

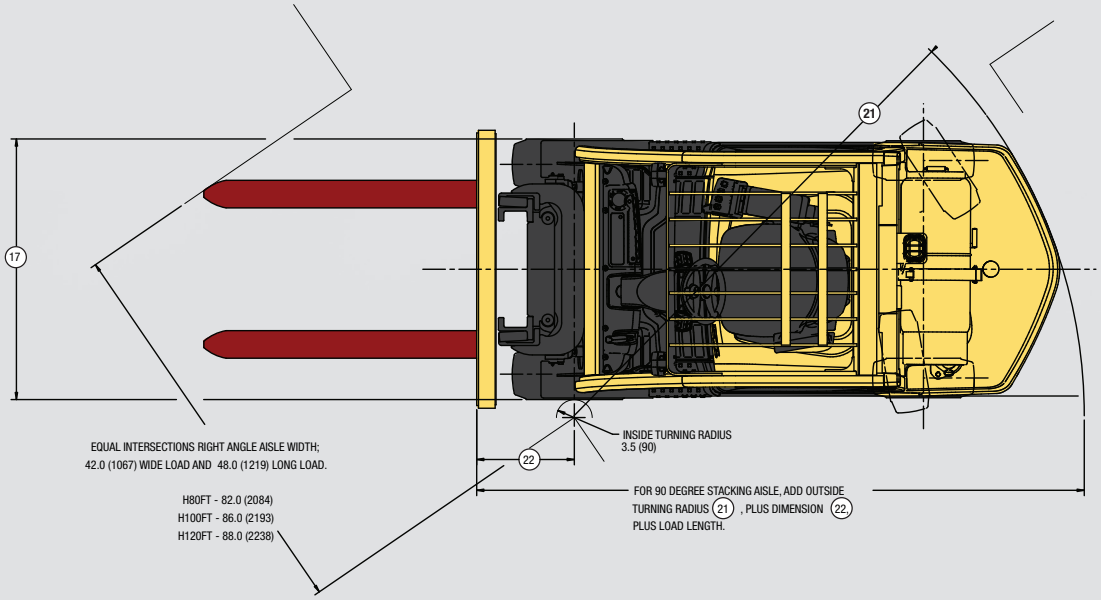
HYSTER

STRONG PARTNERS.
TOUGH TRUCKS.™

S80-120FT SERIES TECHNICAL GUIDE

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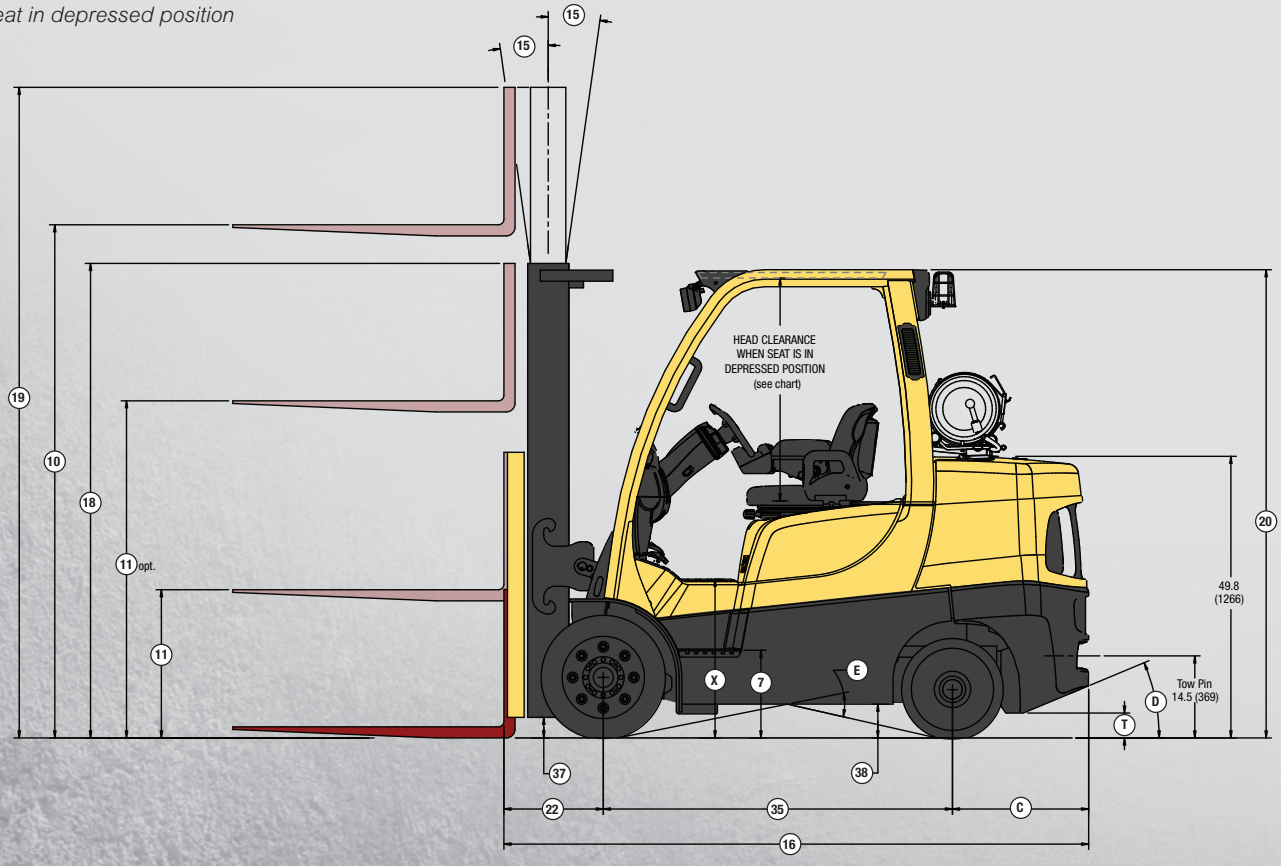
S80FT DIMENSIONS



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).

S80FT 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
	9	Wheels, Number - Front/ Rear		X driven	2x/2
DIMENSIONS	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)
	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)
PERFORMANCE†	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)
		Lift Speed, Optional 3-Stage FFL RL/NL		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)
		Lowering Speed, Optional 3-Stage FFL RL/NL		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)
		Drawbar Pull @ 1 mph RL/NL	1-Speed	lb (kg)	6173/2878 (2800/1306)
			2-Speed	lb (kg)	7162/2878 (3249/1306)
	29	Max Gradeability RL/NL ††	1-Speed	%	37/23
			2-Speed	%	46/23
		Gradeability @ 1 mph RL/NL ††	1-Speed	%	31/23
			2-Speed	%	37/23
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL		lb (kg)	12650 (5738)
		Weight, Standard Truck (Standard 2-Stg. LFL) RL		lb (kg)	20650 (9367)
	32	Axle Loading, Static Front/Rear NL		lb (kg)	4797/7853 (2176/3562)
		Axle Loading, Static Front/Rear RL		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
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)	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)

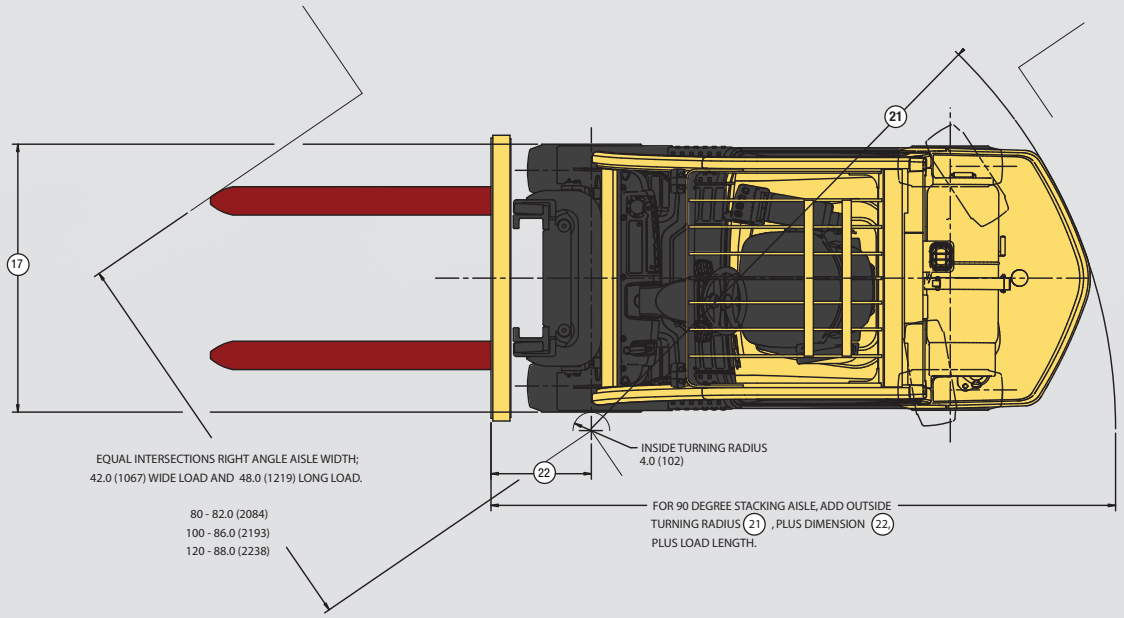
CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift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

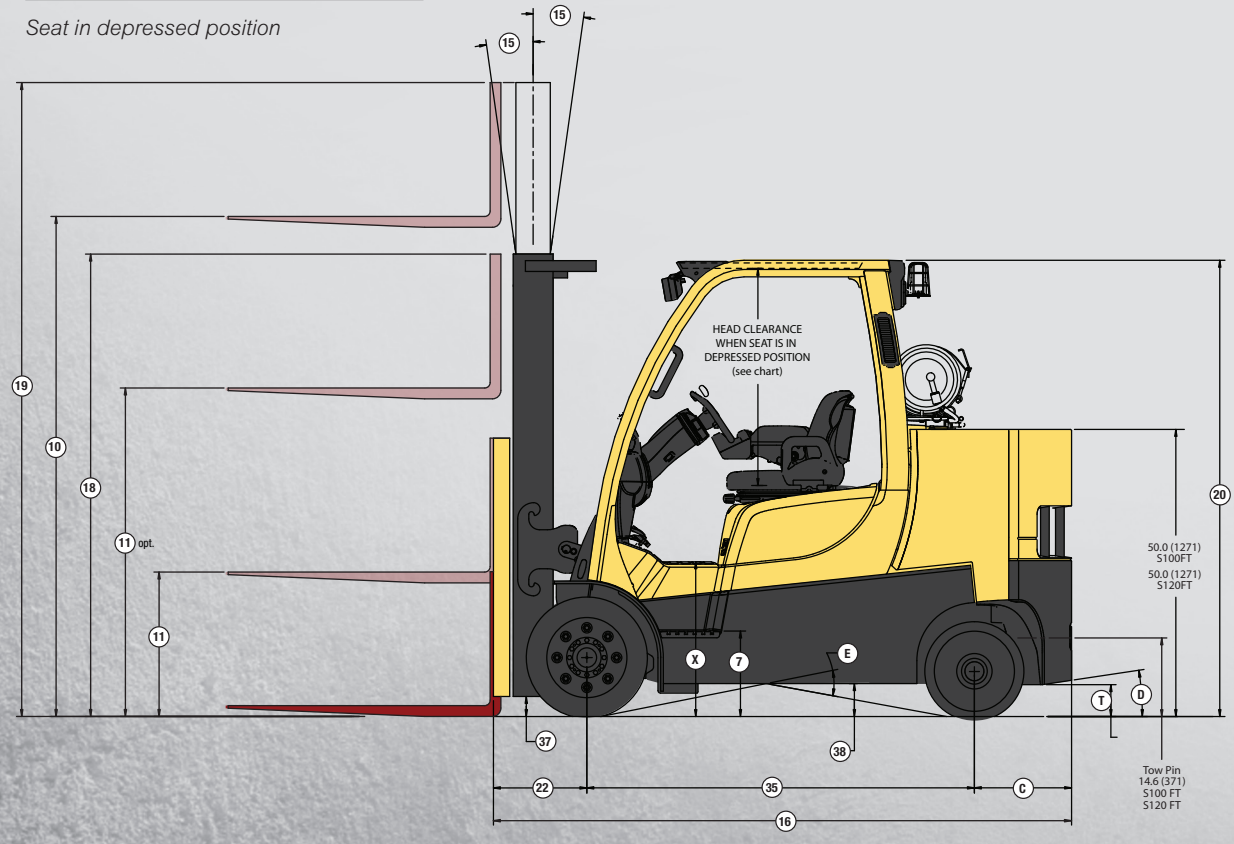
S100-120FT DIMENSIONS



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).

S100FT 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
	9	Wheels, Number - Front/ Rear	X driven	2x/2
DIMENSIONS	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)	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)	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	mph (km/h)	10.5/10.5 (16.9/17)
		2-Speed	mph (km/h)	13.5/13.7 (21.7/22.1)
	26	Lift Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	110/112 (.56/.57)
		Lift Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	102/106 (.52/.54)
		Lift Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	106/108 (.54/.55)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	100/83 (.51/.42)
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	89/63 (.45/.32)
		Lowering Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	93/77 (.47/.39)
	28	Max Drawbar Pull RL/NL 1-Speed	lb (kg)	7851/3803 (3561/1725)
		2-Speed	lb (kg)	9429/3803 (4277/1725)
		Drawbar Pull @ 1 mph RL/NL 1-Speed	lb (kg)	6732/3803 (3054/1725)
		2-Speed	lb (kg)	7800/3803 (3538/1725)
	29	Max Gradeability RL/NL †† 1-Speed	%	33/26
		2-Speed	%	40/26
		Gradeability @ 1 mph RL/NL †† 1-Speed	%	28/26
		2-Speed	%	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 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 (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)

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

S120FT 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
	9	Wheels, Number - Front/ Rear	X driven	2x/2
DIMENSIONS	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)	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)	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	mph (km/h)	10.4/10.5 (16.8/16.9)
		2-Speed	mph (km/h)	13.4/13.7 (21.6/22)
	26	Lift Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	110/112 (.56/.57)
		Lift Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	102/106 (.52/.54)
		Lift Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	106/108 (.54/.55)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	100/83 (.51/.42)
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	89/63 (.45/.32)
		Lowering Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	93/77 (.47/.39)
	28	Max Drawbar Pull RL/NL 1-Speed	lb (kg)	7784/3597 (3531/1631)
		2-Speed	lb (kg)	9363/3597 (4247/1631)
		Drawbar Pull @ 1 mph RL/NL 1-Speed	lb (kg)	6665/3597 (3023/1631)
		2-Speed	lb (kg)	7733/3597 (3508/1631)
	29	Max Gradeability RL/NL †† 1-Speed	%	28/22
		2-Speed	%	35/22
		Gradeability @ 1 mph RL/NL †† 1-Speed	%	24/22
		2-Speed	%	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
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 (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

S120FTS 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
	9	Wheels, Number - Front/ Rear	X driven	2x/2
DIMENSIONS	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)	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	mph (km/h)	10.4/10.5 (16.8/16.9)
		2-Speed	mph (km/h)	13.4/13.7 (21.6/22)
	26	Lift Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	110/112 (.56/.57)
		Lift Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	102/106 (.52/.54)
		Lift Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	106/108 (.54/.55)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	100/83 (.51/.42)
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	89/63 (.45/.32)
		Lowering Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	93/77 (.47/.39)
	28	Max Drawbar Pull RL/NL 1-Speed	lb (kg)	7783/3870 (3530/1756)
		2-Speed	lb (kg)	9362/3870 (4247/1756)
		Drawbar Pull @ 1 mph RL/NL 1-Speed	lb (kg)	6664/3870 (3023/1756)
		2-Speed	lb (kg)	7732/3870 (3507/1756)
	29	Max Gradeability RL/NL †† 1-Speed	%	28/24
		2-Speed	%	34/24
		Gradeability @ 1 mph RL/NL †† 1-Speed	%	24/24
		2-Speed	%	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
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)

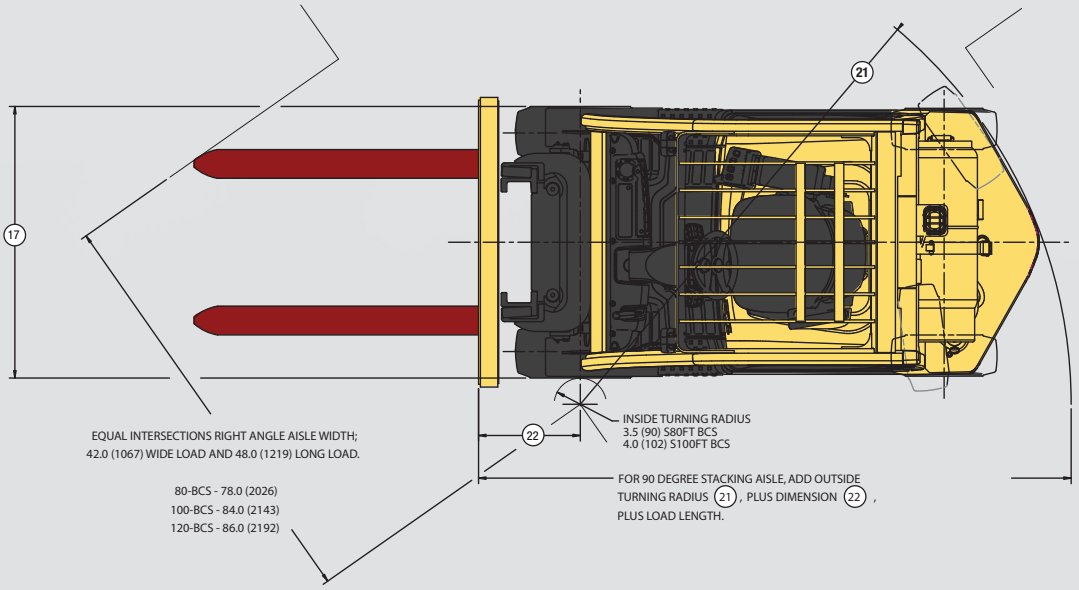
CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift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

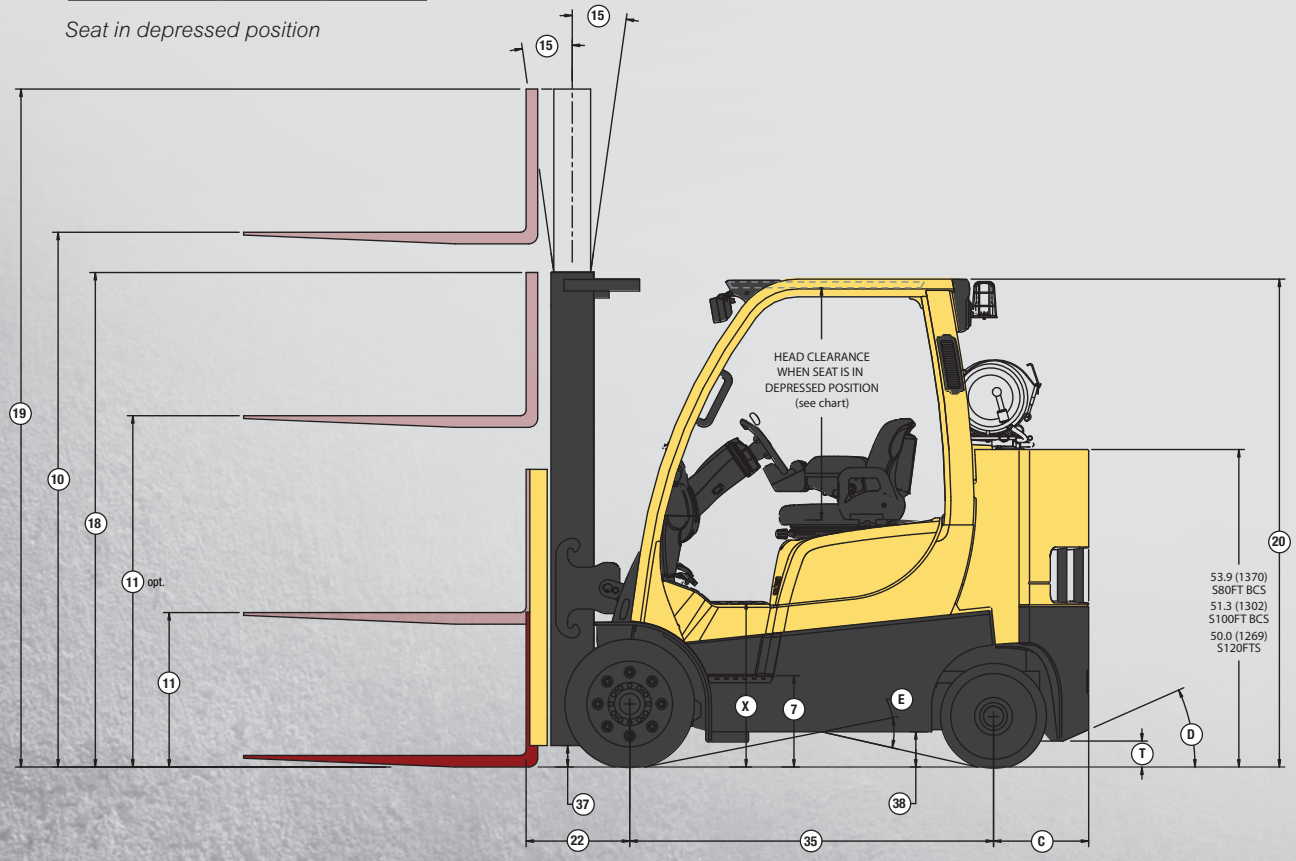
S80-100FT BCS / S120FTS DIMENSIONS



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

TRUCK MODEL	C	D	E	T	X
	in (mm)	percent	degrees	in (mm)	in (mm)
S80FT BCS	16.1 (410)	44%	25.2	4.4 (112)	28.1 (714)
S100FT BCS	21.6 (549)	42%	22.2	5.9 (151)	28.3 (718)
S120FTS	17.6 (447)	37%	21	5.9 (151)	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).

S80-100FT BCS SPECIFICATIONS

GENERAL	1	Manufacturer Name		Hyster Company	
	2	Model		S80FT BCS	S100FT BCS
		Engine		Kubota 3.8L LPG	
	3	Rated Capacity	lb (kg)	8000 (3629)	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	
	9	Wheels, Number - Front/ Rear	X driven	2x/2	
DIMENSIONS	10	Lift Height, Top of Fork (TOF)	in (mm)	120 (3050)	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 (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)	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)	95.6 (2427)	101.2 (2571)
	17	Overall Width, Standard Tread	in (mm)	46.1 (1170)	52.0 (1320)
		Overall Width, Wide Tread	in (mm)	50.0 (1270)	55.9 (1420)
	18	Height, Standard Mast - Lowered	in (mm)	84 (2134)	85 (2138)
	19	Height, Standard Mast - Extended with LBR	in (mm)	169 (4284)	159 (4031)
		Height, Standard Mast - Extended without LBR	in (mm)	149 (3783)	144 (3657)
	20	Height, Standard Overhead Guard	in (mm)	86 (2171)	86 (2175)
		Height, Optional Overhead Guard	in (mm)	83 (2104)	83 (2108)
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	82.8 (2102)	87.9 (2232)
	22	Length, Center of Wheel to Face of Forks	in (mm)	17.6 (447)	17.8 (452)
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	100.4 (2549)	105.7 (2684)
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	79.4 (2017)	84.1 (2136)
PERFORMANCE†	25	Travel Speed RL/NL 1-Speed	mph (km/h)	10.7/10.7 (17.2/17.2)	10.5/10.5 (16.9/17)
		2-Speed	mph (km/h)	13.7/13.9 (22.1/22.4)	13.5/13.7 (21.7/22.1)
	26	Lift Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	120/122 (.61 /.62)	110/112 (.56/.57)
		Lift Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	106/108 (.54/.55)	102/106 (.52/.54)
		Lift Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	112/114 (.57/.58)	106/108 (.54/.55)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	93/108 (.47/.55)	100/83 (.51/.42)
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	71/98 (.36/.50)	89/63 (.45/.32)
		Lowering Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	87/104 (.44/.53)	93/77 (.47/.39)
	28	Max Drawbar Pull RL/NL 1-Speed	lb (kg)	7118/3333 (3229/1512)	7835/3328 (3554/1510)
		2-Speed	lb (kg)	8550/3333 (3878/1512)	9413/3328 (4270/1510)
		Drawbar Pull @ 1 mph RL/NL 1-Speed	lb (kg)	6159/3333 (2794/1512)	6715/3328 (3046/1510)
		2-Speed	lb (kg)	7148/3333 (3242/1512)	7783/3328 (3531/1510)
	29	Max Gradeability RL/NL †† 1-Speed	%	35/26	31/21
		2-Speed	%	44/26	39/21
		Gradeability @ 1 mph RL/NL †† 1-Speed	%	30/26	27/21
		2-Speed	%	36/26	31/21
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	13340 (6051)	16164 (7332)
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	21340 (9680)	26164 (11868)
	32	Axle Loading, Static Front/Rear NL	lb (kg)	5555 / 7785 (2520 / 3531)	5546 / 10618 (2516 / 4816)
		Axle Loading, Static Front/Rear RL	lb (kg)	18940 / 2400 (8591 / 1089)	22373 / 3791 (10148 / 1720)
TIRES & WHEELS	33	Tire Size, Front		22 X 9 X16	22 X 12 X16
	34	Tire Size, Rear		18 X 7 X 12.2	18 X 8 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	
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)	74 (55) @ 1800 RPM	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)	

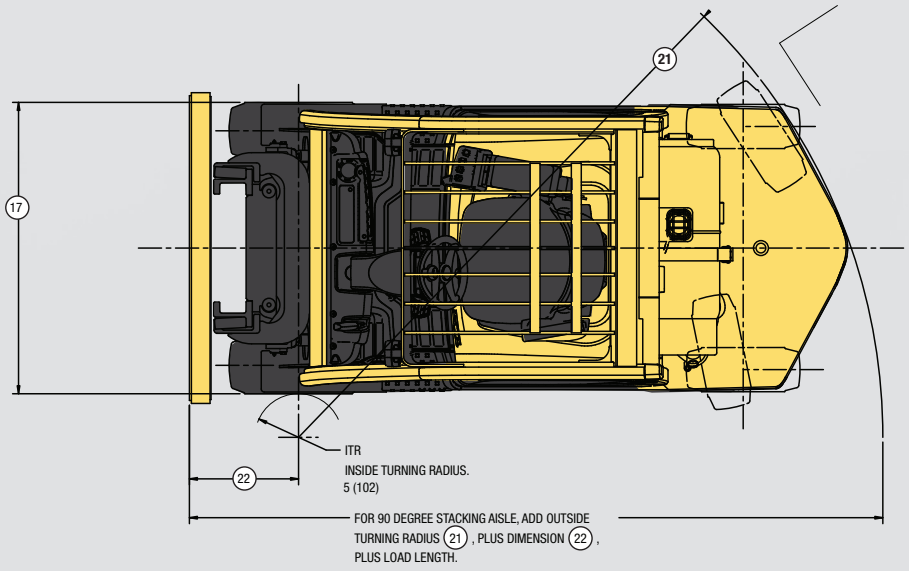
CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift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

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RL = Rated Load, NL = No Load

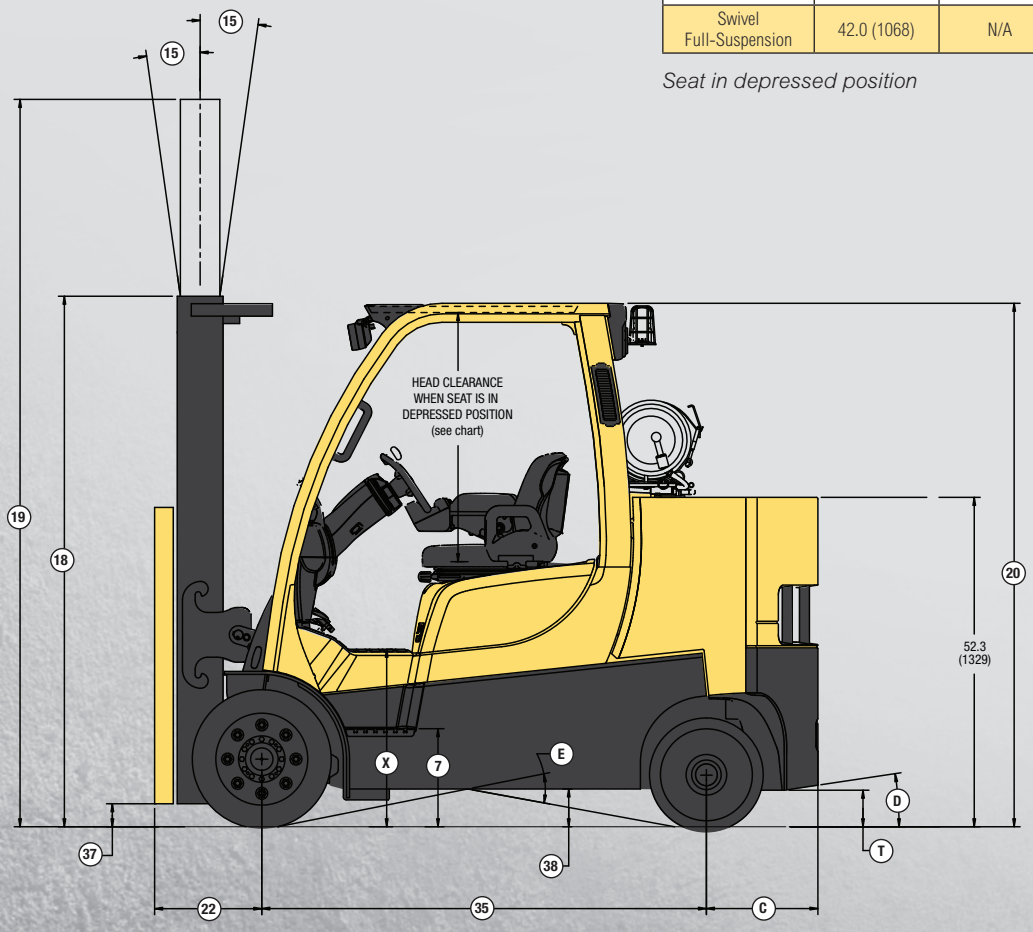
S120FT PRS DIMENSIONS



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 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

Seat in depressed position



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

S120FT 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
	9	Wheels, Number - Front/ Rear	X driven	2x/2
DIMENSIONS	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)
	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
PERFORMANCE†	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)
		Lift Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	102/106 (.52/.54)
		Lift Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	106/108 (.54/.55)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	100/83 (.51/.42)
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s)	89/63 (.45/.32)
		Lowering Speed, Optional 3-Stage FFL RL/NL	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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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)
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)

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

- Kubota 3.8L, 4 cylinder spark ignited engine
- 1 speed powershift transmission
- Electronic inching
- Heavy duty premium wet disc brakes
- 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

- DuraMatch 2 speed electronically controlled transmission
- Electronic inching
- Electronic shift control
- Controlled roll back on ramps
- Controlled power reversal
- Auto deceleration
- 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 80
FORTIS



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