

Yale[®] enclosed end riders incorporate the latest state-of-theart technology and ergonomic design, making Yale a leader in transport and cross-docking applications.

Operator's Compartment

Optimized operator ergonomics minimize operator strain and fatigue while maximizing productivity.

Built around the operator, the compartment design allows the operator to adjust stance during operation to reduce fatigue.

The high backrest gives the operator full back support, taking pressure off the feet, legs, back and shoulders when operated for extended periods of time. The contoured, fully padded operator's compartment provides back, hip, elbow and knee support.

The **multifunction control handle** adjusts to three different operating angles. The control handle, with an integral palm and thumb rest, is ergonomically designed and can be comfortably operated. The handle provides conveniently located controls for forward/reverse, lift/lower and horn.

The cushioned floor mat features a center brake switch and a **multizoned operator presence floor system**, allowing the operator to move his or her feet comfortably while operating the truck. The floor mat is mounted on four isolators to reduce shock from dock plates and expansion joints during operation. MPR-VG ENCLOSED END RIDER 8,000 · 10,000 lbs

Electrical System

The electrical system utilizes AC drive/traction technology designed for exceptional performance. High starting torque and smooth acceleration are benefits of this technology. An externally mounted speed sensor provides feedback to the control system, allowing motor speed and direction to be continuously monitored.

Electric power steering delivers increased sensitivity for accurate control during operation.

Yale iSi Technology[™] offers simple on-board parameter adjustment, diagnostics and interface for operators, supervisors and service personnel. Customization is available for specific applications, optimizing unit and operator efficiency to match application requirements.

CANbus technology streamlines communications between truck systems through the master controller. CANbus reduces wiring and electrical connections increasing dependability.

A Thermal Management

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

Hydraulic Components

The high performance transistorized controlled hydraulic system is designed for high cycle, multi-shift operations. The hydraulic pump and motor assembly provide high torque and low noise. The translucent tank provides quick and easy inspection of hydraulic oil level.

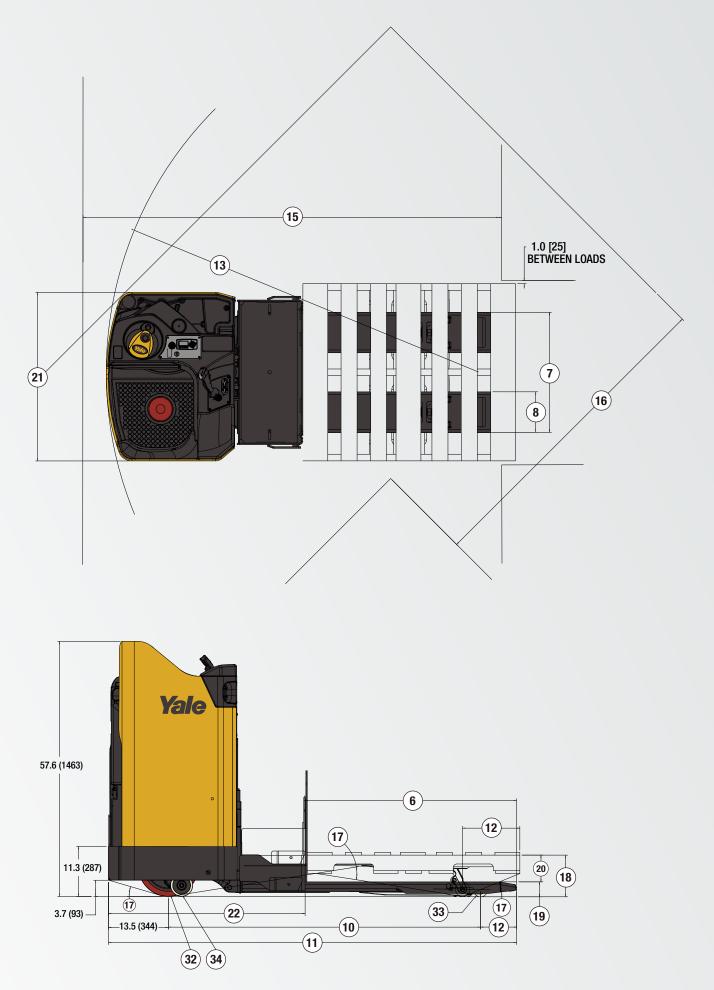
Heavy Duty Forks and Frame

The heavy duty cycle components are designed for multi-shift applications and low operating costs. The wide, cast steel lift cylinder support evenly distributes weight from heavy loads.

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Yale

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Circled dimensions correspond to the line numbers on the tabulated chart inside the spec sheet. Dimensions are in inches (millimeters).

	1	Manufacturer					Yale				
	2				MPR080VG						
	3	Battery Type				·	24 Volt				
	4				Stand Ride						
	5				8000 (3629)						
GENERAL	6	Fork Length – Nominal		lb (kg) in (mm)	48 (1219)	54 (1372)	60 (1524)	84 (2134)	93 (2362)		
GEN		Fork Length – Actual		in (mm)	47.8 (1213)	53.7 (1365)	59.8 (1518)	83.8 (2128)	92.8 (2357)		
	7	Fork Overall Width		in (mm)	27.1 (688)	27.1 (688)	27.1 (688)	28 (710)	28 (710)		
	8	Individual Fork Width		in (mm)	9.1 (232)	9.1 (232)	9.1 (232)	10 (254)	10 (254)		
	9		Raised	in (mm)	35.3 (896)	41.3 (1048)	47.3 (1201)	56.3 (1430)	56.3 (1430)		
		Load Distance (Face of Battery Box or Opt. Backrest to Ctr of Load Wheels)	Lowered	in (mm)	39.6 (1007)	45.6 (1159)	51.7 (1312)	60.6 (1540)	60.6 (1540)		
	10	Wheelbase**	Raised	in (mm)	66.5 (1689)	72.5 (1842)	78.5 (1994)	87.5 (2222)	87.5 (2222)		
	10		Lowered	in (mm)	70.5 (1791)	76.5 (1944)	82.5 (2096)	91.5 (2324)	91.5 (2324)		
	11	Overall Length	Raised	in (mm)	92.7 (2354)	98.7 (2506)	104.7 (2659)	128.7 (3269)	137.7 (3498)		
			Lowered	in (mm)	92.2 (2341)	98.1 (2493)	104.2 (2646)	128.2 (3256)	137.2 (3485)		
	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)		
			Lowered	in (mm)	8.1 (206)	8.1 (206)	8.1 (206)	23.1 (588)	32.2 (817)		
	13	Outside Turning Radius	Raised	in (mm)	80.0 (2033)	86.0 (2186)	92.0 (2338)	101.1 (2567)	101.1 (2567)		
		J	Lowered	in (mm)	84.1 (2135)	90.1 (2288)	105.2 (2673)	105.0 (2668)	105.0 (2668)		
S	15	Right Angle Stack*	Raised	in (mm)	95.2 (2418)	106.2 (2697)	105.6 (2683)	131.0 (3328)	140.4 (3566)		
NO	16	Equal Intersecting Aisle*	Raised	in (mm)	70.2 (1782)	73.3 (1862)	76.5 (1942)	82.0 (2084)	82.9 (2105)		
DIMENSIONS	17	Grade Clearance	Chassis	%	. ,	29					
N			Center of Wheelbase	%	29	26	25	21	21		
			Forks	%	37	37	37	17	13		
	18	Overall Lift Height	Top of Forks	in (mm)			9.3 (235)		I		
	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 B	attery Rollers)		32 x 13.4 x 0	PEN (813 x 340 x	(OPEN) / 31 x 13	3.4 x OPEN (787)	(340 x OPEN)		
	24				9.0 / 6.5 (14.5 / 10.5)						
PERFORMANCE	25	Max Travel Speed - Forks First (No Load / Rated Load)			7.0 / 6.5 (11.3 / 10.5)						
ORM	26	Number of Speeds			Infinitely Variable						
ERF	27	Traction Motor Control Method Type					AC Transistor				
	28	Service Brake Type				E	lectro-Mechanic	al			
S	32	Drive Tire – Size / Type (Number of Wheels)			13.5 x 5.5 x 8.0 / Polyurethane (1)						
WHEELS	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	Туре					Lead Acid				
RY	36	Ampere Hours - Maximum	ah			930					
BATTERY	37	Ampere Hours - Minimum		ah			375				
B/	38	Maximum Weight			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.

	1	Manufacturer				Ya	lle			
	2	Model Designation				MPR100VG				
	3	Battery Type			24 Volt					
F	4	Operator Type		Stand Ride						
	5				8000 (3629) 10000					
GENERAL	6	Fork Length – Nominal		in (mm)	96 (2438)	144 (3658)	144 (3658)	160 (4064)		
GEI		Fork Length – Actual		in (mm)	95.8 (2433)	143.8 (3652)	143.8 (3652)	159.9 (4063)		
	7	Fork Overall Width		in (mm)	28 (710)	28.6 (726)	28.6 (726)	28 (710)		
	8	Individual Fork Width		in (mm)	10 (254)	10.6 (270)	10.6 (270)	10.3 (262)		
	9	Load Distance (Face of Battery Box or	Raised	in (mm)	56.3 (1430)	104.3 (2649)	83.9 (2131)	106.0 (2694)		
		Opt. Backrest to Ctr of Load Wheels)	Lowered	in (mm)	60.6 (1540)	108.6 (2759)	87.7 (2228)	110.5 (2806)		
	10	Wheelbase**	Raised	in (mm)	87.5 (2222)	135.5 (3442)	114.6 (2910)	137.4 (3490)		
			Lowered	in (mm)	91.5 (2324)	139.5 (3544)	118.6 (3012)	141.4 (3591)		
	11	Overall Length	Raised	in (mm)	140.7 (3574)	188.7 (4793)	188.7 (4793)	204.9 (5204)		
			Lowered	in (mm)	140.2 (3561)	188.2 (4780)	188.2 (4780)	204.4 (5191)		
	12	Center of Load Wheel to Tip of Forks	Raised	in (mm)	39.5 (1003)	39.5 (1003)	59.9 (1521)	53.9 (1369)		
			Lowered	in (mm)	35.2 (893)	35.2 (893)	56.1 (1424)	49.5 (1257)		
	13	Outside Turning Radius	Raised	in (mm)	101.1 (2567)	149.1 (3789)	128.1 (3254)	150.9 (3834)		
			Lowered	in (mm)	105.0 (2668)	153.1 (3888)	132.1 (3356)	154.9 (3934)		
ŝ	15	Right Angle Stack*	Raised	in (mm)	143.5 (3644)	189.8 (4820)	190.6 (4842)	206.0 (5232)		
sion	16	Equal Intersecting Aisle*	Raised	in (mm)	83.2 (2114)	108.0 (2744)	99.7 (2533)	114.6 (2912)		
DIMENSIONS	17	Grade Clearance	Chassis	%	29					
			Center of Wheelbase	%	21	15	16	15		
			Forks	%	12	12	8	9		
	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 B	attery Rollers)		32 x 13.4 x OPEN	(813 x 340 x OPEN)	/ 31 x 13.4 x OPEN (7	787 x 340 x OPEN)		
ų	24	Max Travel Speed - Chassis First (No Load / Rated Load)			9.0 / 6.5 (14.5 / 10.5)					
PERFORMANCE	25	Max Travel Speed - Forks First (No Load / Rated Load)			7.0 / 6.5 (11.3 / 10.5)					
ORN	26	Number of Speeds			Infinitely Variable					
PERF	27	Traction Motor Control Method Type			AC Transistor					
	28	Service Brake Type			Electro-Mechanical					
ELS		Drive Tire – Size / Type (Number of Wheels)			13.5 x 5.5 x 8.0 / Polyurethane (1)					
WHEELS	33	Load Wheel / Trail Wheel – Size / Type (#		in		3.25" x 6.5" / Po				
	34	Caster Wheel – Size / Type (Number of W			dj. w/ Poly Spring Blo	Poly Spring Block				
	35	Туре			Lead Acid					
ERY	36									
ваттеву	37	Ampere Hours - Minimum		ah 930 ah 375						
8	38				1500 (680)					
	39	linimum Weight Ib (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.

The boxed-in forks and reinforced fork tips are designed for maximum rigidity and minimal fork flex. Heavy duty castings relieve stress at critical pivot points.

Heavy Duty Linkage

Hardened flag linkage pins are bolt retained for ease of serviceability and low cost of operation. Heavy duty pull rods with center welded threaded insert provide ease of adjustment and shock absorption. All pivot points have "X" groove style bushings and are easily accessible. Critical linkage components are made from durable cast material for maximum durability and lowest cost of operations. Advanced lift geometry reduces pivot point stress points.

Pallet Entry and Exit

The standard fork tip utilizes a carburized steel blade to hold down and climb pallet bottom boards for easy entry.

Extended length exit runners coupled with large exit rollers are available on single load wheel configurations, providing a smooth transition out of pallets.

Dual Caster Wheels

The load bearing, quick-adjust dual caster wheels utilize a polyurethane block to provide shock absorption, which reduces wear on the caster and the truck. Its unique sloped profile is designed to glide over high impact areas, providing the operator with a smoother ride. The heavy duty caster is an integral part of the truck's unique 4-point stance, providing excellent stability and control during operation.

Options

Keyless toggle ignition switch Fork lengths

- 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 only)

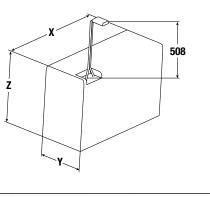
Pallet entry bar (MPR80VG only) Cooler/freezer package: operating temperatures: 0°F to +120°F Wash down package: operating temperatures: 0°F to +120°F Drive tire

- 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" Load wheels
 - Single, dual and tandem (tandem with extended tip only)
 - 2 bearing and 4 bearing
 - Standard bearing and sealed bearing

Heavy duty casters – sealed wheel Load backrest

- 48" high (pivoting or bolt-on)
- 60" high (pivoting or bolt-on)
- 72" high (bolt-on)
- Convenience tray (battery mounted)
- RF terminal power supply 24-volt
- DC converter with automotive style 12-volt outlet
- Work light sensor
- Audible alarm

BATTERY SPECIFICATIONS									
Num-			Capacity 6 Hr Rate	E	Weight				
ber of Cells	Cell Size			"Х"	"ү"	"Z"	weigin		
			Cell	Cell	Cell	amp hr (kwh)	in (mm)	in (mm)	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)	26.5 (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



2566-1 10/2014 All trucks shown with optional equipment.

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 856.1 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.