

H80-120FT SERIES

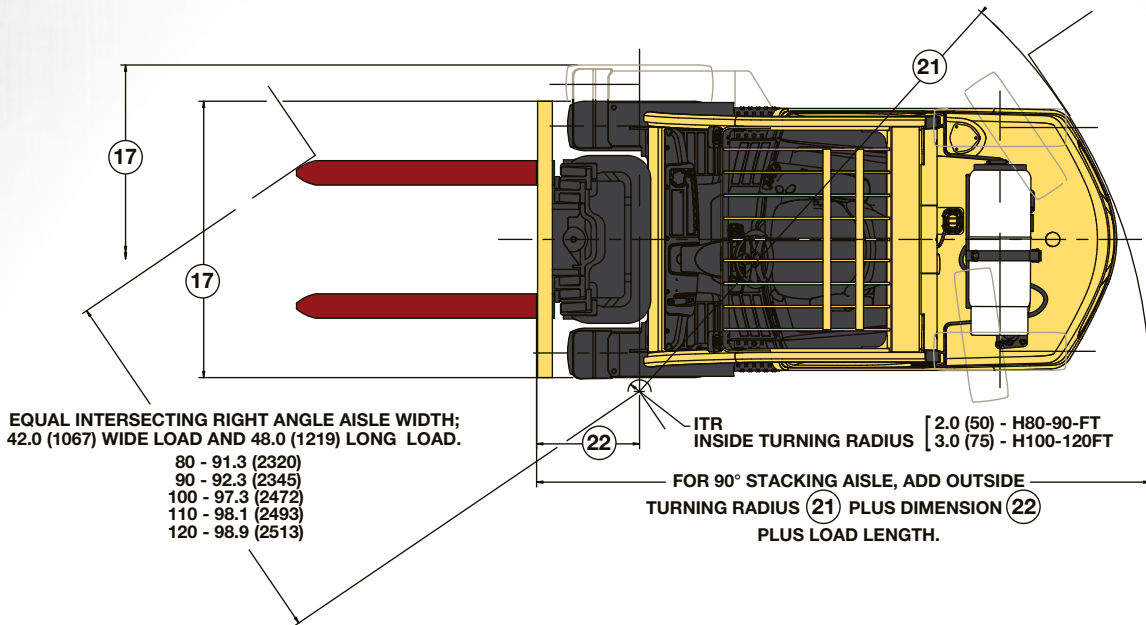


**STRONG PARTNERS.
TOUGH TRUCKS.™**

TECHNICAL GUIDE

Sit-down, Counterbalanced, IC, Pneumatic Tire

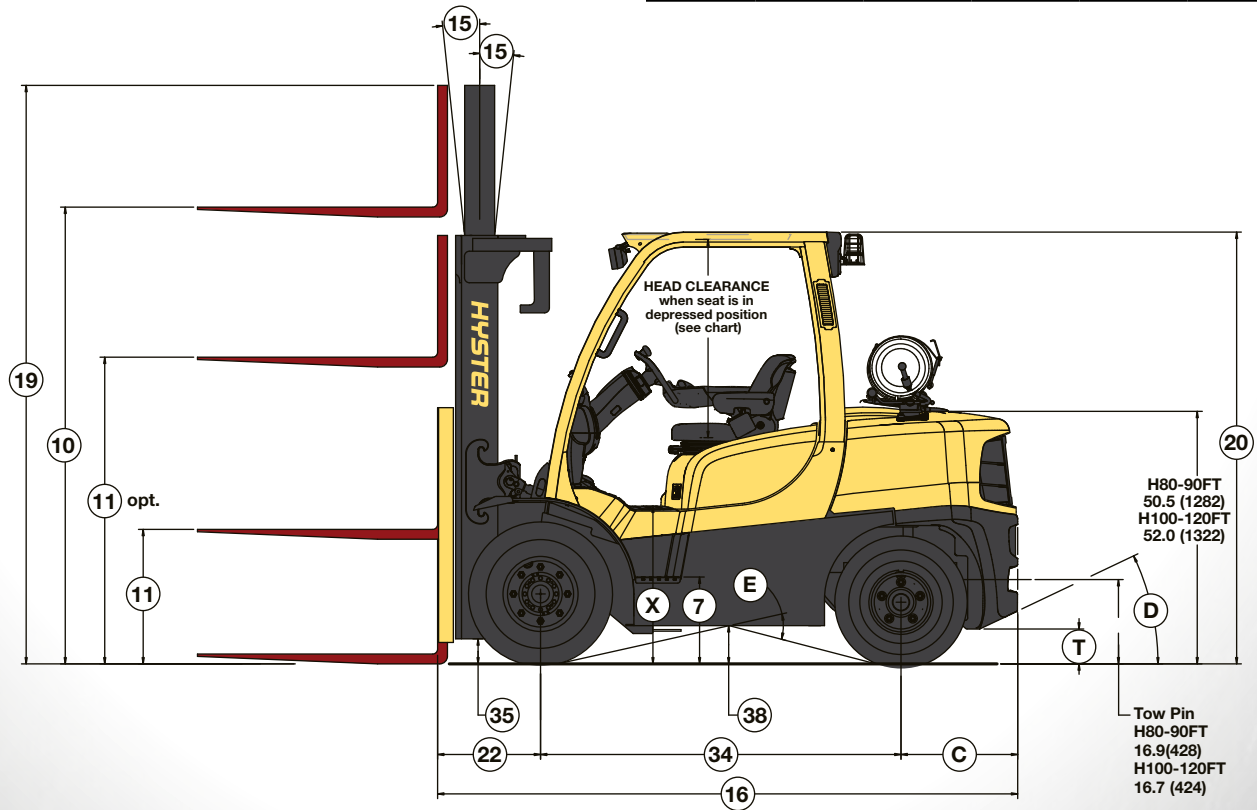
H80-120FT SPECIFICATIONS



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	percent	in (mm)	in (mm)
H80FT	23.3 (593)	52%	53%	7.0 (177)	31.5 (801)
H90FT	25.4 (645)	48%	53%	7.0 (177)	31.5 (801)
H100FT	22.3 (566)	46%	58%	6.4 (163)	33.2 (844)
H110FT	24.0 (609)	46%	58%	6.4 (163)	33.2 (844)
H120FT	25.6 (650)	40%	58%	6.4 (163)	33.2 (844)



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

H80FT SPECIFICATIONS

		Hyster Company					
GENERAL	1	Manufacturer Name	Hyster Company				
	2	Model	H80FT				
		Engine	GM 4.3L	Kubota 3.8L LPG	Kubota 3.8L DSL		
	3	Rated Capacity	8000 (3629)				
	4	Load Center, Distance	24 (610)				
	5	Power Type	LPG	LPG	Diesel		
	6	Operator Type	Sit-Down Rider				
	7	Step Height	17.4 (441)				
	8	Tire Type - Cushion, Solid, Pneumatic	Pneumatic				
DIMENSIONS	9	Wheels, Number - Front/ Rear	2x/2				
	10	Lift Height, Top of Fork (TOF)	120 (3050)				
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	4 (100)				
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	36 (924)				
	12	Standard Carriage Width	48 (1219)				
	13	Forks, Thickness x Width x Length	2 X 5 X 48 (50 X 125 X 1219)				
	14	Fork Spread, Outside Dimensions	43.5 (1106)				
	15	Mast Tilt Angles, Forward/Backward	6F/10B				
	16	Length To Face of Forks	116 (2946)				
	17	Overall Width, Standard Tread	55.2 (1402)				
		Overall Width, Wide Tread	58.5 (1485)				
	18	Height, Standard Mast - Lowered	86 (2171)				
	19	Height, Standard Mast - Extended with LBR	170 (4297)				
		Height, Standard Mast - Extended without LBR	151 (3815)				
	20	Height, Standard Overhead Guard	89 (2260)				
		Height, Optional Overhead Guard	87 (2193)				
		Height, Overhead Guard with Operator Cab	90 (2281)				
	21	Turning Radius, Minimum Outside (OTR)	101.2 (2570)				
	22	Length, Center of Wheel to Face of Forks	20.6 (523)				
	23	Aisle Width, Right Angle Stack (Add Length of Load)	121.8 (3093)				
	PERFORMANCE +	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	90.6 (2302)			
		25	Travel Speed RL/NL	1-Speed	11.4/11.9 (18.3/19.1)		
				2-Speed	14.2/14.8 (22.9/23.9)		
		26	Lift Speed, Standard 2-Stage LFL RL/NL		120/122 (.61/.62)		
Lift Speed, Optional 2-Stage FFL RL/NL				106/108 (.54/.55)			
Lift Speed, Optional 3-Stage FFL RL/NL				112/114 (.57/.58)			
27		Lowering Speed, Standard 2-Stage LFL RL/NL		108/93 (.55/.47)			
			Lowering Speed, Optional 2-Stage FFL RL/NL	98/71 (.50/.36)			
			Lowering Speed, Optional 3-Stage FFL RL/NL	104/87 (.53/.44)			
28		Max Drawbar Pull RL/NL	1-Speed	5940/3406 (2694/1545)	5784/3406 (2624/1545)	5794/3406 (2628/1545)	
			2-Speed	7200/3406 (3266/1545)	6922/3406 (3140/1545)	6934/3406 (3145/1545)	
		Drawbar Pull @ 1 mph RL/NL	1-Speed	5310/3406 (2409/1545)	4970/3406 (2254/1545)	4964/3406 (2252/1545)	
			2-Speed	6300/3406 (2858/1545)	5845/3406 (2651/1545)	5836/3406 (2647/1545)	
		29	Max Gradeability RL/NL ††	1-Speed	28/27		
				2-Speed	35/27		
		Gradeability @ 1 mph RL/NL ††	1-Speed	25/27			
			2-Speed	30/27			
WT.		31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	13076 (5931)			
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	21076 (9560)				
	32	Axle Loading, Static Front/Rear NL	5677/7399 (2575/3356)				
		Axle Loading, Static Front/Rear RL	18628/2448 (8450/1110)				
TIRES & WHEELS	33	Tire Size, Front	250 x 15 - 20 Ply				
	34	Tire Size, Rear	7.00 x 12 - 14 Ply				
	35	Wheelbase	72 (1830)				
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	5.9 (151)				
	38	Ground Clearance, Center of Wheelbase NL	7.6 (194)				
	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	12/475		12/900		
	43	Engine, Manufacturer/Model	GM 4.3L V6	Kubota WG3800 LPG	Kubota V3800 T4 Final		
	44	Permanent Output	98 (73)	86 (64) @ 2200 RPM	74 (55) @ 2200 RPM		
	45	Torque @ Rated RPM	215 (290) @ 2400RPM	221 (300) @ 1000 RPM	100 (13.9) @ 1300 RPM		
	46	Number of Cylinders/Displacement	6/4302 (263)				
		Standard Speeds, Forward/Reverse	4/3769 (230)				
	49	Hydraulic Tank - capacity (drain & refill)	1/1				
	50	Fuel Tank Capacity (Gas & Diesel Only)	13.5 (51.0)				
	51	Auxiliary Hydraulic Pressure Relief for Attachments	N/A	N/A	20.9 (79)		

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

H90FT SPECIFICATIONS

		Hyster Company				
GENERAL	1	Manufacturer Name	Hyster Company			
	2	Model	H90FT			
		Engine	GM 4.3L	Kubota 3.8L LPG	Kubota 3.8L DSL	
	3	Rated Capacity	lb (kg) 9000 (4090)			
	4	Load Center, Distance	in (mm) 24 (610)			
	5	Power Type	LPG	LPG	Diesel	
	6	Operator Type	Sit-Down Rider			
	7	Step Height	in (mm) 17.4 (441)			
	8	Tire Type - Cushion, Solid, Pneumatic	Pneumatic			
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) 4 (100)			
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm) 36 (924)			
	12	Standard Carriage Width	in (mm) 48 (1219)			
	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) 43.5 (1106)			
	15	Mast Tilt Angles, Forward/Backward	degrees 6F/10B			
	16	Length To Face of Forks	in (mm) 117.2 (2977)			
	17	Overall Width, Standard Tread	in (mm) 55.2 (1402)			
		Overall Width, Wide Tread	in (mm) 58.5 (1485)			
	18	Height, Standard Mast - Lowered	in (mm) 86 (2171)			
	19	Height, Standard Mast - Extended with LBR	in (mm) 170 (4297)			
		Height, Standard Mast - Extended without LBR	in (mm) 151 (3815)			
	20	Height, Standard Overhead Guard	in (mm) 89 (2260)			
		Height, Optional Overhead Guard	in (mm) 87 (2193)			
		Height, Overhead Guard with Operator Cab	in (mm) 90 (2281)			
	21	Turning Radius, Minimum Outside (OTR)	in (mm) 103.1 (2619)			
	22	Length, Center of Wheel to Face of Forks	in (mm) 20.6 (523)			
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm) 124.7 (3168)			
	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm) 91.6 (2325)			
	PERFORMANCE +	25	Travel Speed RL/NL	mph (km/h)		
			1-Speed	11.4/11.9 (18.3/19.1)		
			2-Speed	14.2/14.8 (22.9/23.9)		
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) 108/93 (.55/.47)			
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft/min (m/s) 98/71 (.50/.36)			
		Lowering Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s) 104/87 (.53/.44)			
28		Max Drawbar Pull RL/NL	lb (kg)	5920/3348 (2685/1519)	5747/3348 (2607/1519)	5758/3348 (2612/1519)
		2-Speed	lb (kg)	7190/3348 (3261/1519)	6885/3348 (3123/1519)	6897/3348 (3128/1519)
		Drawbar Pull @ 1 mph RL/NL	lb (kg)	5300/3348 (2404/1519)	4933/3348 (2238/1519)	4928/3348 (2235/1519)
		2-Speed	lb (kg)	6290/3348 (2853/1519)	5808/3348 (2635/1519)	5799/3348 (2630/1519)
29		Max Gradeability RL/NL ††	%	27/25	26/25	
		2-Speed	%	33/25	31/25	32/25
	Gradeability @ 1 mph RL/NL ††	%	24/25	22/25	22/25	
	2-Speed	%	29/25	26/25	26/25	
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg) 13920 (6314)			
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg) 22920 (10396)			
	32	Axle Loading, Static Front/Rear NL	lb (kg) 8341/5579 (3783/2531)			
		Axle Loading, Static Front/Rear RL	lb (kg) 20150/2770 (9140/1256)			
TIRES & WHEELS	33	Tire Size, Front	250 x 15 - 20 Ply			
	34	Tire Size, Rear	7.00 x 12 - 14 Ply			
	35	Wheelbase	in (mm) 72 (1830)			
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm) 5.9 (151)			
	38	Ground Clearance, Center of Wheelbase NL	in (mm) 7.6 (194)			
	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/cc		12/475	
	43	Engine, Manufacturer/Model	GM 4.3L V6	Kubota WG3800 LPG	Kubota V3800 T4 Final	
	44	Permanent Output	hp (kW) 98 (73)			
	45	Torque @ Rated RPM	ft/lbs (kg/m) 215 (290) @ 2400RPM			
	46	Number of Cylinders/Displacement	No/cc (ci) 6/4302 (263)			
		Standard Speeds, Forward/Reverse	1/1			
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter) 13.5 (51.0)			
	50	Fuel Tank Capacity (Gas & Diesel Only)	gal (liter) N/A			
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa) 2250 (15.5)			

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RL = Rated Load, NL = No Load

H100FT SPECIFICATIONS

GENERAL	1	Manufacturer Name	Hyster Company			
	2	Model	H100FT			
		Engine	GM 4.3L	Kubota 3.8L LPG	Kubota 3.8L DSL	
	3	Rated Capacity	lb (kg)	10000 (4536)		
	4	Load Center, Distance	in (mm)	24 (610)		
	5	Power Type	LPG	LPG	Diesel	
	6	Operator Type	Sit-Down Rider			
	7	Step Height	in (mm)	19.1 (484)		
	8	Tire Type - Cushion, Solid, Pneumatic	Pneumatic			
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven	2x/2		
	10	Lift Height, Top of Fork (TOF)	in (mm)	109 (2790)		
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	4 (100)		
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm)	37 (940)		
	12	Standard Carriage Width	in (mm)	54 (1372)		
	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)	49.7 (1262)		
	15	Mast Tilt Angles, Forward/Backward	degrees	6F/10B		
	16	Length To Face of Forks	in (mm)	127.8 (3247)		
	17	Overall Width, Standard Tread	in (mm)	57.1 (1450)		
		Overall Width, Wide Tread	in (mm)	62.0 (1575)		
	18	Height, Standard Mast - Lowered	in (mm)	88 (2214)		
	19	Height, Standard Mast - Extended with LBR	in (mm)	160 (4064)		
		Height, Standard Mast - Extended without LBR	in (mm)	147 (3730)		
	20	Height, Standard Overhead Guard	in (mm)	91 (2302)		
		Height, Optional Overhead Guard	in (mm)	88 (2235)		
		Height, Overhead Guard with Operator Cab	in (mm)	92 (2323)		
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	111.7 (2837)		
	22	Length, Center of Wheel to Face of Forks	in (mm)	22.9 (581)		
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	134.8 (3425)		
	PERFORMANCE †	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	96.6 (2452)	
		25	Travel Speed RL/NL 2-Speed		14.1/13.8 (22.6/22.2)	
		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)	97/77 (.47/.39)		
28		Max Drawbar Pull RL/NL 2-Speed	lb (kg)	7350/3986 (3334/1808)	7979/3986 (3619/1808)	7420/3986 (3365/1808)
		Drawbar Pull @ 1 mph RL/NL 2-Speed	lb (kg)	6390/3986 (2898/1808)	6604/3986 (2996/1808)	6127/3986 (2779/1808)
29		Max Gradeability RL/NL †† 2-Speed	%	30/28	33/28	30/28
	Gradeability @ 1 mph RL/NL †† 2-Speed	%	26/28	33/28	30/28	
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	14910 (6763)	15108 (6853)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	24910 (11299)	25108 (11389)	
	32	Axle Loading, Static Front/Rear NL	lb (kg)	6642/8268 (3013/3750)	6721/8387 (3049/3804)	
		Axle Loading, Static Front/Rear RL	lb (kg)	22312/2598 (10121/1178)	22391/2717 (10156/1232)	
TIRES & WHEELS	33	Tire Size, Front	300 x 15 - 20 Ply			
	34	Tire Size, Rear	7.00 x 12 - 14 Ply			
	35	Wheelbase	in (mm)	82.7 (2100)		
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	6.4 (163)		
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	9.3 (237)		
	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	12/900	
	43	Engine, Manufacturer/Model	GM 4.3L V6	Kubota WG3800 LPG	Kubota V3800 T4 Final	
	44	Permanent Output	hp (kW)	98 (73)	86 (64) @ 2200 RPM	74 (55) @ 2200 RPM
	45	Torque @ Rated RPM	ft/lbs (kg/m)	215 (290) @ 2400RPM	221 (300) @ 1000 RPM	100 (13.9) @ 1300 RPM
	46	Number of Cylinders/Displacement	No/cc (ci)	6/4302 (263)	4/3769 (230)	
		Standard Speeds, Forward/Reverse	2/1			
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	17.9 (67.8)		
	50	Fuel Tank Capacity (Gas & Diesel Only)	gal (liter)	N/A	N/A	26.5 (100.3)
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)		

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H110FT SPECIFICATIONS

GENERAL	1	Manufacturer Name	Hyster Company			
	2	Model	H110FT			
		Engine	GM 4.3L	Kubota 3.8L LPG	Kubota 3.8L DSL	
	3	Rated Capacity	lb (kg)	11000 (4990)		
	4	Load Center, Distance	in (mm)	24 (610)		
	5	Power Type	LPG	LPG	Diesel	
	6	Operator Type	Sit-Down Rider			
	7	Step Height	in (mm)	19.1 (484)		
	8	Tire Type - Cushion, Solid, Pneumatic	Pneumatic			
DIMENSIONS	9	Wheels, Number - Front/ Rear	X driven 2x/2			
	10	Lift Height, Top of Fork (TOF)	in (mm)	109 (2790)		
	11	Lift Heights, Standard Limited Free Lift (LFL) with LBR (TOF)	in (mm)	4 (100)		
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm)	37 (940)		
	12	Standard Carriage Width	in (mm)	54 (1372)		
	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)	49.7 (1262)		
	15	Mast Tilt Angles, Forward/Backward	degrees	6F/10B		
	16	Length To Face of Forks	in (mm)	129.5 (3290)		
	17	Overall Width, Standard Tread	in (mm)	57.1 (1450)		
		Overall Width, Wide Tread	in (mm)	62.0 (1575)		
	18	Height, Standard Mast - Lowered	in (mm)	88 (2214)		
	19	Height, Standard Mast - Extended with LBR	in (mm)	160 (4064)		
		Height, Standard Mast - Extended without LBR	in (mm)	147 (3730)		
	20	Height, Standard Overhead Guard	in (mm)	91 (2302)		
		Height, Optional Overhead Guard	in (mm)	88 (2235)		
		Height, Overhead Guard with Operator Cab	in (mm)	92 (2323)		
	21	Turning Radius, Minimum Outside (OTR)	in (mm)	113.3 (2877)		
	22	Length, Center of Wheel to Face of Forks	in (mm)	22.9 (581)		
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	136.4 (3465)		
	PERFORMANCE †	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm)	97.3 (2472)	
		25	Travel Speed RL/NL 2-Speed	mph (km/h)	14.1/13.8 (22.6/22.2)	
		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)	97/77 (.47/.39)		
28		Max Drawbar Pull RL/NL 2-Speed	lb (kg)	7320/3900 (3320/1769)	7946/3900 (3604/1769)	7387/3900 (3351/1769)
		Drawbar Pull @ 1 mph RL/NL 2-Speed	lb (kg)	6370/3900 (2889/1769)	6571/3900 (2981/1769)	6094/3900 (2764/1769)
29	Max Gradeability RL/NL ††	2-Speed	% 28/26			
	Gradeability @ 1 mph RL/NL ††	2-Speed	% 24/26			
WT.	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	15560 (7058)	15758 (7148)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	26560 (12047)	26758 (12137)	
	32	Axle Loading, Static Front/Rear NL	lb (kg)	6499/9061 (2948/4110)	6578/9180 (2984/4164)	
	Axle Loading, Static Front/Rear RL	lb (kg)	23735/2825 (10766/1281)	23814/2944 (10802/1335)		
TIRES & WHEELS	33	Tire Size, Front	300 x 15 - 20 Ply			
	34	Tire Size, Rear	7.00 x 12 - 14 Ply			
	35	Wheelbase	in (mm)	82.7 (2100)		
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm)	6.4 (163)		
	38	Ground Clearance, Center of Wheelbase NL	in (mm)	9.3 (237)		
	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	vcca	12/475	12/900	
	43	Engine, Manufacturer/Model	GM 4.3L V6	Kubota WG3800 LPG	Kubota V3800 T4 Final	
	44	Permanent Output	hp (kW)	98 (73)	86 (64) @ 2200 RPM	74 (55) @ 2200 RPM
	45	Torque @ Rated RPM	ft/lbs (kg/m)	215 (290) @ 2400RPM	221 (300) @ 1000 RPM	100 (13.9) @ 1300 RPM
	46	Number of Cylinders/Displacement	No/cc (ci)	6/4302 (263)	4/3769 (230)	
		Standard Speeds, Forward/Reverse	2/1			
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	17.9 (67.8)		
	50	Fuel Tank Capacity (Gas & Diesel Only)	gal (liter)	N/A	N/A	26.5 (100.3)
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)		

RL = Rated Load, NL = No Load

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.

H120FT SPECIFICATIONS

GENERAL	1	Manufacturer Name	Hyster Company			
	2	Model	H120FT			
		Engine	GM 4.3L	Kubota 3.8L LPG	Kubota 3.8L DSL	
	3	Rated Capacity	lb (kg)	12000 (5443)		
	4	Load Center, Distance	in (mm)	24 (610)		
	5	Power Type	LPG	LPG	Diesel	
	6	Operator Type	Sit-Down Rider			
	7	Step Height	in (mm)	19.1 (484)		
	8	Tire Type - Cushion, Solid, Pneumatic	Pneumatic			
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) 4 (100)			
		Lift Heights, Optional Full Free Lift (FFL) with LBR (TOF)	in (mm) 37 (940)			
	12	Standard Carriage Width	in (mm) 54 (1372)			
	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) 49.7 (1262)			
	15	Mast Tilt Angles, Forward/Backward	degrees 6F/10B			
	16	Length To Face of Forks	in (mm) 131.5 (3341)			
	17	Overall Width, Standard Tread	in (mm) 57.1 (1450)			
		Overall Width, Wide Tread	in (mm) 62.0 (1575)			
	18	Height, Standard Mast - Lowered	in (mm) 88 (2214)			
	19	Height, Standard Mast - Extended with LBR	in (mm) 160 (4064)			
		Height, Standard Mast - Extended without LBR	in (mm) 147 (3730)			
	20	Height, Standard Overhead Guard	in (mm) 91 (2302)			
		Height, Optional Overhead Guard	in (mm) 88 (2235)			
		Height, Overhead Guard with Operator Cab	in (mm) 92 (2323)			
	21	Turning Radius, Minimum Outside (OTR)	in (mm) 114.8 (2915)			
	22	Length, Center of Wheel to Face of Forks	in (mm) 22.9 (591)			
	23	Aisle Width, Right Angle Stack (Add Length of Load)	in (mm) 137.9 (3503)			
	PERFORMANCE †	24	Equal Aisle, 90-Degree Intersecting Aisle (48" L X 40" W Load)	in (mm) 98.1 (2490)		
		25	Travel Speed RL/NL 2-Speed	mph (km/h) 14.1/13.8 (22.6/22.2)		
		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) 97/77 (.47/.39)			
28		Max Drawbar Pull RL/NL 2-Speed	lb (kg)	7290/3904 (3307/1771)	7923/3904 (3594/1771) 7364/3904 (3340/1771)	
		Drawbar Pull @ 1 mph RL/NL 2-Speed	lb (kg)	6340/3904 (2876/1771)	6549/3904 (2970/1771) 6071/3904 (2754/1771)	
29	Max Gradeability RL/NL ††	2-Speed	% 26/25 29/25 27/25			
	Gradeability @ 1 mph RL/NL ††	2-Speed	% 22/25 29/25 27/25			
	31	Weight, Standard Truck (Standard 2-Stg. LFL) NL	lb (kg)	16321 (7403)	16519 (7493)	
		Weight, Standard Truck (Standard 2-Stg. LFL) RL	lb (kg)	28321 (12846)	28519 (12936)	
32	Axle Loading, Static Front/Rear NL	lb (kg)	6505/9816 (2951/4452)	6584/9935 (2986/4506)		
	Axle Loading, Static Front/Rear RL	lb (kg)	25366/2955 (11506/1340)	25445/3074 (11542/1394)		
TIRES & WHEELS	33	Tire Size, Front	300 x 15 - 20 Ply			
	34	Tire Size, Rear	7.00 x 12 - 14 Ply			
	35	Wheelbase	in (mm) 82.7 (2100)			
	37	Ground Clearance, Lowest Point NL (with RL subtract -6mm)	in (mm) 6.4 (163)			
	38	Ground Clearance, Center of Wheelbase NL	in (mm) 9.3 (237)			
	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	v/cc	12/475	12/900	
	43	Engine, Manufacturer/Model	GM 4.3L V6	Kubota WG3800 LPG	Kubota V3800 T4 Final	
	44	Permanent Output	hp (kW)	98 (73)	86 (64) @ 2200 RPM 74 (55) @ 2200 RPM	
	45	Torque @ Rated RPM	ft/lbs (kg/m)	215 (290) @ 2400RPM	221 (300) @ 1000 RPM 100 (13.9) @ 1300 RPM	
	46	Number of Cylinders/Displacement	No/cc (ci)	6/4302 (263)	4/3769 (230)	
		Standard Speeds, Forward/Reverse	2/1			
	49	Hydraulic Tank - capacity (drain & refill)	gal (liter)	17.9 (67.8)		
	50	Fuel Tank Capacity (Gas & Diesel Only)	gal (liter)	N/A	N/A 26.5 (100.3)	
	51	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (15.5)		

RL = Rated Load, NL = No Load

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.

MAST DIMENSIONS

H80-90FT MAST DIMENSIONS					
Maximum Fork Ht. (TOF) †	Overall Lowered Ht.	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)	86 (2171)	170 (4297)	151 (3815)	5 (150)	5 (150)
143 (3650)	98 (2471)	193 (4897)	174 (4415)	5 (150)	5 (150)
167 (4250)	110 (2771)	217 (5497)	198 (5015)	5 (150)	5 (150)
2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
121 (3075)	86 (2171)	171 (4322)	154 (3887)	36 (924)	53 (1359)
144 (3675)	98 (2471)	194 (4922)	177 (4487)	48 (1224)	65 (1659)
3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
173 (4415)	86 (2171)	223 (5662)	206 (5227)	36 (924)	53 (1359)
185 (4715)	90 (2271)	235 (5962)	218 (5527)	40 (1024)	57 (1459)
194 (4950)	94 (2371)	244 (6197)	227 (5762)	44 (1124)	61 (1559)
206 (5250)	98 (2471)	256 (6497)	239 (6062)	48 (1224)	65 (1659)
218 (5550)	102 (2571)	268 (6797)	251 (6362)	52 (1324)	69 (1759)
† 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					

H100-120FT MAST DIMENSIONS					
Maximum Fork Height (TOF) †	Overall Lowered Ht.	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)	88 (2214)	160 (4064)	147 (3730)	6 (160)	6 (160)
133 (3400)	99 (2514)	184 (4664)	171 (4330)	6 (160)	6 (160)
157 (4000)	111 (2814)	208 (5264)	195 (4930)	6 (160)	6 (160)
2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
111 (2825)	88 (2214)	161 (4089)	150 (3807)	37 (950)	48 (1232)
134 (3425)	99 (2514)	185 (4689)	174 (4407)	49 (1250)	60 (1532)
3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST					
86 (2171)	173 (4415)	214 (5411)	202 (5129)	37 (950)	48 (1232)
175 (4447)	92 (2314)	225 (5711)	214 (5429)	41 (1050)	52 (1332)
185 (4700)	96 (2414)	235 (5964)	224 (5682)	45 (1150)	56 (1432)
196 (5000)	99 (2514)	247 (6264)	236 (5982)	49 (1250)	60 (1532)
208 (5300)	103 (2614)	259 (6564)	248 (6282)	53 (1350)	64 (1632)
† 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
- One-speed powershift transmission (standard with H80-90FT)
 - Electronic inching
 - Electronic shift control
- Oil-cooled wet disc brakes
- MONOTROL® pedal
- 2-Stage limited free-lift (LFL) VISTA™ mast with maximum fork height of 120" (3050 mm) (H80-90FT) or 110" (2800 mm) (H100-120FT)
- 48" (1219 mm) (H80-90FT) or 54" (1372 mm) (H100-120FT) wide hook-type carriage with 48.0" (1219) tall load backrest
- 48" (1219 mm) long forks
- 6 degrees forward and 12 degrees backward mast tilt
- 3-function hydraulic control valve
- Integrated dashboard display includes:
 - LCD display:
 - Fuel level (gasoline or diesel only)
 - Hour meter
 - Coolant temperature
 - Clock
 - Messages
 - Service indicator lights:
 - Alternator
 - Transmission oil temperature
 - Engine oil pressure
 - Brake fluid level
 - Fasten seatbelt
 - Low fuel level
 - 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
- Pressure sensing low LPG fuel sensor
- 89" (2258 mm) tall 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

- Kubota 3.8L LPG Engine
- Kubota 3.8L Tier 4 Final Turbo Diesel Engine
- Two-speed electronic powershift transmission (standard with H100-120FT)
- Hyster® Variable Power Technology™ featuring two performance modes
- Duramatch™ transmission
 - Auto deceleration system
 - Controlled power reversal feature
 - Controlled roll back on ramps
- Optional Duramatch™ two-speed transmission
 - Higher gradeability and drawbar pull performance
 - Additional forward speed
 - Increased travel speeds
- TouchPoint mini-lever, electro-hydraulic control with on-demand hydraulic system
- Powertrain protection system
- Premium electronic monitoring
- High air intake with pre-cleaner
- Hydraulic accumulator
- Keyless start (with auxiliary key switch)
- Premium wet disc brakes (standard with H100-120FT)
- Optional short height overhead guard
- Paper applications kit
- Full venting package
- Heavy duty engine modification
- EZXchange swing-out, drop-down LPG tank bracket
- Return to set tilt
- On-demand cooling system
- Full venting package
- Fully adjustable armrest
- 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
- High-visibility non-cinch seat belt with or without interlock
- Impact monitor with immediate shutdown or 30-second delayed shutdown
- Load weight display
- Optical sensing low LPG fuel sensor
- Operator pre-shift checklist
- Lever shift directional control
- Seat side directional control mounted on TouchPoint control armrest
- 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 or DS
- Various light packages with halogen or high intensity LED's
 - Two front and one rear work lights
 - Two front, one rear work lights and two LED brake/tail/back-up lights
- Extended life solid pneumatic tires
- Radial tires
- Dual drive tires
- Side view mirrors
- Cab includes: front and rear wiper, full light package, integral heater, defogger, removable doors, operator dome light, fan, optional air conditioning

STANDARD FEATURES AND OPTIONS

CAPACITY:

Model H80FT: 8,000 lbs. at 24.0" (3636 kg at 610 mm) load center
Model H90FT: 9,000 lbs. at 24.0" (4090 kg at 610 mm) load center
Model H100FT: 10,000 lbs. at 24.0" (4545 kg at 610 mm) load center
Model H110FT: 11,000 lbs. at 24.0" (5000 kg at 610 mm) load center
Model H120FT: 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" (4356 mm) maximum fork height
- 48" (1219 mm) (H80-90FT) or 54" (1,372 mm) (H100-120FT) hook-type carriage with 48" (1219 mm) long forks
- 48" tall load backrest (LBR)
- Narrow tread width 55.2" (1402 mm) (H80-90FT) or 57.1" (1450 mm) (H100-120FT)
- Wide tread width 58.5" (1486 mm) (H80-90FT) or 62.9" (1598 mm) (H100-120FT)

MASTS

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

CARRIAGE

Carriages are hook-type, ITA Class III mounting (H80-90FT), ITA Class IV (H100FT, H110FT, H120FT). Overall width without load backrest (LBR) is 47.3" (1201 mm) (H80-90FT) or 53.3 (1354) (H100-120FT); with LBE is 48.0" (1219 mm) (H80-90FT) or 54 (1372) (H100-120FT). Minimum inside-to-inside fork spacing, center to center is 5.3" (135 mm). Maximum outside-to-outside fork spacing, center to center is 47.3" (1201 mm) (H80-90FT) or 49.7" (1262 mm) (H100-120FT).

FORKS

H80FT lift trucks feature: 2" x 5" x 42" to 72" (50 x 125 x 1067 mm) long pallet forks.

H90FT lift trucks feature: 2" x 6" x 48" to 72" (50 x 150 x 1219 mm) long pallet forks.

H100-120FT lift trucks feature: 2.5" x 6" x 48" to 72" (60 x 150 x 1219 mm) long pallet forks.

Polished and full bottom tapered forks are also available.

GM 4.3L V-6 LPG ENGINE:

- Cast iron block and cylinder head
- Forged crankshaft and connecting rods
- Chain driven engine timing
- Nitrided stainless steel intake and exhaust valves
- Stellite exhaust valve seats
- Automatic drive belt tensioner
- Hydraulic valve lifters
- Full flow oil filter
- 250 hour service intervals

KUBOTA 3.8L SPARK-IGNITED LPG ENGINE:

- Hyster® Variable Power Technology™ featuring two performance modes
- Individual coil-over-plug ignition
- Diesel conversion design featuring a 10:1 compression ratio
- 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

KUBOTA 3.8L EPA CERTIFIED TIER 4 FINAL TURBO DIESEL ENGINE:

- Cast iron block and heads
- High-Pressure common rail fuel system
- Exhaust Gas Recirculation (EGR) emission system
- 4 valves / cylinder "crossflow" cylinder head
- Full-authority electronic control integration
- High efficiency turbocharger
- Fuel filter with water separator
- Closed crankcase ventilation system
- Manual air intake restriction indicator

- Equipped with an Exhaust Gas Recirculation (EGR) system to reduce emissions and a Diesel Particulate Filter (DPF) to capture and oxidize particulate matter (soot)
- Engine is compatible with biodiesel to a rating of B5 (5% bio, 95% diesel)
- 3.8L engine produces 74 horsepower

TRANSMISSION

- One Speed Electronic Powershift: Single range powershift, electronic inching (requires no adjustment), electric shift control, neutral start switch, and anti-restart protection (standard on H80-90FT). Also available with 2 forward speeds for increased gradeability and travel speeds (standard on H100-120FT)
- DuraMatch™: All of the features of the standard electronic transmission plus Auto Deceleration System, controlled power reversal, controlled roll back on ramps
- DuraMatch™2: All of the features of the DuraMatch 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 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 that 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
- Ingress Protection rating 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 (900 diesel) cold cranking amps (cca) for easy starts
- Onboard diagnostics, monitoring and feedback

HYDRAULIC SYSTEM

- Manual hydraulic control valve & electro-hydraulic control valve
- Optional load-sensing on-demand hydraulic system pumps oil only when needed for enhanced fuel economy and extended component life.
 - O-Ring face seal fittings are used on all high pressure connections

- Hydraulic lift system relief operates at 3400 psi (23.4 Mpa)
- 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 wet disc brakes require little maintenance yet provide extremely long service life and are protected from dirt and moisture
- The optional, premium 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
- Optional premium force-cooled wet disc brakes provide extremely long service life in continuous and/or multi-shift applications (standard on H100-120FT)

OPERATOR COMPARTMENT

- Cowl-mounted hydraulic control levers
- TouchPoint electro-hydraulic seat side mini-lever controls
- 12-inch textured steering wheel with spinner knob
- Automotive style foot controls with single braking/inching pedal (dual pedals are 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 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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WEST COAST LUMBER
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P.O. Box 7006
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Part No. H80-120FT/TG
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