

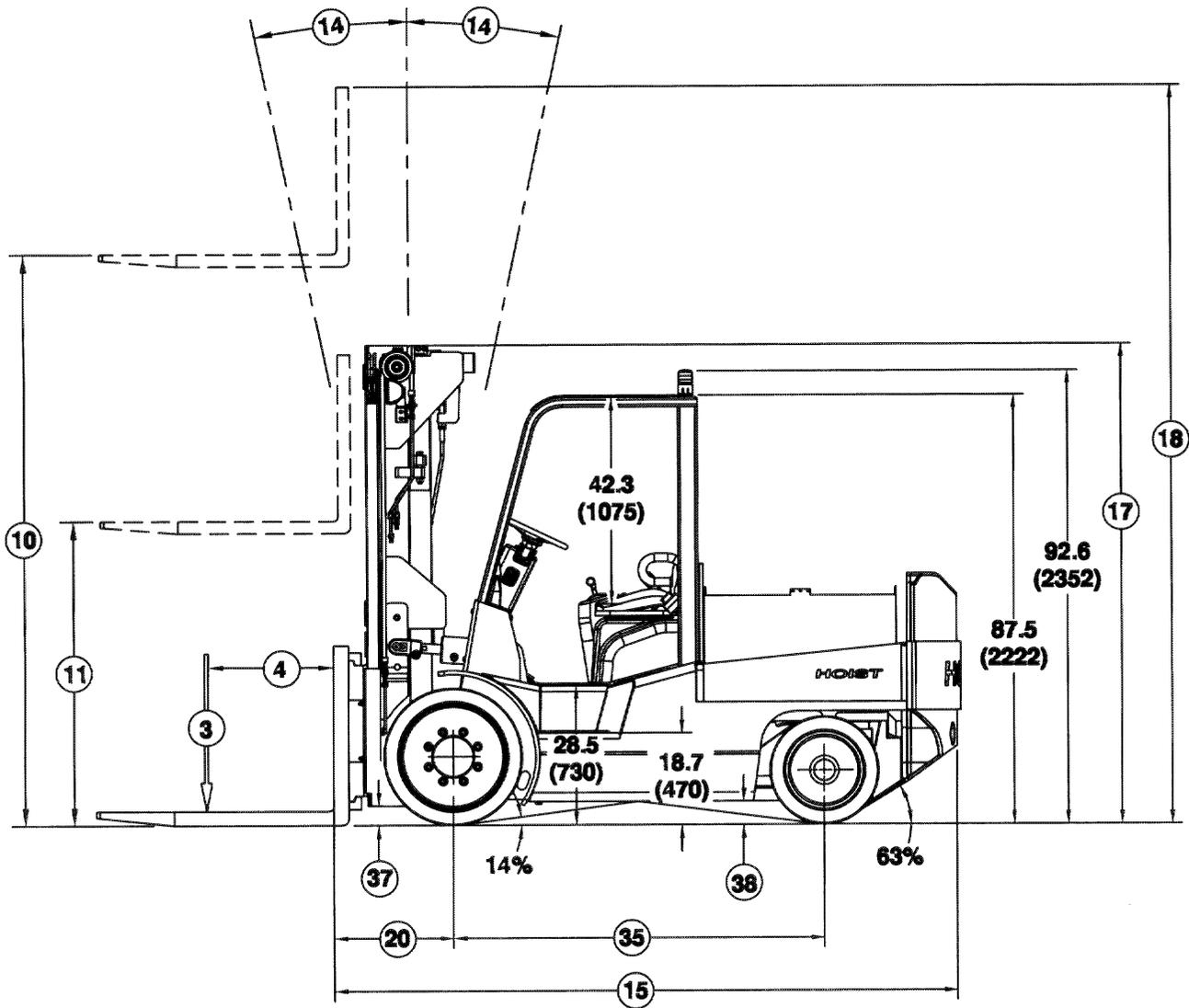
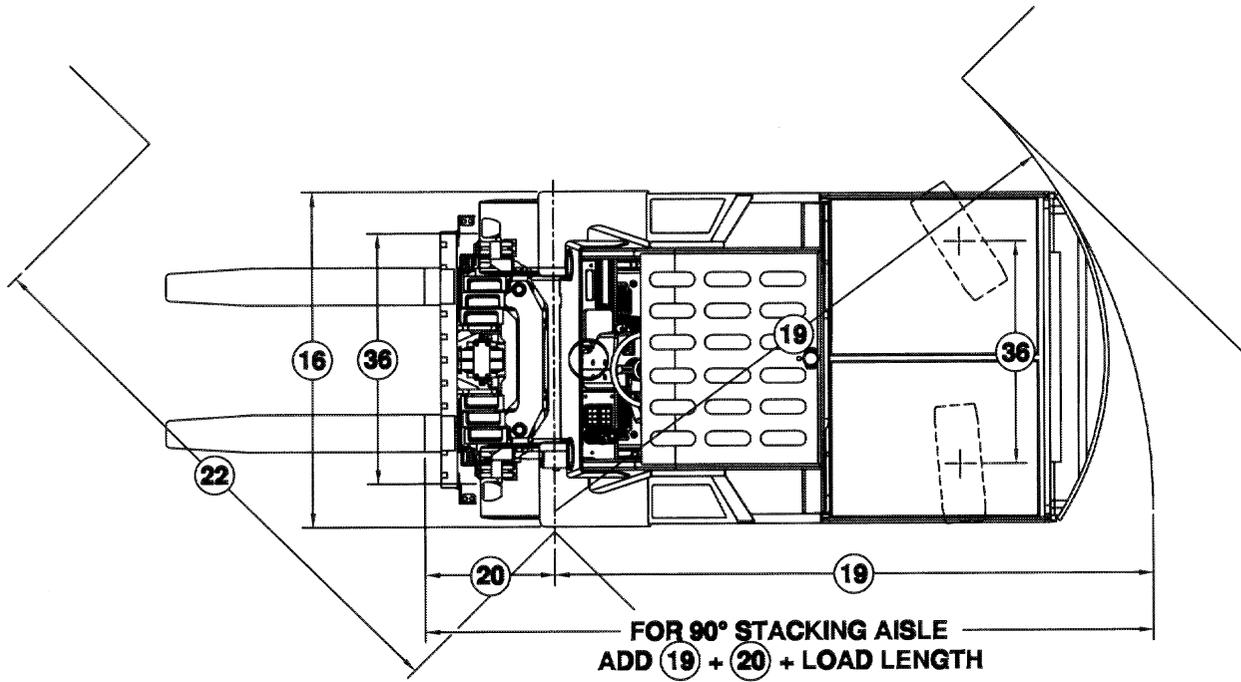
Lazer
Series™

Specifications



E150 E180 E200 E220

HOIST LIFTRUCK®



LAZER Series Lift Truck Specifications

GENERAL	1	Manufacturer		Hoist Liftruck Mfg., Inc.	Hoist Liftruck Mfg., Inc.	1
	2	Model		E 150	E 180	2
	3	Capacity, Rated	lb. (kg)	15,000 (6804)	18,000 (8180)	3
	4	Load Center	in. (mm)	24" (610)	24" (610)	4
	5	Power type		Electric	Electric	5
	6	Control type		Sit	Sit	6
	7	Tire type, front / rear		Solid / Solid	Solid / Solid	7
	8	Wheels, front / rear	(X=driven)	2 X / 2	2 X / 2	8
DIMENSIONS	10	2-stg. Limited free-lift (LFL) , (TOF)	in. (mm)	93 (2362)	93 (2362)	10
	11	Limited free-lift (TOF)	in. (mm)	0 (0)	0 (0)	11
	12	Opt. 3-stg.full free-lift (FFL), (TOF) with / w/o LBR	in. (mm)	140.25 (3560)	140.25 (3560)	12
	13	Forks, width / thickness	in. (mm)	6 (152) / 2.5 (64)	6 (152) / 2.5 (64)	13
	14	Tilt angle, forward / backward	Degree	6 / 8	6 / 8	14
	15	Lenth to face of forks	in. (mm)	124.33 (3158)	126.19 (3205)	15
	16	Overall width, standard tires	in. (mm)	63 (1600)	63 (1600)	16
	17	Height, std. mast lowered	in. (mm)	85.25 (2165)	85.25 (2165)	17
	18	Height, std. mast ext. without LBE	in. (mm)	140.5 ((3570)	140.5 ((3570)	18
	19	Turning radius, minimum outside	in. (mm)	110 (2794)	110 (2794)	19
	20	Center of drive wheel to face of forks	in. (mm)	21.38 (543)	23.25 (590)	20
22	Aisle width	in. (mm)	131.38 (3337)	133.25 (3391)	22	
23	Stability (Comply with ANSI, CE) *		YES / YES	YES / YES	23	
PERFORMANCE	24	Travel speed, Loaded / unloaded	mph (km/h)	5.8 (9.3) / 7.5 (12.1)	5.8 (9.3) / 7.5 (12.1)	24
	25	Lift speed, std. mast NL / RL	ft/min (m/s)	52 (0.30) / 34 (0.20)	49 (0.28) / 33 (0.19)	25
		Opt. 3-stg full free-lift (FFL) NL / RL	ft/min (m/s)	51 (0.29) / 32 (0.18)	47 (0.27) / 32 (0.18)	
	26	Lowering, std.mast, NL / RL	ft/min (m/s)	70 (0.356) / 113 (0.574)	65 (0.33) / 115 (0.584)	26
	Opt. 3-stg full free-lift (FFL) NL / RL	ft/min (m/s)	70 (0.356) / 113 (0.574)	65 (0.33) / 115 (0.584)		
WT.	30	Total approximate weight, standard truck, w/Battery	lb. (kg)	24360 (11049)	28150 (12769)	30
	31	Axle loading, static, front loaded / empty, w/Battery	lb. (kg)	34590 (15690) / 10230 (9640)	42800 (19414) / 13400 (6078)	31
		Axle loading, static, rear loaded / empty, w/Battery	lb. (kg)	4770 (2164) / 14130 (6409)	3350 (1519) / 14750 (6690)	
CHASSIS	32	Number tires, front / rear		2 / 2	2 / 2	32
	33	Size of tires, front		28 X 14 X 22	28 X 14 X 22	33
	34	Size of tires, rear		22 X 8 X 16	22 X 8 X 16	34
	35	Wheel base	in. (mm)	75 (1905)	75 (1905)	35
	36	Tread width, center of steer tires, single	in. (mm)	48 (1219)	48 (1219)	36
		Tread width, center of drive tires, single	in. (mm)	46 (1168)	46 (1168)	
	37	Ground clearance, no load lowest pt.	in. (mm)	4 (102)	4 (102)	36
	38	Ground clearance, no load ctr. whlbs	in. (mm)	4.5 (114)	4.5 (114)	34
DRIVE TRAIN	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	39
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	40
	41	Battery Type		Lead Acid	Lead Acid	41
	42	Battery, volts / ampere hours		2, 36 / 1320	2, 36 / 1320	42
	43	Battery, minimum weight	lb. (kg)	4380 (1962)	4380 (1962)	43
	44	Traction motor, 60 minute rating AS & AP	hp (kW)	17.7 (13.2)	17.7 (13.2)	44
		Pump motor, 15 minute rating AS & AP	hp (kW)	27 (20.1)	27 (20.1)	
	45	Traction motor control method	AS & AP	Hoist Transistor Control	Hoist Transistor Control	45
		Pump motor control method	AS & AP	Hoist Transistor Control	Hoist Transistor Control	
	Number of Speeds		Infinite variable	Infinite variable	49	
55	Relief pressure for attachments	psi (kPa)	2,250 (15,500)	2,250 (15,500)	55	

Note: The specifications for the Liftruck® in this specification sheet is when equipped with standard equipment. Actual specifications and performance may vary depending on how equipped, operating conditions, and condition of the forklift. If specifications are critical, the specific application should be reviewed with your dealer.



Lift Truck Specifications

GENERAL	1	Manufacturer		Hoist Liftruck Mfg., Inc.	Hoist Liftruck Mfg., Inc.	1	
	2	Model		E200	E220	2	
	3	Capacity, Rated	lb. (kg)	20,000 / 9072	22,000 / 10,000	3	
	4	Load Center	in. (mm)	24" (610)	24" (610)	4	
	5	Power type		Electric	Electric	5	
	6	Control type		Sit	Sit	6	
	7	Tire type, front / rear		Solid / Solid	Solid / Solid	7	
	8	Wheels, front / rear	(X=driven)	2 X / 2	2X / 2	8	
DIMENSIONS	10	2-stg. Limited free-lift (LFL) , (TOF)	in. (mm)	73.5 (1866)	73.5 (1866)	10	
	11	Limited free-lift (TOF)	in. (mm)	27 (685)	27 (685)	11	
	12	Opt. 3-stg. full free-lift (FFL), (TOF) with / w/o LFL	in. (mm)	108.75 (2762)	108.75 (2762)	12	
	13	Forks, width / thickness	in. (mm)	7 (178) / 3 (76)	7 (178) / 3 (76)	13	
	14	Tilt angle, forward / backward	Degree	6 / 8	6 / 8	14	
	15	Lenth to face of forks	in. (mm)	127.44 (3237)	127.44 (3237)	15	
	16	Overall width, standard tires	in. (mm)	63 (1600)	63 (1600)	16	
	17	Height, std. mast lowered	in. (mm)	85.25 (2165)	85.25 (2165)	17	
	18	Height, std. mast ext. without LBE	in. (mm)	128.75 (3270)	128.75 (3270)	18	
	19	Turning radius, minimum outside	in. (mm)	110 (2794)	110 (2794)	19	
	20	Center of drive wheel to face of forks	in. (mm)	24.5 (622)	24.5 (622)	20	
	22	Aisle width	in. (mm)	134.5 (3416)	134.5 (3416)	22	
	23	Stability (Comply with ANSI, CE) *		YES / YES	YES / YES	23	
	PERFORMANCE	24	Travel speed, Loaded / unloaded	mph (km/h)	5.8 (9.3) / 7.5 (12.1)	5.8 (9.3) / 7.5 (12.1)	24
		25	Lift speed, std. mast NL / RL	ft/min (m/s)	45 (0.26) / 31 (0.18)	45 (0.26) / 30 (0.17)	25
		Opt. 3-stg full free-lift (FFL) NL / RL	ft/min (m/s)	Options	Options		
26		Lowering, std. mast , NL / RL	ft/min (m/s)	60 (0.305) / 92 (0.467)	60 (0.305) / 92 (0.467)	26	
		Opt. 3-stg full free-lift (FFL) NL / RL	ft/min (m/s)	Options	Options		
WT.	30	Total approximate weight, standard truck	lb. (kg)	29200 (13245)	30300 (13744)	30	
	31	Axle loading, static, front loaded / empty	lb. (kg)	45590 (20679) / 12560 (5699)	48585 (22030) / 12560 (5697)	31	
		Axle loading, static, rear loaded / empty	lb. (kg)	3610 (1637) / 16640 (7548)	3715 (1685) / 17740 (8047)		
CHASSIS	32	Number tires front / rear		2 / 2	2 / 2	32	
	33	Size of tires, front		28 X 14 X 22	28 X 14 X 22	33	
	34	Size of tires, rear		22 X 8 X 16	22 X 8 X 16	34	
	35	Wheel base	in. (mm)	75 (1905)	75 (1905)	35	
	36	Tread width, center of steer tires, single	in. (mm)	48 (1219)	48 (1219)	36	
		Tread width, center of drive tires , single	in. (mm)	46 (1168)	46 (1168)		
	37	Ground clearance, no load lowest pt.	in. (mm)	4 (102)	4 (102)	36	
	38	Ground clearance, no load ctr. whlbs	in. (mm)	4.5 (114)	4.5 (114)	34	
DRIVE TRAIN	39	Brakes, method of control, service / parking		Hydraulic / Mechanical	Hydraulic / Mechanical	39	
	40	Brakes, method of operation, service / parking		Foot / Hand	Foot / Hand	40	
	41	Battery Type		Lead Acid	Lead Acid	41	
	42	Battery, volts / ampere hours		2, 36 / 1320	2, 36 / 1320	42	
	43	Battery, minimum weight	lb. (kg)	4800 (2150)	6128 (2780)	43	
	44	Traction motor, 60 minute rating AS & AP	hp (kW)	17.7 (13.2)	17.7 (13.2)	44	
		Pump motor, 15 minute rating AS & AP	hp (kW)	27 ((20.1)	27 ((20.1)		
	45	Traction motor control method	AS & AP	Hoist Transistor Control	Hoist Transistor Control	45	
		Pump motor control method	AS & AP	Hoist Transistor Control	Hoist Transistor Control		
		Number of Speeds		Infinite variable	Infinite variable	49	
	55	Relief pressure for attachments	psi (kPa)	2,250 (15,500)	2,250 (15,500)	55	

Note: The specifications for the Liftruck® in this specification sheet is when equipped with standard equipment. Actual specifications and performance may vary depending on how equipped, operating conditions, and condition of the forklift. If specifications are critical, the specific application should be reviewed with your dealer.



Mast Options

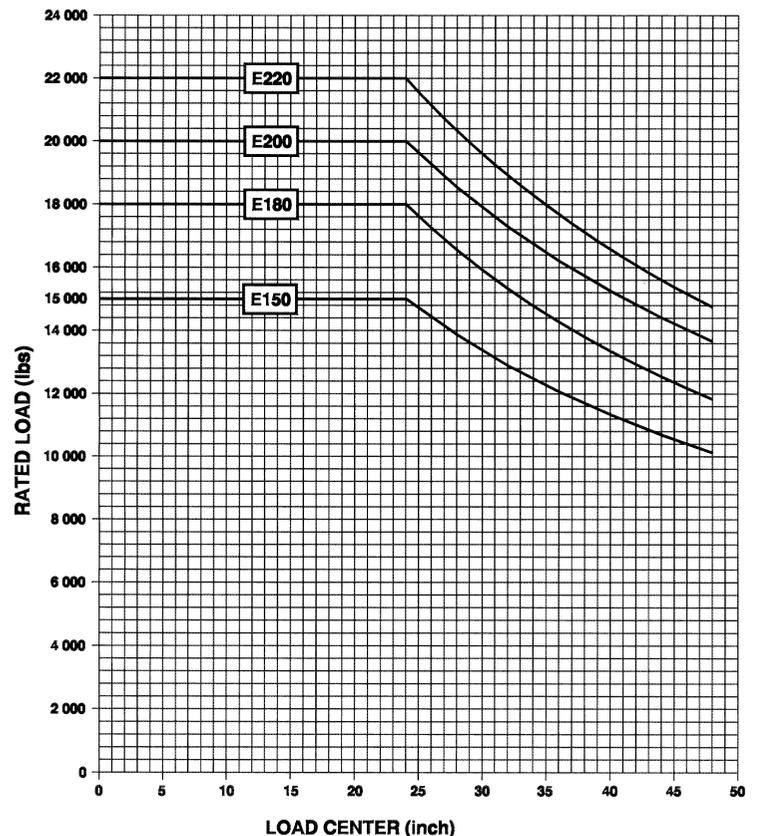
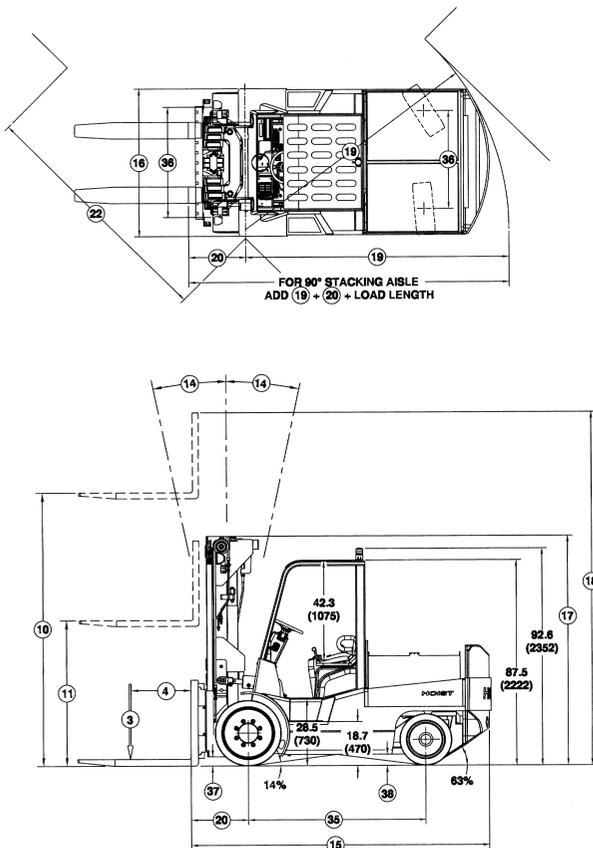
Low Height		Lift Height		Free Lift		
Inches	mm	Inches	mm	Inches	mm	
Lazer E150 - E180 HI-VIS						note
85.25	2165	93.00	2362	0	0	
98.00	2489	118.50	3010	0	0	
111.50	2832	145.50	3696	0	0	
137.00	3480	176.50	4483	0	0	**
155.00	3937	212.00	5385	0	0	**
Lazer E150 - E180 TRIPLE						
85.25	2165	140.50	3569	39.38	1000	
98.00	2489	178.75	4540	52.00	1321	**
111.50	2832	219.25	5569	65.50	1664	**
137.00	3480	275.50	6998	91.00	2311	**
Lazer E200 - E220 FREE LIFT						
85.25	2165	73.00	1854	25.00	635	
98.00	2489	98.75	2508	37.50	953	
111.50	2832	126.00	3200	51.50	1308	
137.00	3480	176.00	4470	74.50	1892	**
Lazer E200 - E220 TRIPLE						
85.25	2165	108.75	2762	25.00	635	
98.00	2489	146.75	3727	37.50	953	
111.50	2832	187.38	4759	51.50	1308	**
137.00	3480	243.88	6195	74.50	1892	**

Lazer[™]
Series

Battery Compartment

72 volt or 80 volt is required
Battery compartment
40" (1016mm) x 60" (1524 mm)
Max. Height w/ cover 30.9" (785 mm)

* Restricted tilt, reduced capacities, and/or wider tires may be required for extended lift heights.



THE LAZER SERIES FEATURES

CAPACITY

E150	15,000# @24" LOAD CENTER
E180	18,000# @24" LOAD CENTER
E200	20,000# @ 24" LOAD CENTER
E220	22,000# @24" LOAD CENTER

Capacity and / or tilt may be restricted or derated for 3-stage masts or lift heights above 170". Please check with your Hoist Dealer or call Hoist Liftruck for your specific needs.

HI-VIS Mast, ITA carriage, and 48" forks are included in the price of the truck. All trucks have two forward lights, two back-up lights, brake lights, back-up alarm, and yellow flashing beacon.

DRIVE MOTOR 17.7 HP drive motor features easy access for service by removal of just four bolts in the floor plate.

HYDRAULIC PUMP MOTOR is actuated on demand, conserving valuable battery power. Load sensors activate the motor to meet the requirements for lift, tilt, or steering. The motor is accessible through a door on the frame side, providing easy service and brush replacement without removing the motor.

"HOIST" TRANSISTOR CONTROL monitors the drive and pump motor. It controls travel speed and monitors lift, tilt and steering, maximizing battery life.

12-VOLT INVERTER provides fully fused 12-volt power to all the accessories.

LOW BATTERY LIFT INTERRUPT protects the electrical system and motors from low voltage damage.

TRACTION LOAD AXLE

- Hoist utilizes a planetary drive axle. Designed for high load capacities, extended service life, and reduced maintenance. All gears are heat treated and precision ground to deliver the reliability expected by our customers.

BRAKES

- Drum-type brakes provide solid reliability and easy service. Large braking surfaces give ample capacity in high usage applications without overheating or "glazing". Disc-type parking brake is hand-actuated to be set safely when the operator exits the truck. A warning light on the instrument panel alerts the driver when parking brake is engaged.

STEERING SYSTEM

- Hoist-designed steer axle requires only 2 3/4 turns of the wheel to provide lock-to-lock turning of the steer wheels. The heavy-duty steer axle features steel plate sections around one, double-acting cylinder. A full turn of the wheels provides maneuverability in tight areas while maintaining directional tracking of the tire, with no skidding or premature tire wear.

LAZER MAST DESIGN

- Heavy-duty extruded and rolled mast rails provide unsurpassed visibility on our standard "HI-VIS" mast. This mast provides full capacity at maximum lift heights. The mast and apron rollers integrate a side thrust roller to support uneven load distribution on the forks. For the full freelif or extended lift height requirements, we offer an optional 3-stage full freelif mast. Shielded hose reeving is included for auxiliary hosing. Talk to your local dealer for restrictions and special requirements.

CARRIAGES

- ITA CLASS IV OR CLASS V carriages with six roller support and integral side thrust rollers provide reliable support and load distribution. This provides for routine installation of any standard attachment.

FORKS

- 48" ITA mount pallet forks are included. Additional sizes, as well as coil contour forks, are available options.

HYDRAULIC SYSTEM

- Ergonomic "soft touch" control levers provide smooth, comfortable, controlled operation of the hydraulic functions. The load-sensing, "on-demand", hydraulic system provides smooth, reliable control and limits demands on the battery. The piston pump provides excellent control and quiet operation of the hydraulic controls. A fuse in the lift cylinder provides protection from sudden loss of pressure. In the event of a broken lift hose, the lift cylinder locks in position to provide safety for the operator, load and people or product near by.

TILT LOCK VALVE allows load only to be tilted when the truck is running.

OPERATORS COMPARTMENT

- The semi-suspension, adjustable seat, retractable seat belt, and hip restraints provide safe and comfortable operation of the Lazer Series Liftruck. The built-in cup holder, cushioned floor cover and clip board in the cabin assist in operator function and comfort. The easy entry/exit design, nonskid steps, tilt steering, illuminated digital instrumentation, column mount directional shifter, horn button and steering knob on steering wheel, complete the operator comfort package.

PNEUMATIC-SHAPED DRIVE TIRES

- A pneumatic-shaped drive tire is available on the Lazer Series, with lift heights up to 170". This provides benefits in applications with rough or wet floors.

OPTIONS

- Operator's cab, heater, wiper and defrosters, fire safe fluids, special attachments and tools, are only a few of the options available. Contact your dealer with your specific requirements for more information on how to meet your special needs.

SOUND LEVELS

- Exceptionally quiet operation exceeds worldwide standards and is reached via Hoist's exceptional drive train design and insulation of the operator's compartment.

Meeting the Needs of Heavy Industry

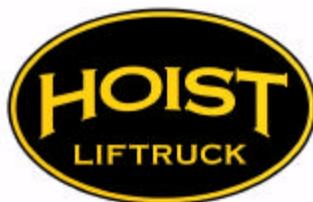


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Contact your local Hoist Liftruck® dealer for more information.



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Made in the U.S.A.

Hoist Liftruck continually improves its products. Specifications are subject to change without notice.