

# INDUSTRIAL LIFT TRUCK SPECIFICATION SHEET

# ZH-360L

Rated Capacity 36,000-lbs. (16,329 kg)

48-in. (1,219 mm) Load Center

148-in. (3,759 mm) Wheelbase



Cover image is for example purposes only and may not reflect current features.



## TAYLOR MACHINE WORKS, INC.

Founded in 1927 on the principles of “FAITH - VISION - WORK”, and entrenched with decades of Heavy Industrial Material Handling experience. Striving to bring the best possible solution to emissions requirements is a longstanding practice at Taylor, not just because of legislation requirements, but also because environmental care is vital to us and to our customers. Taylor’s reputation was built while performing in the harshest industrial environments. We strive to keep things simple and use appropriate technology that brings value and the Taylor ZH-360L continues that tradition!

### Performance: †

<b>Travel Speed</b>	Maximum Forward	mph (km/h)	17	28
<b>Lift Speed</b>	No Load	fpm (m/s)	68	0.35
	With Load	fpm (m/s)	65	0.33
<b>Lowering Speed</b>	No Load	fpm (m/s)	98	0.50
	With Load	fpm (m/s)	98	0.50
<b>Gradeability</b>	No Load*	%		32
	With Load*	%		29
<b>Drawbar Pull</b>	Maximum @ Stall*	lb (kN)	27,650	123
<b>Stability</b>	Comply with ANSI	%		Yes

\*PowerShift (Maximum @ Stall)

† NOTE: Performance specifications are based on trucks with standard equipment. Performance specifications are affected by the condition of the vehicle, its components, and the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your Taylor sales representative.



# ZH-360L

## Motor & Power Source:

Make & Model	PMSM Traction Motor (Permanent Magnet Synchronous Motor)
Tier Compliance	Zero Emissions Vehicle
Fuel	All-Electric Battery Power

<b>Traction Power Source</b>	Maximum Traction Output	hp (Kw)	201	150
	Maximum Traction Torque	ft-lbs/RPM (Nm/RPM)	738	2401
		Voltage (V)	660	
<b>Battery Pack</b>		Capacity (kWh)	246	

## Battery Capacity:

<b>Batteries</b>	Manufacturer	Proterra NMC		
	Capacity	(kWh)	246	
	Charging Time	(Minutes)	90+/-	

Nickel-Managanes-Cobalt battery technology provides industry-leading power density and competitive battery longevity, stability and safety when compared with other Lithium Ion battery chemistries. Nickel-Managanes-Cobalt chemistry is also one of the most eco-friendly battery chemistries available in these applications.

## Axles:

<b>Drive Axle</b>	Make & Model	Wet Disc	Dana E-Axle (144 P453)
<b>Steer Axle</b>	Make & Model		Taylor 300

The steer axle is a single hydraulic cylinder design with heavy-duty links from the cylinder ram directly to tapered roller bearing mounted spindles.

## CHARGING STATION

- **Power Output:** 180 kW (Max)
- **Charge Time:** 75 minutes
- **Socket Style:** CCS1 connection
- **Input:** 480 (Y) 3-phase
- **Breaker:** 300 amp
- **Cable length:** 20 feet



# Lift Truck Dimensions:

General		Manufacturer's Designation		ZH-360L		
Capacity		Rated Capacity	lb (kg)	36,000	16,329	
Load Center		Distance	in (mm)	48.0	1,219	
Wheelbase	G1	Distance	in (mm)	148.0	3,759	
Power Type		Battery Electric		Battery Electric		
Dimensions						
Upright Lift	D1	Lift Height (Ground to Top of Fork)	in (mm)	136.5	3,467	
Forks		Thickness	in (mm)	4.0	102	
		Width	in (mm)	8.0	203	
		Length	in (mm)	96.0	2,438	
		Tilt Angle	D2 Standard Upright - FWD/Backward	Degrees	17° / 10°	
Overall Dim.	D3	Length to Face of Forks	in (mm)	225.0	5,715	
	D4	Width (Standard Tires)	in (mm)	103.0	2,616	
	D5	Width (Carriage at Widest Point)	in (mm)	108.5	2,756	
	D6	Width (Over Counterweight/Fenders)	in (mm)	99.5	2,527	
	D7	Width (Standard Fork Spread)	in (mm)	100.0	2,540	
	D8	Overall Height (Lowered)	in (mm)	152.0	3,861	
	D9	Overall Height (Raised)	in (mm)	218.0	5,537	
	D10	Height (Ground to Top of Carriage)	in (mm)	76.5	1,943	
	D11	Height (Top of Counterweight)	in (mm)	83.0	2,108	
	D12	Height (Top of Cab)	in (mm)	143.0	3,632	
	Load Distance	D13	Center of Wheel to Face of Forks	in (mm)	40.3	1,022
	Turning Radius	R1	Minimum Outside	in (mm)	228.0	5,791
R2		Minimum Inside	in (mm)	43.0	1,092	
Aisle Width		(Add Load Length for 90° Stacking)	in (mm)	268.0	6,807	
Weight						
Total Apprx.		Standard Truck	lb (kg)	59,100	26,807	
Axle Loading		Static with Rated Load (Front)	lb (kg)	86,565	39,265	
		Static with Rated Load (Rear)	lb (kg)	8,535	3,871	
		Static with No Load (Front)	lb (kg)	29,100	13,200	
		Static with No Load (Rear)	lb (kg)	30,000	13,608	
Wheels & Tires						
Tire Type		Cushion or Pneumatic (Front / Rear)		Pneumatic / Pneumatic		
Wheels		Number (Front / Rear)		4 / 2		
Tires		Number (Front / Rear)		4 / 2		
		Size (Front)		12.00 X 20 - 24 PR		
		Size (Rear)		12.00 X 20 - 24 PR		
	Tread	W1	Center of Outside Tires (Front)	in (mm)	90.0	2,286
	W2	Center of Tires (Rear)	in (mm)	80.0	2,032	
Ground Clearance		Lowest Point (No Load)	in (mm)	9.0	229	
		Center of Wheelbase (No Load)	in (mm)	14.0	356	
Brakes		System Type		Wet Disc		
		Control Method (Service / Parking)		Foot / Hand		
		Operation Method (Service / Parking)		Hyd / Spring		
Misc.						
Load Moment			in-lbs (m-kg)	3,179,000	36,626	
Relief Pressure		For Attachments	psi (bar)	2,500	172	
Hydraulic Fluid		Tank Capacity	gal (L)	78	295	



## Mast Dimensions:

<b>11' ULTRA-VU*</b>	Standard	D1	Lift Height (Ground to Top of Fork)	in (mm)	136.5	3,467
		D8	Overall Height (Lowered)	in (mm)	152.0	3,861
		D9	Overall Height (Raised)	in (mm)	218.0	5,537
<b>13' ULTRA-VU*</b>	Optional	D1	Lift Height (Ground to Top of Fork)	in (mm)	160.5	4,077
		D8	Overall Height (Lowered)	in (mm)	164.0	4,166
		D9	Overall Height (Raised)	in (mm)	242.0	6,147
<b>15' ULTRA-VU*</b>	Optional	D1	Lift Height (Ground to Top of Fork)	in (mm)	184.5	4,686
		D8	Overall Height (Lowered)	in (mm)	176.0	4,470
		D9	Overall Height (Raised)	in (mm)	266.0	6,756
<b>18' ULTRA-VU*</b>	Optional	D1	Lift Height (Ground to Top of Fork)	in (mm)	220.5	5,601
		D8	Overall Height (Lowered)	in (mm)	194.0	4,928
		D9	Overall Height (Raised)	in (mm)	302.0	7,671

\* The Taylor ULTRA-VU telescopic mast has two multiple-leaf lift chains that are nested inside the mast rails for improved visibility. The double-acting lift cylinders are nested to the rear of the mast rails. The mast is constructed of high-strength steel and has two lifting eyes and bolt-on caps that permit safe, easy removal.

## Carriage Dimensions:

<b>Carriage</b>	Standard	D7	Pin-type "C" carriage with individual fork positioning & side shift	in (mm)	100.0	2,540
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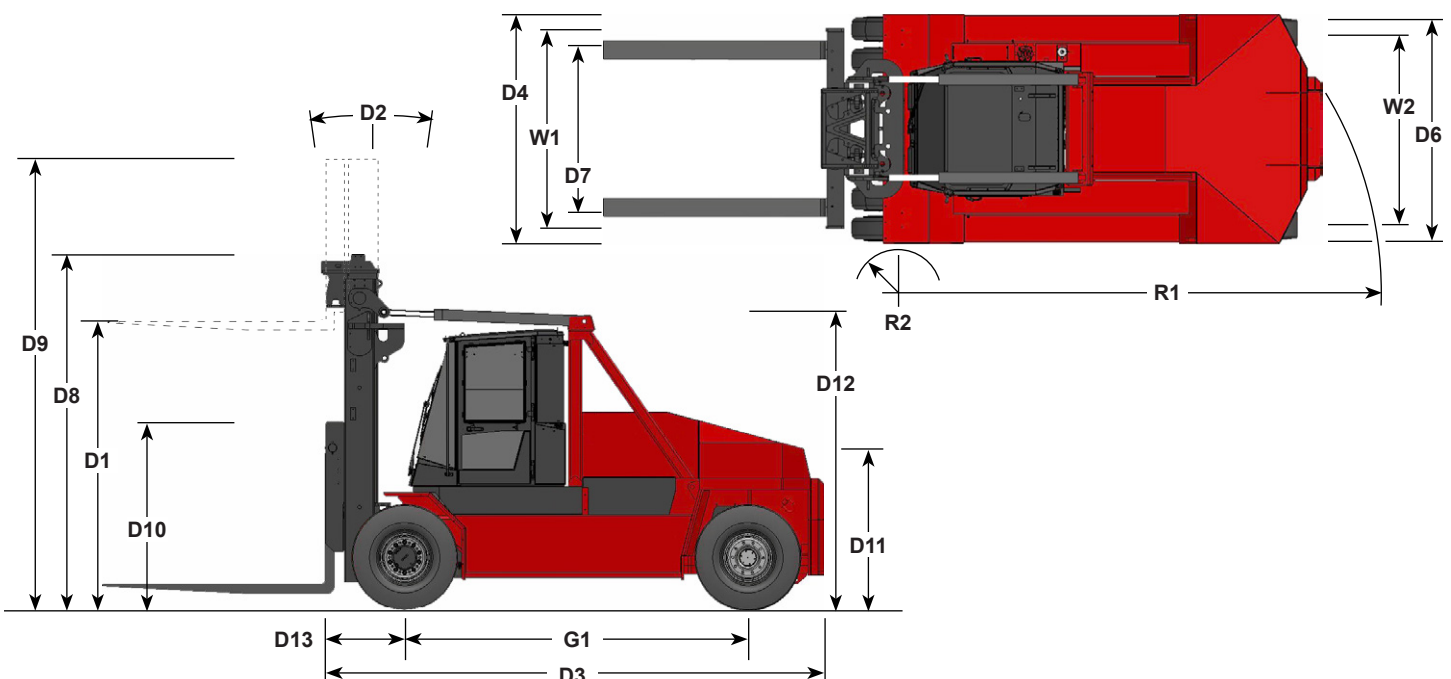
*Dimension references  
"Standard Fork Spread"*

The mast and carriage main rollers are common and use shielded roller bearings.

## Fork Dimensions:

<b>Forks</b>	Standard	Thickness	in (mm)	4.0	102
		Width	in (mm)	8.0	203
		Length	in (mm)	96.0	2,438

The forks are pin-mounted and fully adjust from the outer carriage plates to the center brace. They are forged from heat treated steel and have square tips and bottom tapers. Optional fork or coil ram configurations are available but may effect the rated capacity of the standard truck and could require additional equipment. Any optional fork or coil ram application should be discussed with your Taylor sales representative.



## Standard Features: ZH-360L

- 11' ULTRA-VU 2-Stage Mast (152-in lowered height)
- 100-in Pin-type "C" Carriage with individual fork positioning & side shift
- 4-in X 8-in X 96-in pin mounted Forks
- Permanent Magnet Synchronous Motor
- 90+/- minutes charging time
- High voltage electrical system (660 volt)
- Nickel-Manganese-Cobalt Battery Technology
- Dana E-axle (144 P453)
- Energy Recovery Technology (through regenerative braking)
- Taylor HD-300 welded steel Steer Axle (single hydraulic cylinder design with heavy-duty links from the cylinder ram directly to tapered roller bearing mounted spindles)
- 12.00 X 20 – 24PR bias pneumatic drive and steer tires (high load)

## Chassis

- All-welded steel frame with 4 lifting eyes (lifting eyes not designed for level pick)
- Replaceable bolt-on steps and handrails
- A-Pillar design with overhead tilt cylinders provides enhanced structural rigidity for chassis and mast.

## Cab

- Enclosed 2-door steel all-welded DREAM Cab (includes dome light, wide angle mirrors, door hold back latches with trip handles, handrails, black floor mats and is isolation mounted for noise and vibration reduction)
- Cab heater and interior circulation fan
- Tinted glass with front and rear windshield wipers and front windshield washer
- Fully adjustable air ride swivel seat
- Multifunction Joystick mounted on adjustable arm rest with integrated directional shift control
- Operator Restraint System (Orange, anti-cinch seat belt with starting sequence neutral lock)
- Operator Presence System with timed idle and neutral shutdown (5 minute default, password adjustable from 1-120 minutes by end user)
- Taylor Integrated Control System (TICS) ...see next page for additional info
- 7-in touch screen color display
- TaylorTrak Pro Advanced Fleet Telematics hardware
- The one-piece flip-down instrument panel is pre-wired to accommodate heavy-duty accessories.
- All wiring is color and number coded.
- Dual USB charging ports
- Hydrostatic, steer-on-demand power steering with tilt steering column

## Low Voltage Electrical System

- 24-volt electrical system
- Dual heavy-duty lead-acid batteries (for system startup)
- Battery disconnect/lock-out switch
- (4) forward facing LED work lights (cab mounted)
- (2) rear facing LED work lights ("A" pillar mounted)
- (2) LED work lights (mast mounted)
- Circuit breakers with heavy duty connectors (no automotive type fuses)
- Breaker reset switches
- Key-type anti-restart ignition switch
- Dual electric trumpet horns (116 dBA)
- Keyswitch-actuated amber strobe light
- Forward and reverse-actuated warning alarms

## Vehicle Information Package

- Operators Guide
- Maintenance and Service documentation including key circuit drawings (Serial Number Specific Parts Book is available upon request)
- Safety Check Manual and Video



Fully Enclosed 2-Door Cab with Multiple Climate Control Configurations Available (featured cab is shown with available options)



Ergonomic & Serviceable Joystick (Standard)



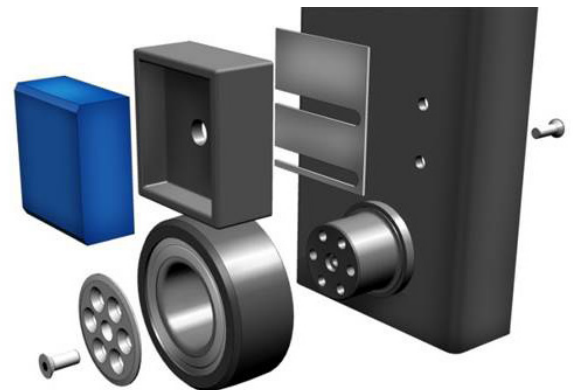
Fully Adjustable Air-Ride Seat (Standard)



Industry's Toughest Steer Axle (Standard)



Vehicle Information Package "VIP" (Standard)



The mast and carriage main rollers are common and use tapered roller bearings. The side thrust pads, made from cast nylon, are adjustable to compensate for wear.

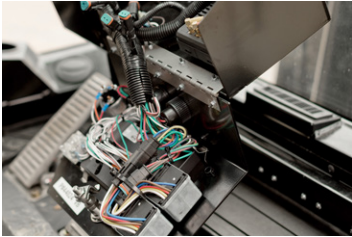
## NEED OPTIONS?

Just ask one of our Taylor Specialist.

Taylor Machine Works was founded on the promise of meeting our customer's needs. The signage on our original facility in 1927 stated "We Engineer and Build What You Need" and those ideals still ring true today! From multiple Mast, Carriage and Fork configurations to Special Attachments that are unique to your business, we will step forward to meet the challenge. We have a dedicated engineering group focused on meeting special request from our customers. This ensures that you have the exact equipment you need to tackle your rugged applications. With hundreds of options readily available for our trucks, and the ability to custom engineer any other need that arises, Taylor Machine Works is here ready to serve.

## Serviceability

Taylor Lift Trucks are designed with ease of maintenance and serviceability as a key priority. The Zero Emissions ZH-360L eliminates service requirements normally encountered with diesel engine driven powertrains. The electric traction and pump motors are maintenance free as is the high-voltage battery pack. Internal system controls monitor the battery conditions and provide information to the user when faults occur or when attention is required. All daily checks across the Taylor product line can be accessed from either the ground or running board, ensuring that operators can complete these requirements with ease.



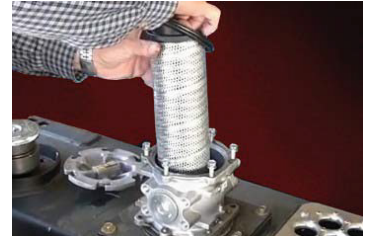
Flip-down Dash with Color/Number Coded Wiring (Standard)



Heavy Duty Circuit Breakers/Reset Switches (Standard)



Service & Inspection from Ground Level



Spin-on Breather, Wire Mesh Strainer & Replaceable Internal Element (Standard)

## Hydraulics & Brakes

Taylor Lift Trucks feature hydraulic systems, including pumps and valves, which maximize performance and efficiency and minimize power consumption. Joystick controls can be tuned for operator comfort and optimized control. The hydraulic tank features a spin-on breather, wire mesh strainers, full-flow 10-micron return line filters and a replaceable internal element. The hydraulic oil and wet disc brakes are cooled by an air to oil cooler separate from the transmission cooler. Taylor strives to keep things simple and user friendly.

## Taylor Integrated Control System (TICS)

The TICS system is a vehicle electronic control system comprised of multiple components including an operator display module, which provides integrated control of the battery, electronic and hydraulic systems on the truck. J1939 CANbus technology allows all machine data to be accessed through the 7-in. touch screen color display (located in the cab) and allows controllers and sensors to communicate with minimal wiring between the components. The display indicates battery system, transmission, hydraulic, and controls information as well as active warnings, battery state of charge, maintenance data and man/machine interface data. The display also allows service personnel to access data needed during troubleshooting (such as sensor status and controller outputs). Machine functions can be tuned through this display and are password protected.



TICS gives customers the ability to customize operation parameters of their Taylor lift truck, perform diagnostics, and monitor key functions including battery state of charge. The TICS interface is simple, easy to understand and user friendly. The TICS diagnostic ability is key to quick repair and less downtime. Troubleshooting and diagnosing most problems can be done by the customer's own mechanic, without the need for a service tech with a detached computer. There are multiple options available including, but not limited to, scale systems, modem based fleet tracking and the Vision Plus™ pedestrian detection system.

**DISCLAIMER:**

This vehicle is certified to meet the applicable design and performance criteria required for Powered Industrial Trucks in OSHA Safety and Health Standards, Title 29 CFR, Part 1910.178, and the applicable design and performance requirements in ANSI B56.1 that were in effect at the time of manufacture. These standards also apply to the user and should be adhered to while operating this vehicle.

All specifications are subject to change without notice. Some operating data may be affected by the condition of the vehicle, how it is operated and the nature and condition of the operating area. If these specifications are critical, contact the factory.



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## 24/7 Worldwide Support

No-one can match our record for service and reliability.  
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