

MPB-VG

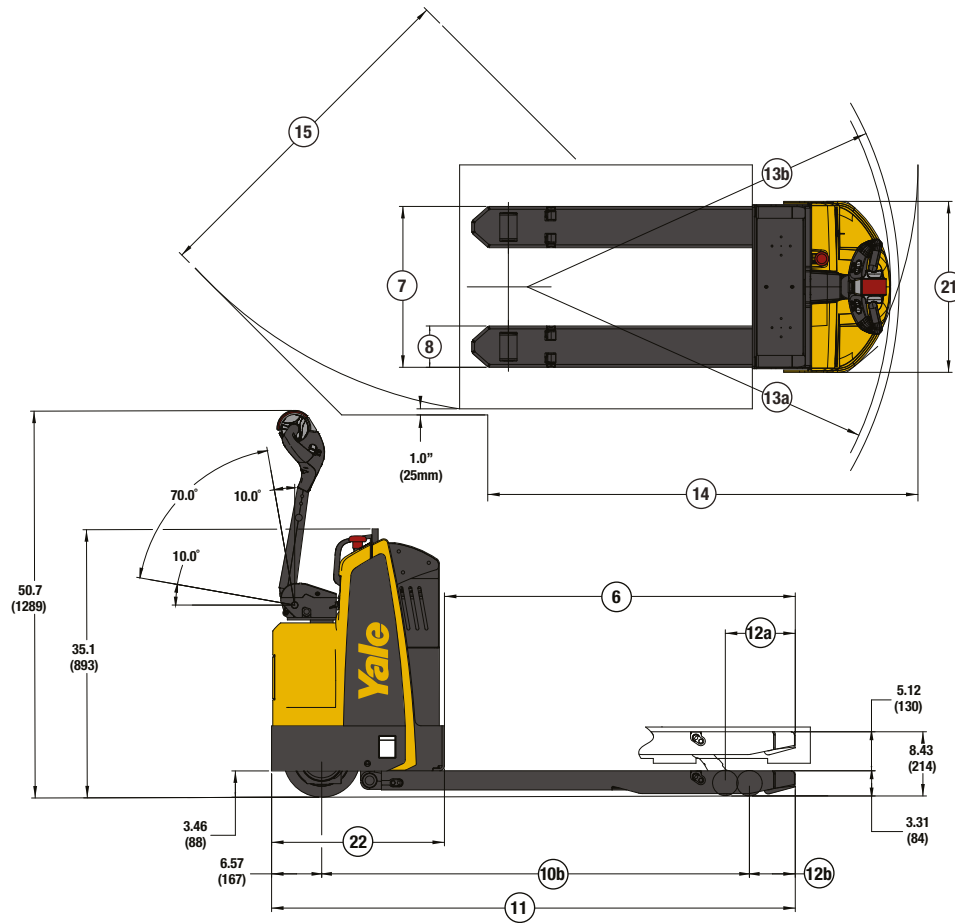
Motorized Hand Low Lift Pallet

4,500 lbs.

- Exclusive Yale Smart Lift™
- Exclusive Yale Smart Slow Down™
- Creep speed
- Enhanced maneuverability



Truck Dimensions



6" lithium-ion battery specifications

GENERAL		Yale						
1	Manufacturer	Yale						
2	Model Designation	MPB045-VG						
3	Power Type	24 Volt						
4	Operator Type	Pedestrian						
5	Rated Capacity	lb (kg)	4500 (2041)					
6a	Fork Length – Nominal	in (mm)	36 (914)	40 (1023)	42 (1067)	48 (1219)	48 (1219)	
6b	Fork Length – Actual	in (mm)	34 (866)	40.3 (1023)	43 (1084)	46 (1169)	48 (1219)	
10a	Wheelbase – Raised	in (mm)	38.5 (979)	44.8 (1137)	47.2 (1199)	50.6 (1284)	50.6 (1284)	
10b	Wheelbase – Lowered	in (mm)	41.7 (1060)	47.9 (1217)	50.3 (1278)	53.7 (1363)	53.7 (1363)	
11	Overall Length	in (mm)	54.3 (1380)	60.5 (1537)	62.9 (1598)	66.3 (1683)	68.2 (1733)	
13a	Outside Turning Radius (Bumper) - Raised	in (mm)	46.5 (1180)	51.4 (1305)	55.0 (1398)	58.4 (1483)	58.4 (1483)	
	Outside Turning Radius (Bumper) - Lowered	in (mm)	49.5 (1289)	54.5 (1385)	59.2 (1503)	61.5 (1561)	61.5 (1561)	
15	Right Angle Stack – Raised	in (mm)	57.6 (1462)	56.5 (1434) ¹	58.9 (1496)	68.3 (1734)	68.3 (1734)	
16	Equal Intersecting Aisle – Raised	in (mm)	46.7 (1187)	50.5 (1283) ¹	53.0 (1345)	54.8 (1393)	54.8 (1393)	
22	Chassis Length	in (mm)	20.2 (514)	20.2 (514)	20.2 (514)	20.2 (514)	20.2 (514)	
23	Battery Compt. – Std. with battery rollers	in (mm)	26.5 x 6.0 x OPEN (672 x 153 x OPEN)					

Battery & compartment specifications MPB045-VG - factory installed

Battery Type	Battery Compartment Dimensions			Battery Dimensions - Max			Capacity Amp-Hours	Battery Connector	Max Capacity 6 Hr Rate amp hr (kwh)	Weight lb (kg)
	Width	Length	Height	"X"	"Y"	"Z"				
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)				
Standard Battery Pack	26.5" (672)	8.2" (208)	Open	26.0" (660)	7.8" (198)	23.8 (605)	208	None	4.0	353 (160)
AGM Battery	26.5" (672)	8.2" (208)	Open	26.0" (660)	7.8" (221)	23.8 (605)	224	None	4.4	388 (176)
Lithium-ion (1-pack)	26.5" (672)	8.2" (208)	Open	26.0" (660)	7.8" (221)	23.8 (605)	56	None	N/A	92 (42)
Lithium-ion (2-pack)	26.5" (672)	8.2" (208)	Open	26.0" (660)	7.8" (221)	23.8 (605)	112	None	N/A	122 (55)
Lithium-ion (3-pack)	26.5" (672)	8.2" (208)	Open	26.0" (660)	7.8" (221)	23.8 (605)	168	None	N/A	152 (69)

General Specifications MPB045-VG

		Yale								
GENERAL	1	Manufacturer						Yale		
	2	Model Designation						MPB045-VG		
	3	Power Type						24 Volt		
	4	Operator Type						Pedestrian		
	5	Rated Capacity	lb (kg)						4500 (2041)	
	6a	Fork Length – Nominal	in (mm)	36 (914)	40 (1023)	42 (1067)	48 (1219)	48 (1219)		
	6b	Fork Length – Actual	in (mm)	34 (866)	40.3 (1023)	43 (1084)	46 (1169)	48 (1219)		
	7	Fork Overall Width	in (mm)	27 (685)	26 (670)	27 (685)	27 (685)	27 (685)		
	8	Fork Width (Individual Fork)	in (mm)						7 (172)	
DIMENSIONS	9	Load Distance – Face of Forks to Center of Load Wheels	in (mm)	25 (635)	31 (791)	37 (931)	40 (1016)	40 (1016)		
	10a	Wheelbase – Raised	in (mm)	41.0 (1042)	47.2 (1199)	49.6 (1261)	53.0 (1346)	53.0 (1346)		
	10b	Wheelbase – Lowered	in (mm)	44.2 (1122)	50.4 (1279)	52.8 (1340)	56.1 (1425)	56.1 (1425)		
	11	Overall Length	in (mm)	56.8 (1442)	63.0 (1599)	65.4 (1660)	68.7 (1745)	70.7 (1795)		
	12a	Center of Load Wheel to Tip of Forks – Raised	in (mm)	9.1 (231)	9.1 (231)	9.1 (231)	9.1 (231)	11.1 (283)		
	12b	Center of Load Wheel to Tip of Forks – Lowered	in (mm)	6.1 (155)	6.0 (153)	6.1 (155)	6.1 (155)	8.1 (205)		
	13a	Outside Turning Radius (Bumper) - Raised	in (mm)	47.6 (1208)	53.8 (1367)	57.1 (1449)	59.5 (1511)	59.5 (1511)		
		Outside Turning Radius (Bumper) - Lowered	in (mm)	50.8 (1289)	57.0 (1448)	60.3 (1530)	62.7 (1592)	62.7 (1592)		
	13b	Outside Turning Radius (Handle) - Raised	in (mm)	48.9 (1242)	55.4 (1407)	57.5 (1460)	60.8 (1545)	60.8 (1545)		
		Outside Turning Radius (Handle) - Lowered	in (mm)	52.1 (1320)	58.6 (1489)	61.6 (1565)	64.1 (1627)	64.1 (1627)		
	15	Right Angle Stack – Raised	in (mm)	59.6 (1514)	60.1 (1526) ¹	62.6 (1590)	70.6 (1792)	70.6 (1792)		
	16	Equal Intersecting Aisle – Raised	in (mm)	48.3 (1228)	52.5 (1334) ¹	55.0 (1396)	56.8 (1443)	56.8 (1443)		
	17a	Grade Clearance	Chassis	%						67
	17b		Center of Wheelbase	%	45	38 ³	36	34	34	
	17c		Forks	%	74	74	74	74	59	
	18	Overall Lift Height – Top of Forks	in (mm)						8.4 (214)	
	19	Lowered Height – Top of Forks	in (mm)						3.3 (84)	
	20	Total Lift	in (mm)						5.1 (130)	
	21	Truck Overall Width	in (mm)						28.0 (712)	
	22	Chassis Length	in (mm)						22.7 (576)	
	23	Battery Compartment – Standard	in (mm)						26.5 x 8.2 x OPEN (672 x 208 x OPEN)	
	PERFORMANCE	24	Maximum Travel Speed – Chassis First – NL/RL	mph (kph)	3.7/3.7 (6.0/6.0)	3.5/3.5 (6.6/5.6)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	
		25	Maximum Travel Speed – Forks First – NL/RL	mph (kph)	3.7/3.7 (6.0/6.0)	3.5/3.5 (6.6/5.6)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	
		26	Number of Speeds							Infinitely Variable
27		Traction Motor Control Method Type							AC Transistor	
WT.	28	Service Brake Type							Electro-Mechanical	
	29	Truck Weight (approximate) Without Battery – NL/RL	lb (kg)	624.0/5124.0 (283.0/2324.0)	732.0 ⁴ / 5232.0 ⁴ (332.0 / 2373.0)	650.0/5150.0 (295.0/2336.0)	659.0/5159.0 (299.0/2340.0)	659.0/5159.0 (299.0/2340.0)		
	30	Axle Loading – Drive – Static w/Max. Weight Battery – NL	lb (kg)	767 (348)	772 (350)	783 (355)	783 (355)	783 (355)		
WHEELS	31	Axle Loading – Load Wheel – Static w/Max. Wt Battery – NL	lb (kg)	137 (62)	121 (55)	128 (58)	128 (58)	128 (58)		
	32	Drive Tire – Size/Type (Number of Wheels)	in						10.0 x 4.0/Polyurethane (1)	
	33	Load Wheel – Size/Type (Number of Wheels)	in	3.35" x 4.3"/ Polyurethane (2)	3.25" x 4.5"/ Polyurethane (2)				3.35 x 4.3/Polyurethane (2)	
BATTERY	34	Caster Wheel – Size/Type (Number of Wheels)	in						3.25 x 1.5/Spring Loaded Polyurethane (2)	
	35	Battery Type							Lead Acid	
	36	Ampere Hours – Maximum	ah	300	225	300	300	300		
	37	Ampere Hours – Minimum	ah						158	
	38	Maximum Weight	lb (kg)						377 (171)	
	39	Minimum Weight	lb (kg)						309 (140)	

RL = Rated Load, NL = No Load NOTE: Above specifications, unless otherwise listed, are for a standard truck without optional equipment. Right Angle Stack and Equal Intersecting Aisle are calculated using a 40" wide pallet.

¹ Measured using a 42" X 40" pallet

² Measured using a 36" X 36" pallet

³ Measured to the bottom of a GMA approved pallet on the forks while they are in the raised position

⁴ With delivery moveable load backrest

CERTIFICATION: These Yale® 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. Performance specifications are for a truck equipped as described under Standard Equipment on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

Battery & compartment specifications MPB045-VG - dealer/customer installed

Battery Type	Battery Compartment Dimensions			Battery Dimensions - Max			Capacity Amp-Hours	Battery Connector	Max Capacity 6 Hr Rate amp hr (kwh)	Weight lb (kg)
	Width	Length	Height	"X"	"Y"	"Z"				
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)				
GNB PalletPro Battery	26.5" (672)	8.2" (208)	Open	25.3" (643)	7.6" (193)	24.5 (623)	195	SB-175 Red	4.5	400 (181)
Industrial Battery	25.5" (672)	9.1" (231)	Open	25.5" (645)	8.7" (221)	23.3 (591)	300	SB-175 Red	5.9	560 (254)

Notes: a) Battery size is limited by rounded corners of battery compartment. b) Cable lead position "B" c) 16" cable length d) Maximum cable gauge of 1/0

MPB045-VG

Standard equipment	Standard equipment (cont'd)	Options (cont'd)
<ul style="list-style-type: none"> • Pallet forks • Drive tire/load wheels • Control handle • Battery compartment • 24 Volt AC traction controlled electrical system – Sealed transistor traction controller – Vertically mounted AC traction motor – ADS (Auto Deceleration System) w/ regenerative braking • Heavy-duty drive unit • Multi-function display with hour meter – Battery state of charge – Low battery lift interrupt – Fault indicator • Three pre-programmed performance modes • Two operator selectable performance levels • Heavy duty lift pump and single hydraulic lift cylinder • Lift time-out at full lift height • Ramp hold with anti-roll back on grade • One piece impact resistant power unit cover • Soft touch keyed ignition switch • Cowl mounted power disconnect switch • IP65 sealed connectors • Electro-mechanical park brake • Brake over-ride • Electronic horn • Creep speed mode selection with handle in full upright position • Heavy duty pallet fork design – 3.25" Lowered / 5" lift height / 8.25" overall raised height – Heavy duty torsion bar linkage connection 	<ul style="list-style-type: none"> – Heavy duty, long life lift linkage with lubrication fittings – "X" groove style greaseable pivot bushings – Hardened, bolt retained flag linkage pins – Flush pallet stop – Operating manual • 12 months / unlimited hour manufacturer's warranty 36 months / 6,000 hour powertrain warranty Lifetime frame warranty <div style="background-color: #FFD700; padding: 5px; text-align: center;">Options</div> <ul style="list-style-type: none"> • Power alternatives – Wet cell battery power pack – Absorbed glass mat (AGM) – Maintenance free battery power pack • Lithium-Ion advanced performance power system – Three capacity amp hours options available: 56, 112 and 168 • Battery charger – 20 amp 110 volt on-board high frequency smart charger – 20 amp 220 volt on-board high frequency smart charger • 9.1" x 25.5" battery compartment • 6.0" x 26.5" battery compartment • Cast aluminum control handle • Delivery control handle • Stabilizers – Adjustable bolt-on stability tabs – Heavy duty quick adjust casters with greaseable or sealed wheel and pivot bearing 	<ul style="list-style-type: none"> • Load backrest – 48" high bolt-on – 54" high bolt-on – 60" high bolt-on – 72" high bolt-on – 58.5" high moveable • Load backrest mounted or magnetic battery mounted convenience tray • Brake override drive / tow switch • Yale smart slow down™ • Yale Smart Lift™ • Fork lengths – 34" – short tip – 40.3" – short tip – 42" – short tip – 48" – standard tip • 22" (560mm) overall fork width • 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 • Extreme corrosion/wash down package – operating temperatures: 0° F to +120° F • Drive tire options: – 10" X 4" pressed-on-smooth polyurethane – 10" X 4" mold-on smooth polyurethane – 10" X 4" pressed-on non-marking rubber – 10" X 4" pressed-on red EZ polyurethane – 10" x 4" molded-on vulkollan polyurethane • Single vulkollan load wheel • Stainless steel greaseable or sealed bearing • Self-adjusting audible alarm



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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. CERTIFICATION: Yale lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. The Yale® products included in this document may be covered by US patent 6,684,148 and other patents pending.