

MPE series

6,000lb / 8,000lb

End Rider Pallet Trucks



SPEC SHEET

Models: MPE060VH, MPE080VH

GENERAL SPECIFICATIONS MPE060VH

GENERAL SPECIFICATIONS MPE060VH														
GENERAL	1	Manufacturer		Yale										
	2	Model designation		MPE060VH										
	3	Power type		24 Volt										
	4	Operator type		Stand ride										
	5	Rated capacity	lb. (kg)	6000 (2722)										
DIMENSIONS	6	Fork length	Nominal	in (mm)	36(914)	42(1067)	48(1219)	54(1372)	60(1524)	84(2134)	93(2362)	96(2438)		
			Actual	in (mm)	35.7(908)	41.8(1061)	47.8(1213)	53.7(1365)	59.8(1518)	83.8(2128)	92.8(2357)	95.8(2433)		
	7	Fork overall width		in (mm)	27.1 (688)							28.0(710)		
	8	Fork width		in (mm)	9.1(232)							10.0(254)		
	9	Load distance (face of battery box to center of load wheels)	Raised	in (mm)	23.3(591)	29.3(744)	35.3(896)	41.3(1048)	47.3(1201)	56.3(1430)				
			Lowered	in (mm)	27.6(702)	33.6(854)	39.6(1007)	45.6(1159)	51.7(1312)	60.6(1540)				
	10	Wheelbase	Raised	in (mm)	51.3(1303)	57.3(1455)	63.3(1608)	69.3(1760)	75.3(1912)	84.3(2141)				
			Lowered	in (mm)	55.3(1400)	61.1(1552)	67.1(1705)	73.1(1857)	79.1(2010)	88.1(2238)				
	11	Overall length	Raised	in (mm)	81.1(2061)	87.1(2213)	93.1(2366)	99.1(2518)	105.2(2671)	129.1(3280)	138.1(3509)	141.1(3538)		
			Lowered	in (mm)	80.6(2048)	86.6(2200)	92.6(2353)	98.6(2505)	104.6(2657)	128.6(3267)	137.6(3496)	140.6(3572)		
	12	Center of load wheel to fork tips	Raised	in (mm)	12.5(317)					27.5(698)	36.5(927)	39.5(1003)		
	13		Lowered	in (mm)	8.1(206)							23.1(588)	32.2(817)	35.2(893)
	14	Outside turning radius (Standard Platform)	Raised	in (mm)	66.7(1694)	72.7(1846)	78.7(1999)	84.7(2152)	90.7(2304)	99.7(2533)				
			Lowered	in (mm)	70.5(1791)	76.5(1943)	76.7(1947)	88.5(2249)	94.5(2401)	103.5(2630)				
		Outside turning radius (Extended Platform)	Raised	in (mm)	68.8(1747)	74.8(1899)	80.8(2052)	86.8(2205)	92.8(2357)	101.8(2586)				
			Lowered	in (mm)	72.6(1844)	78.6(1996)	78.7(2000)	90.6(2302)	96.6(2454)	105.6(2683)				
	15	Right angle stack (Standard Platform)	Raised	in (mm)	80.2(2037)	N/A	91.8(2332)	N/A	N/A	143.1(3636)				
		Right angle stack (Extended Platform)	Raised	in (mm)	81.6(2073)	N/A	93.8(2382)	N/A	N/A	144.9(3681)				
	16	Equal intersecting aisle (Standard Platform)	Raised	in (mm)	61.5(1563)	N/A	68.9(1750)	N/A	N/A	75.7(1924)				
		Equal intersecting aisle (Extended Platform)	Raised	in (mm)	63.0(1599)	N/A	70.3(1786)	N/A	N/A	76.8(1950)				
17	Grade clearance	Chassis	%	28										
		Center of wheelbase	%	38	34	31	30	27	22					
		Forks	%	37						17	13	12		
18	Overall lift height	Top of forks	in (mm)	9.3(235)										
19	Lowered height	Top of forks	in (mm)	3.3(84)										
20	Total lift		in (mm)	5.9(151)										
21	Truck overall width	Standard	in (mm)	37.2(944)										
		Extended	in (mm)	38.7(984)										
22	Chassis length	Raised	in (mm)	43.3(1100)										
		Lowered	in (mm)	42.8(1087)										
23	Battery compartment (standard /w battery rollers)		in (mm)	32.0 x 13.4 x open (813 x 340 x open)										
PERFORMANCE	24	Max travel speed - chassis first	No load / rated load	mph (kph)	9.0/6.0(14.5/9.7)									
	25	Max travel speed - forks first	No load / rated load	mph (kph)	6.0/6.0(9.7/9.7)									
	26	Number of speeds			Infinitely variable									
	27	Traction motor control method	Type		AC Transistor									
	28	Service brake	Type		Electro-mechanical									
WEIGHT	29	Truck weight (approx w/o battery)	No load	lb. (kg)	1382(627)	1433(650)	1481(672)	1523(691)	1567(711)	1687(765)	1742(790)	1772(804)		
			Rated load		7382(3349)	7433(3372)	7481(3394)	7523(3413)	7567(3433)	7687(3487)	7742(3512)	7772(3526)		
	30	Axle loading - drive	(static, max bat., no load)	lb. (kg)	1735(787)	1828(829)	1907(865)	2002(908)	2094(950)	2200(998)	2253(1022)	2299(1043)		
31	Axle loading - load	(static, max bat., no load)	lb. (kg)	802(364)	754(342)	719(326)	670(304)	622(282)	633(287)	635(288)	622(282)			
WHEELS	32	Drive tire - size/type	(# of wheels)	in.	13.0 x 4.5 x 9.0 / polyurethane (1)									
	33	Load wheel - size/type	(# of wheels) (# of bearings)	in.	3.25" x 6.5" / polyurethane (2) (4)									
	34	Caster wheel - size/type	(# of wheels) (caster type)	in.	4.0" x 2.5" / polyurethane (2) urethane block loaded									
BATTERY	35	Type		Lead-acid										
	36	Ampere hours - max		ah	930									
	37	Ampere hours - min		ah	375									
	38	Weight - max		lb. (kg)	1500 (680)									
	39	Weight - min		lb. (kg)	540 (245)									

GENERAL SPECIFICATIONS MPE080VH

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GENERAL	1	Manufacturer		Yale											
	2	Model designation		MPE080VH											
	3	Power type		24 Volt											
	4	Operator type		Stand ride											
	5	Rated capacity	lb. (kg)	8000 (3629)											
DIMENSIONS	6	Fork length	Nominal	in (mm)	36(914)	42(1067)	48(1219)	54(1372)	60(1524)	84(2134)	93(2362)	96(2438)	144(3658)		
			Actual	in (mm)	35.7(908)	41.8(1213)	47.8(1213)	53.7(1365)	59.8(1518)	83.8(2128)	92.8(2357)	95.8(2433)	143.8(3652)		
	7	Fork overall width		in (mm)	27.1 (688)					28.0(710)			28.0(710)		
	8	Fork width		in (mm)	9.1(232)					10.0(254)			10.0(254)		
	9	Load distance (face of battery box to center of load wheels)	Raised	in (mm)	23.3(591)	29.3(744)	35.3(896)	41.3(1048)	47.3(1201)	56.3(1430)	N/A	N/A	104.3(2649)	83.9(2131)	
			Lowered	in (mm)	27.6(702)	33.6(854)	39.6(1007)	45.6(1159)	51.7(1312)	60.6(1540)	N/A	N/A	108.6(2759)	87.7(2228)	
	10	Wheelbase	Raised	in (mm)	51.3(1303)	57.3(1455)	63.3(1608)	69.3(1760)	75.3(1912)	84.3(2141)	N/A	N/A	132.3(3360)	111.4(2829)	
			Lowered	in (mm)	55.3(1400)	61.1(1552)	67.1(1705)	73.1(1857)	79.1(2010)	88.1(2238)	N/A	N/A	136.1(3457)	115.2(2926)	
	11	Overall length	Raised	in (mm)	81.1(2061)	87.1(2213)	93.1(2366)	99.1(2518)	105.2(2671)	129.1(3280)	138.1(3509)	141.1(3538)	189.1(4804)		
			Lowered	in (mm)	80.6(2048)	86.6(2200)	92.6(2353)	98.6(2505)	104.6(2657)	128.6(3267)	137.6(3496)	140.6(3572)	188.6(4791)		
	12	Center of load wheel to fork tips	Raised	in (mm)	12.5(317)					27.5(698)	36.5(927)	39.5(1003)		59.9(1521)	
	13		Lowered	in (mm)	8.1(206)					23.1(588)	32.2(817)	35.2(893)		56.1(1424)	
	14	Outside turning radius (Standard Platform)	Raised	in (mm)	66.7(1694)	72.7(1846)	78.7(1999)	84.7(2152)	90.7(2304)	99.7(2533)			N/A	N/A	
			Lowered	in (mm)	70.5(1791)	76.5(1943)	76.7(1947)	88.5(2249)	94.5(2401)	103.5(2630)			N/A	N/A	
		Outside turning radius (Extended Platform)	Raised	in (mm)	68.8(1747)	74.8(1899)	80.8(2052)	86.8(2205)	92.8(2357)	101.8(2586)			149.8(3805)	128.9(3274)	
			Lowered	in (mm)	72.6(1844)	78.6(1996)	78.7(2000)	90.6(2302)	96.6(2454)	105.6(2683)			153.6(3902)	132.7(3371)	
		Right angle stack (Standard Platform)	Raised	in (mm)	80.2(2037)	N/A	91.8(2332)	N/A	N/A	143.1(3636)			N/A	N/A	
			Right angle stack (Extended Platform)	Raised	in (mm)	81.6(2073)	N/A	93.8(2382)	N/A	N/A	144.9(3681)			188.2(4780)	190.7(4877)
		16	Equal intersecting aisle (Standard Platform)	Raised	in (mm)	61.5(1563)	N/A	68.9(1750)	N/A	N/A	75.7(1924)			N/A	N/A
				Equal intersecting aisle (Extended Platform)	Raised	in (mm)	63.0(1599)	N/A	70.3(1786)	N/A	N/A	76.8(1950)			109.8(2790)
	17	Grade clearance	Chassis	%	28										
			Center of wheelbase	%	38	34	31	30	27	22			14	17	
			Forks	%	37					17	13	12		8	
18	Overall lift height	Top of forks	in (mm)	9.3(235)											
19	Lowered height	Top of forks	in (mm)	3.3(84)											
20	Total lift		in (mm)	5.9(151)											
21	Truck overall width	Standard	in (mm)	37.2(944)											
		Extended	in (mm)	38.7(984)											
22	Chassis length	Raised	in (mm)	45.4(1153)											
		Lowered	in (mm)	44.9(1140)											
23	Battery compartment (standard / with battery rollers)		in (mm)	32.0 x 13.4 x open(813 x 340 x open)											
PERFORMANCE	24	Max travel speed - chassis first	No load / rated load	mph (kph)	9.0/6.0(14.5/9.7)										
	25	Max travel speed - forks first	No load / rated load	mph (kph)	6.0/6.0(9.7/9.7)										
	26	Number of speeds			Infinitely variable										
	27	Traction motor control method	Type		AC Transistor										
28	Service brake	Type		Electro-mechanical											
WEIGHT	29	Truck weight (approx w/o battery)	No load	lb. (kg)	1444 (655)	1495 (678)	1539 (698)	1585 (719)	1629 (739)	1748 (793)	1803 (818)	1834 (832)	2198 (997)	2178 (988)	
			Rated load		9444 (4284)	9495 (4307)	9539 (4327)	9585 (4348)	9629 (4368)	9748 (4422)	9803 (4447)	9834 (4461)	10198 (4626)	10178 (4617)	
	30	Axle loading - drive	(static, max bat., no load)	lb. (kg)	1858 (843)	1878 (852)	1960 (889)	2055 (932)	2147 (974)	2255 (1023)	2308 (1047)	2357 (1069)	2668 (1210)		
31	Axle loading - load	(static, max bat., no load)	lb. (kg)	732(332)	754(342)	719(326)	670(304)	622(282)	633(287)	635(288)	622(282)	661(300)			
WHEELS	32	Drive tire - size/type	(# of wheels)	in.	13.0 x 4.5 x 9.0 / polyurethane (1)										
	33	Load wheel - size/type	(# of wheels) (# of bearings)	in.	3.25" x 6.5" / polyurethane (2) (4)										
	34	Caster wheel - size/type	(# of wheels) (caster type)	in.	4.0" x 2.5" / polyurethane (2) urethane block loaded										
BATTERY	35	Type		Lead-acid											
	36	Ampere hours - max		ah	930										
	37	Ampere hours - min		ah	375										
	38	Weight - max		lb. (kg)	1500 (680)										
	39	Weight - min		lb. (kg)	540 (245)										

FEATURES LIST

STANDARD FEATURES

48" long forks – standard tip
27" fork spread
37.2" operator platform
White rubber platform markers
Standard construction operating temperatures: +32°F to 120°F
Drive tire – 85 durometer, 13" x 4.5" smooth red polyurethane
Load wheels – single, 3.25" x 6.5" polyurethane
Casters – spring loaded, 4" x 2.5" polyurethane wheel (MPE060VH)
Heavy duty casters – urethane block loaded, 4" x 2.5" polyurethane wheel (MPE080VH)
Multifunction full-color touch display
– Battery state of charge
– Hour meter
– Low battery lift interrupt
– Performance mode indicator
– Fault indicator
Manual steering
Key ignition switch
24 volt AC transistor control electrical system
Ergonomic rear hand rail
AC traction motor
4 operator selectable, programmable performance modes
Integrated "soft start" transistor lift pump control
ADS (Auto Deceleration System) with regenerative braking
High performance and extended shift feature
32.0" x 13.4" open battery compartment
Electro-mechanical park brake
UL Classification "E"
Electronic horn
Ergonomically designed, impact resistant, combination butterfly rotary control handle
Pallet exit rollers and runners / entry blades or skids
Knock-out load wheel axles
Boxed fork construction with reinforced fork tips
Flush pallet stop
Heavy duty, long life lift linkage with lubrication fittings
– "X" groove style greaseable pivot bushings
– 1" hardened, bolt retained flag pins
On-board software
– Program, test and diagnose
– No handset required
– Password protected
Operating manual
12 months / unlimited hour manufacturer's warranty
36 months / 6,000 hour powertrain warranty
Lifetime main frame warranty

OPTIONAL FEATURES

UL Classification "EE"
Power assist steering
Battery rollers
Composite handle with butterfly travel control
Ergonomic rear hand rail with Smart Shift Functions:
– Smart Lift
– Smart Lower
– Dual Acceleration
– Smart Cruise
– Yale Smart Slow Down™
Convenience tray (load backrest mounted or battery mounted)
RF terminal power supply – 24-volt
Audible alarm
Visible alarm – pole mounted amber strobe
Smart coast control with pick assist
Manual coast control with pick assist
Stability casters
– Heavy duty – greaseable wheel (std on MPE080VH)
– Heavy duty – sealed wheel
LED platform lights
38.7" extended operator platform
LED fork lights
Fork lengths
– 36" – standard tip
– 42" – standard tip
– 54" – standard tip
– 60" – standard tip
– 96" – standard tip (MPE060VH only)
– 84" – extended tip
– 93" – extended tip
– 96" – extended tip
– 144" – extended tip (MPE080VH only)
– 144" – short wheelbase extended tip (MPE080VH only)
Drive tire
– 85 durometer, 13" x 4.5" grooved red polyurethane
– 93 durometer, 13" x 4.5" smooth polyurethane
– 93 durometer, 13" x 4.5" super smooth polyurethane
Load wheels
– Single and dual
– 2 bearing and 4 bearing
– Standard bearing and sealed bearing
Load backrest
– 48" high (pivoting or bolt-on)
– 60" high (pivoting or bolt-on)
– 72" high (bolt-on)
Application/Environmental Construction
– Cooler/Freezer Package: Operating temps: 0°F to +120°F
– SUBZERO Freezer Package: Operating temps: -40°F to +120°F
– Wash Down Package: Operating temps: 0°F to +120°F
– Extreme Corrosion Wash Down Package: Operating temps: 0°F to +120°F

About Yale®



Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 2,000 to 36,000 pounds and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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

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. Classified by Underwriters' Laboratories, Inc.