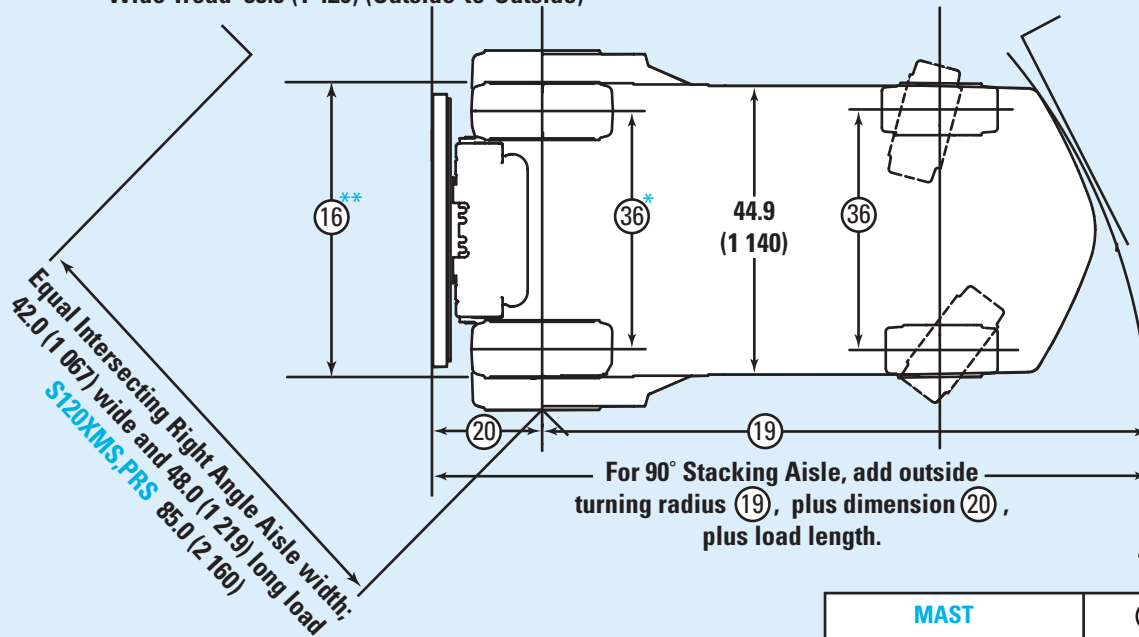
S120XMS-PRS





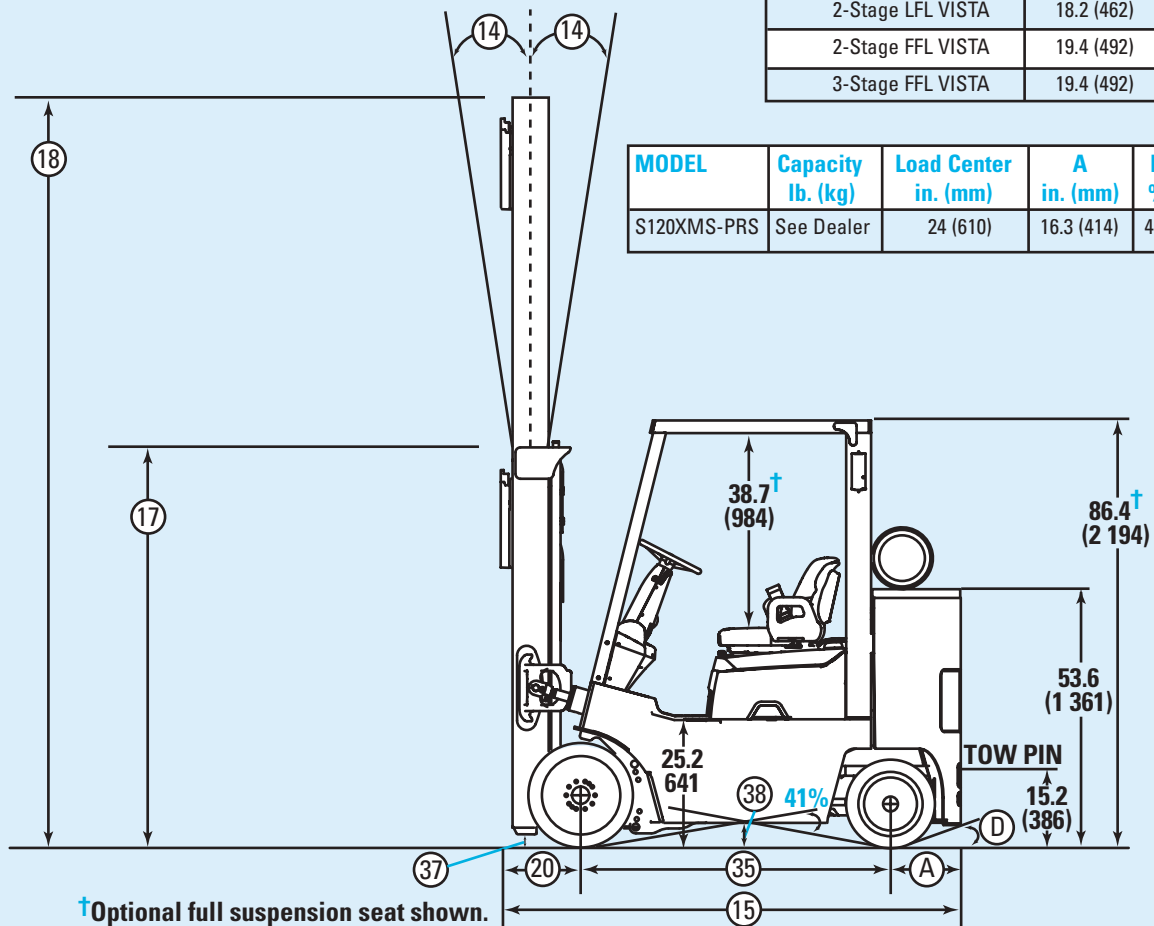
S120XMS-PRS PAPER ROLL LIFT TRUCK SPECIFICATIONS

- * Wide Tread 43.9 (1 115) (Center line to Center line)
- ** Wide Tread 55.9 (1 420) (Outside-to-Outside)



MAST	(20) in. (mm)
2-Stage LFL VISTA	18.2 (462)
2-Stage FFL VISTA	19.4 (492)
3-Stage FFL VISTA	19.4 (492)

MODEL	Capacity lb. (kg)	Load Center in. (mm)	A in. (mm)	D %
S120XMS-PRS	See Dealer	24 (610)	16.3 (414)	47



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



S120XMS-PRS LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company
	2	Model	S120XMS-PRS (GM 4.3L)	S120XMS-PRS (GM 4.3L)	S120XMS-PRS (Perkins)
	3	Capacity, rated lb. (kg)	Varies According to Clamp Fitted	Varies According to Clamp Fitted	Varies According to Clamp Fitted
	4	Load Center in. (mm)	24.0 (610)	24.0 (610)	24.0 (610)
	5	Power type	Gas	LPG	Diesel
	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-stage LFL (TOF) in. (mm)	N/A▲	N/A▲	N/A▲
	11	Limited free-lift (TOF) in. (mm)	N/A▲	N/A▲	N/A▲
	12	Optional full free-lift (TOF) with/without LBE in. (mm)	N/A▲	N/A▲	N/A▲
	13	Forks, width / thickness in. (mm)	No Forks	No Forks	No Forks
	14	Tilt angle, forward / backward Deg. °	5 / 6	5 / 6	5 / 6
	15	Length to face of forks in. (mm)	N/A▲	N/A▲	N/A▲
	16	Width, standard tires in. (mm)	52.0 (1 320)	52.0 (1 320)	52.0 (1 320)
	17	Height, standard mast lowered in. (mm)	84.2 (2 138)	84.2 (2 138)	84.2 (2 138)
	18	Height, std mast extended w/out LBE or attachment in. (mm)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)	160.7 (4 082) / 145.9 (3 707)
	19	Turning radius, minimum outside (truck only) in. (mm)	93.5 (2 375)	93.5 (2 375)	93.5 (2 375)
	20	Center of wheel to face of forks in. (mm)	N/A▲	N/A▲	N/A▲
	22	Aisle width in. (mm) (Add load & attachment length for 90° stack)	111.7 (2 837)	111.7 (2 837)	111.7 (2 837)
PERFORMANCE †	23	Stability (Comply with ANSI?)	YES	YES	YES
	24	Travel speed, maximum forward (PS) mph (km/h)	11.8 (19.0)	11.8 (19.0)	11.8 (19.0)
	25	Lift speed, standard mast NL / RL ft/min (m/s)	108.0 (0.51) / 105.0 (0.53)	108.0 (0.51) / 105.0 (0.53)	108.0 (0.51) / 105.0 (0.53)
		Optional 2-stage FFL mast NL / RL ft/min (m/s)	101.0 (0.51) / 87.0 (0.44)	101.0 (0.51) / 87.0 (0.44)	101.0 (0.51) / 87.0 (0.44)
		Optional 3-stage FFL mast NL / RL ft/min (m/s)	102.0 (0.52) / 89.0 (0.45)	102.0 (0.52) / 89.0 (0.45)	102.0 (0.52) / 89.0 (0.45)
	26	Lowering speed, standard mast NL / RL ft/min (m/s)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)	82.0 (0.42) / 100.0 (0.51)
		Optional 2-stage FFL mast NL / RL ft/min (m/s)	63.0 (0.32) / 92.0 (0.47)	63.0 (0.32) / 92.0 (0.47)	63.0 (0.32) / 92.0 (0.47)
		Optional 3-stage FFL mast NL / RL ft/min (m/s)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)	76.0 (0.39) / 92.0 (0.47)
WT.	27	Drawbar pull, Powershift, maximum / 1 mph lbf (kN)	6,962 (31.0) / 6,222 (27.7)	6,520 (29.0) / 5,801 (25.8)	5,780 (25.7) / 5,320 (23.7)
	28	Gradeability, Powershift 1 mph NL / RL %	25 / 21	25 / 20	23 / 19
WHEELS & TIRES	30	Total approximate weight, excluding clamp lb. (kg)	17,240 (7 820)	17,240 (7 820)	17,240 (7 820)
	31	Axle loading, static, front / rear - RL, excluding clamp lb. (kg)	15,112 (6 855) / 1,640 (744)	15,112 (6 855) / 1,640 (744)	15,112 (6 855) / 1,640 (744)
	32	Number tires, front / rear	2 / 2	2 / 2	2 / 2
	33	Size of tires, front	22 X 12 X 16	22 X 12 X 16	22 X 12 X 16
	34	Size of tires, rear	18 X 8 X 12.1	18 X 8 X 12.1	18 X 8 X 12.1
	35	Wheelbase in. (mm)	70.5 (1 790)	70.5 (1 790)	70.5 (1 790)
	36	Tread, center of tires, front / rear in. (mm)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)	40.0 (1 015) / 39.5 (1 003)
	37	Ground clearance, lowest point - NL in. (mm)	4.7 (118)	4.7 (118)	4.7 (118)
	38	Ground clearance, center wheelbase - NL in. (mm)	6.0 (152)	6.0 (152)	6.0 (152)
	39	Brakes, method of control, service / parking	Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
DRIVETRAIN	40	Brakes, method of operation, service / parking	Foot / Hand	Foot / Hand	Foot / Hand
	42	Battery, volts / cold cranking amps V (amps)	12 / 475	12 / 475	12 / 900
	46	Engine make / model	GM V6-4.3L	GM V6-4.3L	Perkins 1004
	47	Output per SAE standards hp (kW)	93.8 (69.9)	93.8 (69.9)	82.3 (61.4)
	48	Governed speed - NL rpm	2,500	2,500	2,500
	49	Cycle / Number of cylinders / Displacement cu. in. (cm³)	4 / 6 / 260.0 (4 260)	4 / 6 / 260.0 (4 260)	4 / 4 / 255.5 (4 180)
	51	Clutch type (Powershift)	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type (Powershift)	Foot / Hand	Foot / Hand	Foot / Hand
	53	Number speeds, forward / reverse	1 / 1	1 / 1	1 / 1
	54	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 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 the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.



S120XMS-PRS PAPER ROLL SPECIAL LIFT TRUCK SPECIFICATIONS

CAPACITY

Model S120XMS-PRS: CAPACITY VARIES ACCORDING TO CLAMP FITTED.

Not for use in fork applications.

STANDARD EQUIPMENT

Complete S120XMS-PRS truck is equipped with:

GM V6-4.3L LPG engine (with fixed LPG bracket); powertrain protection system; 112.0" (2 845 mm) two-stage limited free-lift VISTA® mast; 5° forward / 6° backward tilt; 42.0" (1 067 mm) wide hook-type carriage; three-function direct acting hydraulic control valve; single speed powershift transmission; MONOTROL pedal; One Quart Hydra Smooth accumulator; instrumentation panel including: water temperature gauges, charge circuit light, transmission oil pressure & temperature lights, brake fluid level light and engine coolant light; single pedal inch brake; drum service brakes; 87.0" (2 210 mm) OAH overhead guard; 52.0" (1 321mm) tread; 22 x 12 x 16 smooth tread drive tires; 18 x 8 x 12.1 smooth tread steer tires; tilt steering wheel; high air intake; vinyl non-suspension seat; operator restraint system; rear counterweight exhaust; 2 brake lights with back-up lights; operating manual; and UL Classification LP.

Optional equipment includes:

GM V6-4.3L fuel injected gas engine (w/ UL Classification G); Perkins 1004 diesel engine (w/ UL Classification D); EZXchange LP tank bracket; premium monitor group including std instrumentation plus: engine oil pressure gauge, voltmeter, air cleaner restriction light, password protection key system and low fuel level light (LPG); 2 pedal inch brake; radiator screen (N/A with diesel engine); directional control lever; 56" (1 422mm) wide tread tires, smooth tread non-marking and lug tread drive and steer tires; cloth or vinyl full suspension seat (N/A w/ lowered OHG); 84.0" (2 134 mm) OAH overhead guard (N/A w/ full susp. seats); precleaner; lights: 2 drive, 1 rear drive, 2 brake / tail with back-up lights; amber strobe light; back-up alarm; 8° forward / 5° back tilt; parts manual; various 2 and 3-stage mast heights, UL Classification G, D or LPS.

▲ **Due to the dimensional nuisances of all the clamps manufactured, for use on the S120XMS-PRS, please contact your local authorized Hyster Dealer to obtain the application critical dimensions on a truck configured for your operations.**



MAST DIMENSIONS

MAST DIMENSIONS				
in. (mm)				
Maximum Fork Height † (Top of Forks)	Overall Lowered Height	Overall Extended Height With Load Backrest Extension	Overall Extended Height Without Load Backrest Extension	*Free-Lift (TOF) Without Load Backrest Extension
S70-80XM / S80XM-BCS				
2-STAGE LIMITED FREE-LIFT (LFL) VISTA				
122.0 (3 099)	84.0 (2 134)	169.5 (4 305)	152.2 (3 866)	6.0 (152)
146.0 (3 708)	96.0 (2 438)	195.4 (4 963)	175.6 (4 460)	6.0 (152)
2-STAGE FULL FREE-LIFT VISTA				
122.0 (3 099)	84.0 (2 134)	169.5 (4 305)	152.6 (3 877)	52.0 (1 321)
3-STAGE FULL FREE-LIFT VISTA				
174.0 (4 420)	84.0 (2 134)	223.0 (5 664)	205.1 (5 210)	52.0 (1 321)
186.0 (4 724)	88.0 (2 235)	234.8 (5 964)	216.9 (5 509)	66.0 (1 676)
195.0 (4 953)	92.0 (2 337)	244.0 (6 198)	226.2 (5 746)	70.0 (1 778)
219.0 (5 563)	100.0 (2 540)	267.6 (6 797)	249.8 (6 345)	78.0 (1 981)
S100-120XM / S100XM-BCS / S120XMS				
2-STAGE LIMITED FREE-LIFT VISTA				
112.0 (2 845)	84.0 (2 134)	160.7 (4 082)	145.9 (3 706)	6.0 (152)
136.0 (3 454)	96.0 (2 438)	184.3 (4 681)	169.6 (4 308)	6.0 (152)
160.0 (4 064)	108.0 (2 743)	208.0 (5 283)	193.2 (4 907)	6.0 (152)
2-STAGE FULL FREE-LIFT VISTA				
112.0 (2 845)	84.0 (2 134)	160.7 (4 082)	147.9 (3 757)	47.0 (1 194)
136.0 (3 454)	96.0 (2 438)	184.3 (4 681)	171.5 (4 356)	62.0 (1 575)
3-STAGE FULL FREE-LIFT VISTA				
163.0 (4 140)	84.0 (2 134)	211.8 (5 380)	199.1 (5 057)	57.0 (1 448)
185.0 (4 699)	92.0 (2 237)	233.5 (5 931)	220.9 (5 611)	65.0 (1 651)
209.0 (5 309)	100.0 (2 540)	257.2 (6 533)	244.5 (6 210)	73.0 (1 854)
S120XMS-PRS				
2-STAGE LIMITED FREE-LIFT VISTA				
112.0 (2 845)	84.0 (2 134)	N/A	145.9 (3 706)	N/A
136.0 (3 454)	96.0 (2 438)	N/A	169.6 (4 308)	N/A
160.0 (4 064)	108.0 (2 743)	N/A	193.2 (4 907)	N/A
2-STAGE FULL FREE-LIFT VISTA				
112.0 (2 845)	84.0 (2 134)	N/A	147.9 (3 757)	N/A
136.0 (3 454)	96.0 (2 438)	N/A	171.5 (4 356)	N/A
3-STAGE FULL FREE-LIFT VISTA				
163.0 (4 140)	84.0 (2 134)	N/A	199.1 (5 057)	N/A
185.0 (4 699)	92.0 (2 237)	N/A	220.9 (5 611)	N/A
209.0 (5 309)	100.0 (2 540)	N/A	244.5 (6 210)	N/A



PERFORMANCE SPECIFICATIONS

PERFORMANCE

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

LIFTING / LOWERING ft/min (m/s)				
	MODEL	MAST	NO LOAD	RATED LOAD
LIFTING	S70XM	2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	134.0 (0.68) 118.0 (0.60) 124.0 (0.63)	123.0 (0.63) 111.0 (0.56) 114.0 (0.58)
LOWERING		2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	93.0 (0.47) 70.0 (0.36) 87.0 (0.44)	108.0 (0.55) 99.0 (0.50) 105.0 (0.53)
LIFTING	S80XM S80XM-BCS	2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	134.0 (0.68) 118.0 (0.60) 124.0 (0.63)	123.0 (0.63) 110.0 (0.56) 114.0 (0.58)
LOWERING		2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	93.0 (0.47) 70.0 (0.36) 87.0 (0.44)	108.0 (0.55) 99.0 (0.50) 105.0 (0.53)
LIFTING	S100XM S100XM-BCS	2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	108.0 (0.55) 101.0 (0.51) 102.0 (0.52)	105.0 (0.53) 94.0 (0.48) 100.0 (0.51)
LOWERING		2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	82.0 (0.42) 63.0 (0.32) 76.0 (0.39)	100.0 (0.51) 89.0 (0.45) 92.0 (0.47)
LIFTING	S120XM	2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	108.0 (0.55) 101.0 (0.51) 102.0 (0.52)	105.0 (0.53) 87.0 (0.44) 89.0 (0.45)
LOWERING		2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	82.0 (0.42) 63.0 (0.32) 76.0 (0.39)	100.0 (0.51) 92.0 (0.47) 92.0 (0.47)
LIFTING	S120XMS S120XMS-PRS	2-Stage LFL VISTA 2-Stage FFL VISTA 3-Stage FFL VISTA	108.0 (0.55) 101.0 (0.51) 102.0 (0.52)	105.0 (0.53) 87.0 (0.44) 89.0 (0.45)
LOWERING		2-Stage LFL VISTA 2-Stage FFL VISTA 3-stage FFL VISTA	82.0 (0.42) 63.0 (0.32) 76.0 (0.39)	100.0 (0.51) 92.0 (0.47) 92.0 (0.47)



STANDARD FEATURES & OPTIONS

MASTS

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

Exclusive Hyster VISTA masts feature widely spaced mast channel, lift chains and main lift cylinders, giving operators excellent visibility. Hoses are internally positioned for protection and visibility.

Rolled mast channel sections and formed cast steel cross members provide for reliable operation. Full-radius, angled load rollers provide durability.

CARRIAGES

The S70-80XM and S80XM-BCS use ITA Class III carriage; the S100XM-BCS, S100-120XM, S120XMS and S120XMS-PRS use ITA Class IV carriage. Two carriage widths are provided: 42.0" (1 067 mm) or 48.0" (1 219 mm) with a standard load backrest extension (N/A with S120XMS-PRS).

Fork spacing: Minimum inside-to-inside fork spacing is 0.20" (5 mm). Maximum outside-to-outside spacing is 38.4" (975 mm) or 44.4" (1 128 mm).

FORKS

2.0" x 5.0" x 42-72" (51 x 127 x 1 067 - 1 829 mm) Class III pallet forks (S70XM).

2.0" x 5.0" x 42-54" (51 x 127 x 1 067 - 1 372 mm) Class III pallet forks (S80XM, S80XM-BCS).

2.0" x 6.0" x 60-72" (51 x 152 x 1 524 - 1 829 mm) Class III pallet forks (S80XM, S80XM-BCS).

2.0" x 6.0" x 42-60" (51 x 152 x 1 067 - 1 524 mm) Class IV pallet forks & 2.5" x 6.0" x 72" (64 x 152 x 1 829 mm) Class IV pallet forks (S100XM, S100XM-BCS).

2.5" x 6.0" x 42-72" (64 x 152 x 1 067 - 1 829 mm) Class IV pallet forks (S120XM, S120XMS).

Polished & tapered/wood product forks are also available. S120XMS-PRS not for use in fork applications.

ENGINES

Standard GM V6-4.3L LPG engine features:

- Maximum torque is 201 ft. lbs. (273 N•m) at 1400 RPM
- Microprocessor Spark Timing System (MSTS)
- Fuel lock-off / filter assembly and vaporizer
- A low emission LPG carburetor
- Electronic governor
- UL Classification LP.

Optional GM V6-4.3L gasoline engine includes:

- Maximum torque is 212 ft. lbs. (287 N•m) at 1600 RPM.
- 4.0" (102 mm) bore, 3.5" (89 mm) stroke
- Heavy-duty air cleaner with pre-cleaner
- 262 cu. in. (4 293 cm3) displacement
- Serpentine belt auxiliary drive
- High energy ignition system
- 12-Volt electrical system
- Electronic fuel injection
- 4 cycle, 6 cylinders
- Electronic governor
- UL Classification G

Optional Perkins 1004 diesel engine includes:

- Maximum torque is 214 ft. lbs. (290 N•m) at 1,300 RPM
- Distributor-type fuel injection pump with built in governor
- Mechanical governor with automatic advance and retard mechanism.

- 4.1" (104 mm) bore, 5.0" (127 mm) stroke
- 258 cu. in. (4 228 cm3) displacement
- Key-actuated start / stop solenoid
- Quadram combustion system
- Gear driven water pump
- 4 cycle, 4 cylinders
- Cold starting aid
- Direct injection
- Cooling system

15 psi (103 kPa) with either engine includes: Beta Weld Square Wave radiator; pusher-type fan; bypass thermostat; and a conveniently located recovery reservoir.

TRANSMISSION / DRIVE TRAIN

Single speed powershift transmission and torque converter provide exceptional traction and travel speed performance. Inching valve allows precise operator control. Oil cooler in radiator cools transmission to extend service life.

BRAKES

Non-asbestos, self-adjusting shoes are located at each end of the drive axle. Self-energized brakes provide smooth, positive action. Power assisted booster reduces effort needed to apply brakes.

The cable-controlled park brake is operated by lever located to left of the steering column.

STEERING SYSTEM

Hydrostatic steering system features pre-loaded tapered roller bearing spindle mounting and fixed-length tie-rods which eliminate the need for periodic adjustments.

Equal-area, double-ended hydrostatic steering cylinder is

mounted in one-piece ductile iron axle frame. Bolt-on, O-ring sealed cylinder end caps simplify resealing.

Elastomeric axle mounts tolerate high shock loads, allows lubrication free articulation and promotes long life.

All bearings are sealed. Linkage is contained within axle casting to shield components.

HYDRAULIC SYSTEM

- Tilt and auxiliary systems have 2,250 psi relief pressure in all valve variations.
- System uses a full-flow, 10 micron paper element filter.
- 3,100 psi hydraulic lift system.

OPERATOR AREA

- Standard MONOTROL® pedal controls engine speed and truck direction, freeing driver's hands to operate steering and hydraulic levers.
- Excellent visibility through VISTA mast and grid-style overhead guard
- Angled floorplate and pedals aids operator comfort.
- Vacuum booster master cylinder reduces brake pedal effort.
- Hydraulic levers provide operator fingertip control.
- Instruments are within clear view
- Four-position tilt steer column

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



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