



ideas @ work

Product Comparison

Big Joe D40 VS Yale MPB040-E

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General Overview

Innovation & Technology vs Traditional and Cheap



Compare the patent pending Big Joe D40 to the Yale MPB040-E and you will see how new design principles and technologies can create more value at a lower price than a traditional truck design simply built on the cheap.

For delivery applications, the Big Joe D40 can outperform many standard trucks like the Yale MPB040-E on lift gates, in-trailer, or as a tool to perform direct store deliveries.

Smaller, lighter, and with superior travel control, the D40 can out maneuver the Yale truck and includes features and components that provide better long term value.

Advantage: Big Joe D40

	Big Joe D40	Yale MPB040-E
Drive System	AC	DC
Operating Voltage	24V	24V
Rated Capacity	4,000lbs	4,000lbs
Overall Length	64"	66.6"
Chassis Width	25.5"	29.2"
Steering Arc	>180 degrees	<180 degrees
Turning Radius	57.5"	61.5"
Adjustable Push/Pull Rods	Yes	No
Creep Speed	Hands Free	Push Button
Torsion Stability Bar	Standard	Optional
Battery Pack Type	AGM	Wet / Optional Gel
Battery Discharge Indicator	Standard	Optional
Weight with Battery	600lbs*	850lbs*

*With batteries or battery pack.

Maneuverability



The single most important factor for an electric pallet truck after capacity is maneuverability. If you can't get places you need to go, or if you continually bump door frames, trailer walls, or take up too much space on a lift gate, both productivity and the equipment suffer. While both of these units can carry 4,000lbs, the unique chassis design of the D40 delivers significant maneuverability advantages.

Advantage: Big Joe D40



Big Joe D40

Greater than 180 degree steer arc

25.5" wide chassis

Overall Length 64"

57.5" Turning Radius



Yale MPB040-E

Less than 180 degree steer arc

29.2" wide chassis

Overall Length 66.6"

61.5" Turning Radius

Travel and Lift Controls



Compare the vehicle control systems of the Big Joe D40 and Yale MPB040-E and you will understand how an AC controller, hands free creep speed and ergonomics conspire to deliver superior control characteristics on the Big Joe D40.

Advantage: Big Joe D40



Big Joe D40

An AC travel controller enables the drive motor to deliver exactly the right mix of torque and speed needed by the operator resulting in smooth and accurate travel control.

A two position microswitch at the base of the tiller allows for hands-free creep speed control. Simple systems improve reliability and reduce cost.

Button placement for lift & lower is well positioned.



Yale MPB040-E

A DC travel controller and 3 speed settings deliver acceleration characteristics that result in poor operator travel control. Additional control card functions in the head add complexity and cost with little tangible benefit.

Operators must hold down a creep button which is mounted on the underside of the head when operating in creep speed mode.

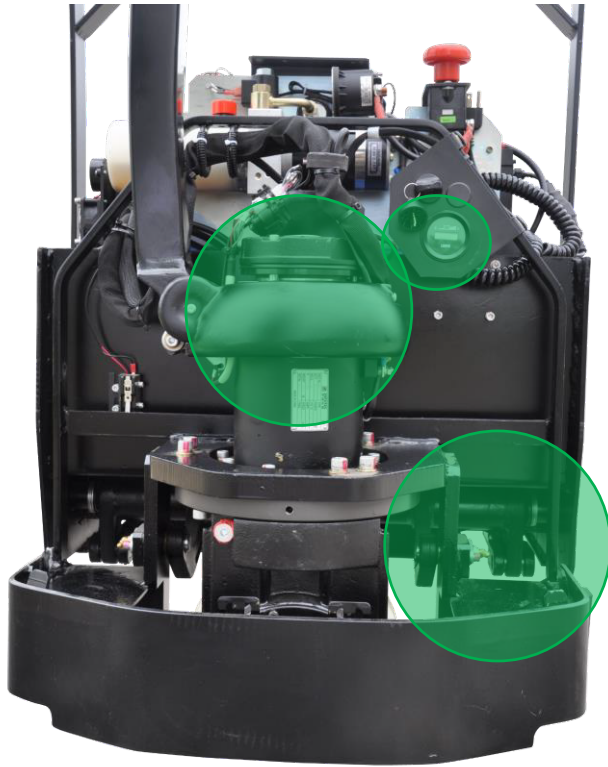
Button placement for lift & lower is awkward.

Frame & Components



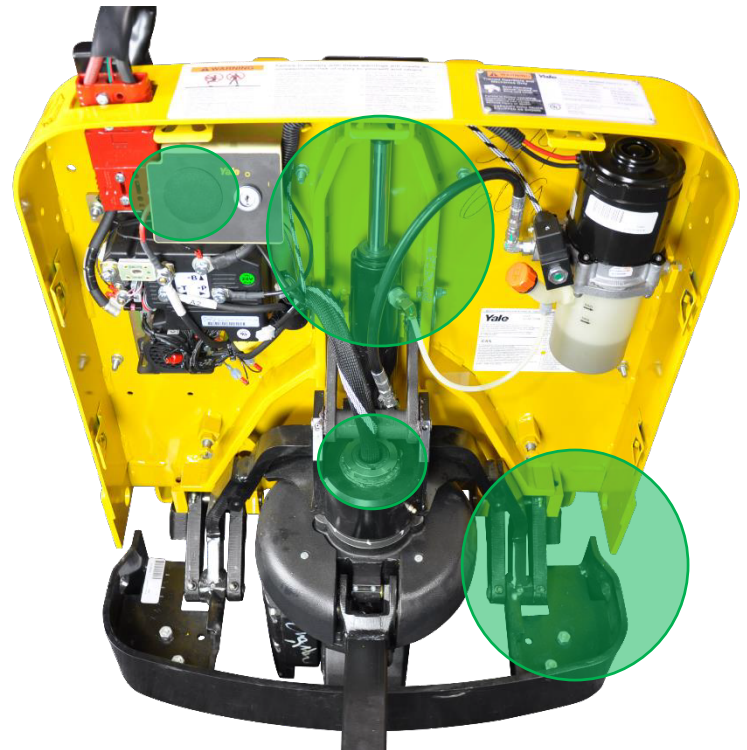
Compare the frame and components of both vehicles and you will see how the more traditional MPB040-E design built on the cheap simply does not stack up to the new school D40 built with several more robust parts.

Advantage: Big Joe D40



Big Joe D40

- Large top bearing resulting in less wear.
- Large lift cylinder operates at lower pressure.
- Pump has to work less to lift a similar load.
- Standard torsion bar results in good stability.
- Standard truck is stable even without casters.
- Battery Discharge Indicator Standard



Yale MPB040-E

- Small top bearing.
- Small lift cylinder operates at higher pressure.
- Pump has to work harder to lift a similar load.
- Torsion bar is optional. Wide heavy frame is less stable often making casters necessary.
- BDI Discharge Indicator Optional

Yale MPB040-E Serviceability



Compare the D40 and MPB040-E in regard to major service items and you will find that the D40 doesn't just outperform the MPB040-E on several important measures. The D40 can also reduce long term operating expenses through the appropriate use of technology and a focus on making a great truck rather than a cheap truck.

Advantage: Big Joe D40



Yale MPB040-E

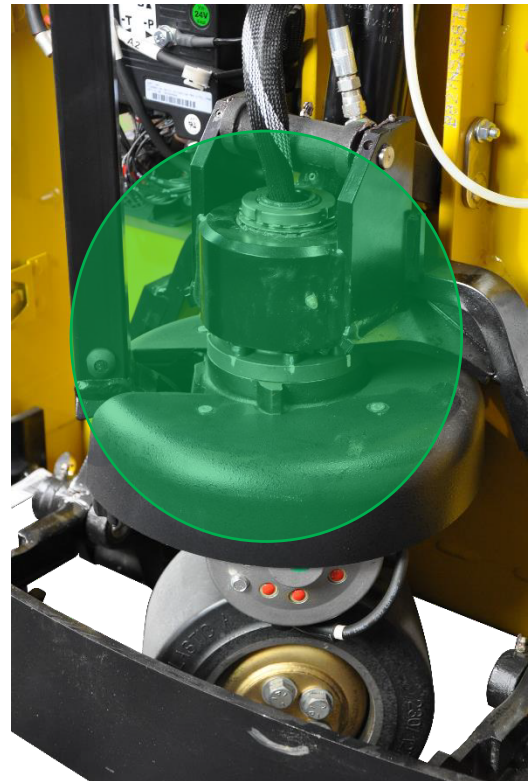
DC drive motor has internal brushes that require regular service as carbon builds up. DC motors operate hot which can stress other internal components and wiring.

Wet batteries require regular watering and significantly heat during charge. This requires a lengthy cool down period before operation.

Optional gel batteries also heat during charge due to high internal resistance which leads to shorter battery life compared to other types.

Non-adjustable brake assembly.
Replacement requires removal of the drive.

Fixed push rods put load forces on the rods themselves, which could cause the rods to bend or warp. Since these rods are non-adjustable, such damage may require expensive replacement.



Big Joe D40 Serviceability



Compare the D40 and MPB040-E in regard to major service items and you will find that the D40 doesn't just outperform the MPB040-E on several important measures. The D40 can also reduce long term operating expenses through the appropriate use of technology and a focus on making a great truck rather than a cheap truck.

Advantage: Big Joe D40



Big Joe D40

AC drive motor is brushless and sealed eliminating the need for regular maintenance. AC motors operate cool reducing stress on other components and wiring.

AGM batteries are maintenance free and stay relatively cool when charged. Unlike other battery types, AGM battery's solid wafer construction greatly reduces the potential for material shedding which greatly extends battery life.

Serviceable brake assembly

Adjustable push rods allow for repair if damaged.

