

VG series

8,000 - 10,000 lb

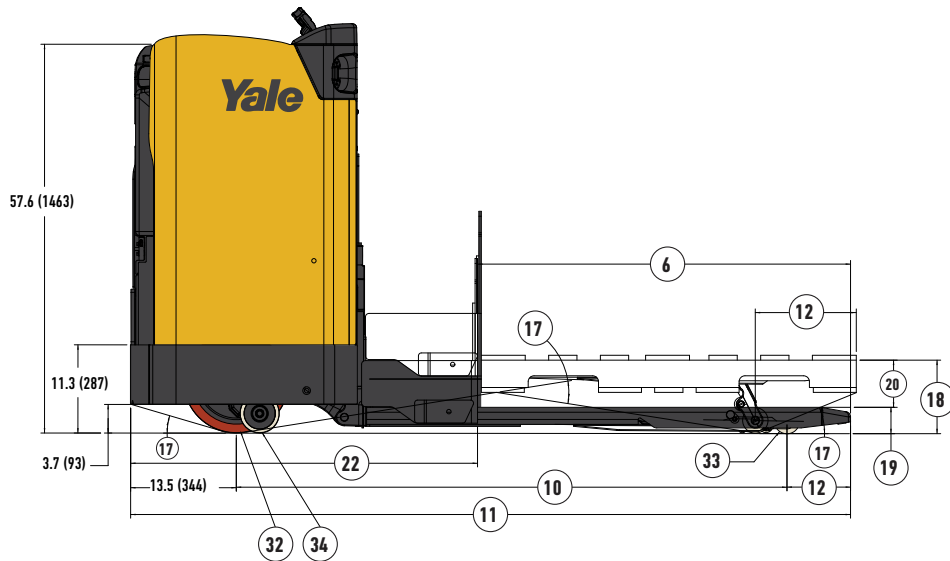
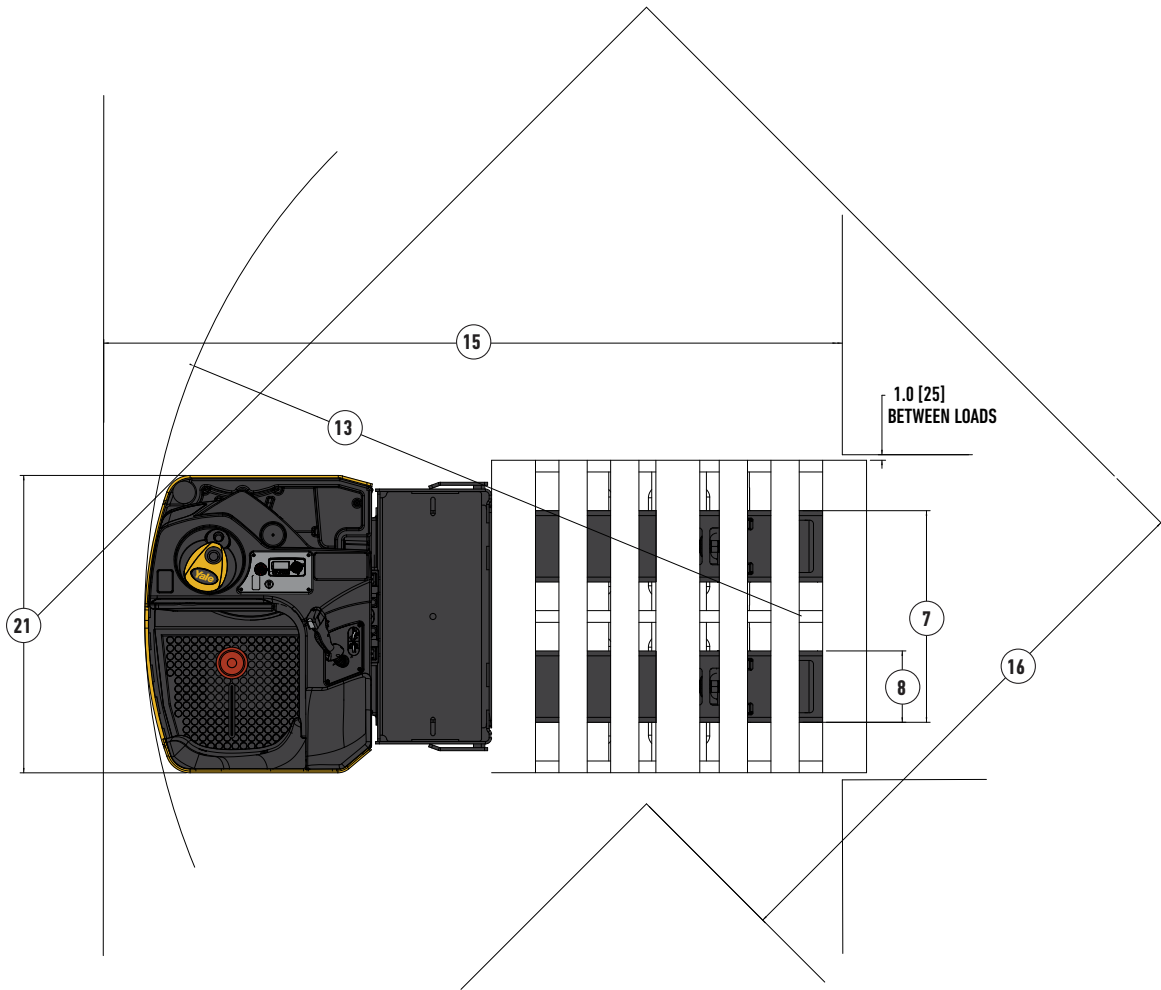
Enclosed End Rider



SPEC SHEET

Models: MPR080VG, MPR100VG

TRUCK DIMENSIONS MPR080VG, MPR100VG



GENERAL SPECIFICATIONS MPR080VG

| | | | | | | | | | | | | |
|-------------|---|---|---|--|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| GENERAL | 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) |
| DIMENSIONS | 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) |
| | | | 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) |
| | 11 | Overall Length | 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) |
| | | | Lowered | in (mm) | 92.2 (2341) | 98.1 (2493) | 104.2 (2646) | 128.2 (3256) | 137.2 (3485) | 140.2 (3561) | 188.2 (4780) | 188.2 (4780) |
| | 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) | | | | | | | | | |
| PERFORMANCE | 24 | Max Travel Speed - Chassis First (No Load / Rated Load) | mph (kph) | 9.0 / 6.5 (14.5 / 10.5) | | | | | | | | |
| | 25 | Max Travel Speed - 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 | | | | | | | | | |
| 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 | | | | | | | | |
| | 36 | Ampere Hours - Maximum | ah | 930 | | | | | | | | |
| | 37 | Ampere Hours - Minimum | ah | 375 | | | | | | | | |
| | 38 | Maximum Weight | lb (kg) | 1500 (680) | | | | | | | | |
| 39 | Minimum Weight | 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.

GENERAL SPECIFICATIONS MPR100VG

| GENERAL | | | | Yale | |
|---------|---|---|--|--------------|--------------|
| 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) |
| 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) | |
| 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) | | |
| 25 | Max Travel Speed - 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 | | | |
| 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 | | | |
| 36 | Ampere Hours - Maximum | ah | 930 | | |
| 37 | Ampere Hours - Minimum | ah | 375 | | |
| 38 | Maximum Weight | lb (kg) | 1500 (680) | | |
| 39 | Minimum Weight | 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.

BATTERY SPECIFICATIONS MPR080VG, MPR100VG

| No. of Cells | Cell Size | Plates Per Cell | Capacity 6 Hour Rate | Battery Dimensions | | | Weight |
|--------------|-----------|-----------------|-------------------------|--------------------|------------|------------|------------|
| | | | | "X" | "Y" | "Z" | |
| | | | amp hr (kwh) | in (mm) | | | lb (kg) |
| 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) |

(1) Voltage: 24V

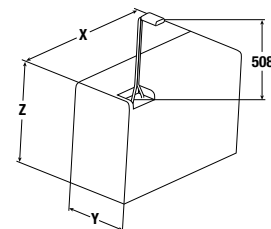
(2) Battery Connector:

-SB 175 Red - Standard / SB 175 Grey - Optional

-SB 350 Red - Optional / SB 350 Grey - Optional

(3) Battery Lead: Length 20" (508mm), Position "B", 1/0 AWG

(4) Battery Cover Required



FEATURES LIST - MPR080VG, MPR100VG

| PERFORMANCE | STD | OPT |
|--|-----|-----|
| 24 Volt Electrical System | • | |
| 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 | | • |
| 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) | | • |
| 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 steer handle | • | |
| Electric power steering | • | |
| Operator Fan | | • |
| OPERATION | STD | OPT |
| On-board software (program, test and diagnose; no handset required; password protected) | • | |
| Electronic horn | • | |
| 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) | | • |
| SUPPLEMENTAL | STD | OPT |
| Operating manual | • | |
| 12 months / unlimited hour manufacturer's warranty | • | |
| 36 months / 6,000 hour powertrain warranty | • | |
| Lifetime main frame warranty | • | |

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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.