



MPC-VG

LOW LIFT PALLET

6,000 · 8,000 lbs

Yale® motorized hand trucks combine the latest in state-of-the-art technology and ergonomics making Yale the leader for motorized hand applications.

The Yale Center Rider trucks are primarily used for low-level order picking and transporting pallets between dock and storage aisles.

Controls

The control handle design provides full control of travel, steering and horn and allows for optimum maneuverability from the ride or walk beside position. Vertical adjustment of the control handle allows for a comfortable driving stance and the flexibility to move the handle forward to a locked position for easy access to the battery.

Travel: Full width grips allow smooth speed control with either the right or left hand. A high-speed or "rabbit" foot switch is mounted on the floor of the operators compartment.

Operator's Compartment

The ergonomically designed operator's compartment is a spacious 20.8" deep and 32" wide. The forward bulkhead and operators backplate are padded. The 1" thick cushioned floormat absorbs shock and helps reduce operator fatigue. The floormat is removable for cleaning. The compartment step height is 10.6" with forks raised and 4.6" with forks lowered.

Electrical System

The electrical system utilizes AC drive technology designed for exceptional performance. High starting torque and smooth acceleration are a few factors benefited from this technology. A speed sensor built into the motor provides feedback to the control system, allowing motor speed and direction to be continuously monitored. The MPC provides industry leading acceleration and a top speed up to 9 mph.

CANbus Communication Technology

streamlines communications between truck systems. The control handle, controller, display and optional power assist steer communicate via the CANbus network. CANbus reduces wiring and electrical connections.

A Thermal Management System

continuously monitors traction motor and motor controller temperatures, and if necessary, the system gradually adjusts performance to protect truck systems.

AC Traction System

The traction system consists of the traction motor, gearbox, and brake. The innovative gear box design incorporates maintenance free steer bearings, a stationary mounted traction motor, integrated motor pinion, and drive axle string guard. The permanently lubricated steer bearings are sealed within the gearbox housing. The stationary traction motor eliminates power cable tension and flex. The integral pinion and support bearings optimize the gear mesh resulting in a quieter gearbox. The splined coupling allows for quick removal and installation of the traction motor. The drive axle string guard minimizes axle seal damage from shrink-wrap, banding, etc. The electrically released/mechanically applied brake is mounted on the top of the traction motor for ease of inspection and service.

Brake

The brake is an electrically released, spring applied, electro-mechanical brake. Plugging or braking using the hand levers are acceptable methods for stopping the truck. Within the range of motion for the brake levers there are two "zones". The first zone applies regenerative braking. The second zone fully applies the brake. The hand brake mechanism is equipped with a detent in order to provide the operator with an indication between the regenerative braking range and fully applying the brake.

Park brake is engaged when the brake switch located on the cowl is turned to the "on" position. The key switch turned to the "off" position will also engage the park brake.

Hydraulic Components

The hydraulic system is designed for high cycle, multi-shift operations. The motor provides high torque, low noise and is easily serviceable. The translucent tank allows quick and easy inspection of hydraulic oil level.

Forks and Frame

Heavy gauge plate and bar steel frame is electrically welded into unitized structure for rigidity and strength. The front bumper is a full 1/2" thick for toughness and 3-5/8" off the floor to allow for good ramp and dockplate clearance.

Robotically welded forks are formed and fabricated for strength and rigidity. The 1" x 2" pull rods and replaceable threaded ends allow for easy fork adjustment. Pull rod adjustment can be easily made from the top of the fork.

Electrical compartment cover is a durable engineered thermo-plastic elastomer and conveniently snaps into place.

Pallet Entry and Exit

Yale fork design provides industry leading pallet entry and exit. The pallet entry and exit system consists of a tapered nose, exit runners and a center roller.

Load Wheels, Drive Tires and Casters

The standard load wheel configuration is a single load wheel with two roller bearings per wheel on the MPC060VG and four roller bearings per wheel on the MPC080VG. The load wheel compound is molded over a steel wheel and measures 3.25" in diameter by 6.5" in length. A knock-out axle provides for quick and easy maintenance.

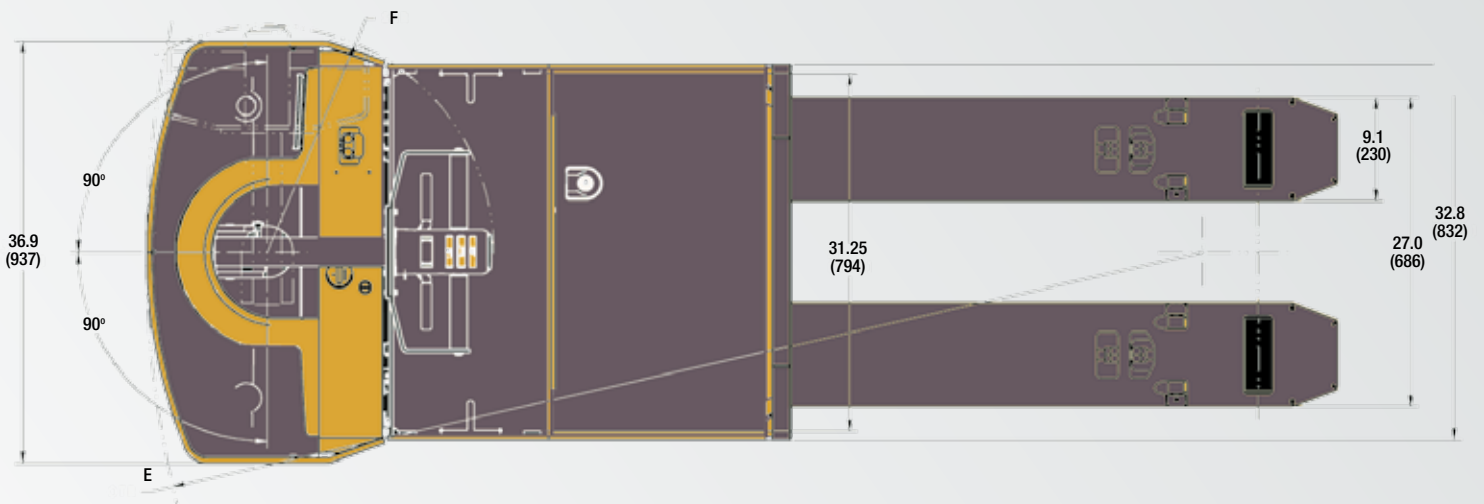
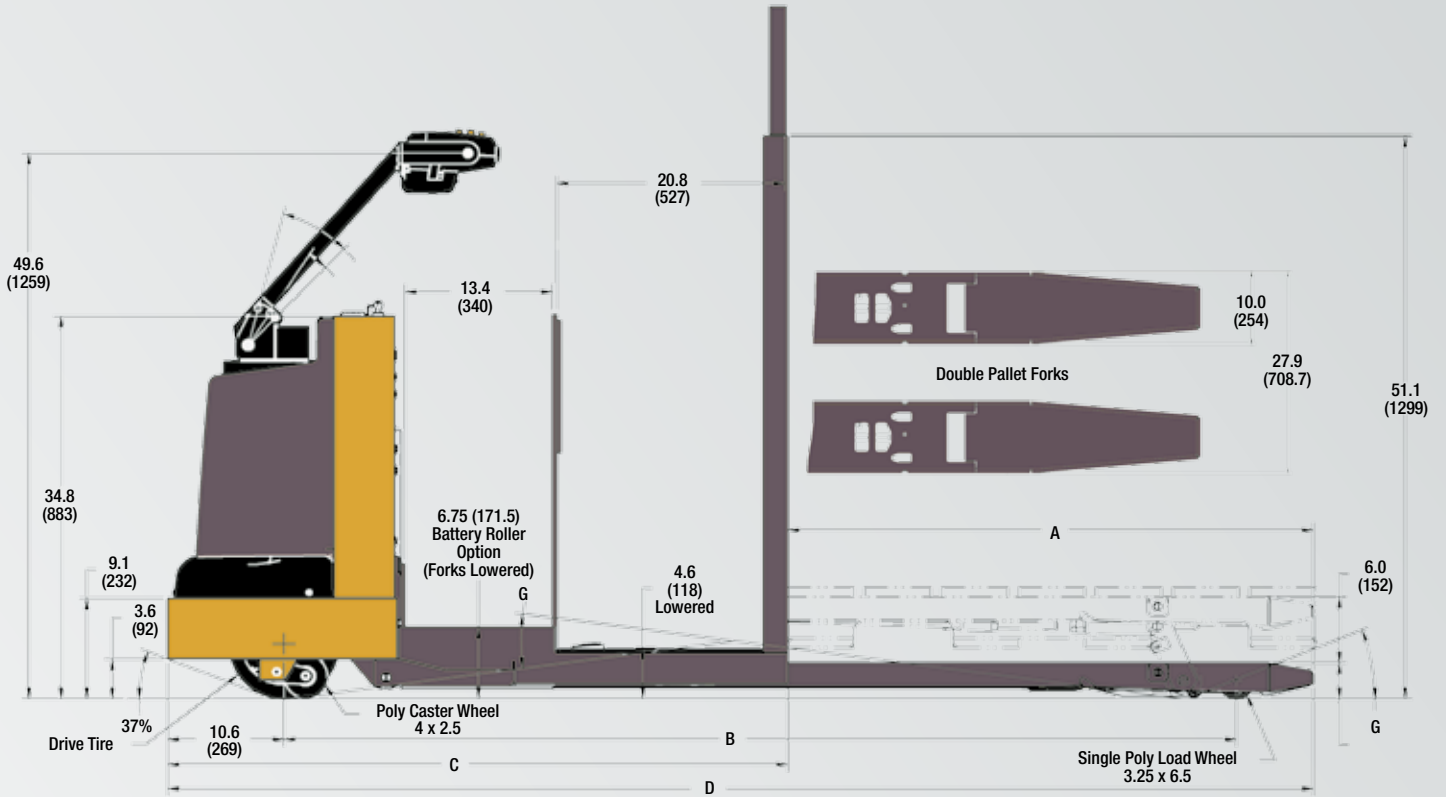
The drive tire for both the 6,000 and 8,000 lbs. model is 12" x 4.5". A 90 durometer polyurethane compound is standard on both trucks. The drive wheel is secured to the drive axle with five bolts. Two spring-loaded casters stabilize the load when cornering.

Additional Features

Lubrication: Fill and drain plugs are provided. All frame lubricating points are equipped with high pressure grease fittings. The horn switch is conveniently located on the control handle. The key switch is positioned on the frame cowl. Paint: gold and black.

(continued on back)





GENERAL	1	Manufacturer	Yale®							
	2	Model	MPC060VG							
	3	Capacity, rated	lbs (kg)	6,000 (2722)						
	4	Voltage	24							
DIMENSIONS	5	Nominal fork length	in (mm)	36.0 (914)	48.0 (1219)	60.0 (1524)				
	6	Width across forks	in (mm)	27.1 (688)			60.0 (1524)			
	7	Chassis length w/std. 13.4" battery compartment	in (mm)	58.9 (1496)						
	8	Overall length, w/std. 13.4" battery compartment	in (mm)	94.6 (2404)	106.6 (2709)	118.7 (3014)				
	9	Wheelbase, lowered w/13.4" battery compartment	in (mm)	76.0 (1932)	88.0 (2236)	100.1 (2541)				
		Wheelbase, raised w/13.4" battery compartment	in (mm)	72.2 (1834)	84.2 (2139)	96.2 (2444)				
	10	Turning radius, lowered, w/13.4" batt. cpm/ wide handle	in (mm)	90.7 (2304)	102.6 (2607)	114.3 (2903)				
		Turning radius, raised, w/13.4" batt. cpm/ wide handle	in (mm)	87.0 (2209)	98.9 (2512)	110.5 (2807)				
	11	Right angle aisle, w/13.4" battery compartment ^{††}	in (mm)	96.0 (2438)	107.6 (2733)	119.8 (3042)				
	12	Equal intersecting aisle, w/13.4" battery compartment ^{††}	in (mm)	71.9 (1827)	78.2 (1987)	84.5 (2147)				
13	Grade clearance, center wheelbase, raised w/pallet	%	27	23	20					
	Grade clearance, forks end, raised w/pallet	%	37			20				
14	Overall lift height (TOF)	in (mm)	9.25 (235)							
BATT.	17	Battery compartment size - std. 13.4", (L x W x H) *	in	31.2 x 13.4 x Open						
		Battery compartment size - std. 13.4", (L x W x H) *	(mm)	(792 x 340 x Open)						
PERF. †	20	Travel speed, std. equipped truck No Load	mph (km/h)	9.0 (14.5)						
		Travel speed, std. equipped truck Rated Load	mph (km/h)	5.2 (8.4)						
	21	Lift / lower speed, No Load	seconds	3.3 / 1.9						
		Lift / lower speed, 6,000 lbs. Load	seconds	4.5 / 1.2						
WHEELS	22	Drive Tire Size (Polyurethane)	12.0 x 4.5 x 8.0							
	23	Load wheel size, tandem (Polyurethane)	(2 x) 3.25 x 6.50							
	24	Total approx. weight, 13.4" compartment - w/o battery	lbs (kg)	1,807 (820)						

MPC060-080VG pallet trucks use Red battery connector - 20" (508 mm) 1/0 gauge leads, B position.

* Length is measured side to side of truck.

†† Equal Intersecting Aisle and Right Angle Aisle Stacking dimensions are with standard GMA pallet(s) that measure 48.0" x 40.0".

CERTIFICATION: These Yale lift trucks are designed to meet applicable regulatory codes and standards of OSHA, subpart n, Section 1910.178; ASME B56.1-1993, and current revisions; and U.L. 583 Standard of Electric Battery Powered Industrial Trucks.

† NOTE: Performance specifications are for truck equipped as described under Standard Equipment. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed applications should be discussed with your local authorized Yale dealer.

GENERAL	1	Manufacturer	Yale®										
	2	Model	MPC080VG										
	3	Capacity, rated	lbs (kg)	8,000 (3629)									
	4	Voltage	24										
DIMENSIONS	5	Nominal fork length	in (mm)	36.0 (914)	48.0 (1219)	60.0 (1524)	84.0 (2134)	93.0 (2362)	96.0 (2438)	144 (3658)			
	6	Width across forks	in (mm)	27.1 (688)			27.9 (710)					28.6 (726)	
	7	Chassis length w/std. 13.4" battery compartment	in (mm)	58.9 (1496)									
	8	Overall length, w/std. 13.4" battery compartment	in (mm)	94.6 (2404)	106.6 (2709)	118.7 (3014)	142.6 (3622)	151.6 (3851)	154.6 (3927)	202.7 (5148)			
	9	Wheelbase, lowered w/13.4" battery compartment	in (mm)	76.0 (1932)	88.0 (2236)	100.1 (2541)	109.0 (2770)				136.1 (3456)		
		Wheelbase, raised w/13.4" battery compartment	in (mm)	72.2 (1834)	84.2 (2139)	96.2 (2444)	105.2 (2672)				132.2 (3359)		
	10	Turning radius, lowered, w/13.4" batt. cpm/ wide handle	in (mm)	90.7 (2304)	102.6 (2607)	114.3 (2903)	123.3 (3132)				149.9 (3808)		
		Turning radius, raised, w/13.4" batt. cpm/ wide handle	in (mm)	87.0 (2209)	98.9 (2512)	110.5 (2807)	119.5 (3036)				146.1 (3712)		
	11	Right angle aisle, w/13.4" battery compartment ^{††}	in (mm)	96.0 (2413)	107.6 (2733)	119.8 (3042)	157.0 (3988)				207.2 (5262)		
	12	Equal intersecting aisle, w/13.4" battery compartment ^{††}	in (mm)	71.9 (1827)	78.2 (1987)	84.5 (2147)	91.1 (2315)				107.4 (2727)		
13	Grade clearance, center wheelbase, raised w/pallet	%	27	23	20	17		18	12	14			
	Grade clearance, forks end, raised w/pallet	%	37			17		13	12	8			
14	Overall lift height (TOF)	in (mm)	9.25 (235)					9.3 (235)					
BATT.	17	Battery compartment size - std. 13.4", (L x W x H) *	in	31.2 x 13.4 x Open									
		Battery compartment size - std. 13.4", (L x W x H) *	(mm)	(792 x 340 x Open)									
PERF. †	20	Travel speed, std. equipped truck No Load	mph (km/h)	9.0 (14.5)									
		Travel speed, std. equipped truck Rated Load	mph (km/h)	5.2 (8.4)									
	21	Lift / lower speed, No Load	seconds	3.7 / 6.4									
		Lift / lower speed, 6,000 lbs. Load	seconds	5.4 / 2.4									
WHEELS	22	Drive Tire Size (Polyurethane)	12.0 x 4.5 x 8.0										
	23	Load wheel size, tandem (Polyurethane)	(2 x) 3.25 x 6.50					(2 x) 3.25 x 6.49			(2 x) 3.25 x 6.50		
	24	Total approx. weight, 13.4" compartment - w/o battery	lbs (kg)	1,716 (778)	1,807 (820)	1,897 (860)	2,010 (912)	2,039 (925)	2,048 (929)	2,312 (1051)			

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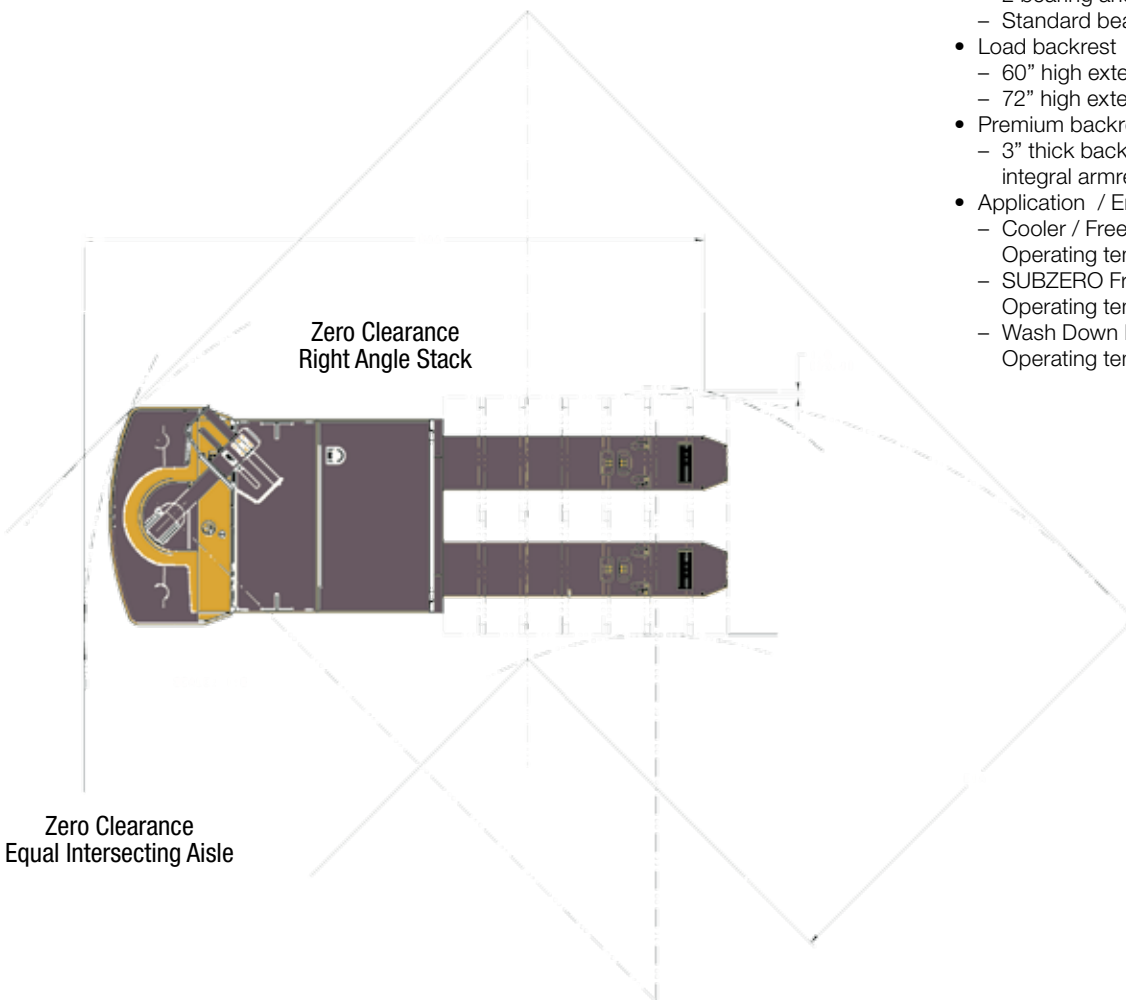
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Battery and Compartment Specifications							
24 Volt – 6000 & 8000 lbs Capacity Low-Lift Pallet Truck BATTERY COMPARTMENT: 31.25 (794) X 13.4 (340) X OPEN							
Number of Cells	Cell Size	Plates per Cell	Capacity 6 Hour Rate amp hr (kwh)	Battery Dimensions			Max. Weight lb. (kg)
				"X" in. (mm)	"Y" in. (mm)	"Z" in. (mm)	
12	75	11	375 (8.7)	26.5 (673)	13.0 (330)	23.3 (592)	825 (374)
12	85	11	425 (9.9)	26.1 (663)	13.0 (330)	23.3 (592)	865 (392)
12	75	13	450 (10.5)	30.9 (785)	13.0 (330)	23.3 (592)	987 (448)
12	85	13	510 (11.9)	30.9 (785)	13.0 (330)	23.3 (592)	1035 (469)
12	100	13	600 (14.0)	30.9 (785)	13.0 (330)	26.2 (665)	1200 (544)
12	125	13	750 (17.6)	30.9 (785)	13.0 (330)	31.0 (787)	1500 (680)
12	155	13	930 (21.5)	30.9 (785)	13.0 (330)	31.0 (787)	1500 (680)

- (1) Battery Connector: SB 175 Amp Red - Standard / SB 175 Amp Grey - Optional
- (2) Battery Lead: Length 20" (508mm), Position "B", 1/0 AWG
- (3) Battery Cover Required

Options

- UL Classification Type EE
- Battery rollers
- RF terminal power supply – 24 volt
- Audible alarm – self adjusting back up alarm
- Visible alarm – pole mounted amber strobe
- Stability casters
 - Heavy duty – sealed wheel
- Fork lengths
 - 36" long forks – standard tip
 - 60" long forks – standard tip
 - 84" long forks – extended tip
 - 93" long forks – extended tip
 - 96" long forks – extended tip
 - 44" long forks – short wheelbase extended tip (MPC080VG only)
- Drive tire
 - Soft polyurethane – 80 durometer, 12"x4.5"
 - Red polyurethane – 85 durometer, 12"x4.5"
 - Vulkollan polyurethane – 90 durometer, 12" x 4.5"
- Load wheels
 - Single and dual
 - 2 bearing and 4 bearing
 - Standard bearing and sealed
- Load backrest
 - 60" high extension
 - 72" high extension
- Premium backrest
 - 3" thick backpad with auxiliary controls and integral armrest
- Application / Environmental Construction
 - Cooler / Freezer Package:
Operating temperatures: 0°F to +120°F
 - SUBZERO Freezer Package:
Operating temperatures: -40°F to +120°F
 - Wash Down Package:
Operating temperatures: 0°F to +120°F



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Manufactured in our own ISO 9001 and 14001 Registered Facilities

Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

This truck meets all applicable mandatory requirements of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture. Classified by Underwriters' Laboratories, Inc., as to fire and electric shock hazard only for Type E industrial trucks.

The Yale® products included in this document may be covered by US patent 6,684,148 and other patents pending.