

SPX(E) Series



Center Control Walkie / Rider Pallet Truck

24 Volt AC-Powered
6,000 & 8,000 lbs. Capacities

UNICARRIERS[®]
[FORKLIFT]

NEVER QUIT.

YOUR JOB DOESN'T STOP, AND NEITHER SHOULD YOUR FORKLIFTS.
THAT'S WHERE WE COME IN.

Your application isn't just picking product from aisles upon aisles. There's loading docks, freezers and ramps and moving that product where it needs to go all while operators are constantly getting on and off the trucks for all the daily tasks that keeps business moving.

Flexibility is the name of the game. And that's where the SPX(E) excels.

Power:

24V AC Electric

Maneuverability:

Excellent handling to help increase productivity

Environment:

Durable construction for demanding, multi-shift environments

Travel Distance:

Medium to long distances

Lift:

9.25" in. from ground



SPX(E) Series In Your Application

Performance, reliability, control, safety and comfort – the SPX(E) incorporates them all to excel in a wide-range of fast-paced industrial applications, such as:

- Distribution & Production
- Warehousing Operations
- General Manufacturing
- Short-term Rentals

SPX(E): YOUR APPLICATION DESERVES BOTH RELIABILITY AND MANEUVERABILITY.

ERGONOMICS & COMFORT

The adjustable steer head combined with a cushioned platform and padded compartment provide an impressive workplace to achieve maximum operator comfort and reduced fatigue resulting in sustained productivity. The steer head is adjustable up and down to four set positions to accommodate a variety of user heights and allow for easy battery removal. The steer head's wide, 190° steering arc for SPX, 180° steering arc for SPXE allows for precise maneuvering in tight spaces with minimal effort.

Ergonomic layout of the truck's control head includes rotary-thumb travel speed controls, which can be operated from either side. Ergonomic placement of lift, lower and horn buttons provides intuitive fingertip control. Soft-touch switches also simplify load lifting and lowering.

Standard hood mounted pick switches allow the operator to work efficiently and advance the truck while walking alongside.

Rubber padded, intermediate handrail features thick tubular construction for greater dependability. Large, sealed buttons provide operator with greater control of fork raise/lower and reverse travel commands, as well as horn functions. It's bolted to the truck frame for faster replacement or repair.

The SPX(E) is designed with a large operator platform. Combined with a compact hood design, operators have several comfortable positions, to reduce fatigue and promote sustained productivity. Soft, cushioned platform mat provides added comfort.

EFFICIENCY & CONTROL

Advanced motor controller/AC inverter electronically distributes power as needed to the AC drive motor or DC pump motor. System offers programmable regenerative neutral braking and proportional plugging. Its AC design eliminates forward and reverse contactors, with electronic travel speed control for precise, efficient performance.

An optional multi-function LCD includes three hour meters and Personal Identification Number (PIN) codes to restrict truck access for greater fleet control. It provides access to customized performance settings and displays a battery discharge indicator with graphic representation of the remaining battery charge. The optional feature also offers on-board diagnostics and troubleshooting without the need for a separate hand tool.

DURABLE DESIGNS

Exclusive articulated frame design with 5-point suspension incorporates drive wheel and swivel caster wheels that are separate from the rear load bearing frame, permitting smooth, independent movement of rear frame and chassis, resulting in easier negotiating over dock plates and uneven floors.

The SPX(E) Series is manufactured with a rugged frame for tough applications. Powder coat paint, inside and out, delivers a durable, high gloss, scratch resistant finish. Heavy-duty integrated lift system (DC motor, lift pump and fluid reservoir) includes a check valve and flow regulator. Lift limit switch is not needed since the controller cuts the pump. Return line filtering protects the system against environmental contaminants. A quiet, spiral beveled gear drive system with sealed ball bearings provides solid performance with low steer effort.

RUGGED FORK ASSEMBLY

Forks are 9¼" wide, constructed from ¼" plate steel, and designed with a reinforced tip for extra durability. Tapered ¼" steel fork slides facilitate pallet entry and exit without the use of entry rollers or discs. Various lengths available for both double and single pallet fork options. All come with a standard 27" wide fork spread.

Steel push rods are constructed from 1½" x 1½" solid bar stock to absorb high impact shocks caused by dock boards and dock plates and never need replacing. Push-type design achieves full 6" of lift without tie rods extending beyond the fork plane, preventing the possibility of damage and reducing maintenance costs.

Tie rods are positively aligned and pinned, so no field adjustments are required. Full-length, angle iron reinforcements enhance strength to reduce torsion, for increased durability and longer life. Each fork extends under the battery box for greater strength.

LITHIUM-ION BATTERY POWER OPTIONS AVAILABLE

Smart power solutions are designed to communicate directly with the truck for increased efficiency and results. Maintenance-free, which reduces the total cost of ownership and downtime from traditional lead-acid batteries. Lithium-ion batteries are covered by a 6-year, 3,600-cycle with 75% residual capacity.

EFFICIENT PERFORMANCE & GREATER UPTIME

Heavy-duty 5.2 Hp, brushless, three phase AC drive motor, provides high power and torque to handle tough applications. Motor delivers peak performance throughout the battery range. Longer run times per battery charge are achieved by using less energy per cycle.

SPX(E) includes an IP65 rated sealed controller. Sealed switches and logic boards allow operation in multiple environments including coolers, wet rooms and freezers down to -20°F (-28.9°C).

Digital CAN communication between the controller and control handle uses just four wires in the control handle harness to send multiple signals. Hall Effect speed and acceleration control sensor simplifies maintenance and limits downtime due to its non-contact design with fewer moving parts, and no mechanical wiping action, potentiometers, or heaters. Elimination of directional and lift contactors combined with enhanced thermal capabilities mean optimum performance and minimal downtime.

Electrical braking system uses regenerative motor torque prior to disc brake actuation, for less component wear and longer life. The spring-applied/electronically released disc brake system eliminates the need for adjustments. Brake actuation occurs when the handle is in the upper and lower braking range.



LOWER OPERATING COSTS

Brushless AC drive motor uses fewer components and requires less maintenance for lower operating costs. Easily accessible, rotation sensing encoder is externally mounted on the drive motor for simplified replacement. Motor and controller feature thermal protection system to slow or shut down truck in response to high temperatures.

Unique steer race and enclosed frame design help keep major components (such as drive motor, controller and hydraulic system) free from debris kicked up by the drive tire for less maintenance and longer life.

Belt driven electrical power steering requires less maintenance cost over a chain driven system. By using a belt drive, this enables less frequent service intervals compared to a chain driven system. The belt is checked and adjusted with a simple, single bolt tensioning mechanism, requiring no lubrication or additional cleaning. (SPXE Only)

One-piece cover with two-bolt removal makes access to the drive unit, and major components quick and easy. Five nut removal of the drive tire simplifies replacement when needed. All lubrication fittings are easily accessible with the truck upright and the battery in place.

Optional auto-lift feature ensures forks are automatically at maximum lift height during operation, providing ample clearance to reduce pallet and or load carry component damage.

Electrical braking system uses regenerative motor torque prior to disc brake actuation, for less component wear and longer life. The spring-applied/electronically released disc brake system eliminates the need for adjustments.

Specifications



MAIN TRUCK SPECIFICATIONS

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers	
	2	Model	Model designation	SPX60B	SPX80B	
	3	Long model code		SPXT2W3G60V	SPXT2W3G80V	
CHARACTERISTICS	4	Rated Load Capacity	Equally Distributed Load	lb (kg)	6000 (2720)	8000 (3630)
	5	Power Type	Electric		24v	24v
	6	Operator Type	Stand-up, Center Control		Walkie / Rider	Walkie / Rider
	7	Tire Type	Drive tire		Solid Rubber	Solid Rubber
	8		Caster Wheels		Poly	Poly
	9		Load Wheels		Dyalon® A Poly	Dyalon® A Poly
	10	Wheels	Drive/caster/load	(x=driven)	1x / 2 / 2	1x / 2 / 2
FORKS	11	Fork Size	Outside spread	in (mm)	27 (685)	27 (685)
	12	Fork Height	Raised position	in (mm)	9.25 (235)	9.25 (235)
	13		Lowered position	in (mm)	3.25 (82.5)	3.25 (82.5)
	14	Individual Fork Width		in (mm)	9.25 (235)	9.25 (235)
DIMENSIONS	15	Head Length	Forks raised	in (mm)	56.9 (1445)	56.9 (1445)
	16	Width	Chassis	in (mm)	35.1 (890)	35.1 (890)
	17	Tires / Wheels	Drive tire - diameter x width	in (mm)	10 x 5 (255 x 125)	10 x 5 (255 x 125)
	18		Caster wheels - diameter x width	in (mm)	6 x 3 (150 x 75)	6 x 3 (150 x 75)
SPEED	20	Speed - Travel	No load	mph (kph)	9.0 (14.5)	9.0 (14.5)
	21		Full load	mph (kph)	7.2 (11.6)	6.2 (10.0)
	22	Speed - Lift / Lower	No load	sec.	3.0 / 4.7	3.0 / 4.7
BATTERY	23		Full load	sec.	4.2 / 4.4	4.6 / 4.3
	24	Compartment Size*	Length x Width x Height	in (mm)	33.2 x 13.5 x 31.6 (840 x 340 x 800)	
	25	Amp Hr Capacity	Max (6-hr)	Ah	840	840
	26	Weight	Min / Max	lb (kg)	855 / 1550 (390 / 700)	855 / 1550 (390 / 700)
	27	Lead Length	Position "B"	in (mm)	20 (508)	20 (508)
	28	Connector		type	SB-175 Red	SB-175 Red
	29	Battery Roller (Option)	Height from floor (forks lowered)	in (mm)	7.05 (180)	7.05 (180)

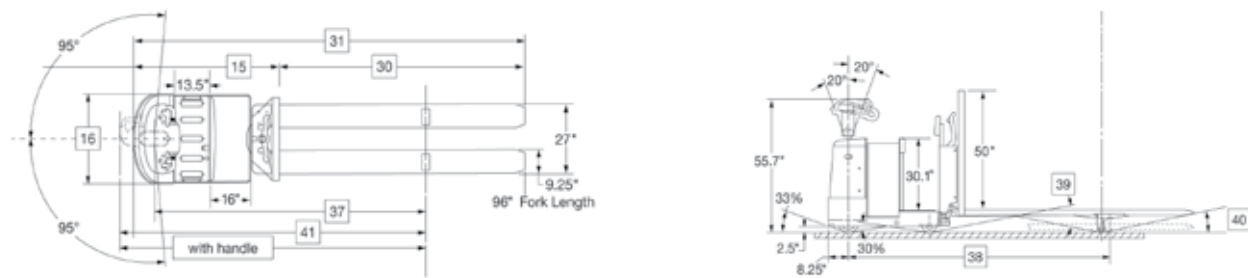
MAIN TRUCK SPECIFICATIONS

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers	
	2	Model	Model designation	SPXE60	SPXE80	
	3	Long model code		SPXE2W3G60BV	SPXE2W3G80BV	
CHARACTERISTICS	4	Rated Load Capacity	Equally Distributed Load	lb (kg)	6000 (2720)	8000 (3630)
	5	Power Type	Electric		24v	24v
	6	Operator Type	Stand-up, Center Control		Walkie / Rider	Walkie / Rider
	7	Tire Type	Drive tire		Solid Rubber	Solid Rubber
	8		Caster Wheels		Poly	Poly
	9		Load Wheels		Dyalon® A Poly	Dyalon® A Poly
	10	Wheels	Drive/caster/load	(x=driven)	1x / 2 / 2	1x / 2 / 2
FORKS	11	Fork Size	Outside spread	in (mm)	27 (685)	27 (685)
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	18		Caster wheels - diameter x width	in (mm)	6 x 3 (150 x 75)	6 x 3 (150 x 75)
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	21		Full load	mph (kph)	7.2 (11.6)	6.2 (10.0)
	22	Speed - Lift / Lower	No load	sec.	3.0 / 4.7	3.0 / 4.7
BATTERY	23		Full load	sec.	4.2 / 4.4	4.6 / 4.3
	24	Compartment Size*	Length x Width x Height	in (mm)	33.2 x 13.5 x 31.6 (840 x 340 x 800)	
	25	Amp Hr Capacity	Max (6-hr)	Ah	840	840
	26	Weight	Min / Max	lb (kg)	855 / 1550 (390 / 700)	855 / 1550 (390 / 700)
	27	Lead Length	Position "B"	in (mm)	20 (508)	20 (508)
	28	Connector		type	SB-175 Red	SB-175 Red
	29	Battery Roller (Option)	Height from floor (forks lowered)	in (mm)	7.05 (180)	7.05 (180)

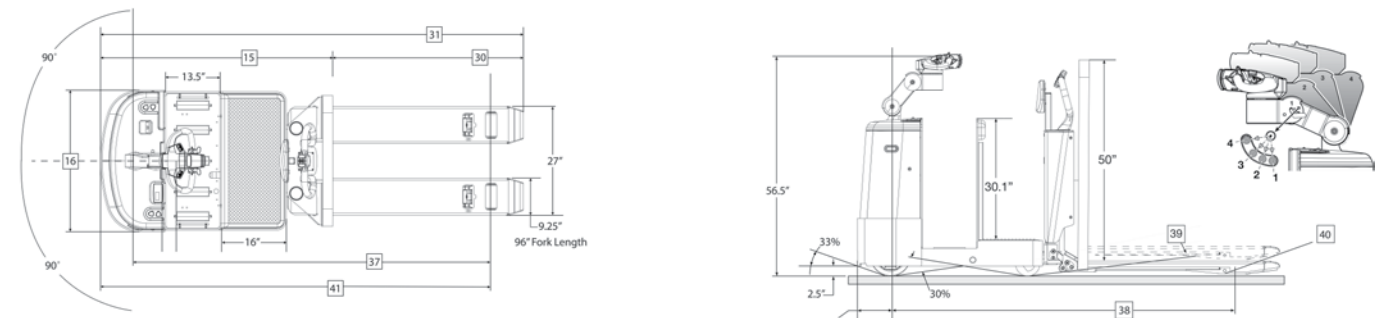
*Battery compartment size with optional rollers and side gates: 30.9 x 13.5 x 31.6 (785 x 345 x 805)

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SPX60B / SPX80B



SPXE60B / SPXE80B



Reliability.

It's the defining trait of our brand and our forklifts.



UniCarriers' roots extend back over 100 years, and over that time, strong, reliable performance has always been the hallmark of our people and our equipment.

Today, our unrivaled reliability continues to provide UniCarriers' customers with a competitive edge. And together, we move the merchandise that moves world commerce with greater efficiency, economy and reliability.

Which brand do you trust?
The one you never have to think about.

We Never Quit.



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