

TOTAL
WAREHOUSE

BIG JOE

PRODUCT MANUAL
WS25-40

2,500-4,000lbs. Stackers

Ver. 2026-02-16



WS25-40 OVERVIEW



This information for use by Big Joe employees and dealers only.

Ver. 2026-02-16

The WS25-40 series of high-performance straddle stackers are Big Joe's premium offering. They are designed for maximum maneuverability, productivity and operator convenience.

Each model comes standard with smooth, proportional hydraulic controls and adjustable straddle legs.



WS25-40 NOMENCLATURE



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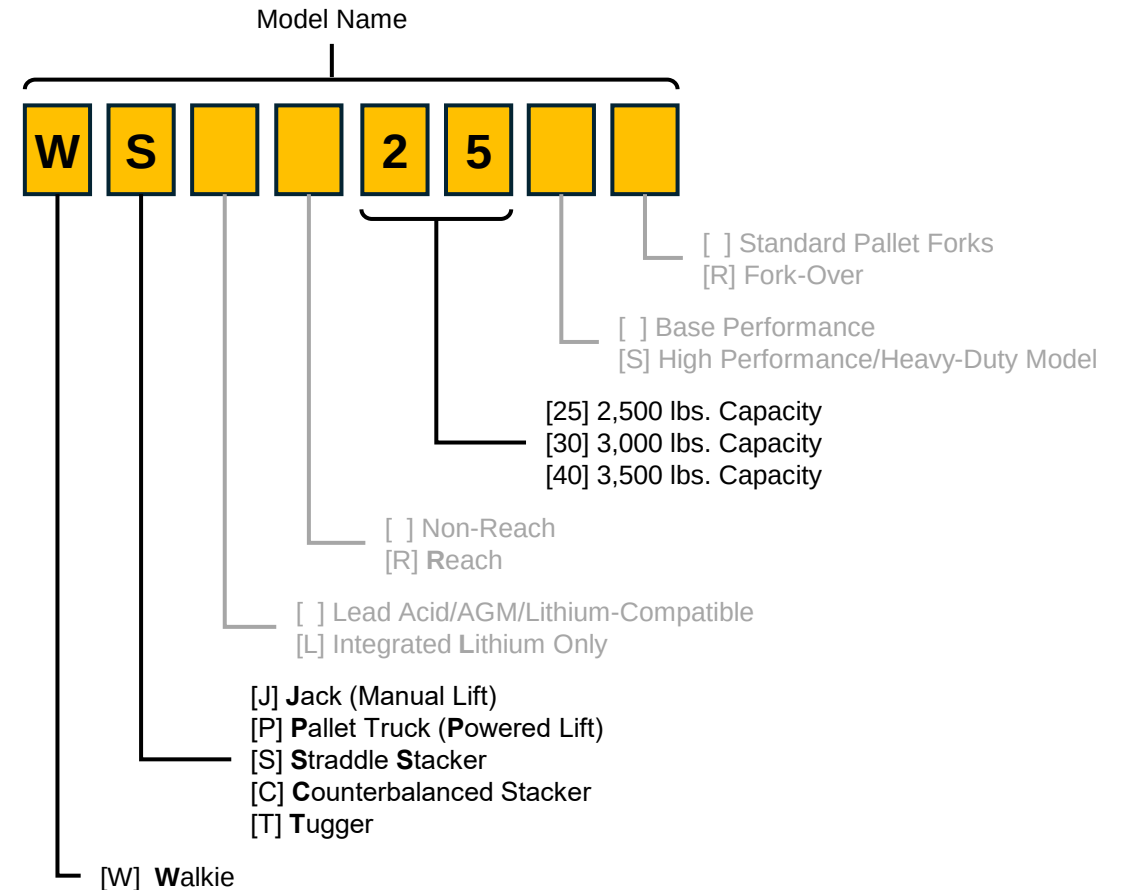
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The WS25-40 series includes 3 models that follow Big Joe's latest standard for model names:

WS25 2,500lbs. Capacity

WS30 3,000lbs. Capacity

WS40 4,000lbs. Capacity



WS25-40 LITHIUM-ION BATTERY & CHARGER



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LI-ION

WS25-40 comes standard with a Lithium-ion battery and onboard charger.

Model	Battery	Charger
WS25	2.4kWh (24V 100Ah)	Onboard Charger 120VAC, 30A Output (0.72kW)
WS30	4.9kWh (24V 205Ah)	
WS40		

WS25-40 PROPORTIONAL CONTROLS



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Proportional hydraulic controls enable the operator to finely control speed of the lifting, lowering and optional sideshift functions.

More movement of the rocker-style controls means higher speed. This provides maximum speed for quick lifting and lowering, while giving the operator confidence to precisely pick and place loads.

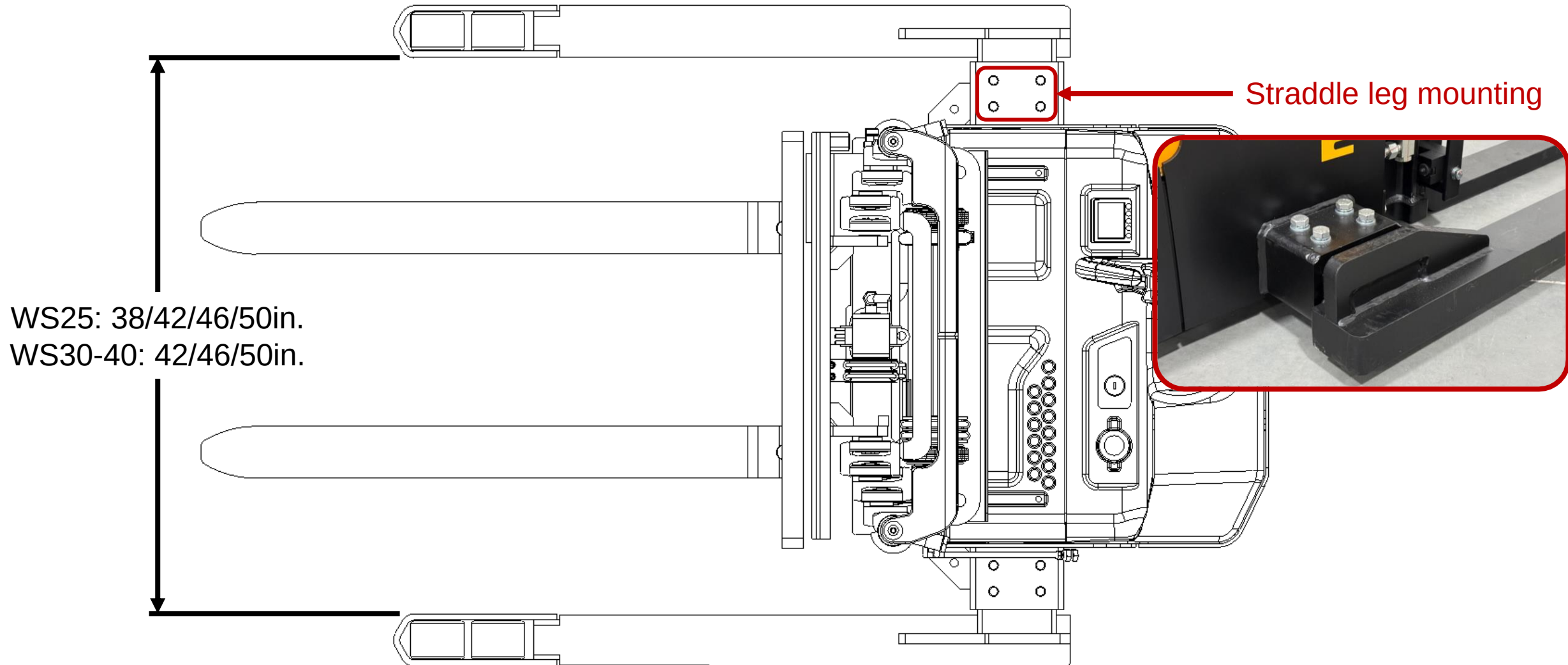


WS25-40 ADJUSTABLE STRADDLES



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WS25-40 LCD BLUETOOTH DISPLAY



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The display on WS25-40 can connect via Bluetooth for service diagnostics and adjustment.

The operator can select between 3 performance modes: Economy, Sport and Performance.

The display shows battery state of charge and allows setting of operator password to restrict use of the truck.



WS25-40 OPERATOR CONVENIENCE



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ONBOARD CHARGER CORD

STORAGE TRAYS

E-STOP BUTTON

USB A + USB C CHARGER

KEY SWITCH

DISPLAY



WS25-40 VISIBILITY



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WS30 with 157in. mast shown



WS25-40 PERFORMANCE MODES



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Performance modes tailor the truck’s travel speed and acceleration to the user’s preferences. Economy (E) is the slowest mode with very low acceleration. Sport (S) and Performance (P) modes provide full travel speed, but Sport (S) has reduced acceleration.

	ECONOMY	SPORT	PERFORMANCE
TRAVEL SPEED	40% (1.4mph)	100% (3.4mph)	100% (3.4mph)
ACCELERATION	20%	60%	100%

WS25-40 UNDER THE HOOD



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E-STOP SWITCH

HORN

CONTACTOR

CONTROLLER

HYDRAULIC PUMP MOTOR

HYDRAULIC VALVE

PARKING BRAKE

FLOW REGULATOR

HYDRAULIC FLUID TANK

DRIVE MOTOR

WS30 SHOWN

LITHIUM-ION BATTERY CERTIFICATION



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Most Big Joe Lithium-ion batteries are UL-Recognized, meaning:

- ✓ The battery is designed to meet UL2580 standards
- ✓ The battery has been tested by a third-party Nationally Recognized Testing Lab (NRTL), recognized by OSHA. These labs include UL, TÜV, Intertek and CSA Group.
- ✓ Recognized batteries are labeled with the relevant lab's mark:



**UL Recognized
Component (UR)**



TÜV



Intertek



CSA Group

Some Big Joe Lithium-ion batteries are not UL-recognized. While these batteries are designed to comply with UL standards, they have not undergone the third-party certification and are typically called out as “non-UL.”

Recognized? Certified?

The word “recognized” is used to describe UL-Recognized Big Joe Lithium-ion batteries, indicating that the battery has been tested and approved by Underwriters Laboratories for use within a larger system or device (the forklift), rather than as a standalone product (such as a forklift, itself).

WS25-40 VS. PDS25-40

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WS25-40 replace the legacy PDS25-40 models:

PDS25



PDS30



WS25-40 all feature a control handle with low pivot for ergonomic operation, whereas PDS30-40 had a high pivot

WS25



WS30-40



WS25-40 models share a common design with contemporary styling and a more compact footprint.

WS25-40 VS. PDS25-40



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Key differentiators between WS25-40 and PDS25-40 are:

- ✓ Faster lift/lower speeds
- ✓ Improved visibility
- ✓ Proportional hydraulic controls on all models
- ✓ Adjustable straddles on all models
- ✓ Lithium-ion batteries only
- ✓ Bluetooth display
- ✓ Improved residual capacities

		PDS25	WS25	PDS30	WS30	PDS40	WS40
Capacity	lbs.	2500		3000		4000	
Lifting speed, laden/unladen	fpm	18/31	35/51 ▲75%	23/31	35/51 ▲60%	32/37	31/39
Lowering speed, laden/unladen	fpm	17.8/18.4	72/60 ▲3.6X	33/25	72/60 ▲2.3X	56/29	55/51 ▲25%
Travel Speed, laden/unladen	mph	3.1/3.4	3.1/3.4	3.1/3.4	3.1/3.4	3.1/3.4	3.1/3.4
Drive motor rating S2 60 min	kW	1.1	1.6	1.6	1.6	1.6	1.6
Lift motor rating at S3 15%	kW	2.2	4.5	3.0	4.5	3.0	4.5
Max. gradeability, laden/unladen	%	8/16	10/23	8/10	8.5/23	6/10	6/23
Overall Length	in.	76.7	74.2 ▼2.5in.	78.5	77.5 ▼1.0in.	82.0	77.5 ▼4.5in.
Service Weight	lbs.	2530	2311 ▼219lbs.	2172	2620	2238	2634
Battery	-	24v Lead Acid 24v205ah Li 24v224ah AGM	24V/100Ah Li-Ion	24v Lead Acid 24v205ah Li 24v224ah AGM	24V/205Ah Li	24v Lead Acid 24v205ah Li	24V/205Ah Li
Other	Proportional Control	No	Yes ✓	Yes		Yes	
	Display	Basic BDI	Bluetooth Display	Basic BDI	Bluetooth Display	Basic BDI	Bluetooth Display
	Straddle Type	Adjustable		Adjustable		Fixed	Adjustable NEW
	Max Lift Height	157in.		177in.	189in.	177in.	189in.

WS25-40 COMPETITORS



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Crown	Jungheinrich	Yale	Toyota	Noblelift
ST 3200-25	EJC 212b	MSW025-F	MSL30WUX	PSE26N SL
SX 3200-30	EJC 214b	MSW030-F	WS1-HD30	PSE30
SX 3200-40	EJC 216b	MSL30WUX	WS1-HD40	PS40TSL
	EJC 220b	MSW040-E		

WS25 VS. COMPETITION



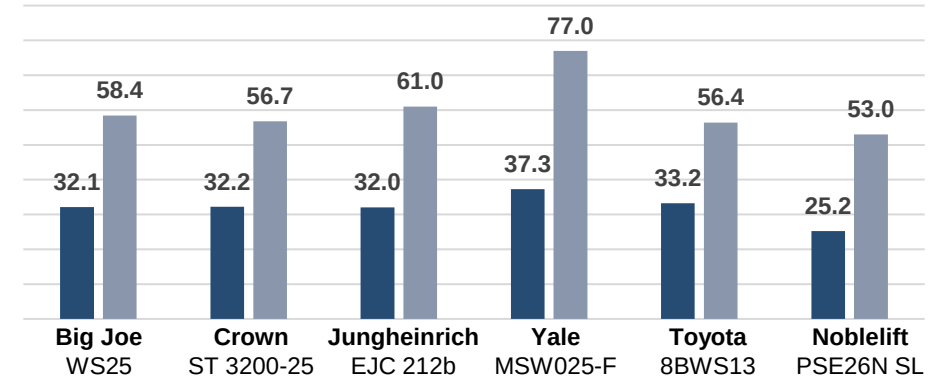
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MANEUVERABILITY (in.)

A compact chassis makes WS25 as maneuverable as or better than its mainline competitors.

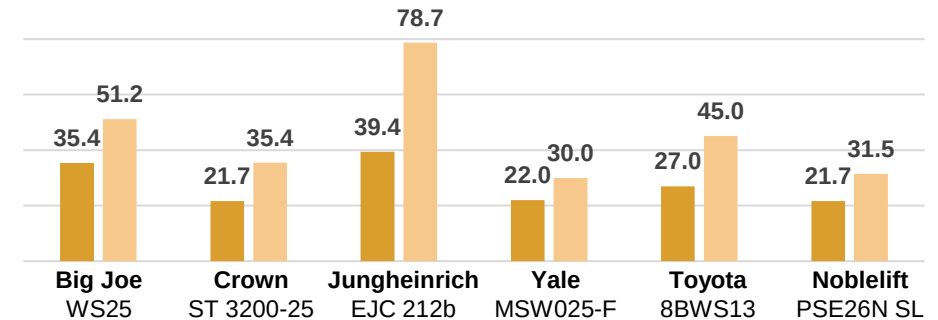
Length to Face of Forks
Turning Radius



LIFTING SPEED (ft/min)

WS25 has the highest lifting speeds among leading competitors except against Jungheinrich.

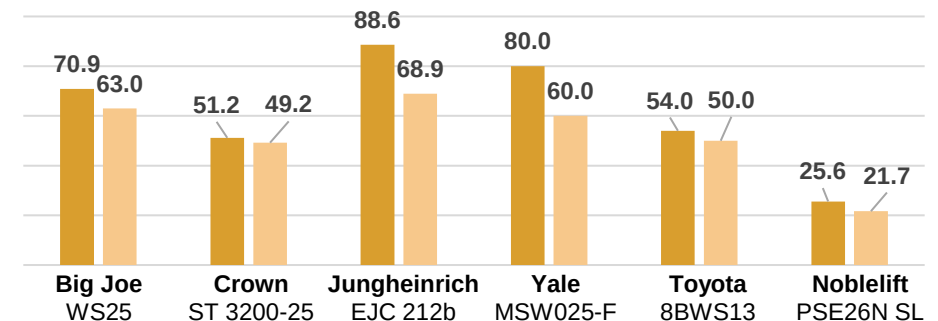
Loaded
No Load



LOWERING SPEED (ft/min)

WS25's lowering speed is right in line with class leaders.

Loaded
No Load



WS30 VS. COMPETITION

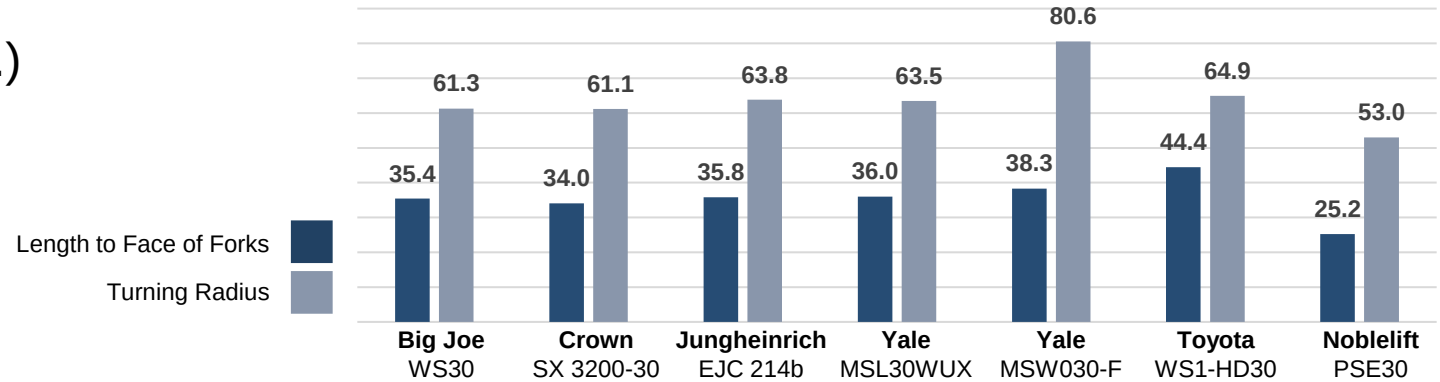


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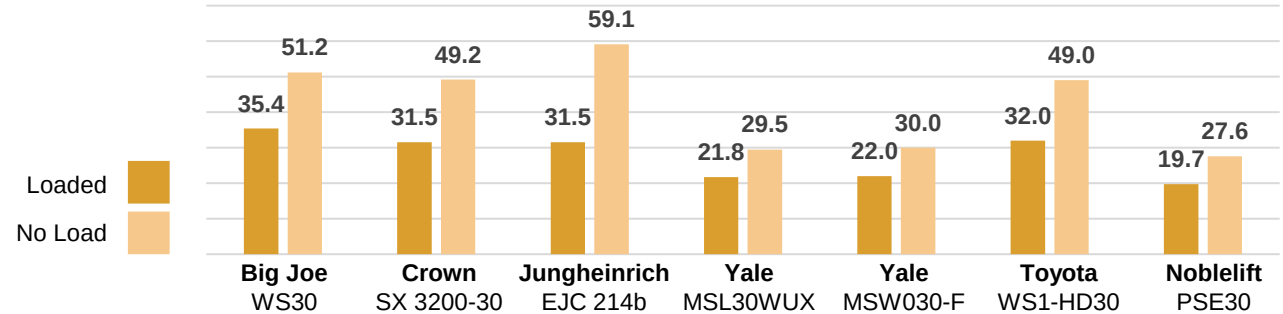
MANEUVERABILITY (in.)

A compact chassis makes WS30 as maneuverable as or better than its mainline competitors.



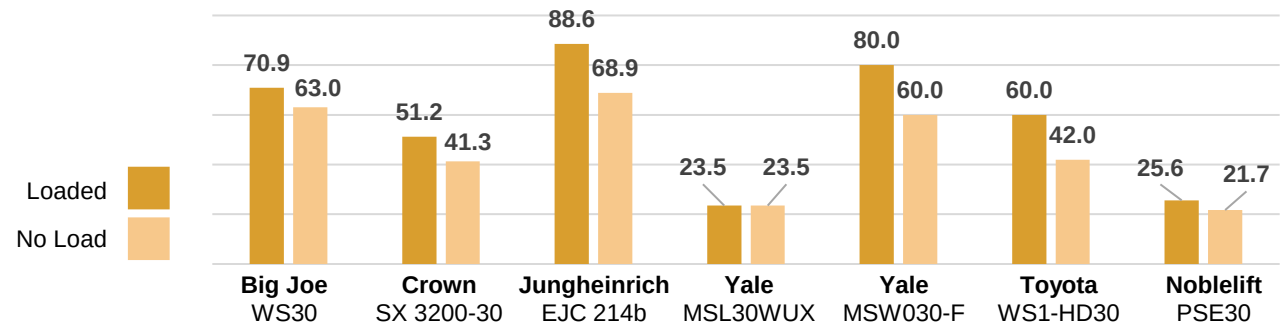
✓ LIFTING SPEED (ft/min)

WS30 has the highest loaded lifting speed among its top competitors. Its unloaded lifting speed is second only to Jungheinrich.



LOWERING SPEED (ft/min)

WS30's lowering speed is right in line with class leaders.



WS40 VS. COMPETITION

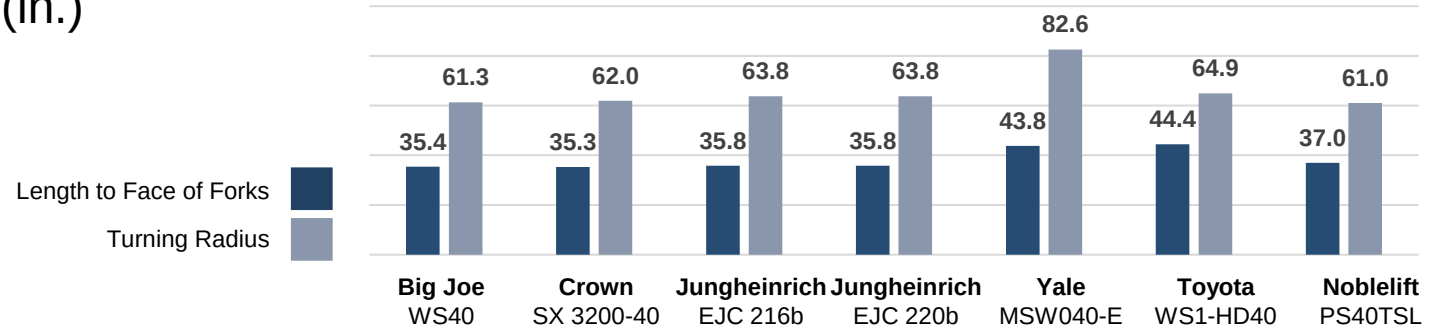


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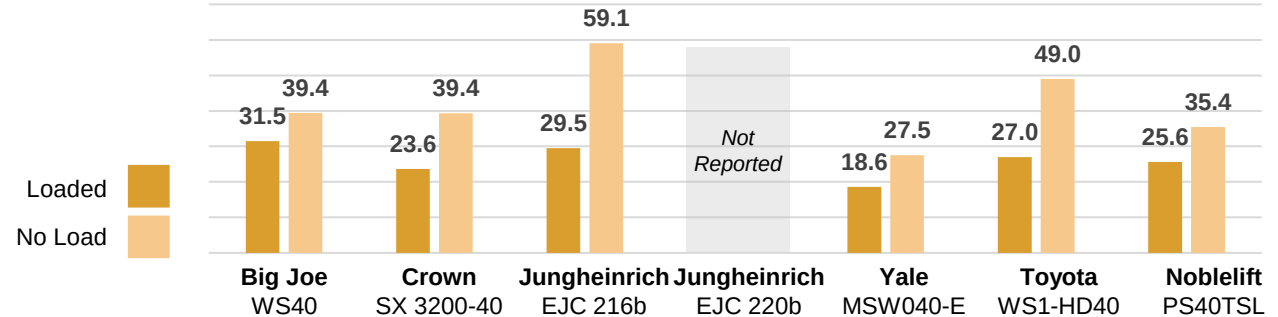
✓ MANEUVERABILITY (in.)

WS40 is the most maneuverable
4,000lbs. capacity stacker among
mainline competitors.



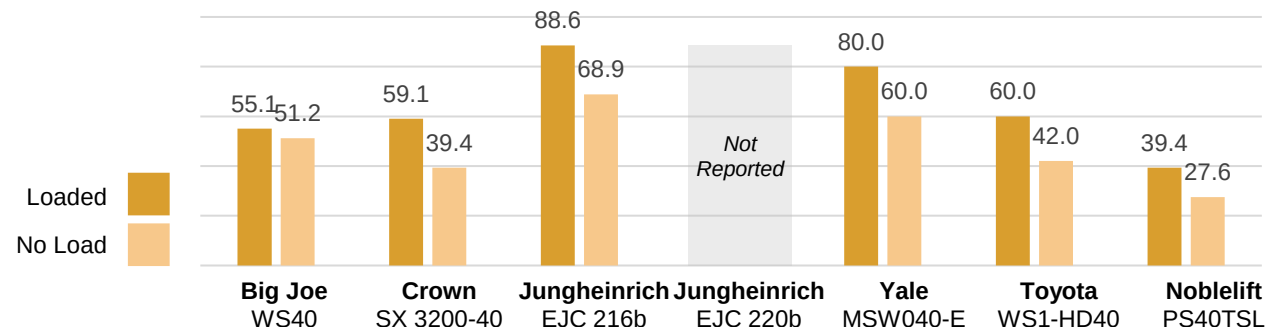
✓ LIFTING SPEED (ft/min)

WS40 has the highest loaded lifting speed among its top competitors. Its unloaded lifting speed is second only to Jungheinrich.



LOWERING SPEED (ft/min)

WS40's lowering speed is right in line with class leaders.





POWERING PROGRESS

Big Joe Forklifts, established in 1951, is a North American leader in material handling solutions with a mission to empower the people who move things and a vision to be the trusted partner delivering disruptive solutions that accelerate the industry's transformation from internal combustion to electric to fully autonomous. Our tagline, Powering Progress, reflects our commitment to innovation and partnership as we deliver lithium-ion forklifts, advanced material-handling equipment, and autonomous solutions through our nationwide dealer network.



BIG JOE

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