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TOUGH TRUCKS.™**

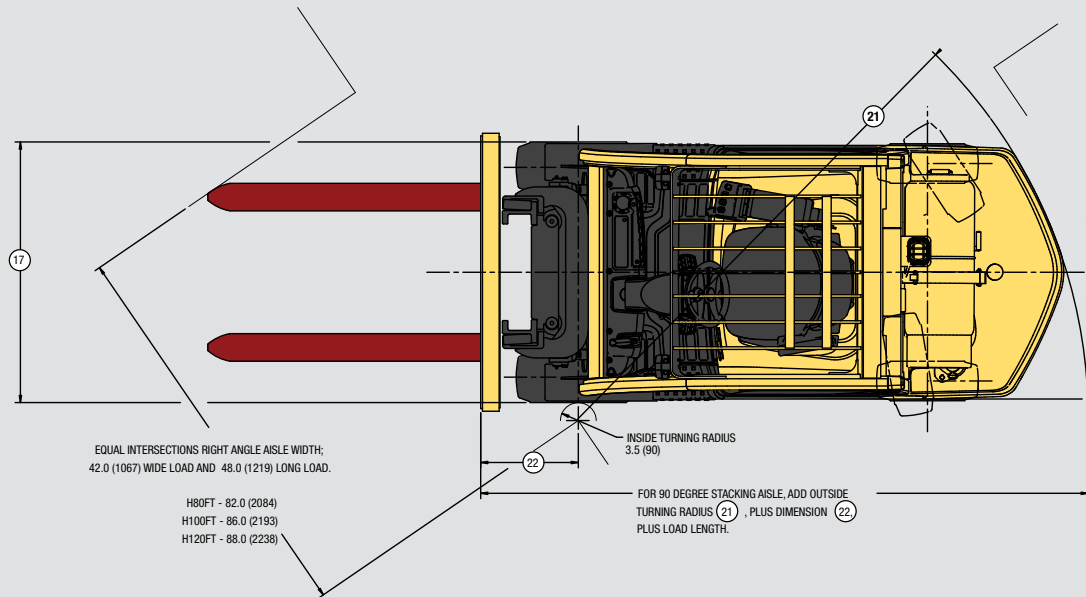


S80-120 FT SERIES

TECHNICAL GUIDE

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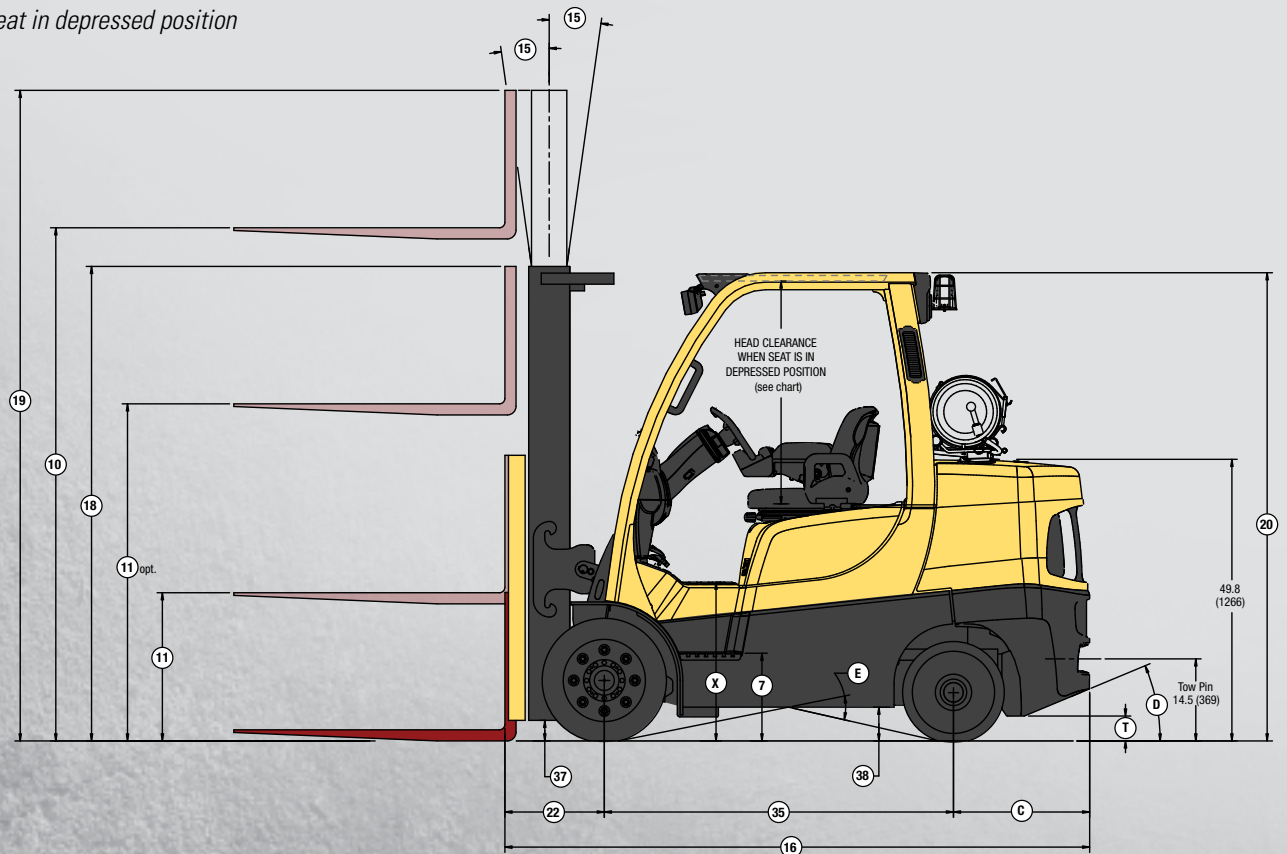
➤ S80 FT DIMENSIONS



Seat Type	Standard OHG	Optional OHG
Non-Suspension	42.0 (1068)	39.4 (1001)
Semi-Suspension	42.5 (1080)	39.9 (1013)
Full-Suspension	41.8 (1062)	N/A
Swivel Full-Suspension	42.0 (1068)	N/A

TRUCK MODEL	C	D	E	T	X
	in (mm)	percent	degrees	in (mm)	in (mm)
S80FT	24.1 (613)	40%	22.7	4.4 (112)	28.1 (714)

Seat in depressed position



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

S80 FT SPECIFICATIONS



GENERAL	1	Manufacturer Name		Hyster Company		
	2	Model		S80FT		
		Engine		Kubota 3.8L LPG		
	3	Rated Capacity	lb (kg)	8000 (3629)		
	4	Load Center, Distance	in (mm)	24 (610)		
	5	Power Type		LPG		
	6	Operator Type		Sit-Down Rider		
	7	Step Height	in (mm)	15.6 (396)		
	8	Tire Type - Cushion, Solid, Pneumatic		Cushion		
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven	2x/2		
	10	Lift Height, Top of Fork (TOF)	in (mm)	120 (3050)		
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	6 (150)		
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm)	35 (900)		
	12	Standard Carriage Width	in (mm)	42 (1067)		
	13	Forks, Thickness x Width x Length	in (mm)	2 X 5 X 48 (50 X 125 X 1219)		
	14	Fork Spread, Outside Dimensions	in (mm)	38.3 (972)		
	15	Mast Tilt Angles, Forward/Backward	degrees	5F/6B		
	16	Length To Face of Forks	in (mm)	103.5 (2630)		
	17	Overall Width, Standard Tread	in (mm)	46.1 (1170)		
		Overall Width, Wide Tread	in (mm)	50.0 (1270)		
	18	Height, Standard Mast - Lowered	in (mm)	84 (2134)		
	19	Height, Standard Mast - Extended with LBR	in (mm)	169 (4284)		
		Height, Standard Mast - Extended without LBR	in (mm)	149 (3783)		
PERFORMANCE	20	Height, Standard Overhead Guard	in (mm)	86 (2171)		
		Height, Optional Overhead Guard	in (mm)	83 (2104)		
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	90.5 (2298)		
	22	Length, Center of Wheel to Face of Forks	in (mm)	17.6 (447)		
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	108.1 (2746)		
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	81.7 (2075)		
	25	Travel Speed RL/NL	1-Speed	mph (km/h)	10.7/10.7 (17.2/17.2)	
			2-Speed	mph (km/h)	13.7/13.9 (22/22.4)	
	26	Lift Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	120/122 (.61 / .62)	
			Lift Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	106/108 (.54/ .55)
					ft/min (m/s)	112/114 (.57/.58)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	93/108 (.47/.55)	
			Lowering Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	71/98 (.36/ .50)
					ft/min (m/s)	87/104 (.44/.53)
28	Max Drawbar Pull RL/NL	1-Speed	lb (kg)	7132/2878 (3235/1306)		
		2-Speed	lb (kg)	8563/2878 (3884/1306)		
29	Drawbar Pull @ 1 mph RL/NL	1-Speed	lb (kg)	6173/2878 (2800/1306)		
			lb (kg)	7162/2878 (3249/1306)		
		2-Speed	%	37/23		
			%	46/23		
30	Gradeability @ 1 mph RL/NL ††	1-Speed	%	31/23		
			%	37/23		
		2-Speed	%	37/23		
			%	37/23		
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	12650 (5738)		
			lb (kg)	20650 (9367)		
	32	Axle Loading, Static Front/Rear NL	lb (kg)	4797/7853 (2176/3562)		
			lb (kg)	18182/2468 (8247/1119)		
TIRES & WHEELS	33	Tire Size, Front		22 X 9 X16		
	34	Tire Size, Rear		18 X 7 X 12.2		
	35	Wheelbase	in (mm)	61.8 (1570)		
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	4.5 (114)		
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	6.0 (152)		
	39	Service Brake - Method of Control/Operation		Foot/Hydraulic		
	40	Parking Brake - Method of Control/Operation		Hand/Mechanical		
	41	Battery Type		Maintenance Free		
POWERTRAIN	42	Volts/Cold Cranking Amps	v/cca	12/475		
	43	Engine, Manufacturer/Model		Kubota WG3800 LPG		
	44	Permanent Output	hp (kW)	74 (55) @ 1800 RPM		
	45	Torque @ Rated RPM	ft/lbs (kg/m)	221 (300) @ 1000 RPM		
	46	Number of Cylinders/Displacement	No/cc (ci)	4/3769 (230)		
		Standard Speeds, Forward/Reverse		1/1		
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	20.5 (77.7)		
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)		

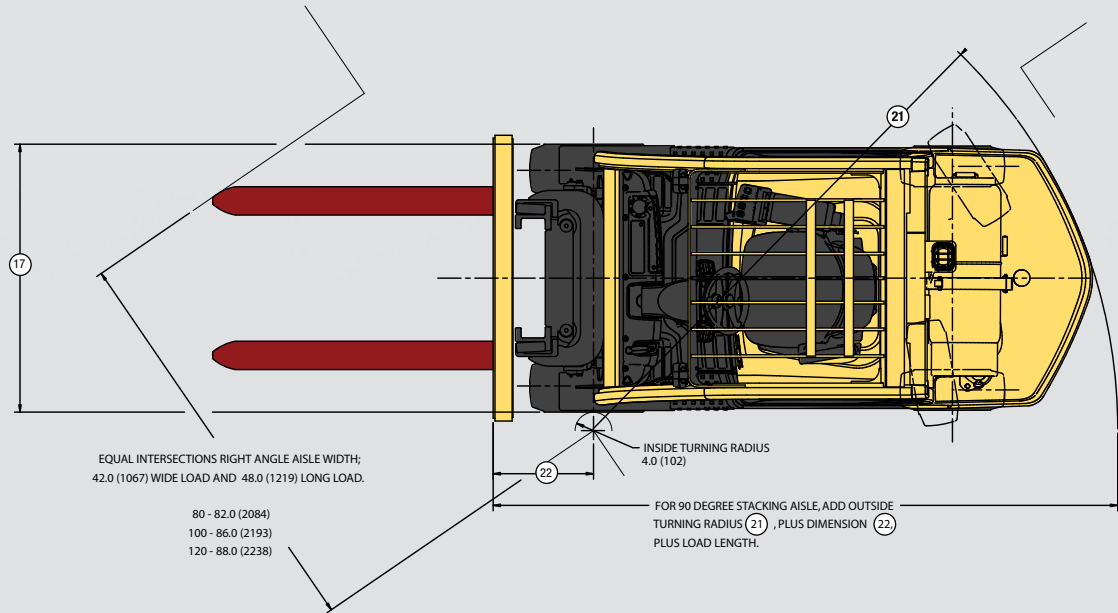
CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(e)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift 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. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company Dealer.

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

RL = Rated Load, NL = No Load

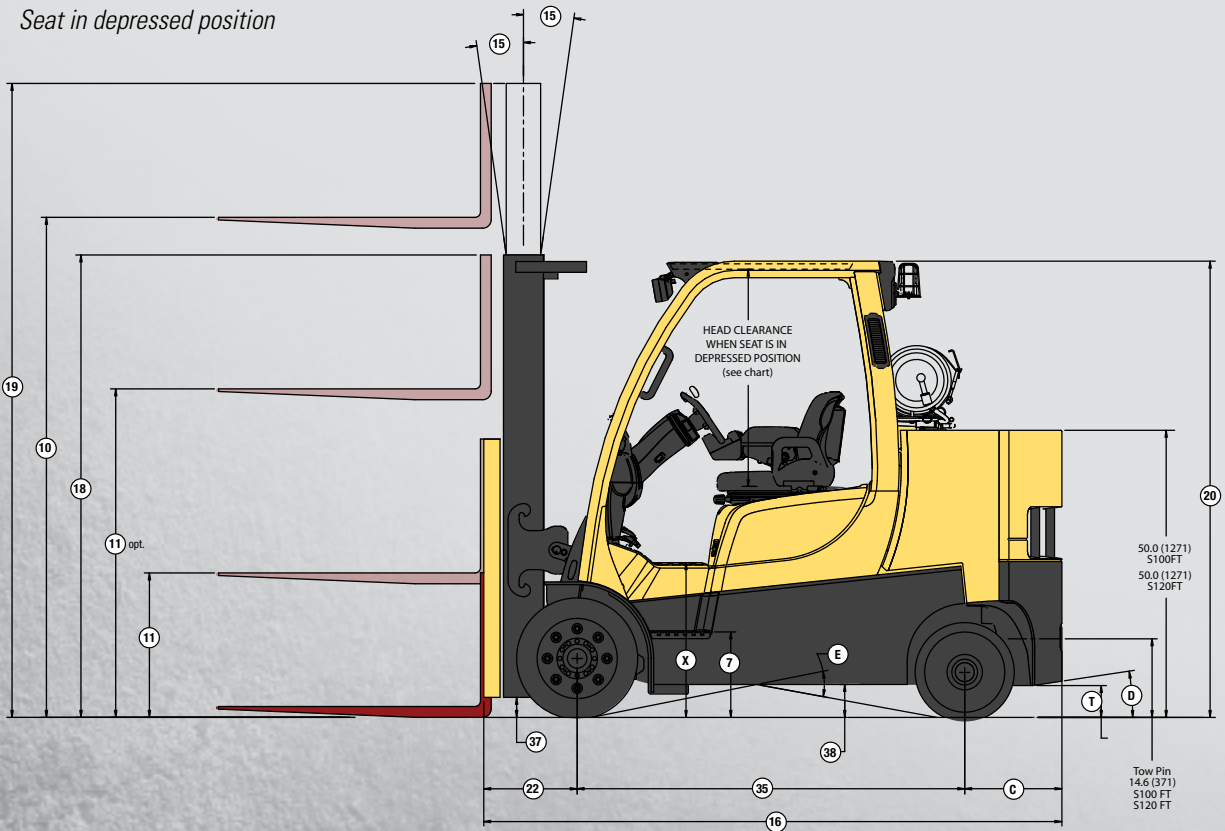
> S100-120 FT DIMENSIONS



Seat Type	Standard OHG	Optional OHG
Non-Suspension	42.0 (1068)	39.4 (1001)
Semi-Suspension	42.5 (1080)	39.9 (1013)
Full-Suspension	41.8 (1062)	N/A
Swivel Full-Suspension	42.0 (1068)	N/A

TRUCK MODEL	C	D	E	T	X
	in (mm)	percent	degrees	in (mm)	in (mm)
S100FT	20.3 (517)	32%	20	4.6 (116)	28.3 (718)
S120FT	24.0 (609)	32%	21	4.6 (116)	28.3 (718)

Seat in depressed position



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

S100 FT SPECIFICATIONS



GENERAL	1	Manufacturer Name		Hyster Company	
	2	Model		S100FT	
		Engine		Kubota 3.8L LPG	
	3	Rated Capacity	lb (kg)	10000 (4536)	
	4	Load Center, Distance	in (mm)	24 (610)	
	5	Power Type		LPG	
	6	Operator Type		Sit-Down Rider	
	7	Step Height	in (mm)	15.6 (396)	
	8	Tire Type - Cushion, Solid, Pneumatic		Cushion	
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven	2x/2	
	10	Lift Height, Top of Fork (TOF)	in (mm)	110 (2800)	
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	6 (150)	
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm)	35 (907)	
	12	Standard Carriage Width	in (mm)	42 (1067)	
	13	Forks, Thickness x Width x Length	in (mm)	2 X 6 X 48 (50 X 150 X 1219)	
	14	Fork Spread, Outside Dimensions	in (mm)	38.3 (972)	
	15	Mast Tilt Angles, Forward/Backward	degrees	5F/6B	
	16	Length To Face of Forks	in (mm)	108.6 (2759)	
	17	Overall Width, Standard Tread	in (mm)	46.1 (1170)	
		Overall Width, Wide Tread	in (mm)	50.0 (1270)	
	18	Height, Standard Mast - Lowered	in (mm)	85 (2138)	
	19	Height, Standard Mast - Extended with LBR	in (mm)	159 (4031)	
		Height, Standard Mast - Extended without LBR	in (mm)	144 (3657)	
	20	Height, Standard Overhead Guard	in (mm)	86 (2175)	
		Height, Optional Overhead Guard	in (mm)	83 (2108)	
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	96.3 (2447)	
	22	Length, Center of Wheel to Face of Forks	in (mm)	17.8 (452)	
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	114.1 (2899)	
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	86.0 (2184)	
	PERFORMANCE	25	Travel Speed RL/NL	1-Speed 2-Speed	mph (km/h) mph (km/h)
					10.5/10.5 (16.9/17) 13.5/13.7 (21.7/22.1)
		26	Lift Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)
			Lift Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)
		Lift Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	
27		Lowering Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	
		Lowering Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	
		Lowering Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	
28		Max Drawbar Pull RL/NL	1-Speed 2-Speed	lb (kg)	
				7851/3803 (3561/1725) 9429/3803 (4277/1725)	
		Drawbar Pull @ 1 mph RL/NL	1-Speed 2-Speed	lb (kg)	
				6732/3803 (3054/1725) 7800/3803 (3538/1725)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
				33/26 40/26	
	Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%		
			28/26 32/26		
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	15329 (6953)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	25329 (11489)	
	32	Axle Loading, Static Front/Rear NL	lb (kg)	6339 / 8990 (2875 / 4078)	
		Axle Loading, Static Front/Rear RL	lb (kg)	22323 / 3006 (10126 / 1363)	
TIRES & WHEELS	33	Tire Size, Front		22 X 12 X 16	
	34	Tire Size, Rear		18 X 8 X 12.2	
	35	Wheelbase	in (mm)	70.5 (1790)	
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	4.6 (118)	
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	6.1 (156)	
	39	Service Brake - Method of Control/Operation		Foot/Hydraulic	
	40	Parking Brake - Method of Control/Operation		Hand/Mechanical	
	41	Battery Type		Maintenance Free	
POWERTRAIN	42	Volts/Cold Cranking Amps	v/cca	12/475	
	43	Engine, Manufacturer/Model		Kubota WG3800 LPG	
	44	Permanent Output	hp (kW)	91 (69) @ 2400 RPM	
	45	Torque @ Rated RPM	ft/lbs (kg/m)	221 (300) @ 1000 RPM	
	46	Number of Cylinders/Displacement	No/cc (ci)	4/3769 (230)	
		Standard Speeds, Forward/Reverse		1/1	
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	20.5 (77.7)	
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)	

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

RL = Rated Load, NL = No Load



S120 FT DIMENSIONS

GENERAL	1	Manufacturer Name		Hyster Company	
	2	Model		S120FT	
		Engine		Kubota 3.8L LPG	
	3	Rated Capacity	lb (kg)	12000 (5443)	
	4	Load Center, Distance	in (mm)	24 (610)	
	5	Power Type		LPG	
	6	Operator Type		Sit-Down Rider	
	7	Step Height	in (mm)	15.6 (396)	
	8	Tire Type - Cushion, Solid, Pneumatic		Cushion	
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven	2x/2	
	10	Lift Height, Top of Fork (TOF)	in (mm)	110 (2800)	
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	6 (150)	
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm)	35 (907)	
	12	Standard Carriage Width	in (mm)	42 (1067)	
	13	Forks, Thickness x Width x Length	in (mm)	2.5 X 60 X 48 (60 X 150 X 1219)	
	14	Fork Spread, Outside Dimensions	in (mm)	38.3 (972)	
	15	Mast Tilt Angles, Forward/Backward	degrees	5F/6B	
	16	Length To Face of Forks	in (mm)	112.6 (2861)	
	17	Overall Width, Standard Tread	in (mm)	46.1 (1170)	
		Overall Width, Wide Tread	in (mm)	50.0 (1270)	
	18	Height, Standard Mast - Lowered	in (mm)	85 (2138)	
	19	Height, Standard Mast - Extended with LBR	in (mm)	159 (4031)	
		Height, Standard Mast - Extended without LBR	in (mm)	144 (3657)	
	20	Height, Standard Overhead Guard	in (mm)	86 (2175)	
		Height, Optional Overhead Guard	in (mm)	83 (2108)	
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	99.8 (2534)	
	22	Length, Center of Wheel to Face of Forks	in (mm)	18.2 (462)	
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	118 (2996)	
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	87.8 (2230)	
	PERFORMANCE	25	Travel Speed RL/NL	1-Speed 2-Speed	mph (km/h) mph (km/h)
					10.4/10.5 (16.8/16.9) 13.4/13.7 (21.6/22)
		26	Lift Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)
			Lift Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)
		Lift Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	
27		Lowering Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	
		Lowering Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	
		Lowering Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	
28		Max Drawbar Pull RL/NL	1-Speed 2-Speed	lb (kg)	
		Drawbar Pull @ 1 mph RL/NL	1-Speed 2-Speed	lb (kg)	
				7784/3597 (3531/1631) 9363/3597 (4247/1631) 6665/3597 (3023/1631) 7733/3597 (3508/1631)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
	Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%		
			28/22 35/22 24/22 28/22		
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	16690 (7570)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	28690 (13014)	
	32	Axle Loading, Static Front/Rear NL	lb (kg)	5995 / 10695 (2719 / 4851)	
		Axle Loading, Static Front/Rear RL	lb (kg)	25178 / 3512 (11421 / 1593)	
TIRES & WHEELS	33	Tire Size, Front		22 X 12 X16	
	34	Tire Size, Rear		18 X 8 X 12.2	
	35	Wheelbase	in (mm)	70.5 (1790)	
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	4.6 (118)	
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	6.1 (156)	
	39	Service Brake - Method of Control/Operation		Foot/Hydraulic	
	40	Parking Brake - Method of Control/Operation		Hand/Mechanical	
	41	Battery Type		Maintenance Free	
POWERTRAIN	42	Volts/Cold Cranking Amps	v/cca	12/475	
	43	Engine, Manufacturer/Model		Kubota WG3800 LPG	
	44	Permanent Output	hp (kW)	91 (69) @ 2400 RPM	
	45	Torque @ Rated RPM	ft/lbs (kg/m)	221 (300) @ 1000 RPM	
	46	Number of Cylinders/Displacement	No/cc (ci)	4/3769 (230)	
		Standard Speeds, Forward/Reverse		1/1	
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	20.5 (77.7)	
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)	

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

RL = Rated Load, NL = No Load

S120 FTS SPECIFICATIONS



GENERAL	1	Manufacturer Name		Hyster Company	
	2	Model		S120FTS	
		Engine		Kubota 3.8L LPG	
	3	Rated Capacity	lb (kg)	12000 (5443)	
	4	Load Center, Distance	in (mm)	24 (610)	
	5	Power Type		LPG	
	6	Operator Type		Sit-Down Rider	
	7	Step Height	in (mm)	15.6 (396)	
	8	Tire Type - Cushion, Solid, Pneumatic		Cushion	
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven	2x/2	
	10	Lift Height, Top of Fork (TOF)	in (mm)	110 (2800)	
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	6 (150)	
		Lift Heights, Optional Full Free Lift (FLL) with LBR (TOF)	in (mm)	35 (907)	
	12	Standard Carriage Width	in (mm)	42 (1067)	
	13	Forks, Thickness x Width x Length	in (mm)	2.5 X 60 X 48 (60 X 150 X 1219)	
	14	Fork Spread, Outside Dimensions	in (mm)	38.3 (972)	
	15	Mast Tilt Angles, Forward/Backward	degrees	5F/6B	
	16	Length To Face of Forks	in (mm)	106.3 (2699)	
	17	Overall Width, Standard Tread	in (mm)	52.0 (1320)	
		Overall Width, Wide Tread	in (mm)	55.9 (1420)	
	18	Height, Standard Mast - Lowered	in (mm)	85 (2138)	
	19	Height, Standard Mast - Extended with LBR	in (mm)	159 (4031)	
		Height, Standard Mast - Extended without LBR	in (mm)	144 (3657)	
	20	Height, Standard Overhead Guard	in (mm)	86 (2175)	
		Height, Optional Overhead Guard	in (mm)	83 (2108)	
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	93.5 (2375)	
	22	Length, Center of Wheel to Face of Forks	in (mm)	18.2 (462)	
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	111.7 (2837)	
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	86.0 (2184)	
	PERFORMANCE	25	Travel Speed RL/NL	1-Speed 2-Speed	mph (km/h) mph (km/h)
					10.4/10.5 (16.8/16.9) 13.4/13.7 (21.6/22)
		26	Lift Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)
			Lift Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)
		Lift Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	
27		Lowering Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	
		Lowering Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	
		Lowering Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	
28		Max Drawbar Pull RL/NL	1-Speed 2-Speed	lb (kg)	
				7783/3870 (3530/1756) 9362/3870 (4247/1756)	
		Drawbar Pull @ 1 mph RL/NL	1-Speed 2-Speed	lb (kg)	
				6664/3870 (3023/1756) 7732/3870 (3507/1756)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
				28/24 34/24	
		Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%	
			24/24 28/24		
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	16743 (7594)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	28743 (13038)	
	32	Axle Loading, Static Front/Rear NL	lb (kg)	6450 / 10293 (2926 / 4669)	
		Axle Loading, Static Front/Rear RL	lb (kg)	25634 / 3109 (11627 / 1410)	
TIRES & WHEELS	33	Tire Size, Front		22 X 12 X16	
	34	Tire Size, Rear		18 X 8 X 12.2	
	35	Wheelbase	in (mm)	70.5 (1790)	
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	4.6 (118)	
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	6.1 (156)	
	39	Service Brake - Method of Control/Operation		Foot/Hydraulic	
	40	Parking Brake - Method of Control/Operation		Hand/Mechanical	
	41	Battery Type		Maintenance Free	
POWERTRAIN	42	Volts/Cold Cranking Amps	v/cca	12/475	
	43	Engine, Manufacturer/Model		Kubota WG3800 LPG	
	44	Permanent Output	hp (kW)	91 (68) @ 2400 RPM	
	45	Torque @ Rated RPM	ft/lbs (kg/m)	221 (300) @ 1000 RPM	
	46	Number of Cylinders/Displacement	No/cc (ci)	4/3769 (230)	
		Standard Speeds, Forward/Reverse		1/1	
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	20.5 (77.7)	
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)	

CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(e)(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.

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

RL = Rated Load, NL = No Load

S80-100 FT BCS SPECIFICATIONS



		Hyster Company			
		S80FT BCS	S100FT BCS		
GENERAL	1	Manufacturer Name	Hyster Company		
	2	Model	S80FT BCS	S100FT BCS	
	3	Engine	Kubota 3.8L LPG		
	3	Rated Capacity	8000 (3629)	10000 (4536)	
	4	Load Center, Distance	24 (610)		
	5	Power Type	LPG		
	6	Operator Type	Sit-Down Rider		
	7	Step Height	15.6 (396)		
	8	Tire Type - Cushion, Solid, Pneumatic	Cushion		
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven 2x/2		
	10	Lift Height, Top of Fork (TOF)	120 (3050)	110 (2800)	
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	6 (150)		
	11	Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	35 (900)		
	12	Standard Carriage Width	42 (1067)		
	13	Forks, Thickness x Width x Length	2 X 5 X 48 (50 X 125 X 1219)	2 X 6 X 48 (50 X 150 X 1219)	
	14	Fork Spread, Outside Dimensions	38.3 (972)		
	15	Mast Tilt Angles, Forward/Backward	5F/6B		
	16	Length To Face of Forks	95.6 (2427)	101.2 (2571)	
	17	Overall Width, Standard Tread	46.1 (1170)	52.0 (1320)	
	17	Overall Width, Wide Tread	50.0 (1270)	55.9 (1420)	
	18	Height, Standard Mast - Lowered	84 (2134)	85 (2138)	
	19	Height, Standard Mast - Extended with LBR	169 (4284)	159 (4031)	
	19	Height, Standard Mast - Extended without LBR	149 (3783)	144 (3657)	
	20	Height, Standard Overhead Guard	86 (2171)	86 (2175)	
	20	Height, Optional Overhead Guard	83 (2104)	83 (2108)	
	21	Turning Radius, Minimum Outside (OTR)	82.8 (2102)	87.9 (2232)	
	22	Length, Center of Wheel to Face of Forks	17.6 (447)	17.8 (452)	
	23	Aisle Width, Right Angle Stack (Add Length of Load)	100.4 (2549)	105.7 (2684)	
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	79.4 (2017)	84.1 (2136)	
	PERFORMANCE†	25	Travel Speed RL/NL	1-Speed 10.7/10.7 (17.2/17.2) mph (km/h)	
		25	2-Speed	13.7/13.9 (22.1/22.4) mph (km/h)	
		26	Lift Speed, Standard 2-Stage LFL RL/NL	120/122 (.61/.62) ft/min (m/s)	
		26	Lift Speed, Optional 2-Stage FFL RL/NL	106/108 (.54/.55) ft/min (m/s)	
26		Lift Speed, Optional 3-Stage FFL RL/NL	112/114 (.57/.58) ft/min (m/s)		
27		Lowering Speed, Standard 2-Stage LFL RL/NL	93/108 (.47/.55) ft/min (m/s)		
27		Lowering Speed, Optional 2-Stage FFL RL/NL	71/98 (.36/.50) ft/min (m/s)		
27		Lowering Speed, Optional 3-Stage FFL RL/NL	87/104 (.44/.53) ft/min (m/s)		
28		Max Drawbar Pull RL/NL	1-Speed 7118/3333 (3229/1512) lb (kg)		
28		2-Speed	8550/3333 (3878/1512) lb (kg)		
28		Drawbar Pull @ 1 mph RL/NL	1-Speed 6159/3333 (2794/1512) lb (kg)		
28		2-Speed	7148/3333 (3242/1512) lb (kg)		
29	Max Gradeability RL/NL ††	1-Speed	35/26 %		
	2-Speed	44/26 %			
	Gradeability @ 1 mph RL/NL ††	1-Speed	30/26 %		
	2-Speed	36/26 %			
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	13340 (6051) lb (kg)		
	31	Weight, Standard Truck (Standard 2-Stg. LFL) RL	21340 (9680) lb (kg)		
	32	Axle Loading, Static Front/Rear NL	5555 / 7785 (2520 / 3531) lb (kg)		
	32	Axle Loading, Static Front/Rear RL	18940 / 2400 (8591 / 1089) lb (kg)		
TIRES & WHEELS	33	Tire Size, Front	22 X 9 X16		
	34	Tire Size, Rear	18 X 7 X 12.2		
	35	Wheelbase	61.8 (1570) in (mm)		
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	4.5 (114) in (mm)		
	38	Ground Clearance, Center of Wheelbase NL	6.0 (152) in (mm)		
	39	Service Brake - Method of Control/Operation	Foot/Hydraulic		
POWERTRAIN	40	Parking Brake - Method of Control/Operation	Hand/Mechanical		
	41	Battery Type	Maintenance Free		
	42	Volts/Cold Cranking Amps	12/475 v/cca		
	43	Engine, Manufacturer/Model	Kubota WG3800 LPG		
	44	Permanent Output	74 (55) @ 1800 RPM	91 (68) @ 2400 RPM	
	45	Torque @ Rated RPM	221 (300) @ 1000 RPM ft/lbs (kg/m)		
	46	Number of Cylinders/Displacement	4/3769 (230) No/cc (ci)		
	46	Standard Speeds, Forward/Reverse	1/1		
	49	Hydraulic Tank - capacity (drain & refill)	20.5 (77.7) gal (liter)		
	51	Auxiliary Hydraulic Pressure Relief for Attachments	2250 (15.5) PSI (Mpa)		

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.

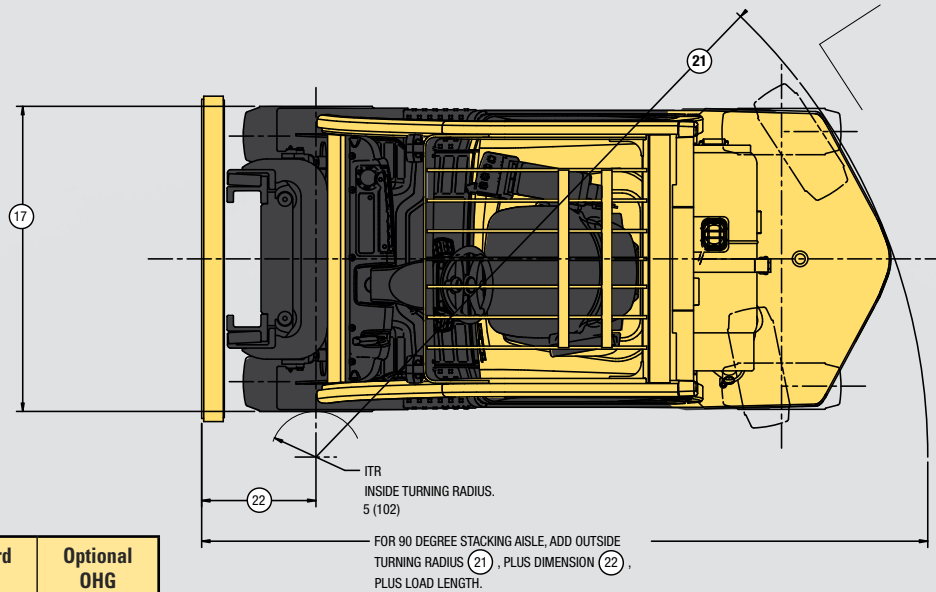
Certification of compliance with the applicable ANSI standards appears on the lift truck.

† 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. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company Dealer.

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

RL = Rated Load, NL = No Load

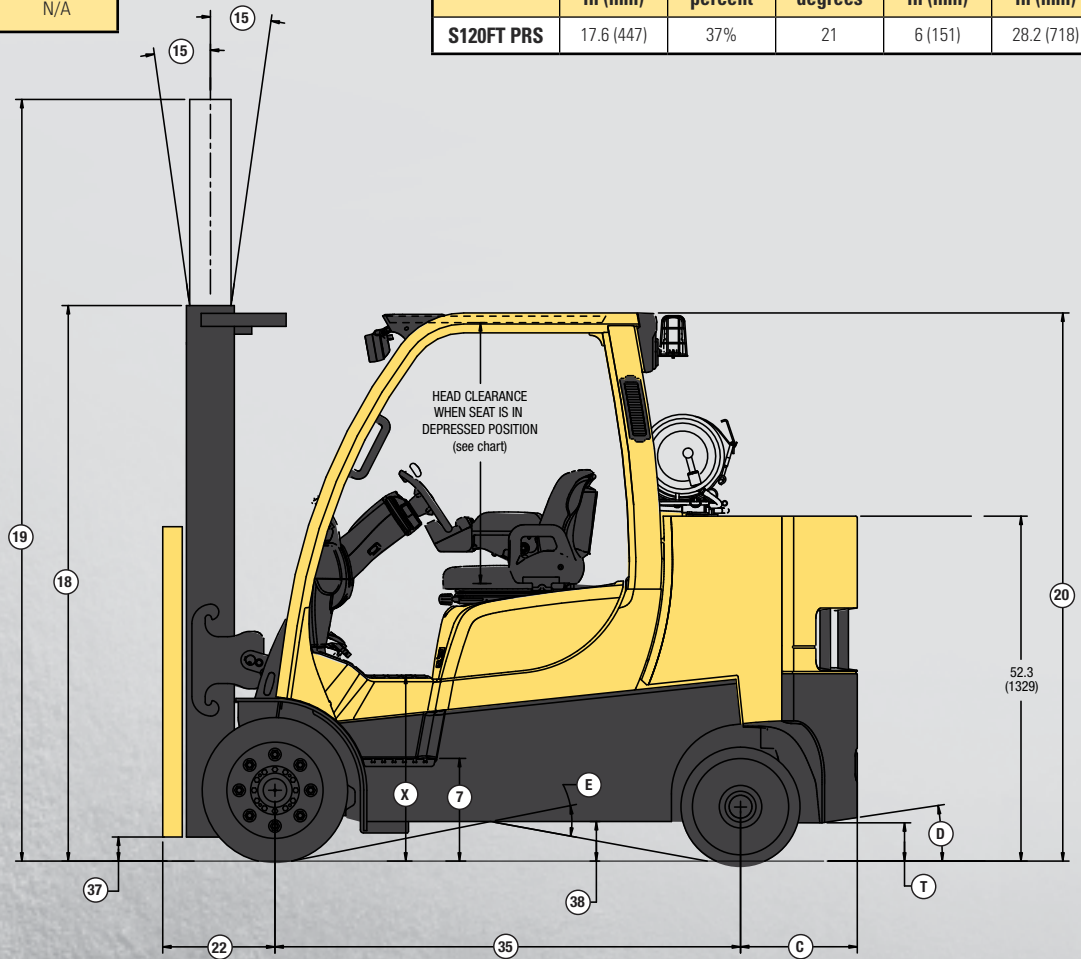
➤ S120 FT PRS DIMENSIONS



Seat Type	Standard OHG	Optional OHG
Non-Suspension	42.0 (1068)	39.4 (1001)
Semi-Suspension	42.5 (1080)	39.9 (1013)
Full-Suspension	41.8 (1062)	N/A
Swivel Full-Suspension	42.0 (1068)	N/A

TRUCK MODEL	C	D	E	T	X
	in (mm)	percent	degrees	in (mm)	in (mm)
S120FT PRS	17.6 (447)	37%	21	6 (151)	28.2 (718)

Seat in depressed position



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

S120 FT PRS SPECIFICATIONS



GENERAL	1	Manufacturer Name		Hyster Company	
	2	Model		S120FT PRS	
		Engine		Kubota 3.8L LPG	
	3	Rated Capacity	lb (kg)	12000 (5443)	
	4	Load Center, Distance	in (mm)	24 (610)	
	5	Power Type		LPG	
	6	Operator Type		Sit-Down Rider	
	7	Step Height	in (mm)	15.6 (396)	
	8	Tire Type - Cushion, Solid, Pneumatic		Cushion	
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven	2x/2	
	10	Lift Height, Top of Fork (TOF)	in (mm)	N/A	
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	N/A	
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm)	N/A	
	12	Standard Carriage Width	in (mm)	42 (1067)	
	13	Forks, Thickness x Width x Length	in (mm)	N/A	
	14	Fork Spread, Outside Dimensions	in (mm)	N/A	
	15	Mast Tilt Angles, Forward/Backward	degrees	5F/6B	
	16	Length To Face of Forks	in (mm)	N/A	
	17	Overall Width, Standard Tread	in (mm)	52.0 (1320)	
		Overall Width, Wide Tread	in (mm)	55.9 (1420)	
	18	Height, Standard Mast - Lowered	in (mm)	85 (2138)	
	19	Height, Standard Mast - Extended with LBR	in (mm)	159 (4031)	
		Height, Standard Mast - Extended without LBR	in (mm)	144 (3657)	
	PERFORMANCE	20	Height, Standard Overhead Guard	in (mm)	86 (2175)
			Height, Optional Overhead Guard	in (mm)	83 (2108)
21		Turning Radius, Minimum Outside (OTR)	in (mm)	93.5 (2375)	
22		Length, Center of Wheel to Face of Forks	in (mm)	N/A	
23		Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	N/A	
24		Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	N/A	
25		Travel Speed RL/NL	1-Speed	mph (km/h)	10.4/10.5 (16.8/16.9)
			2-Speed	mph (km/h)	13.4/13.7 (21.5/22)
26		Lift Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	110/112 (.56/.57)
				ft/min (m/s)	102/106 (.52/.54)
		Lift Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	106/108 (.54/.55)
				ft/min (m/s)	100/83 (.51/.42)
27		Lowering Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	89/63 (.45/.32)
				ft/min (m/s)	93/77 (.47/.39)
28		Max Drawbar Pull RL/NL	1-Speed	lb (kg)	7757/4064 (3519/1843)
			2-Speed	lb (kg)	9336/4064 (4235/1843)
	Drawbar Pull @ 1 mph RL/NL	1-Speed	lb (kg)	6637/4064 (3011/1843)	
		2-Speed	lb (kg)	7705/4064 (3495/1843)	
29	Max Gradeability RL/NL ††	1-Speed	%	27/23	
		2-Speed	%	33/23	
	Gradeability @ 1 mph RL/NL ††	1-Speed	%	23/23	
		2-Speed	%	26/23	
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	18155 (8235)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	30155 (13678)	
	32	Axle Loading, Static Front/Rear NL	lb (kg)	6773 / 11382 (3072 / 5163)	
		Axle Loading, Static Front/Rear RL	lb (kg)	25957 / 4198 (11774 / 1904)	
TIRES & WHEELS	33	Tire Size, Front		22 X 12 X16	
	34	Tire Size, Rear		18 X 8 X 12.2	
	35	Wheelbase	in (mm)	70.5 (1790)	
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	4.6 (118)	
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	6.1 (156)	
	39	Service Brake - Method of Control/Operation		Foot/Hydraulic	
	40	Parking Brake - Method of Control/Operation		Hand/Mechanical	
POWERTRAIN	41	Battery Type		Maintenance Free	
	42	Volts/Cold Cranking Amps	v/cca	12/475	
	43	Engine, Manufacturer/Model		Kubota WG3800 LPG	
	44	Permanent Output	hp (kW)	91 (68) @ 2400 RPM	
	45	Torque @ Rated RPM	ft/lbs (kg/m)	221 (300) @ 1000 RPM	
	46	Number of Cylinders/Displacement	No/cc (ci)	4/3769 (230)	
		Standard Speeds, Forward/Reverse		1/1	
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	20.5 (77.7)	
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)	

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.

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

RL = Rated Load, NL = No Load

➤ MAST DIMENSIONS

S80FT/S80FT BCS MAST DIMENSIONS					
Maximum Fork Height (TOF) †	Overall Lowered Height	Overall Extended Height		Free-Lift (TOF)	
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE-LIFT (LFL) VISTA™ MAST					
120 (3050)	85 (2134)	169 (4284)	149 (3783)	5 (150)	5 (150)
143 (3650)	96 (2434)	193 (4897)	193 (4884)	5 (150)	5 (150)
2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
121 (3075)	85 (2134)	170 (4309)	152 (3857)	35 (900)	53 (1352)
3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
173 (4415)	85 (2134)	223 (5649)	205 (5197)	35 (900)	53 (1352)
185 (4715)	88 (2234)	235 (5949)	217 (5497)	39 (1000)	57 (1452)
194 (4950)	92 (2334)	244 (6184)	226 (5732)	43 (1100)	61 (1552)
218 (5550)	100 (2534)	268 (6784)	250 (6332)	51 (1300)	68 (1752)

S100FT/S100FT BCS MAST DIMENSIONS					
Maximum Fork Height (TOF) †	Overall Lowered Height	Overall Extended Height		Free-Lift (TOF)	
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE-LIFT (LFL) VISTA™ MAST					
110 (2800)	85 (2138)	159 (4031)	144 (3657)	6 (160)	6 (160)
133 (3400)	96 (2438)	183 (4631)	168 (4257)	6 (160)	6 (160)
157 (4000)	108 (2738)	206 (5231)	192 (4857)	6 (160)	6 (160)
2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
111 (2825)	85 (2138)	160 (4056)	147 (3731)	35 (907)	48 (1232)
134 (3425)	96 (2438)	184 (4656)	171 (4331)	47 (1207)	60 (1532)
3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
163 (4147)	85 (2138)	212 (5378)	200 (5058)	35 (907)	48 (1227)
185 (4700)	92 (2338)	234 (5931)	221 (5611)	43 (1107)	56 (1427)
208 (5300)	100 (2538)	258 (6531)	245 (6211)	51 (1307)	64 (1627)

† Lift heights over 171.5" (4356 mm) maximum fork height are considered highlifts and require reduced capacity and restricted back tilt.
 Total approximate weights listed include mast, standard carriage, load backrest and 70 lbs. LP tank and tank bracket.
 RL = Rated Load NL = No Load

S120FT/S120FTS MAST DIMENSIONS					
Maximum Fork Height (TOF) †	Overall Lowered Height	Overall Extended Height		Free-Lift (TOF)	
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE-LIFT (LFL) VISTA™ MAST					
110 (2800)	85 (2138)	159 (4031)	144 (3657)	6 (160)	6 (160)
133 (3400)	96 (2438)	183 (4631)	168 (4257)	6 (160)	6 (160)
157 (4000)	108 (2738)	206 (5231)	192 (4857)	6 (160)	6 (160)
2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
111 (2825)	85 (2138)	160 (4056)	147 (3731)	35 (907)	48 (1232)
134 (3425)	96 (2438)	184 (4656)	171 (4331)	47 (1207)	60 (1532)
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163 (4147)	85 (2138)	212 (5378)	200 (5058)	35 (907)	48 (1227)
185 (4700)	92 (2338)	234 (5931)	221 (5611)	43 (1107)	56 (1427)
208 (5300)	100 (2538)	258 (6531)	245 (6211)	51 (1307)	64 (1627)

S120FT PRS MAST DIMENSIONS					
Maximum Fork Height (TOF) †	Overall Lowered Height	Overall Extended Height		Free-Lift (TOF)	
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE-LIFT (LFL) VISTA™ MAST					
110 (2800)	85 (2138)	N/A	144 (3657)	N/A	6 (160)
133 (3400)	96 (2438)	N/A	168 (4257)	N/A	6 (160)
157 (4000)	108 (2738)	N/A	192 (4857)	N/A	6 (160)
2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
111 (2825)	85 (2138)	N/A	147 (3731)	N/A	48 (1232)
134 (3425)	96 (2438)	N/A	171 (4331)	N/A	60 (1532)
3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
163 (4147)	85 (2138)	N/A	200 (5058)	N/A	48 (1227)
185 (4700)	92 (2338)	N/A	221 (5611)	N/A	56 (1427)
208 (5300)	100 (2538)	N/A	245 (6211)	N/A	64 (1627)

† Lift heights over 171.5" (4356 mm) maximum fork height are considered highlifts and require reduced capacity and restricted back tilt. Total approximate weights listed include mast, standard carriage, load backrest and 70 lbs. LP tank and tank bracket.
 RL = Rated Load NL = No Load

STANDARD FEATURES AND OPTIONS

STANDARD EQUIPMENT

GM 4.3L, V-6 emissions compliant engine
Electronic powershift transmission

- Hydraulic inching
- Electronic shift control
- 2 speeds forward, 2 speeds reverse

Heavy duty premium wet disc brakes (excludes S80FT)
MONOTROL® pedal
2-Stage limited free-lift (LFL) VISTA™ mast with maximum fork height of 133" (2400 mm)
48.0" (1219 mm) wide hook-type carriage with 48.0" (1219) tall load backrest extension
48.0" (1219 mm) long forks
6 degrees forward and 10 degrees backward mast tilt
3-function hydraulic control valve
Integrated dashboard display includes:

LCD display:

- Fuel level (diesel only)
- Hour meter
- Coolant temperature
- Clock
- Messages

Service indicator lights:

- Alternator
- Transmission oil temperature
- Engine oil pressure
- Brake fluid level
- Fasten seat belt
- Low fuel level
- Engine malfunction
- System malfunction
- Park brake
- Coolant temperature
- Forward, reverse and neutral direction indicators

Hydrostatic power steering
Non-suspension vinyl seat
No-cinch seat belt
Electronic horn
Adjustable steer column
Rubber floor mat
High air intake
Integral tie downs
Operator restraint system
Combi-cooler radiator
Single pedal inch brake
Cowl-mounted hydraulic control levers
Swing out LPG tank bracket

OPTIONAL EQUIPMENT

High output Kubota 3.8L EPA Certified Tier 4 Final turbo diesel engine
DuraMatch™ transmission

- Electronic inching
- Electronic shift control
- Auto deceleration system
- Controlled power reversal
- Controlled roll back on ramps
- 3 speeds forward, 2 speeds reverse

Heavy duty premium wet disc brakes (S80FT)
LED lights (brake/tail/back-up)
Powertrain protection system
Premium monitoring
High air intake with precleaner
Accumulator
Keyless start (with auxiliary key switch)
Dual LPG tank bracket
Return to set tilt
TouchPoint hydraulic mini-levers with fully adjustable armrest
Rear drive handle with horn button
Full suspension seat - vinyl or cloth
Swivel full-suspension seat - vinyl or cloth
High-visibility non-cinch seat belt with or without interlock
Impact monitor with immediate or delayed shutdown
Load weight display
Operator pre-shift checklist
Dual-inch brake pedals
Operator password protection
Audible reverse activated 82-102 dB(A) self-adjusting alarm
Visible amber LED strobe light - continuously activated, overhead guard mounted
Parts publications - printed or CD, serial number specific
UL Classification D, LPS, DS
Various light packages available with halogen or high intensity LED:


- Two front and one rear work lights
- Two front, one rear work light and two brake/tail/back-up lights





Hyster Company
P.O. Box 7006
Greenville, North Carolina
27835-7006
Part No. S80-120FT/TG
7/2016 Litho in U.S.A.

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