

Trucks shown with optional equipment.

# H80-120FT



### A. Overhead Guard (OHG)

The unique grid-style pattern improves visibility while protecting operators and strengthening the truck's structure. The front, curved OHG leg design affords greater shoulder clearance for easier operator entry and exit.

### B. Hydraulic Controls

The Hyster® Fortis® line of lift trucks offers two configurations that employ cowl mounted levers or TouchPoint mini-levers to provide you unsurpassed, low effort, tactile control of all hydraulic functions.

### C. Exclusive VISTA™ Mast

High strength hot-rolled steel mast channels and flush-faced design improve capacity retention at high lifts. Compact cast steel cross members optimize visibility and rigidity. Six canted 3-inch full-face load rollers roll on the web and the flange simultaneously, eliminating the need for side thrust rollers or wear plugs.

### D. Tilt Steer Column

The infinitely adjustable tilt steer column accommodates operators easily. Assisted by a gas-spring and an easy-to-reach lever, obtaining your preferred position is simple. The standard 12-inch steering wheel with integrated spinner knob helps reduce fatigue while providing more knee room. And it goes lock-to-lock in just 4 turns for superior efficiency, maneuverability and control.

### E. Pacesetter VSM

The computer "brain" of the Fortis® line of lift trucks manages all vehicle systems to optimize performance and significantly increase overall reliability and enhance diagnostic capabilities for maximum uptime.

### F. Hassle-Free Hydraulics

Use of leak-free O-ring face seals helps maximize uptime. In-tank filter increases hydraulic fluid filtration by 60% for particles down to 10 microns, significantly extending component life and creating a cleaner overall operation.

### G. Integral Sideshift

The optional integral sideshift provides excellent visibility and affords greater capacities than carriage-mounted sideshifts.

### H. Heavy-duty Planetary Drive Axle

The full floating design of the drive axle lets the axle housing, not the shafts, carry the weight of the load, enhancing dependability and reliability for a longer service life.

### I. Wet Disc Brakes

Standard wet disc brakes provide excellent stopping power and extremely long service life. Brakes are completely sealed from water and dirt making them ready for harsh environments.

Premium wet disc brakes circulate oil through the brake and back out for additional cooling capacity for the toughest applications with heavy brake usage as part of the typical work cycle. (Standard on 100-120FT)

### J. Drivetrain Mounting

The Hyster® Fortis® line of lift trucks has a fully isolated drivetrain through the use of elastomeric mounts for the engine and transmission. The result is a new standard in smooth riding comfort.

### K. Removable Floor Plate

One piece, steel floor plate is easily removed to provide incredible service access. A molded rubber floor mat seals the floor area to reduce noise and vibration for a more comfortable ride.

### L. Hydrostatic Steer Axle

The elastomeric-mounted Hyster designed cast ductile iron steer axle with transverse, double-acting hydraulic cylinder, tapered roller spindle-support bearings and non-adjustable tie rods provide maximum durability and superior steering control for easy maneuvering and low maintenance.

### M. Hyster Stability System

The stability system reduces truck lean in turns, improving lateral stability. Even with the reduced lean, the innovative steer axle mounting design allows for superior travel over uneven surfaces.

### N. Counterweight

The superior design permits a significant increase in airflow to assist the Fortis® line of lift trucks to run cooler, even in extreme temperatures and environments.

### O. Engine Cover

The tough engine cover is made of a durable, crack-resistant, thermoset polyester resin reinforced with glass. Hinged at the rear, it offers superior service access to the engine compartment with an opening angle of 85 degrees.

### P. EZXchange Bracket

This optional bracket swings out from over the top of the counterweight and the gas-spring assisted fuel cylinder lowers into a reclined and locked position, providing a stable platform for quick, easy LP tank replacement.

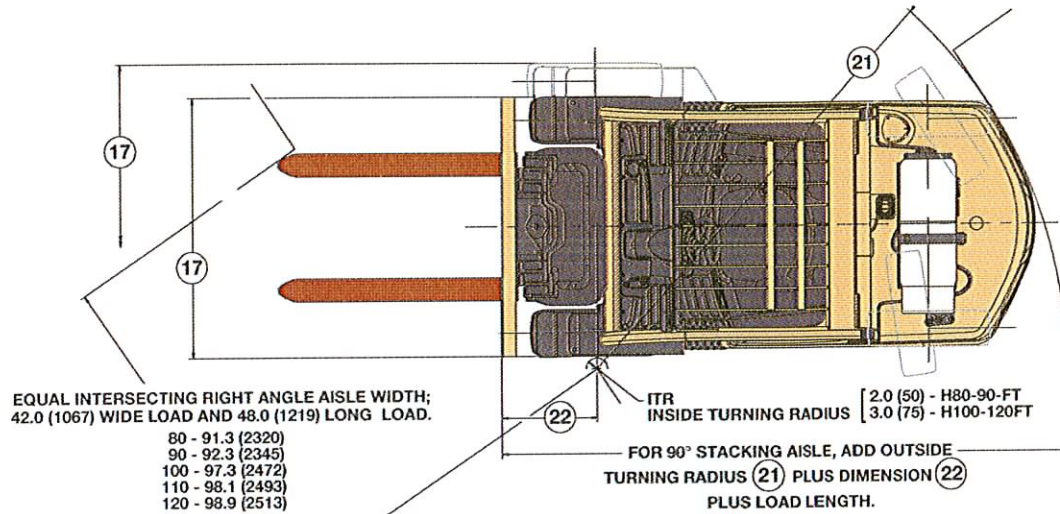
### Q. Brake/Backup Lights

For superior functionality, the optional Hyster® LED brake/backup lights resist vibration and offer extremely long life.

### R. Fatigue-Reducing Operator Compartment

Ergonomically designed compartment plays a big role to enhance overall productivity. Entry and exit are made easy by the optimized step height with non-slip step tread, soft touch contoured hand grip and rounded hood. Repositioned foot pedals provide improved floor space, while better engine cooling keeps operators more comfortable. Infinitely adjustable tilt steer column accommodates any size operator. A formed fiberglass liner provides increased noise suppression for a more comfortable ride.

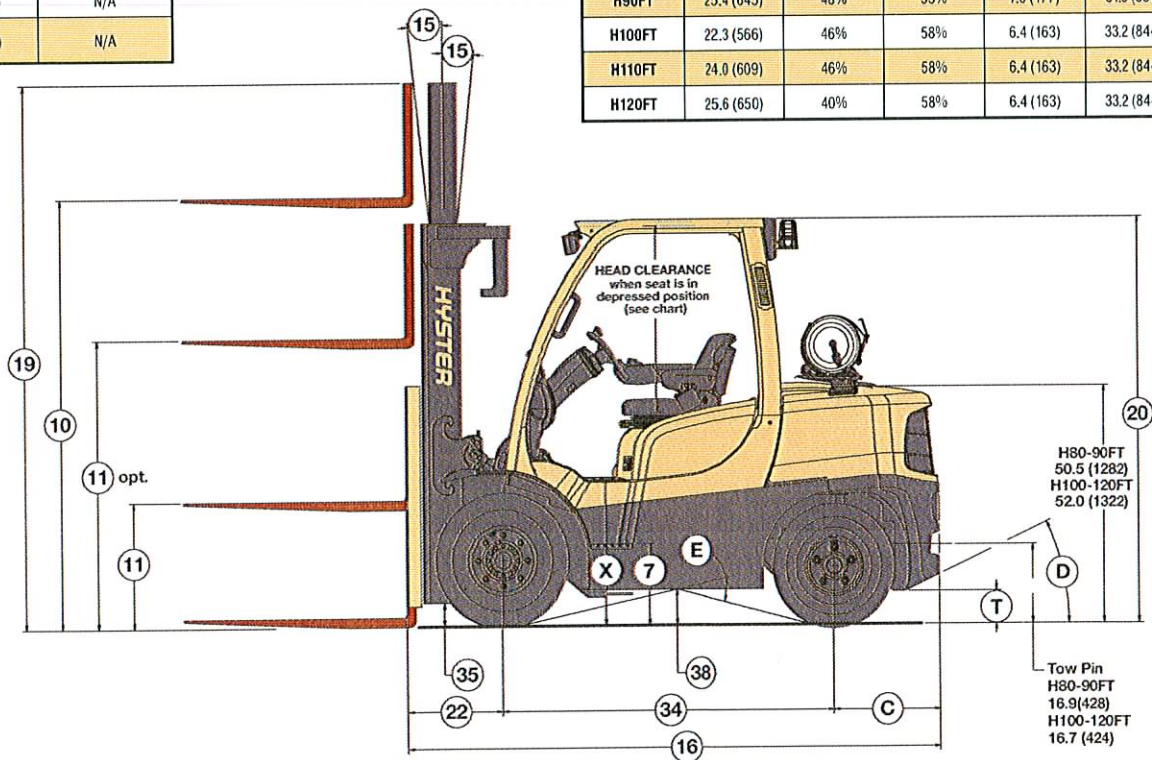




Seat Type	Standard OHG*	Optional OHG*
Non-Suspension	42.0 (1068)	39.4 (1001)
Semi-Suspension	42.5 (1080)	39.9 (1013)
Full-Suspension	41.8 (1062)	N/A
Swivel Full-Suspension	42.0 (1068)	N/A

\* 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

GENERAL	1	Manufacturer Name	Hyster Company		
	2	Model	H80FT		
		Engine	GM 4.3L		Kubota 3.8L Tier 4 Final
3	Rated Capacity	lb. (kg)	8,000 (3,636)		
4	Load Center, Distance	in. (mm)	24 (610)		
5	Engine/Power Type - Gasoline, LPG, Diesel		Gasoline	LPG	Diesel
6	Operator Type		Seated Rider		
7	Step Height	in. (mm)	17.4 (441)		
8	Tire Type - Cushion, Solid, Pneumatic		Pneumatic		
9	Wheels, Number - Front/Rear		2X/2		
10	Lift Height, Top of Fork (TOF)	in. (mm)	120 (3050)		
11	Lift Heights, Std Limited Free Lift (LFL) with LBR (TOF)	in. (mm)	5 (150)		
	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.	2 x 5 x 48		
	Forks, Thickness x Width x Length	mm	50 x 125 x 1219		
14	Fork Spread, Outside Dimensions	in. (mm)	43.5 (1106)		
15	Mast Tilt Angles, Forward/Backward	degrees	6/12		
16	Length to Face of Forks	in. (mm)	117 (2972)		
17	Overall Width, Standard Tread/Wide Tread	in. (mm)	55.2 (1402) / 58.5 (1486)		
	Overall Width, Dual Tread	in. (mm)	69.8 (1773)		
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 (Tall)	in. (mm)	89 (2260)		
	Height, Optional Overhead Guard (Short)	in. (mm)	87 (2193)		
	Height, Optional Cab	in. (mm)	90 (2281)		
21	Turning Radius, Minimum Outside (OTR)	in. (mm)	101.2 (2570)		
22	Length, Center of Wheels to Face of Forks	in. (mm)	21.6 (549)		
23	Aisle Width, Right Angle Stack (Add Length of Load)	in. (mm)	122.8 (3119)		
24	Equal Aisle, 90-Degree Intersecting Aisle	in. (mm)	91.3 (2319)		
PERFORMANCE	25	Travel Speed, RL/NL 1-Speed Transmission	mph (km/h)	11.4 (18.3)/11.9 (19.1)	12.3 (19.8)/12.6 (20.3)
		Travel Speed, RL/NL 2-Speed Transmission	mph (km/h)	14.2 (22.9)/14.8 (23.9)	14.1 (22.7)/14.4 (23.2)
	26	Lift Speed, Standard 2-Stage LFL RL/NL	ft. / min (m/s)	120 (.61)/122 (.62)	118 (.60)/130 (.66)
		Lift Speed, Optional 2-Stage FFL RL/NL	ft. / min (m/s)	106 (.54)/108 (.55)	104 (.53)/114 (.58)
		Lift Speed, Optional 3-Stage FFL RL/NL	ft. / min (m/s)	112 (.57)/114 (.58)	110 (.56)/120 (.61)
	27	Lowering Speed, Standard 2-Stage LFL RL/NL	ft. / min (m/s)	108 (.55)/93 (.47)	
		Lowering Speed, Optional 2-Stage FFL RL/NL	ft. / min (m/s)	98 (.50)/71 (.36)	
		Lowering Speed, Optional 3-Stage FFL RL/NL	ft. / min (m/s)	104 (.53)/87 (.44)	
	28	Drawbar Pull @ Maximum RL/NL 1-Speed Transmission	lb. (kg)	5940 (2694)/3940 (1787)	6060 (2749)/3940 (1787)
		Drawbar Pull @ Maximum RL/NL 2-Speed Transmission	lb. (kg)	7200 (3266)/3940 (1787)	7350 (3334)/3940 (1787)
29	Gradeability @ 1 mph RL/NL 1-Speed Transmission	%	25.0/29.6	25.8/29.6	
	Gradeability @ 1 mph RL/NL 2-Speed Transmission	%	30.1/29.6	35.1/29.6	
WT.	30	Weight, Standard Truck (2-Stage LFL) NL	lb. (kg)	13080 (5933)	13160 (5969)
		Weight, Standard Truck (2-Stage LFL) RL	lb. (kg)	21080 (9562)	21280 (9652)
	31	Axle Loading, Static Front/Rear NL	lb. (kg)	5680 (2576)/7400 (3357)	5680 (2576)/7480 (3393)
TIRES & WHEELS		Axle Loading, Static Front/Rear RL	lb. (kg)	18630 (8450)/2450 (1111)	18710 (8487)/2570 (1166)
	32	Tire Size, Front		250 x 15-20 PR	
	33	Tire Size, Rear		7.00 x 12-14 PR	
	34	Wheelbase	in. (mm)	72.0 (1830)	
	35	Ground Clearance, Lowest Point RL	in. (mm)	5.9 (151)	
	36	Ground Clearance, Center of Wheelbase	in. (mm)	7.6 (194)	
	37	Service Brake - Method of Control/Operation		Foot / Hydraulic	
	38	Park Brake - Method of Control/Operation		Hand / Mechanical	
		Battery Type		Maintenance Free	
	POWERTRAIN	40	Volts / Cold Cranking Amps	v / cca	12V/475
41		Engine Manufacturer		GM Gasoline	GM LPG
42		Permanent Output	hp (kw)	98 (73)	100 (75)
43		Torque @ Rated RPM	ft. lbs. (N m)	215 (290) @ 2400 RPM	220 (298) @ 2400 RPM
44		Number of Cylinders / Displacement	No. / cc (ci)	6/4302 (263)	4/3769 (230)
45		Transmission Type, Standard		Powershift	
46		Standard Speeds, Forward/Reverse		1/1	
47		Hydraulic Tank Capacity (Drain and Refill)	gal. (litre)	13.5 (51.0)	
48		Fuel Tank Capacity (Gas and Diesel Powered Units Only)	gal. (litre)	20.9 (79.0)	20.9 (79.0)
	Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (155)		

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 II 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.



## H80-90FT MAST DIMENSIONS

Maximum Fork Height (TOF) †	Overall Lowered Ht.	Overall Extended Height		Free-Lift (TOF)		Approximate Total Wt. of Standard Equipped Truck	
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest	H80FT with NL	H90FT with NL
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	lbs. (kg)	lbs. (kg)

### 2-STAGE LIMITED FREE-LIFT (LFL) VISTA™ MAST

120 (3050)	86 (2171)	170 (4297)	151 (3815)	5 (150)	5 (150)	13080 (5933)	13840 (6278)
143 (3650)	98 (2471)	193 (4897)	174 (4415)	5 (150)	5 (150)	13446 (6099)	14185 (6434)
167 (4250)	110 (2771)	217 (5497)	198 (5015)	5 (150)	5 (150)	13592 (6165)	14331 (6500)

### 2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST

121 (3075)	86 (2171)	171 (4322)	154 (3887)	36 (924)	53 (1359)	13442 (6097)	14181 (6432)
144 (3675)	98 (2471)	194 (4922)	177 (4487)	48 (1224)	65 (1659)	13597 (6168)	14336 (6503)

### 3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST

173 (4415)	86 (2171)	223 (5662)	206 (5227)	36 (924)	53 (1359)	13977 (6340)	14715 (6675)
185 (4715)	90 (2271)	235 (5962)	218 (5527)	40 (1024)	57 (1459)	15575 (7065)	16314 (7400)
194 (4950)	94 (2371)	244 (6197)	227 (5762)	44 (1124)	61 (1559)	15650 (7099)	16389 (7434)
206 (5250)	98 (2471)	256 (6497)	239 (6062)	48 (1224)	65 (1659)	15725 (7133)	16464 (7468)
218 (5550)	102 (2571)	268 (6797)	251 (6362)	52 (1324)	69 (1759)	15803 (7168)	16541 (7503)

† 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 extension 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)		Approximate Total Wt. of Standard Equipped Truck		
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest	H100FT with NL	H110FT with NL	H120FT with NL
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	lbs. (kg)	lbs. (kg)	lbs. (kg)

### 2-STAGE LIMITED FREE-LIFT (LFL) VISTA™ MAST

110 (2800)	88 (2214)	160 (4064)	147 (3730)	6 (160)	6 (160)	15298 (6939)	15970 (7244)	16598 (7529)
133 (3400)	99 (2514)	184 (4664)	171 (4330)	6 (160)	6 (160)	15454 (7010)	16127 (7315)	16755 (7600)
157 (4000)	111 (2814)	208 (5264)	195 (4930)	6 (160)	6 (160)	15611 (7081)	16284 (7386)	16912 (7671)

### 2-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST

111 (2825)	88 (2214)	161 (4089)	150 (3807)	37 (950)	48 (1232)	15400 (6985)	16072 (7290)	16701 (7575)
134 (3425)	99 (2514)	185 (4689)	174 (4407)	49 (1250)	60 (1532)	15561 (7058)	16233 (7363)	16861 (7648)

### 3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST

86 (2171)	173 (4415)	214 (5411)	202 (5129)	37 (950)	48 (1232)	16026 (7269)	16698 (7574)	17327 (7859)
175 (4447)	92 (2314)	225 (5711)	214 (5429)	41 (1050)	52 (1332)	16108 (7307)	16781 (7612)	17409 (7897)
185 (4700)	96 (2414)	235 (5964)	224 (5682)	45 (1150)	56 (1432)	16187 (7342)	16859 (7647)	17487 (7932)
196 (5000)	99 (2514)	247 (6264)	236 (5982)	49 (1250)	60 (1532)	16272 (7381)	16944 (7686)	17573 (7971)
208 (5300)	103 (2614)	259 (6564)	248 (6282)	53 (1350)	64 (1632)	16354 (7418)	17027 (7723)	17655 (8008)

† 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 extension and 70 lbs. LP tank and tank bracket.  
RL = Rated Load NL = No Load



## STANDARD EQUIPMENT

Complete truck equipped with:

- GM 4.3L, V-6 emissions compliant engine
- One-Speed Powershift transmission (Std with 80-90FT)
  - Electronic inching
  - Electronic shift control
- Wet disc brakes
- MONOTROL<sup>®</sup> pedal
- 2-Stage limited free-lift (LFL) VISTA<sup>™</sup> 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 extension
- 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 Temp
    - 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<sup>®</sup>)
- 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

## OPTIONAL EQUIPMENT

- 3.8L Kubota EPA Certified Tier 4 Final Turbo Diesel Engine
- Two-Speed Electronic Powershift transmission (Std with 100-120FT)
- DuraMatch<sup>™</sup>2 Two-Speed transmission
  - Auto deceleration system
  - Controlled power reversal feature
  - Controlled roll back on ramps
  - Two forward speeds
  - Higher top travel speeds
  - Additional gradeability and drawbar pull performance
- Powertrain system
- Premium electronic monitoring
- High air intake with pre-cleaner
- Hydraulic accumulator
- Keyless start (with auxiliary key switch)
- Premium Wet Disc Brakes (Std with 100-120FT)
- Optional short height overhead guard
- Powertrain protection system
- Paper Applications kit
- Vented hood
- Heavy duty engine modification
- EZXchange Swing-out, drop-down LPG tank bracket
- Return to set tilt
- TouchPoint Electro-hydraulic mini-lever controls with 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
- 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 E- hydraulic 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, GS 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
- Solid pneumatic tires
- Michelin XZM radial tires
- Dual drive tires
- Extended Life solid pneumatic tires
- Cab includes the following:
  - Front and rear wiper
  - Full light package
  - Integral heater
  - Defogger
  - Removable doors
  - Operator dome light
  - Fan
- Side view mirrors

\*\*A variety of optional alarms are available. For details, contact your local authorized Hyster<sup>®</sup> Dealer or request the Forklift Pedestrian and Accidents brochure - a comprehensive study of accidents in the workplace, Part Number: LIFTPE/B 12/03.



**CAPACITY:**

<b>Model H80FT:</b>	8,000 lbs. at 24.0" (3636 kg at 610 mm) load center
<b>Model H90FT:</b>	9,000 lbs. at 24.0" (4090 kg at 610 mm) load center
<b>Model H100FT:</b>	10,000 lbs. at 24.0" (4545 kg at 610 mm) load center
<b>Model H110FT:</b>	11,000 lbs. at 24.0" (5000 kg at 610 mm) load center
<b>Model H120FT:</b>	12,000 lbs. at 24.0" (5454 kg at 610 mm) load center

**MASTS**

Masts are available in 2-stage limited free lift (LFL) and 2- 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 extension (LBE) 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.

**ENGINE**

- GM 4.3L emissions compliant engine features:
  - Cast iron block and cylinder heads with hardened exhaust valve seats, and hydraulic lifters
  - Electronically controlled LPG fuel system
  - Drive-by-wire throttle control
  - Electronic governor
  - Engine Control Unit (ECU)
  - Three-way catalytic converter exhaust system
  - 4.3L engine produces 100 horsepower

Kubota 3.8L EPA Certified Tier 4 Final Turbo Diesel engine features:

- 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

**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 extension (LBE)
- 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)

**TRANSMISSION**

- One Speed Electronic Powershift: Single range powershift, electronic inching (requires no adjustment), electric shift control, neutral start switch, and anti-restart protection. Also available with 2 forward speeds for increased gradeability and travel speeds (Standard on H80-90FT)
- 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
- DuraMatch2™: 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
- All radiators utilize cross-flow aluminum cores, pusher type fans and permanently lubricated water pump
- "Knife-edge" type fan shrouds that direct air flow through the counterweight air passages
- 15 psi operating system pressure
- Combi-cooler contains an externally mounted transmission oil cooler to aid in heat dissipation

**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
- 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
- Hydraulic breather filter includes an anti-splash baffle and is rated at three micron
- O-Ring face seal fittings with captive O-Ring grooves are used on all high pressure connections

- Emergency lowering valve allows load to be lowered in the event of battery power loss
- 100 Mesh suction line strainer

**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, 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
- 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 Wet Disc Brakes provide extremely long service life in continuous and/or multi-shift applications (Std. with 100-120FT)

**OPERATOR COMPARTMENT**

- Cowl-mounted hydraulic control levers
- TouchPoint electro-hydraulic seat side mini-Hever 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 superb 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.*