



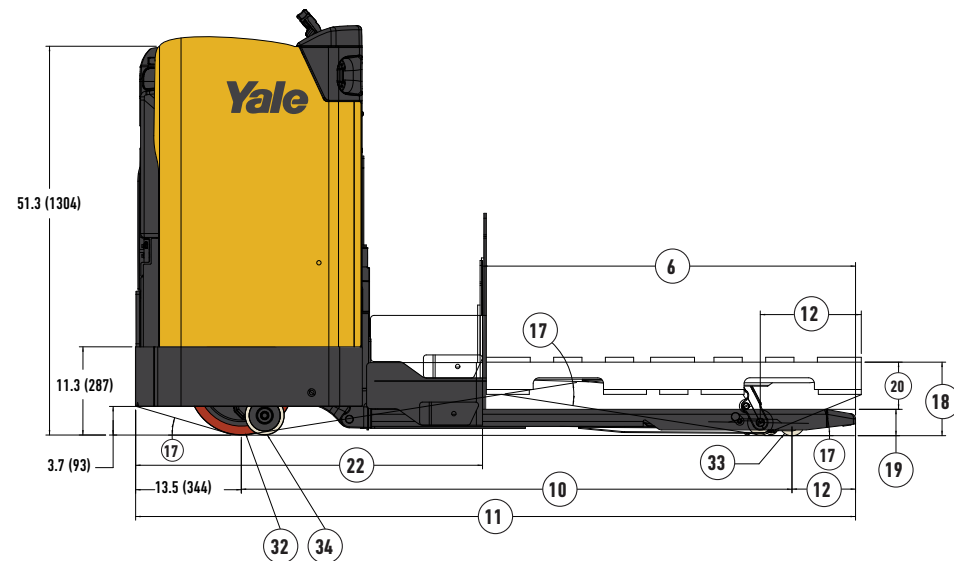
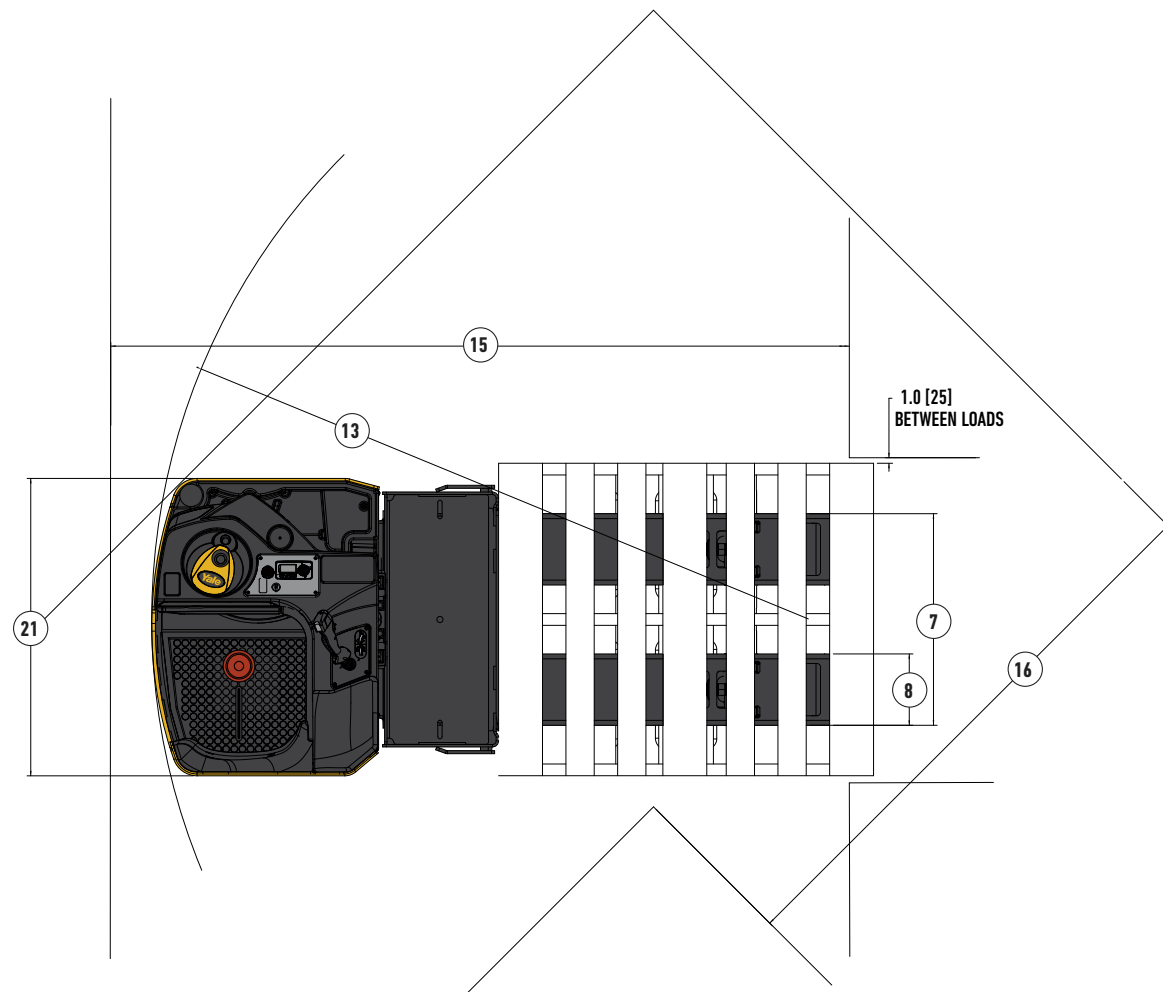
# MPR 080-100VG

SPEC SHEET

Enclosed end rider  
pallet truck

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8,000-10,000 lbs.



GENERAL SPECIFICATIONS - MPR080VG

GENERAL		Yale										
1	Manufacturer	Yale										
2	Model designation	MPR080VG										
3	Battery type	24 volt										
4	Operator type	Stand ride										
5	Rated capacity	Lifting	lb. (kg)	8000 (3629)								
6	Fork length	Nominal	in. (mm)	48 (1219)	54 (1372)	60 (1524)	84 (2134)	93 (2362)	96 (2438)	144 (3658)	144 (3658)	
		Actual	in. (mm)	47.8 (1213)	53.7 (1365)	59.8 (1518)	83.8 (2128)	92.8 (2357)	95.8 (2433)	143.8 (3652)	143.8 (3652)	
7	Fork overall width	in. (mm)		27.1 (688)	27.1 (688)	27.1 (688)	28 (710)	28 (710)	28 (710)	28.6 (726)	28.6 (726)	
8	Individual fork width	in. (mm)		9.1 (232)	9.1 (232)	9.1 (232)	10 (254)	10 (254)	10 (254)	10 (254)	10 (254)	
9	Load distance (face of battery box or opt. backrest to ctr of load wheels)	Raised	in. (mm)	35.3 (896)	41.3 (1048)	47.3 (1201)	56.3 (1430)	56.3 (1430)	56.3 (1430)	104.3 (2649)	83.9 (2131)	
		Lowered	in. (mm)	39.6 (1007)	45.6 (1159)	51.7 (1312)	60.6 (1540)	60.6 (1540)	60.6 (1540)	108.6 (2759)	87.7 (2228)	
10	Wheelbase**	Raised	in. (mm)	66.5 (1689)	72.5 (1842)	78.5 (1994)	87.5 (2222)	87.5 (2222)	87.5 (2222)	135.5 (3442)	114.6 (2910)	
11	Overall length	Lowered	in. (mm)	70.5 (1791)	76.5 (1944)	82.5 (2096)	91.5 (2324)	91.5 (2324)	91.5 (2324)	139.5 (3544)	118.6 (3012)	
		Raised	in. (mm)	92.7 (2354)	98.7 (2506)	104.7 (2659)	128.7 (3269)	137.7 (3498)	140.7 (3574)	188.7 (4793)	188.7 (4793)	
12	Center of load wheel to tip of forks	Raised	in. (mm)	12.5 (317)	12.5 (317)	12.5 (317)	27.5 (698)	36.5 (927)	39.5 (1003)	39.5 (1003)	59.9 (1521)	
		Lowered	in. (mm)	8.1 (206)	8.1 (206)	8.1 (206)	23.1 (588)	32.2 (817)	35.2 (893)	35.2 (893)	56.1 (1424)	
13	Outside turning radius	Raised	in. (mm)	80.0 (2033)	86.0 (2186)	92.0 (2338)	101.1 (2567)	101.1 (2567)	101.1 (2567)	149.1 (3789)	128.1 (3254)	
		Lowered	in. (mm)	84.1 (2135)	90.1 (2288)	105.2 (2673)	105.0 (2668)	105.0 (2668)	105.0 (2668)	153.1 (3888)	132.1 (3356)	
15	Right angle stack*	Raised	in. (mm)	95.2 (2418)	106.2 (2697)	105.6 (2683)	131.0 (3328)	140.4 (3566)	143.5 (3644)	189.8 (4820)	190.6 (4842)	
16	Equal intersecting aisle*	Raised	in. (mm)	70.2 (1782)	73.3 (1862)	76.5 (1942)	82.0 (2084)	82.9 (2105)	83.2 (2114)	108.0 (2744)	99.7 (2533)	
17	Grade clearance	Chassis	%	29								
		Center of wheelbase	%	29	26	25	21	21	21	15	16	
		Forks	%	37	37	37	17	13	12	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	in. (mm)		38.0 (967)								
22	Chassis length	Raised	in. (mm)	44.9 (1141)								
		Lowered	in. (mm)	44.4 (1128)								
23	Battery compartment (standard / with battery rollers)	32 x 13.4 x OPEN (813 x 340 x OPEN) / 31 x 13.4 x OPEN (787 x 340 x OPEN)										
24	Max travel speed	Chassis first (no load / rated load)	mph (kph)	9.0 / 6.5 (14.5 / 10.5)								
		Forks first (no load / rated load)	mph (kph)	7.0 / 6.5 (11.3 / 10.5)								
26	Number of speeds	Infinitely variable										
27	Traction motor control method type	AC transistor										
28	Service brake type	Electro-mechanical										
29	Truck weight (approximate)	Without battery	No load	lb. (kg)	1824 (827)	1857 (842)	1891 (858)	1946 (882)	2057 (933)	2068 (938)	2282 (1035)	2211 (1002)
30	Axle loading - drive & caster	Static with maximum weight, battery	No load	lb. (kg)	2117 (960)	2173 (985)	2223 (1008)	2278 (1033)	2269 (1029)	2267 (1028)	2519 (1142)	2405 (1091)
		Flated load	lb. (kg)	3469 (1574)	3747 (1700)	3981 (1805)	3581 (1624)	3160 (1433)	3021 (1370)	4429 (2209)	3194 (1449)	
31	Axle loading - load wheels	Static with maximum weight, battery	No load	lb. (kg)	707 (321)	684 (310)	667 (302)	668 (303)	788 (357)	801 (363)	763 (346)	805 (365)
		Flated load	lb. (kg)	7354 (3336)	7109 (3224)	6910 (3134)	7365 (3340)	7897 (3582)	8047 (3650)	6852 (3108)	8016 (3636)	
32	Drive tire	Size / type (number of wheels)	in.	13.5 x 5.5 x 8.0 / Polyurethane (1)								
33	Load wheel / trail wheel	Size / type (# of wheels) (# of bearings per wheel)	in.	3.25" x 6.5" / Polyurethane (2) (2)								
34	Caster wheel	Size / type (number of wheels) caster type	in.	5.0" x 2.0" / Poly (2) adj. w/ poly spring block								
35	Type	Lead acid   Thin Plate Pure Lead***   Lithium-ion***										
36	Ampere hours	Maximum	ah	930								
		Minimum	ah	375								
38	Weight	Maximum	lb. (kg)	1500 (680)								
		Minimum	lb. (kg)	825 (374)								

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 flush with fork tips.  
 \*\* Subtract 12.9mm if equipped with tandem load wheels.  
 \*\*\* Optional with Yale Power Key

**GENERAL SPECIFICATIONS - MPR100VG**

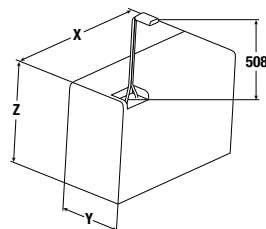
GENERAL	1	Manufacturer			Yale		
	2	Model designation			MPR100VG		
	3	Battery type			24 volt		
	4	Operator type			Stand ride		
	5	Rated capacity	Lifting	lb. (kg)	10000 (4536)		
	6	Fork length	Nominal	in. (mm)	160 (4064)	192 (4877)	
			Actual	in. (mm)	159.9 (4063)	191.9 (4875)	
	7	Fork overall width		in. (mm)	28 (710)	28 (710)	
	8	Individual fork width		in. (mm)	10 (254)	10 (254)	
	9	Load distance (face of battery box or opt. backrest to ctr of load wheels)	Raised	in. (mm)	106.0 (2694)	106.0 (2694)	
Lowered			in. (mm)	110.5 (2806)	110.5 (2806)		
DIMENSIONS	10	Wheelbase**	Raised	in. (mm)	137.4 (3490)	183.1 (4650)	
			Lowered	in. (mm)	141.4 (3591)	187.0 (4751)	
	11	Overall length	Raised	in. (mm)	204.9 (5204)	236.9 (6016)	
			Lowered	in. (mm)	204.4 (5191)	236.3 (6003)	
	12	Center of load wheel to tip of forks	Raised	in. (mm)	53.9 (1369)	40.3 (1023)	
			Lowered	in. (mm)	49.5 (1257)	35.9 (911)	
	13	Outside turning radius	Raised	in. (mm)	150.9 (3834)	196.6 (4994)	
			Lowered	in. (mm)	154.9 (3934)	200.6 (5094)	
	15	Right angle stack*	Raised	in. (mm)	206.0 (5232)	230.0 (5824)	
	16	Equal intersecting aisle*	Raised	in. (mm)	114.6 (2912)	120.5 (3061)	
Chassis			%	29			
Center of Wheelbase			%	15	13		
17	Grade clearance	Forks	%	9	12		
		Top of Forks	in. (mm)	9.3 (235)			
		Top of Forks	in. (mm)	3.3 (84)			
18	Overall lift height	Top of Forks	in. (mm)	5.9 (151)			
19	Lowered height	Top of Forks	in. (mm)	38.0 (967)			
20	Total lift		in. (mm)	44.9 (1141)			
21	Truck overall width	Raised	in. (mm)	44.4 (1128)			
		Lowered	in. (mm)	32 x 13.4 x OPEN (813 x 340 x OPEN) / 31 x 13.4 x OPEN (787 x 340 x OPEN)			
PERFORMANCE	24	Max travel speed	Chassis first (no load / rated load)	mph (kph)	9.0 / 6.5 (14.5 / 10.5)		
			Forks first (no load / rated load)	mph (kph)	7.0 / 6.5 (11.3 / 10.5)		
	26	Number of speeds		Infinitely variable			
	27	Traction motor control method type		AC transistor			
28	Service brake type		Electro-mechanical				
WEIGHT	29	Truck weight (approximate)	Without battery	No load	lb. (kg)	2302 (1044)	
			Static with maximum weight, battery	No load	lb. (kg)	2513 (1139)	
	30	Axle loading - drive & caster	Static with maximum weight, battery	Flated load	lb. (kg)	4408 (1999)	
Static with maximum weight, battery				No load	lb. (kg)	789 (358)	
31	Axle loading - load wheels	Static with maximum weight, battery	Flated load	lb. (kg)	8894 (4034)		
			Static with maximum weight, battery	No load	lb. (kg)	8894 (4034)	
WHEELS	32	Drive tire	Size / type (number of wheels)	in.	13.5 x 5.5 x 8.0 / Polyurethane (1)		
	33	Load wheel / trail wheel	Size / type (# of wheels)/# of bearings per wheel	in.	3.25" x 6.5" / Polyurethane (2) (2)		
	34	Caster wheel	Size / type (number of wheels)/caster type	in.	5.0" x 2.0" / Poly (2) adj. w/ poly spring block		
BATTERY	35	Type		Lead acid   Thin Plate Pure Lead***   Lithium-ion***			
	36	Ampere hours	Maximum	ah	930		
			Minimum	ah	375		
	38	Weight	Maximum	lb. (kg)	1500 (680)		
			Minimum	lb. (kg)	825 (374)		

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 flush with fork tips.  
 \*\* Subtract 12.9mm if equipped with tandem load wheels.  
 \*\*\* Optional with Yale Power Key

**BATTERY SPECIFICATIONS - MPR080VG, MPR100VG**

No. of cells	Cell size	Plates per cell	Capacity 6 hour rate amp hr (kwh)	Battery dimensions			Weight lb. (kg)
				"X"	"Y"	"Z"	
12	75	11	375 (8.7)	26.5 (673)	13.0 (330)	23.3 (592)	825 (374)
12	85	11	425 (9.9)	26.5 (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)

- Voltage: 24V
- Battery connector:  
 -SB 175 red - standard / SB 175 grey - optional  
 -SB 350 red - optional / SB 350 grey - optional
- Battery lead: length 20" (508mm), position "B", 1/0 AWG
- Battery cover required



**FEATURES LIST - MPR080VG, MPR100VG**

PERFORMANCE	STD	OPT
24 Volt electrical system	●	
4 Selectable performance modes		
DRIVE	STD	OPT
Smooth polyurethane drive tire – 90 durometer – 13.5" x 5.5"	●	
Single polyurethane load wheels – 3.25" x 6.5"	●	
Single, dual and tandem (2 bearing and 4 bearing; sealed bearing)		●
Heavy duty casters – urethane block loaded – 5" x 2" dual polyurethane wheel	●	
Heavy duty casters – sealed wheel		●
Red polyurethane "X" groove – 85 durometer – 13.5" x 5.5"		●
Red polyurethane – 85 durometer – 13.5" x 5.5"		●
Vulkollan polyurethane – 90 durometer – 13.5" x 5.5"		●
LIFT	STD	OPT
Heavy duty, long life lift linkage with lubrication fittings		
X" groove style greaseable pivot bushings (8K)		
Aluminum-Bronze (Al-Br) bushings (10k)	●	
Hardened, bolt retained flag linkage pins		
Knock-out load wheel axles		
HANDLING	STD	OPT
48" Long heavy duty boxed fork construction, reinforced fork tips	●	
27" Fork spread	●	
Pallet exit rollers and runners/entry blades	●	
Pallet entry rollers (standard tip forks only)	●	
Pallet entry bar (MPR080VG)		●
4-Point chassis design	●	
Flush pallet stop	●	
54" Long forks – standard tip		●
60" Long forks – standard tip		●
84" Long forks – extended tip		●
93" Long forks – extended tip		●
96" Long forks – extended tip		●
144" Long forks – extended tip		●
144" Long forks – short wheelbase extended tip		●
160" Long forks – extended tip (MPR100VG)		●
192" Long forks – extended tip (MPR100VG)		●
48" High (pivoting or bolt-on) load backrest		●
60" High (pivoting or bolt-on) load backrest		●
72" High (bolt-on) load backrest		●
ERGONOMICS	STD	OPT
Adjustable control handle and armrest	●	
Electric power steering	●	
Operator back pad	●	
Knee pad	●	
Hip pad	●	
Suspended/cushioned floor with mat	●	
Operator fan		●

OPERATION	STD	OPT
On-board software (program, test and diagnose; no handset required; password protected)	●	
Electronic horn	●	
Smart operator sensing system	●	
Graphic LCD display with back lighting	●	
Stationary mounted drive motor	●	
Replaceable wheel seal	●	
CAN bus electrical system	●	
Automotive style sealed electrical connectors	●	
Hall effect sensor technology	●	
AC traction motor	●	
Brushless steer motor	●	
Brushless hydraulic power pack	●	
Battery mounted convenience tray		●
Convenience tray (battery mounted)		●
RF terminal power supply – 24-volt		●
DC converter with automotive style 12-volt outlet		●
Work light sensor		●
Audible alarm		●
Strobe light		●
Telemetry display		●
Accessory pole (short and long)		●
Yale Reliant™		●
CONSTRUCTION	STD	OPT
Standard construction operating temperatures: +32°F to +120°F	●	
32.0" x 13.4" Open battery compartment	●	
Key ignition switch	●	
UL Classification "E"	●	
Keyless toggle ignition switch		●
Cooler/freezer package: Operating temperatures: 0°F to +120°F		●
Wash down package: Operating temperatures: 0°F to +120°F		●
SubZero: Operating temperatures: -40°F to +120°F		●
ENERGY SYSTEM	STD	OPT
Lead acid	●	
Yale Power Key		●
SUPPLEMENTAL	STD	OPT
Operating manual	●	
12 Months / unlimited hour manufacturer's warranty	●	
36 Months / 6,000 hour powertrain warranty	●	
Lifetime main frame warranty	●	

# About Yale



Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

## MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables


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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.