

S80-120FT SERIES

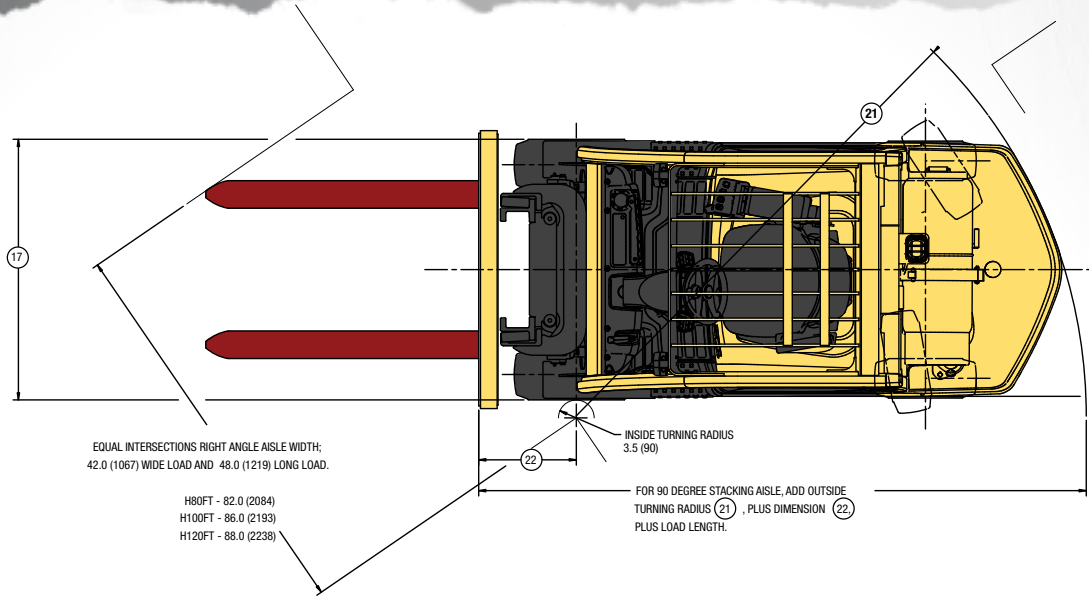


**STRONG PARTNERS.
TOUGH TRUCKS.™**

TECHNICAL GUIDE

Sit-down, Counterbalanced, IC, Cushion Tire

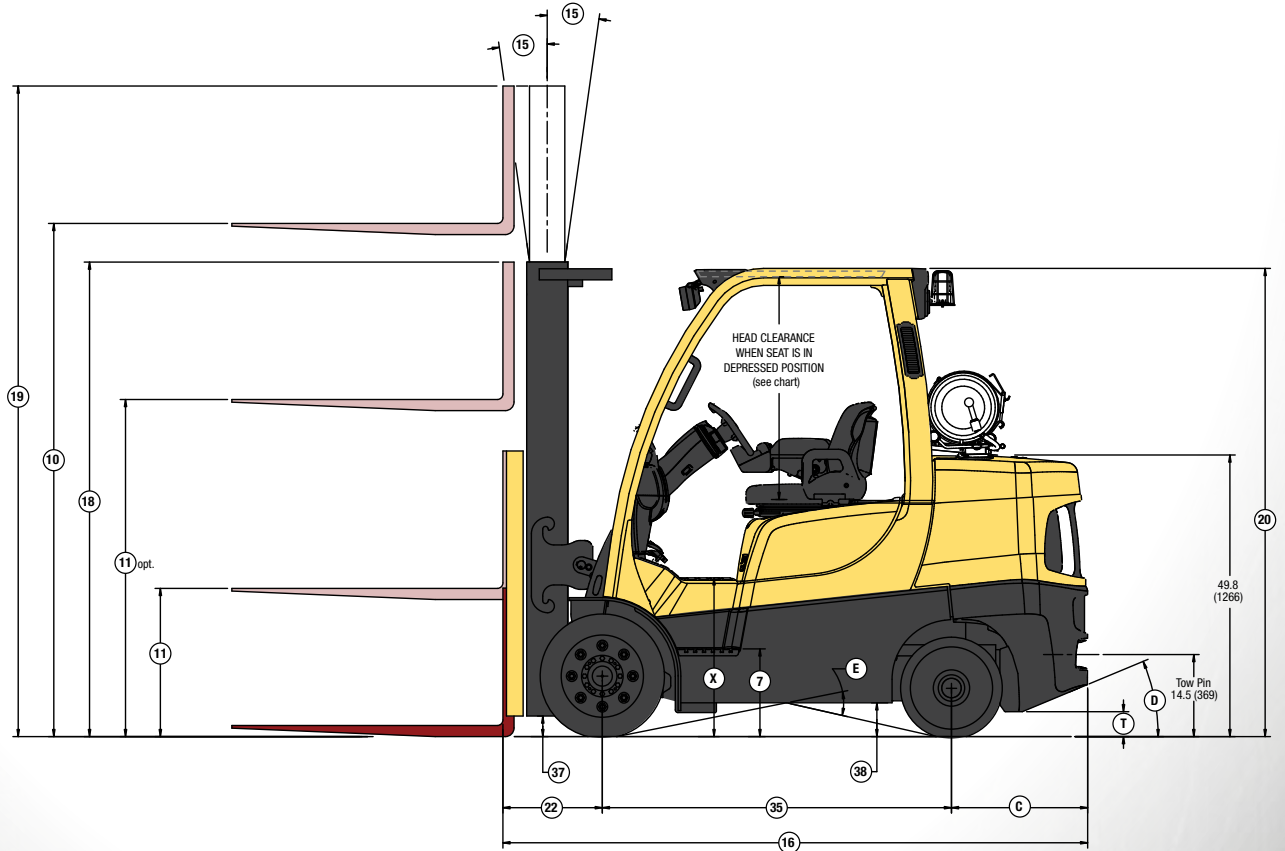
S80FT DIMENSIONS



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	
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)	
	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 2-Speed	mph (km/h) mph (km/h)
					10.7/10.7 (17.2/17.2) 13.7/13.9 (22/22.4)
		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)	
				7132/2878 (3235/1306) 8563/2878 (3884/1306) 6173/2878 (2800/1306) 7162/2878 (3249/1306)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
		Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%	
				37/23 46/23 31/23 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	
	41	Battery Type		Maintenance Free	
	42	Volts/Cold Cranking Amps	v/cca	12/475	
	POWERTRAIN	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)	

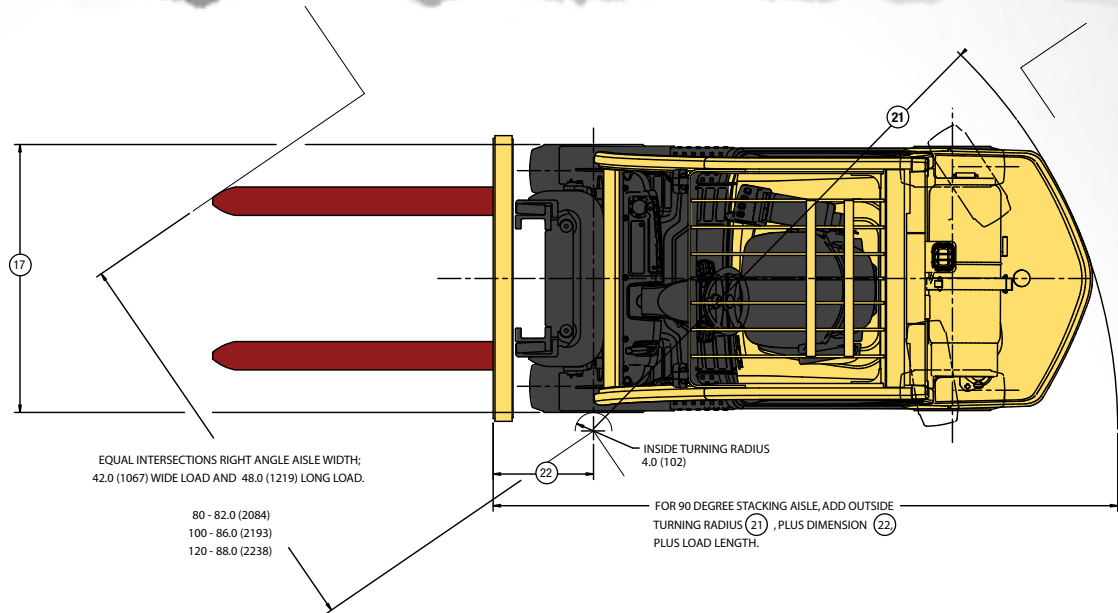
CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift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

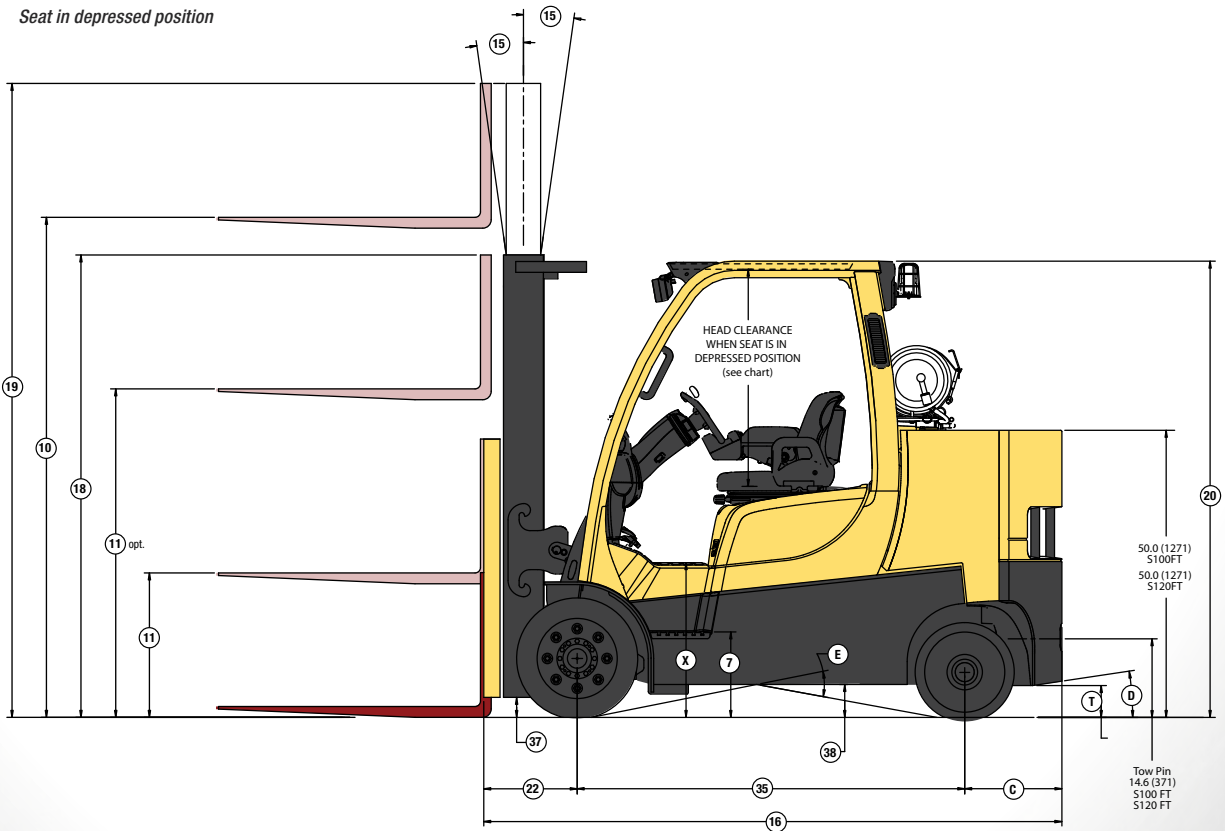
S100-120FT DIMENSIONS



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	
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)	
		Drawbar Pull @ 1 mph RL/NL	1-Speed 2-Speed	lb (kg)	
				7851/3803 (3561/1725) 9429/3803 (4277/1725) 6732/3803 (3054/1725) 7800/3803 (3538/1725)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
		Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%	
				33/26 40/26 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 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

S120FT SPECIFICATIONS

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 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

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	
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)	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)	
		Drawbar Pull @ 1 mph RL/NL	1-Speed 2-Speed	lb (kg)	
				7783/3870 (3530/1756) 9362/3870 (4247/1756) 6664/3870 (3023/1756) 7732/3870 (3507/1756)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
		Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%	
				28/24 34/24 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	
	42	Volts/Cold Cranking Amps	v/cca	12/475	
POWERTRAIN	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)	

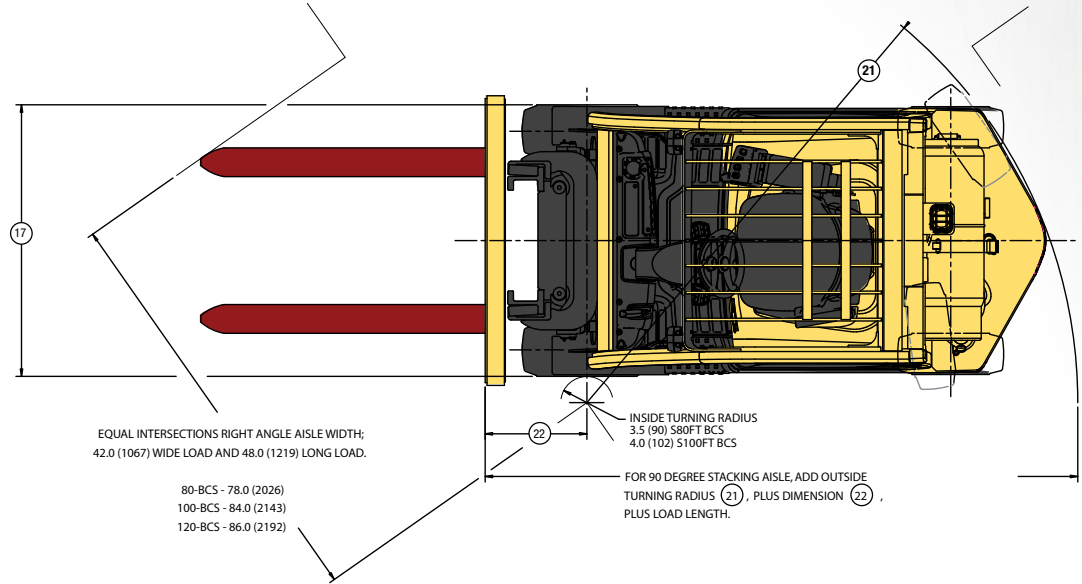
CERTIFICATION: These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift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

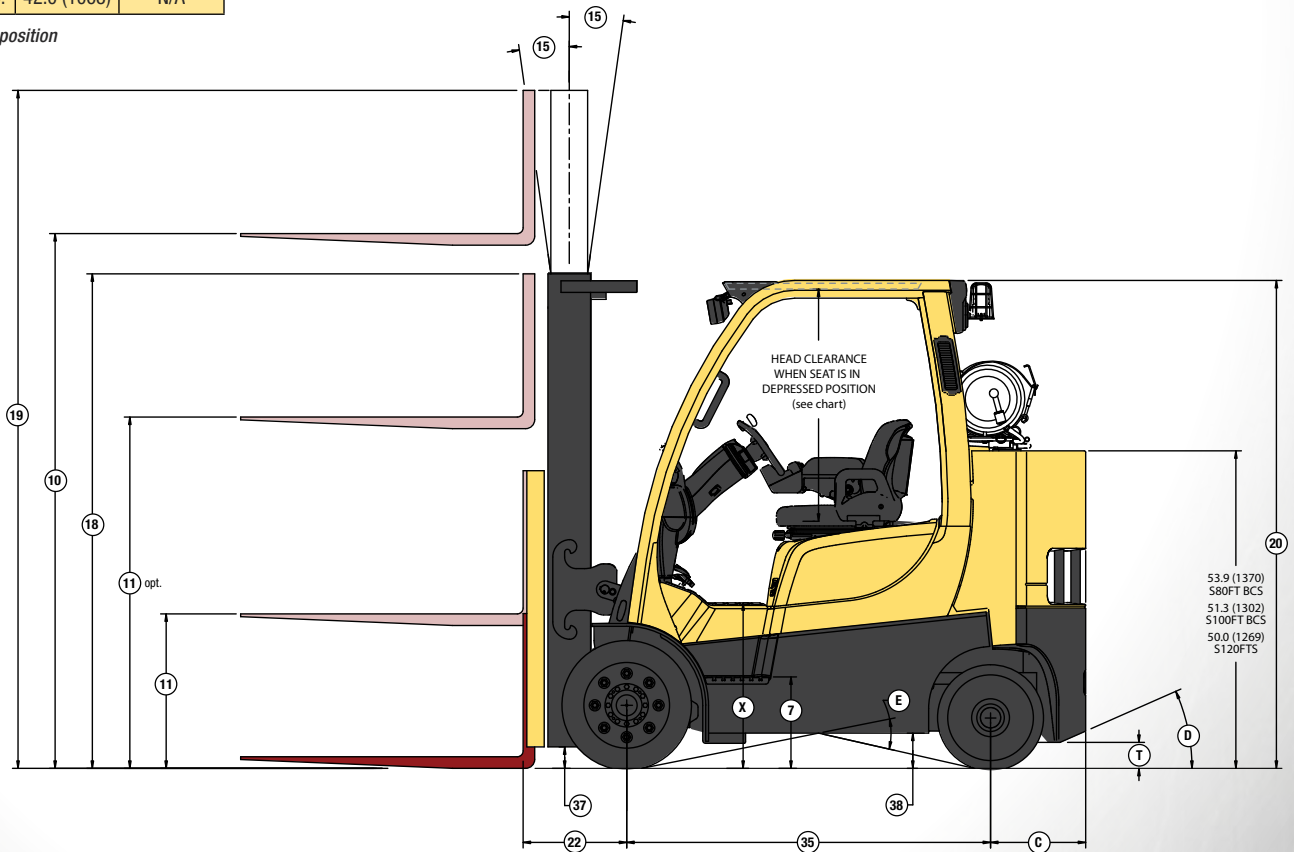
S80-100FT BCS / S120FTS DIMENSIONS



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

		Hyster Company		
GENERAL	1	Manufacturer Name		
	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	
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven 2x/2	
	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	
	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 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)	

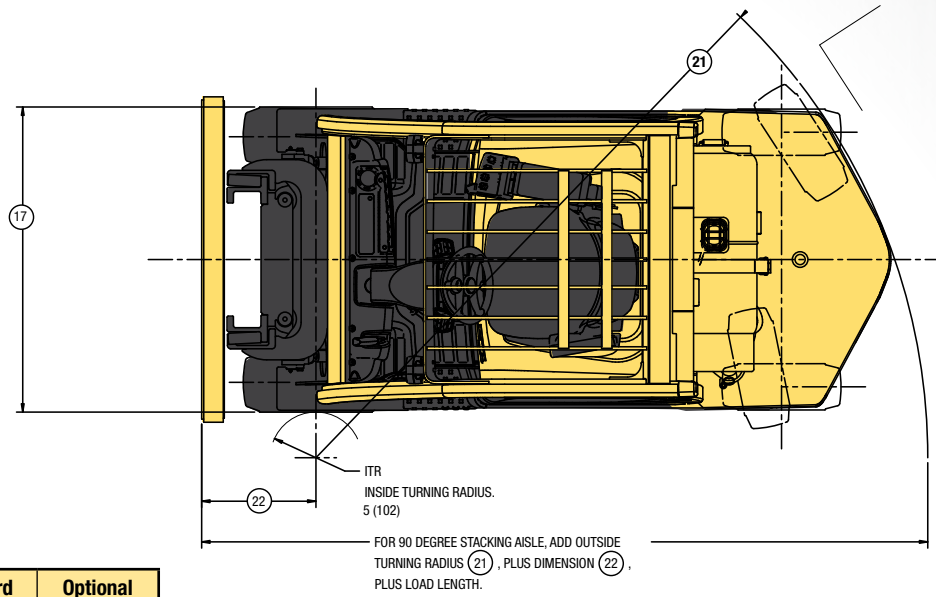
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†† Limited by traction. For further information on this dimension, please contact your local Hyster dealer.

RL = Rated Load, NL = No Load

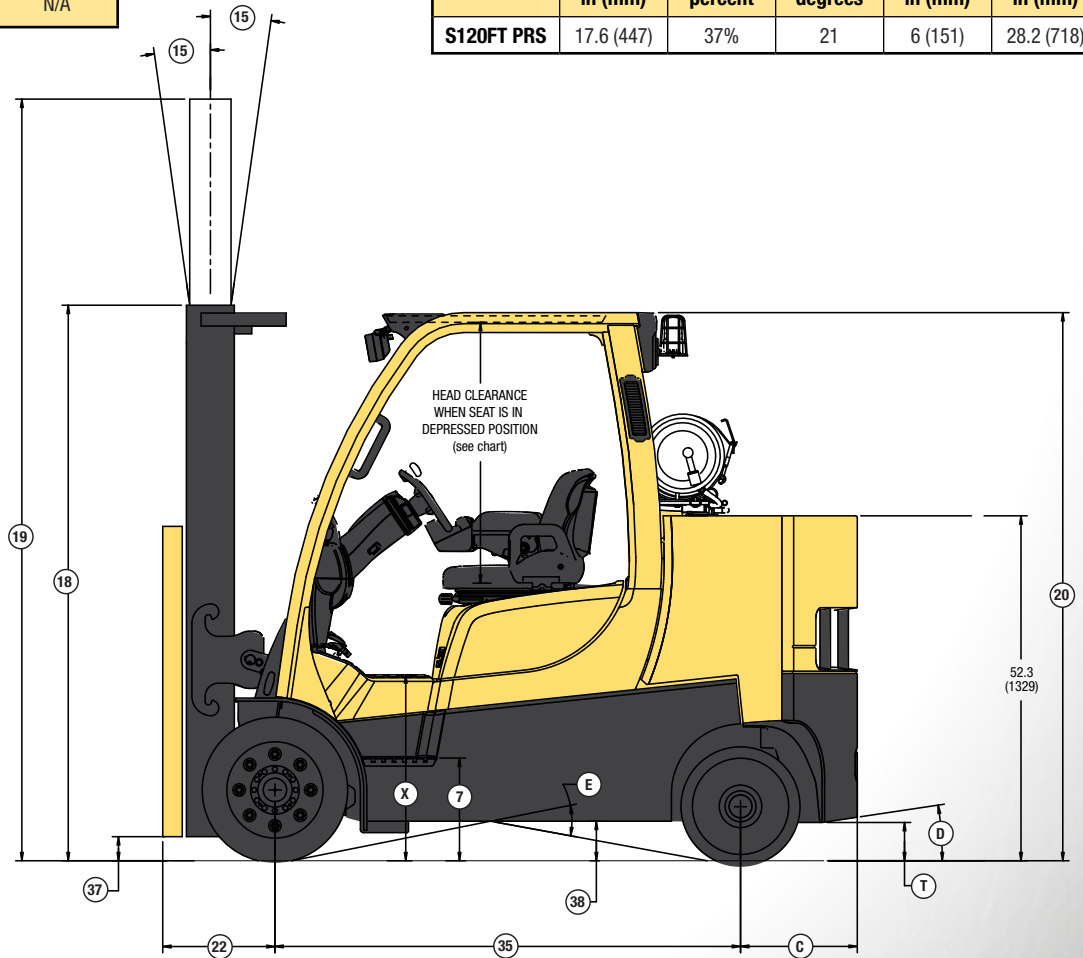
S120FT PRS DIMENSIONS



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

Seat in depressed position

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)



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	
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)	
	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 2-Speed	mph (km/h) mph (km/h)
					10.4/10.5 (16.8/16.9) 13.4/13.7 (21.5/22)
		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)	
				7757/4064 (3519/1843) 9336/4064 (4235/1843) 6637/4064 (3011/1843) 7705/4064 (3495/1843)	
29		Max Gradeability RL/NL ††	1-Speed 2-Speed	%	
		Gradeability @ 1 mph RL/NL ††	1-Speed 2-Speed	%	
				27/23 33/23 23/23 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	
	41	Battery Type		Maintenance Free	
	42	Volts/Cold Cranking Amps	v/cca	12/475	
POWERTRAIN	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

MAST DIMENSIONS

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 LPG engine
- Electronic powershift transmission
 - Electronic inching
 - Electronic shift control
- Premium wet disc brakes
- MONOTROL® pedal
- 2-stage limited free-lift (LFL) VISTA™ mast with maximum fork height of 120" (3050 mm) (S80FT and S80FT BCS) or 110" (2800 mm) (S100-120FT and S120FTS)
- 42.0" (1067 mm) wide hook-type carriage with 48.0" (1219) tall load backrest
- 42.0" (1067 mm) long forks
- 5 degrees forward and 6 degrees backward mast tilt
- 3-function hydraulic control valve
- Integrated dashboard display includes:
 - LCD display:
 - Hour meter
 - Coolant temperature
 - Clock
 - Messages
 - Service indicator lights:
 - Alternator
 - Transmission oil temperature
 - Engine oil pressure
 - Brake fluid level
 - Fasten seat belt
 - Engine malfunction
 - System malfunction
 - Park brake
 - Coolant temp
 - Forward, reverse and neutral direction indicators
- Hydrostatic power steering
- Non-suspension vinyl seat
- Electronic horn
- Adjustable steer column
- Rubber floor mat
- High air intake
- Integral tie downs
- Operator restraint system
- Heavy duty anti-clog radiator
- Single pedal inch brake
- Hyster Stability System (HSS®)
- Cowl-mounted hydraulic control levers
- Swing out LPG tank bracket
- 86" (2175 mm) standard overhead guard
- 83" (2108 mm) optional overhead guard
- 12 months / 2,000 hours manufacturer's warranty
- 36 months / 6,000 hours manufacturer's powertrain warranty
- Operator's manual
- UL Classification LP

OPTIONS

- Techtronix transmission
 - Auto deceleration system
 - Controlled power reversal feature
 - Controlled roll back on ramps
- Optional Techtronix two-speed transmission
 - Higher gradeability and drawbar pull performance
 - Additional forward speed
 - Increased travel speeds
- Powertrain protection system
- Premium electronic monitoring
- High air intake with precleaner
- TouchPoint mini-lever, electro-hydraulic control with on-demand hydraulic system
- On-demand cooling system
- Full venting package
- Accumulator
- Keyless start (with auxiliary key switch)
- Traction speed limiter (included w/DuraMatch™)
- Paper applications kit
- Swing-out, drop-down EZXchange LPG tank bracket
- Return to set tilt
- Rear drive handle with horn button
- Semi-suspension seat - vinyl or cloth
- Full-suspension seat - vinyl or cloth
- Swivel full-suspension seat - vinyl or cloth
- Various light packages with halogen or high intensity LED's
 - Two front, and one rear work light
 - Two front, one rear work lights and two LED brake/tail/back-up lights
- High-visibility non-cinch seat belt with or without interlock
- Impact monitor
- Load weight display
- Operator pre-shift checklist
- Dual inch brake pedals
- Password protection
- Audible reverse activated 82-102 dB(A) self-adjusting alarm
- Visible amber strobe light - continuous activated, overhead guard mounted
- Parts publications – printed or CD, serial number specific
- UL Classification LPS

STANDARD FEATURES AND OPTIONS

CAPACITY:

Model S80FT: 8,000 lbs. at 24.0" (3636 kg at 610 mm) load center.
Model S100FT: 10,000 lbs. at 24.0" (4545 kg at 610 mm) load center.
Model S120FT: 12,000 lbs. at 24.0" (5454 kg at 610 mm) load center.

Rated capacities are for trucks equipped with:

- 3-stage full free-lift (FFL) VISTA™ mast to 171.5" (4,356 mm) max. fork height
- 42.0" (1,067 mm) hook-type carriage with 42.0" (1,067 mm) long forks
- 48.0" tall load backrest (LBR)
- Standard tread

MASTS

Masts are available in 2-stage limited free (LFL) lift and 2- or 3-stage full free-lift (FFL) VISTA™ masts. Masts feature flush-faced, nested-channel design and full-radius, angled load rollers provide increased capacity at height while affording shorter overall length.

CARRIAGE

Carriages are hook-type, ITA Class III mounting (S80FT, S80FT BCS), ITA Class IV (S100-120FT, S100FT BCS, S120FT PRS). Overall width without load backrest (LBR) is 42.0" (1067 mm); with LBE is 43.27" (1099 mm). Minimum inside-to-inside fork spacing, center to center is 5.1" (130 mm). Maximum outside-to-outside fork spacing, center to center is 33.5" (845 mm) for S80FT and 32.0" (810 mm) for S100FT and S120FT.

FORKS

S80FT lift trucks feature: 2.0" x 5.0" x 36.0" to 60.0" (50 x 125 x 915 to 1,525 mm) long pallet forks.

S100FT lift trucks feature: 2.0" x 6.0" x 36.0" to 72.0" (50 x 150 x 915 to 1,830 mm) long pallet forks.

S120FT lift trucks feature: 2.5" x 6.0" x 36.0" to 72.0" (60 x 150 x 915 to 1,830 mm) long pallet forks.

Polished and full bottom tapered forks are also available.

KUBOTA 3.8L SPARK-IGNITED LPG ENGINE:

- Hyster® Variable Power Technology™ featuring two performance modes
- Diesel conversion design featuring a 10:1 compression ratio
- Individual coil-over-plug ignition
- Deep skirt engine block
- Gear driven engine timing
- Cast iron block and cylinder head
- 12.9 quart oil pan with oil cooler
- Dual engine performance modes
- 80 amp alternator
- 500 hour service intervals

TRANSMISSION

- One-speed powershift: Single range powershift, electronic inching (requires no adjustment), electric shift control, neutral start switch, and anti-restart protection
- DuraMatch™: All of the features of the standard electronic transmission plus Auto Deceleration System, controlled power reversal, controlled roll back on ramps
- Both transmissions are also available with 2 forward speeds for increased gradeability and travel speeds

COOLING SYSTEM

- Two cooling system designs, depending on transmission configuration:
 - Heavy duty square-wave anti-clog
 - Square wave anti-clog combi-cooler
- Combi-cooler contains an externally mounted transmission oil cooler to aid in heat dissipation
- Optional on-demand cooling system virtually eliminates virtually eliminates the possibility of overheating by keeping the engine and transmission running in their optimum temperature ranges. Cooling fan periodically performs a reversal cycle to clear radiator debris.
- All radiators utilize cross-flow aluminum cores, pushed type fans and permanently lubricated water pumps
- "Knife-edge" type fan shrouds direct air flow through the counterweight air passages
- 15 psi operating system pressure

ELECTRICAL SYSTEM

- CANbus electrical system simplifies truck wiring and enhances truck dependability
- IPP 66 sealed automotive style electrical connectors
- Standardized wire routing, all wires are color coded, and marked with numbers for easy identification
- Vehicle System Manager (VSM) directly or indirectly controls all electrical functions except those controlled by the Engine Control Unit (ECU)
- 12-volt maintenance free battery provides 475 cold cranking amps (cca) for easy starts
- On-board diagnostics monitoring and feedback

HYDRAULIC SYSTEM

- Manual hydraulic control valve & electro-hydraulic control valve
- Optional on-demand hydraulic system pumps oil only when needed for advanced fuel economy and extended component life.
- O-Ring face seal fittings are used on all high pressure connections
- Hydraulic lift system operates at 3200 psi (221 bar)
- Tilt and auxiliary systems have 2,250 psi (15.5 Mpa) relief pressure in all valve variations
- Hydraulic system is protected by a replaceable 10-micron element in-tank filter assembly
- 100 Mesh suction line strainer
- Hydraulic breather filter includes an anti-splash baffle and is rated at three micron
- Emergency lowering valve allows load to be lowered in the event of battery power loss.

STEER AXLE / STEER SYSTEM

- Equal-area, double-ended, hydrostatic steering cylinder is mounted in cast ductile iron axle frame
- Elastomeric axle mounts absorb shock and allow lubrication free articulation
- Axle assembly utilizes synthetic boots and seals to retain lubricants and shield components against destructive grit and reduce lube points
- Wheel hubs rotate on large, tapered roller bearings.
- Top spindle bearings lubricated through easy access lube fittings
- Hydrostatic steer system provides smooth, low-effort, precise steering with only 4 turns lock-to-lock
- Hyster Stability System (HSS®) enhances lateral stability by limiting steer axle articulation without a compromise in uneven surface travel

BRAKES

- Standard premium wet disc brakes require little maintenance yet provide extremely long service life and are protected from dirt and moisture
- The force cooled system is designed to handle continuous, high load, high cycle applications with lots of braking events and in the worst conditions.
- Single circuit master cylinder with sealed fluid reservoir and magnetic fluid level sensor
- Ratchet-type, hand-activated parking brake lever allows controlled application
- The force cooled system is designed to handle continuous, high load, high cycle applications with lots of braking events and in the worst conditions.

OPERATOR COMPARTMENT


- Cowl-mounted hydraulic control levers
- TouchPoint electro-hydraulic seat side mini-levers with on-demand hydraulics
- 12-inch textured steering wheel with spinner knob
- Automotive style foot controls with single braking/inching pedal (dual pedals optional)
- Integrated dashboard display is backlit, allowing easy visibility under all lighting conditions
- Grid-style overhead guard offers good visibility at extended heights
- Infinitely adjustable tilt steer column
- Optimal 15.6" entry step height on both sides of the truck
- MONOTROL® pedal controls engine speed and truck direction, freeing operator's hands to operate steering and hydraulic levers

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



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