

MXS Series



Electric Counterbalance

48 Volt AC-Powered
2,700 – 4,000 lbs. Capacities

UNI CARRIERS
[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 MXS excels.

- Power: 48V AC Electric
- Maneuverability: Superior maneuverability with both 3- and 4-wheel configurations
- Environment: Highly maneuverable to handle tight spaces indoors and outdoors
- Travel Distance: Versatility to handle tight spaces or longer run times
- Lift: Max fork height of 276" in.



MXS Series In Your Application

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

- Food & Beverage
- Manufacturing
- General Warehousing
- Refrigerated Warehousing
- Fish Processing
- Machinery & Heavy Equipment
- Chemicals, Textile and Rubber

Performance: YOUR APPLICATION DESERVES BOTH POWER AND EFFICIENCY.

Responsive Drive System

Responsive Drive System (RDS) adapts performance rapidly in reaction to speed of pedal operation, and helps ensure that travel movements, starts and stops are smooth.



High Efficiency Motors

High-efficiency motors offers a high RPM range for precise control when accelerating creating more torque at low speeds and reducing energy consumption. Intelligent curve control senses the angle of a turn and responds – automatically reducing speed early in the maneuver – helping to ensure stability and accurate, positive cornering.

Benefits of Moving to Lithium-Ion Technology

- Fast charging throughout the course of the shift during breaks allows the truck to stay charged when customers need it.
- Li-Ion Batteries are smart power solutions designed to communicate directly with the truck, resulting in increased efficiency and output.
- The Li-Ion solution is completely maintenance free, which can help reduce the overall cost of ownership and the downtime associated with maintaining and caring for traditional lead acid batteries.
- Battery life expectancy of up to 3,000 full cycles (vs. 900 to 1,200 cycles in lead-acid batteries)
- No gas is produced during charging and no acid is contained in the battery as compared with conventional lead-acid batteries.

Optimized Steering System

The optimized steering system provides consistently smooth operations and maximum control regardless the speed or work intensity. Timesaving 360-degree steering option on 3-wheel models means the operator keeps the truck in constant motion – saving seconds on every turn. >100-degree steering axle with dual-drive motors on 4-wheel models offers smooth 'on the spot' turning, with no initial 'push'. Advanced curve control coordinates the two front-wheel drive motors and rear steer axle motor to optimize turning speed during cornering which helps stabilize the truck during turns.

Sensitive Drive System

Sensitive Drive System (SDS) smooths start and stop movements, increases agility and adapts to the speed of operators' foot movements.



Pre-set and Programming Options

Performance and efficiency can be optimized for each application through full programming, or by simply selecting one of the pre-set operating modes. Profits are maximized by achieving the right balance between output and total cost of ownership.

Compensates for Load Weight

A load-sensing hydraulic system automatically adjusts for weight, to maintain precise control. (In forklifts without intelligent hydraulics, lifting and lowering feels very different when the weight of the load is varied). In addition, there is electronic compensation for load weight when using different hydraulic functions simultaneously (via optional fingertip controls), so all mast movements remain consistent.

Passive Sway Control

During lifts, a passive sway control function, specified as standard, takes effect. This works by keeping the automatic parking brake open so mast sway energy is absorbed by the mass of the whole truck. Reduction of sway and twisting, as well as noise, is enhanced through strong mast design and a low-friction side-shift. As an option for lifts between about 78in/2m and 138in/3.5m meters (and standard for 138in/3.5m upward), hydraulic performance can be automatically adjusted for added operator comfort. A similar automatic system limits truck acceleration when lifting at these heights.



Reliability:

YOUR FORKLIFT NEEDS TO BE READY WHEN YOU NEED IT. UPTIME IS NOT OPTIONAL.

Lower Maintenance Costs

The electromagnetic parking brake standard does not require hand levers to release the brakes, helping to reduce maintenance costs and total cost of ownership.

Built to Last

As well as saving money daily with their low energy consumption, our lift trucks are able to reduce the total cost of ownership through features such as:

- Sealing of components against water and other contaminants
- Use of highly durable materials and designs
- 1,000-hour PM intervals

Electromagnetic Brakes

Fully electronic magnetic brakes require less servicing and offer greater energy efficiency. The electromagnetic parking brake standard does not require hand levers to release the brakes, helping to reduce maintenance costs and total cost of ownership.

Simplified Battery Maintenance & Replacement

Fast-access battery compartment offers easy opening for maximum ventilation during charging and quick battery checks and maintenance. Fast battery compartment access speeds up servicing and exchanges.

Reduce Downtime with Self-Diagnostics

To maximize uptime and maintain the performance levels of these durable trucks, we build easy servicing into their design. Integrated on-board diagnostics provide immediate truck status. It's intuitive dialogue display combined with accessible service history reduce troubleshooting time, so the unit is back in operation faster. Everything is done through a smart LCD panel. No handset device is needed.



Comfort:

YOUR OPERATOR SHOULD BE AS PRODUCTIVE AT THE END OF THE SHIFT AS AT THE BEGINNING.

Control and Security

Sensitive Drive System (SDS) smooths start and stop movements, increases agility and adapts to the speed of operators' foot movements. Automatic parking brake with hill holds stops the truck automatically when the accelerator is not engaged and prevents rolling on ramps.

Convenience at Your Fingertips

Optional touch sensitive fingertip controls are spring-loaded for a natural feeling and is gentle to the touch. Ergonomic controls include an adjustable armrest when selecting the optional fingertip controls. Interesting advances include a synchronization system for the steering knob, which automatically returns it to the correct 8 o'clock position whenever the truck straightens up – even if the wheel has been forced beyond its end stop.



Superior Visibility

Thanks to its optimized mast, steering wheel, dashboard and counterweight design, the MXS series maximizes visibility to load, forks, front and rear wheels for safe, confident operation in tight spaces. Clear informative full-color display is easy to read from any angle (even in direct sunlight). It's ideally positioned for operator reference and doesn't reduce the truck's all-round visibility. From there, the inclined and narrow dashboard design allows clear forward, downward and side views without having to lean.



Improved Control and Productivity

Designed and engineered to perform, these 48-volt three- and four-wheel electrics work intuitively, tailoring their performance to your individual operator. Their sophisticated software analyzes behavior in real-time and automatically adjusts the truck's behavior for safe but productive performance. Driving and load handling is easier, steadier and more comfortable. Drivers feel the machine is totally in tune with them, so they are happy, confident and highly productive.

Ideal Operating Space

Large, ultra-comfortable operating space has been enhanced to meet the needs of drivers of different shapes and sizes for fatigue-free operation. Spacious footwell provides additional comfort to operators of different sizes to enjoy a natural, ergonomic, foot position. Optimized pedal positioning encourages a more natural foot position for drivers of all sizes – short and tall included – to keep fatigue at bay. Quickly step and swing into and out of the spacious operator compartment.

Safety:

YOUR STAND-UP COUNTERBALANCE SHOULD PROTECT ITS OPERATOR, ITS LOAD AND ITSELF.



Clearly Better

Excellent visibility thanks to optimized mast, steering wheel, inclined and narrow dashboard and counterweight design, maximizes visibility to load, forks, front and rear wheels for safe, confident operation in tight spaces.

Stop. Stay.

Presence Detection System+ includes automatic parking brake, hill hold and – if operator is not properly seated – prevention of travel and hydraulic movement. Automatic parking brake with hill holds stops the truck automatically when the accelerator is not engaged and prevents rolling on ramps.

Passive Sway Control

Passive Sway Control dampens any elevated load motion above 138in/3.5m, by compensating with micro-chassis movements. Load-sensing hydraulic system automatically adjusts to the weight being handled, to maintain precise control. Intelligent curve control senses the angle of a turn and responds – automatically reducing speed early in the maneuver – helping to ensure stability and accurate, positive cornering.



Customizations For Your Unique Applications

We offer a complete menu of additional options that allow you to customize your forklift to fit your specific workplace environment, operations and business objectives. This is only a small portion of what we offer, so if you don't see what you're looking for here, call your authorized dealer for more options.



Smart and Durable

It's one of the most intelligent and durable trucks on the market today. Packed with features, it delivers the maneuverability, power and reliability you expect from UniCarriers. Modular design simplifies addition or replacement of parts, including overhead guard and cabin options.

Protection From Falling Debris

Among many optional features available to match the truck with your application is a high visibility overhead guard. While its rear is reinforced with steel, the fully transparent front area has a robust polycarbonate structure with a glass layer to prevent scratches and discoloration.



Adjust for Your Needs

Pre-set ECO and PRO modes can be selected for different drivers and tasks, or customized settings can be applied by service engineers.

Here to Serve You

To help you choose the right model and configuration, and maintain its productivity, we have a dedicated network of dealers. With their specialist knowledge, wide experience and excellent service they will support you in every way to help maximize your profits.



MAIN TRUCK SPECIFICATIONS - 3 WHEEL

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers	UniCarriers		
	2	Model	Model designation	MXST14-2	MXST16C-2	MXST18C-2		
	3	Rated Load Capacity		lb (kg)	2700 (1250)	3000 (1425)	3500 (1600)	
	4	Load Center	Distance	in (mm)	23.6 (600)	23.6 (600)	23.6 (600)	
	5	Power Type	Electric	voltage	Electric/48V	Electric/48V	Electric/48V	
	6	Operator Orientation			Seated	Seated	Seated	
DIMENSIONS	7	Tire Type	Front & rear		Solid Pneu.SE	Solid Pneu.SE	Solid Pneu.SE	
	8	Wheels	Number - front/rear (x=driven)		2x/1	2x/1	2x/1	
	9	Mast	Maximum fork height	in (mm)	129.5 (3290)	129.5 (3290)	129.5 (3290)	
	10		Mast lowered (OHL)	in (mm)	83.7 (2125)	83.7 (2125)	83.7 (2125)	
	11		Mast extended with LBR	in (mm)	170.7 (4335)	170.7 (4335)	170.7 (4335)	
	12		Standard freelif	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)	
	13	Forks	Thickness & width & Length	in (mm)	1.4x3.9x5.9 (35x100x1150)	1.4x3.9x5.9 (35x100x1150)	1.4x3.9x5.9 (35x100x1150)	
	14	Tilt Angle	Standard mast - fwd/back	degree	5/7.5	5/7.5	5/7.5	
	15	Overall Dimensions	Length (to face of forks)	in (mm)	72.7 (1846)	72.7 (1846)	72.7 (1846)	
	16		Width (standard tires)	in (mm)	42.9 (1090)	42.9 (1090)	42.9 (1090)	
	17		Height - top of OHG	in (mm)	80.7 (2050)	80.7 (2050)	80.7 (2050)	
	18		Height - top of standard LBR	in (mm)	48.0 (1220)	48.0 (1220)	48.0 (1220)	
	19		Width - standard carriage	in (mm)	36.2 (920)	36.2 (920)	36.2 (920)	
	20	Grade Clearance	Ramp breakover angle (with/without load)	%	3.7 (95)	3.7 (95)	3.7 (95)	
	21	Overhang	Front	in (mm)	13.5 (343)	13.5 (343)	13.5 (343)	
	22	Turning Radius	Minimum outside	in (mm)	59.1 (1502)	59.1 (1502)	59.1 (1502)	
	23	Min Right Angle Stack	1000 x 1200 mm pallets, crosswise / 800 x 1200 mm pallets, lengthwise	in (mm)	124.9 (3173) / 129.8 (3296)	124.9 (3173) / 129.8 (3296)	124.9 (3173) / 129.8 (3296)	
	PERFORMANCE	24	Speed Maximum	Travel - loaded / unloaded	mph (km/h)	10.6 (16)	10.6 (16)	10.6 (16)
		25		Lift - loaded / unloaded	fpm (mm/sec)	0.55/0.62	0.52/0.62	0.46/0.62
26		Lowering - loaded / unloaded		fpm (mm/sec)	0.56/0.56	0.56/0.56	0.56/0.56	
27	Drawbar Pull Maximum	Full load	lb (N)	3372 (15000)	3350 (14900)	3350 (14900)		
28	Gradeability Maximum	Full load (with/without load)	%	27/35	27/35	26/35		
WEIGHT	29	Truck Weight	Empty, min. battery	lb (kg)	6150.9 (2790)	6538.9 (2966)	6957.8 (3156)	
	30	Weight Distribution	Full load front/rear - min. battery	lb (kg)	8130.6 (3688) / 1106.7 (502)	8851.6 (4015) / 1214.8 (551)	9592.3 (4351) / 1333.8 (605)	
	31		No load front/rear - min. battery	lb (kg)	3073.2 (1394) / 3077.7 (1396)	3071.0 (1393) / 3467.9 (1573)	3095.2 (1401) / 3866.9 (1754)	
CHASSIS & WHEELS	32	Tire Size	Front	in	18x7-8	18x7-8	18x7-8	
	33		Rear	in	140/55-9	140/55-9	140/55-9	
	34	Wheelbase		in (mm)	52.0 (1320)	52.0 (1320)	52.0 (1320)	
	35	Tread - Center of Tire	Front / rear (standard tires)	in (mm)	36.6/6.9 (930/174)	36.6/6.9 (930/174)	36.6/6.9 (930/174)	
	36	Headroom	SIP to bottom pf OHG	in (mm)	35.7 (908)	35.7 (908)	35.7 (908)	
	37	Counterweight Height		in (mm)	38.04 (966.36)	38.04 (966.36)	38.04 (966.36)	
	38	Step Height		in (mm)	16.0 (407)	16.0 (407)	16.0 (407)	
	39	Ground Clearance	Under mast	in (mm)	3.7 (95)	3.7 (95)	3.7 (95)	
	40		Under frame, center of wheelbase	in (mm)	3.7 (95)	3.7 (95)	3.7 (95)	
	41	Service Brake	Type			Electric	Electric	Electric
	42	Parking Brake	Type			Magnetic	Magnetic	Magnetic
43	Steering	On-demand			Electric	Electric	Electric	
DIN 320A 48V LINE	44	Traction Motor	Type / Rating (1-hour)	(kW)	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW	
	45		Control type			AC	AC	AC
46	Pump Motor	Type / Rating (5-minute)	(kW)		AC / 10 kW	AC / 10 kW	AC / 10 kW	
BATTERY	47	Battery Compartment Size	W x H - Maximum	in (mm)	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	
	48		L - Maximum	in (mm)	20.9 (532)	20.9 (532)	20.9 (532)	
	49	Recommended Battery Size	W x H - Maximum	in (mm)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	
	50		L - Maximum	in (mm)	20.6 (522)	20.6 (522)	20.6 (522)	
	51		Lead acid	Type		Lead acid	Lead acid	Lead acid
	52	Capacity	Minimum / Maximum	Ah/5h		500-625	500-625	500-625
	53	Weight	Minimum / Maximum	lb (kg)		1496.9/2204.6 (679/1000)	1496.9/2204.6 (679/1000)	1496.9/2204.6 (679/1000)
	54	Lead Length	Position A	in (mm)		39.4 (1000)	39.4 (1000)	39.4 (1000)
	55	Connector	Type			DIN 320A 48V	DIN 320A 48V	DIN 320A 48V

MAIN TRUCK SPECIFICATIONS - 3 WHEEL

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers	UniCarriers		
	2	Model	Model designation	MXST16-2	MXST18-2	MXST20-2		
	3	Rated Load Capacity		lb (kg)	3000 (1425)	3500 (1600)	4000 (1800)	
	4	Load Center	Distance	in (mm)	23.6 (600)	23.6 (600)	23.6 (600)	
	5	Power Type	Electric	voltage	Electric/48V	Electric/48V	Electric/48V	
	6	Operator Orientation			Seated	Seated	Seated	
DIMENSIONS	7	Tire Type	Front & rear		Solid Pneu.SE	Solid Pneu.SE	Solid Pneu.SE	
	8	Wheels	Number - front/rear (x=driven)		2x/1	2x/1	2x/1	
	9	Mast	Maximum fork height	in (mm)	129.5 (3290)	129.5 (3290)	129.5 (3290)	
	10		Mast lowered (OHL)	in (mm)	83.7 (2125)	83.7 (2125)	83.7 (2125)	
	11		Mast extended with LBR	in (mm)	107.7 (4335)	170.7 (4335)	170.7 (4335)	
	12		Standard freelif	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)	
	13	Forks	Thickness & width & Length	in (mm)	1.4x3.9x5.9 (35x100x1150)	1.4x3.9x5.9 (35x100x1150)	1.4x3.9x5.9 (35x100x1150)	
	14	Tilt Angle	Standard mast - fwd/back	degree	5/7.5	5/7.5	5/7.5	
	15	Overall Dimensions	Length (to face of forks)	in (mm)	76.9 (1954)	76.9 (1954)	77.5 (1969)	
	16		Width (standard tires)	in (mm)	42.9 (1090)	42.9 (1090)	44.9 (1140)	
	17		Height - top of OHG	in (mm)	80.7 (2050)	80.7 (2050)	80.7 (2050)	
	18		Height - top of standard LBR	in (mm)	48.0 (1220)	48.0 (1220)	48.0 (1220)	
	19		Width - standard carriage	in (mm)	36.2 (920)	36.2 (920)	36.2 (920)	
	20	Grade Clearance	Ramp breakover angle (with/without load)	%	3.7 (95)	3.7 (95)	3.7 (95)	
	21	Overhang	Front	in (mm)	13.5 (343)	13.5 (343)	13.5 (343)	
	22	Turning Radius	Minimum outside	in (mm)	63.4 (1610)	63.4 (1610)	63.4 (1610)	
	23	Min Right Angle Stack	1000 x 1200 mm pallets, crosswise / 800 x 1200 mm pallets, lengthwise	in (mm)	129.1 (3281) / 134.0 (3404)	129.1 (3281) / 134.0 (3404)	129.7 (3295) / 134.6 (3419)	
	PERFORMANCE	24	Speed Maximum	Travel - loaded / unloaded	mph (km/h)	10.6 (16)	10.6 (16)	10.6 (16)
		25		Lift - loaded / unloaded	fpm (mm/sec)	0.52/0.62	0.46/0.62	0.42/0.62
26		Lowering - loaded / unloaded		fpm (mm/sec)	0.56/0.56	0.56/0.56	0.56/0.56	
27	Drawbar Pull Maximum	Full load	lb (N)	3350 (14900)	3350 (14900)	3327 (14800)		
28	Gradeability Maximum	Full load (with/without load)	%	27/35	26/35	24/35		
WEIGHT	29	Truck Weight	Empty, min. battery	lb (kg)	6501.4 (2949)	6876.2 (3119)	7367.8 (3342)	
	30	Weight Distribution	Full load front/rear - min. battery	lb (kg)	8862.6 (4020) / 1166.3 (529)	9552.6 (4333) / 1291.9 (586)	10518.3 (4711) / 1391.1 (631)	
	31		No load front/rear - min. battery	lb (kg)	3254.0 (1476) / 3249.6 (1474)	3243.0 (1471) / 3635.4 (1649)	3326.7 (1509) / 4041.1 (1833)	
CHASSIS & WHEELS	32	Tire Size	Front	in	18x7-8	18x7-8	200/50-10	
	33		Rear	in	140/55-9	140/55-9	140/55-9	
	34	Wheelbase		in (mm)	56.2 (1428)	56.2 (1428)	56.2 (1428)	
	35	Tread - Center of Tire	Front / rear (standard tires)	in (mm)	36.6/6.9 (930/174)	36.6/6.9 (930/174)	36.6/6.9 (930/174)	
	36	Headroom	SIP to bottom pf OHG	in (mm)	35.7 (908)	35.7 (908)	35.7 (908)	
	37	Counterweight Height		in (mm)	38.04 (966.36)	38.04 (966.36)	38.04 (966.36)	
	38	Step Height		in (mm)	16.0 (407)	16.0 (407)	16.0 (407)	
	39	Ground Clearance	Under mast	in (mm)	3.7 (95)	3.7 (95)	3.7 (95)	
	40		Under frame, center of wheelbase	in (mm)	3.7 (95)	3.7 (95)	3.7 (95)	
	41	Service Brake	Type			Electric	Electric	Electric
	42	Parking Brake	Type			Magnetic	Magnetic	Magnetic
43	Steering	On-demand			Electric	Electric	Electric	
DIN 320A 48V LINE	44	Traction Motor	Type / Rating (1-hour)	(kW)	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW	
	45		Control type			AC	AC	AC
46	Pump Motor	Type / Rating (5-minute)	(kW)		AC / 10 kW	AC / 10 kW	AC / 10 kW	
BATTERY	47	Battery Compartment Size	W x H - Maximum	in (mm)	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	
	48		L - Maximum	in (mm)	25.2 (640)	25.2 (640)	25.2 (640)	
	49	Recommended Battery Size	W x H - Maximum	in (mm)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	
	50		L - Maximum	in (mm)	24.8 (630)	24.8 (630)	24.8 (630)	
	51		Lead acid	Type		Lead acid	Lead acid	Lead acid
	52	Capacity	Minimum / Maximum	Ah/5h		625-750	625-750	625-750
	53	Weight	Minimum / Maximum	lb (kg)		1790.1/2557.4 (812/1160)	1790.1/2557.4 (812/1160)	1790.1/2557.4 (812/1160)
	54	Lead Length	Position A	in (mm)		39.4 (1000)	39.4 (1000)	39.4 (1000)
	55	Connector	Type			DIN 320A 48V	DIN 320A 48V	DIN 320A 48V

MAIN TRUCK SPECIFICATIONS - 4 WHEEL

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers	UniCarriers		
	2	Model	Model designation	MXS16C-2	MXS18C-2	MXS16-2		
	3	Rated Load Capacity	lb (kg)	3000 (1425)	3500 (1600)	3000 (1425)		
	4	Load Center	Distance	in (mm)	23.6 (600)	23.6 (600)		
	5	Power Type	Electric	voltage	Electric/48V	Electric/48V		
	6	Operator Orientation			Seated	Seated	Seated	
DIMENSIONS	7	Tire Type	Front & rear	Solid Pneu. SE	Solid Pneu. SE	Solid Pneu. SE		
	8	Wheels	Number - front/rear (x=driven)	2x/2	2x/2	2x/2		
	9	Mast	Maximum fork height	in (mm)	129.5 (3290)	129.5 (3290)	129.5 (3290)	
	10		Mast lowered (OHL)	in (mm)	83.7 (2125)	83.7 (2125)	83.7 (2125)	
	11		Mast extended with LBR	in (mm)	170.7 (4335)	170.7 (4335)	170.7 (4335)	
	12		Standard freelif	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)	
	13	Forks	Thickness & width & Length	in (mm)	1.4x3.9x45.3 (35x100x1150)	1.4x3.9x45.3 (35x100x1150)	1.4x3.9x45.3 (35x100x1150)	
	14	Tilt Angle	Standard mast - fwd/back	degree	5/7.5	5/7.5	5/7.5	
	15	Overall Dimensions	Length (to face of forks)	in (mm)	78.8 (2002)	78.8 (2002)	83.1 (2110)	
	16		Width (standard tires)	in (mm)	42.9 (1090)	42.9 (1090)	42.9 (1090)	
	17		Height - top of OHG	in (mm)	80.7 (2050)	80.7 (2050)	80.7 (2050)	
	18		Height - top of standard LBR	in (mm)	48.0 (1220)	48.0 (1220)	48.0 (1220)	
	19		Width - standard carriage	in (mm)	36.2 (920)	36.2 (920)	36.2 (920)	
	20	Grade Clearance	Ramp breakover angle (with/without load)	%	3.7 (95)	3.7 (95)	3.7 (95)	
	21	Overhang	Front	in (mm)	13.5 (343)	13.5 (343)	13.5 (343)	
	22	Turning Radius	Minimum outside	in (mm)	65.4 (1662)	65.4 (1662)	69.7 (1770)	
	23	Min Right Angle Stack	1000 x 1200 mm pallets, crosswise / 800 x 1200 mm pallets, lengthwise	in (mm)	131.2 (3333) / 136.0 (3456)	131.2 (3333) / 136.0 (3456)	135.5 (3441) / 140.3 (3564)	
	PERFORMANCE	24	Speed Maximum	Travel - loaded / unloaded	mph (km/h)	11 (16)	11 (16)	11 (16)
		25	Speed Maximum	Lift - loaded / unloaded	fpm (mm/sec)	108/122 (.55/.62)	102/122 (.52/.62)	90/122 (.46/.62)
		26		Lowering - loaded / unloaded	fpm (mm/sec)	110 (.56/.56)	110 (.56/.56)	110 (.56/.56)
27		Drawbar Pull Maximum		Full load	lb (N)	3350 (14900)	3350 (14900)	3372 (15000)
28	Gradeability Maximum	Full load (with/without load)	%	27/35	26/35	27/35		
WEIGHT	29	Truck Weight	Empty, min. battery	lb (kg)	6490.4 (2944)	6865.2 (3114)	6519.1 (2957)	
	30	Weight Distribution	Full load front/rear - min. battery	lb (kg)	8796.4 (3990) / 1221.4 (554)	9504.1 (4311) / 1329.4 (603)	8836.1 (4008) / 1212.5 (550)	
	31		No load front/rear - min. battery	lb (kg)	3135.0 (1422) / 3355.4 (1522)	3135.0 (1422) / 3730.2 (1692)	3329.0 (1510) / 3192.3 (1448)	
CHASSIS & WHEELS	32	Tire Size	Front	in	18x7-8	18x7-8	18x7-8	
	33		Rear	in	16x6-8	16x6-8	16x6-8	
	34	Wheelbase	in (mm)	54.9 (1394)	54.9 (1394)	59.1 (1502)		
	35	Tread - Center of Tire	Front / rear (standard tires)	in (mm)	36.6/35.4 (930/898)	36.6/35.4 (930/898)	36.6/35.4 (930/898)	
	36	Headroom	SIP to bottom pf OHG	in (mm)	35.7 (908)	35.7 (908)	35.7 (908)	
	37	Counterweight Height	in (mm)	38.04 (966.36)	38.04 (966.36)	38.04 (966.36)		
	38	Step Height	in (mm)	16.0 (407)	16.0 (407)	16.0 (407)		
	39	Ground Clearance	Under mast	in (mm)	3.7 (95)	3.7 (95)	3.7 (95)	
	40		Under frame, center of wheelbase	in (mm)	3.7 (95)	3.7 (95)	3.7 (95)	
	41	Service Brake	Type	Electric	Electric	Electric		
	42	Parking Brake	Type	Magnetic	Magnetic	Magnetic		
	43	Steering	On-demand	Electric	Electric	Electric		
	DIN 320A 48V LINE	44	Traction Motor	Type / Rating (1-hour)	(kW)	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW
45		Control type			AC	AC	AC	
46		Pump Motor	Type / Rating (5-minute)	(kW)	AC / 10 kW	AC / 10 kW	AC / 10 kW	
BATTERY	47	Battery Compartment Size	W x H - Maximum	in (mm)	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	
	48		L - Maximum	in (mm)	20.9 (532)	20.9 (532)	25.2 (640)	
	49	Recommended Battery Size	W x H - Maximum	in (mm)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	
	50		L - Maximum	in (mm)	20.6 (522)	20.6 (522)	24.8 (630)	
	51		Lead acid	Type	Lead acid	Lead acid	Lead acid	
	52	Capacity	Minimum / Maximum	Ah/5h	500-625	500-625	625-750	
	53	Weight	Minimum / Maximum	lb (kg)	1496.9/2204.6 (679/1000)	1496.9/2204.6 (679/1000)	1496.9/2557.4 (812/1160)	
	54	Lead Length	Position A	in (mm)	39.4 (1000)	39.4 (1000)	39.4 (1000)	

MAIN TRUCK SPECIFICATIONS - 4 WHEEL

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers		
	2	Model	Model designation	MXS18-2	MXS20-2		
	3	Rated Load Capacity	lb (kg)	3500 (1600)	4000 (1800)		
	4	Load Center	Distance	in (mm)	23.6 (600)		
	5	Power Type	Electric	voltage	Electric/48V		
	6	Operator Orientation			Seated	Seated	
DIMENSIONS	7	Tire Type	Front & rear	Solid Pneu. SE	Solid Pneu. SE		
	8	Wheels	Number - front/rear (x=driven)	2x/2	2x/2		
	9	Mast	Maximum fork height	in (mm)	129.5 (3290)	129.5 (3290)	
	10		Mast lowered (OHL)	in (mm)	83.7 (2125)	83.7 (2125)	
	11		Mast extended with LBR	in (mm)	170.7 (4335)	170.7 (4335)	
	12		Standard freelif	in (mm)	3.1 (80)	3.1 (80)	
	13	Forks	Thickness & width & Length	in (mm)	1.4x3.9x45.3 (35x100x1150)	1.4x3.9x45.3 (35x100x1150)	
	14	Tilt Angle	Standard mast - fwd/back	degree	5/7.5	5/7.5	
	15	Overall Dimensions	Length (to face of forks)	in (mm)	83.1 (2110)	83.1 (2110)	
	16		Width (standard tires)	in (mm)	42.9 (1090)	44.9 (1140)	
	17		Height - top of OHG	in (mm)	80.7 (2050)	80.7 (2050)	
	18		Height - top of standard LBR	in (mm)	48.0 (1220)	48.0 (1220)	
	19		Width - standard carriage	in (mm)	36.2 (920)	36.2 (920)	
	20	Grade Clearance	Ramp breakover angle (with/without load)	%	4 (95)	4 (95)	
	21	Overhang	Front	in (mm)	13.5 (343)	13.5 (343)	
	22	Turning Radius	Minimum outside	in (mm)	69.7 (1770)	69.7 (1770)	
	23	Min Right Angle Stack	1000 x 1200 mm pallets, crosswise / 800 x 1200 mm pallets, lengthwise	in (mm)	135.5 (3441) / 140.3 (3564)	136.0 (3455) / 140.9 (3579)	
	PERFORMANCE	24	Speed Maximum	Travel - loaded / unloaded	mph (km/h)	11 (16)	11 (16)
		25	Speed Maximum	Lift - loaded / unloaded	fpm (mm/sec)	102/122 (.52/.62)	83/122 (.42/.62)
		26		Lowering - loaded / unloaded	fpm (mm/sec)	110 (.56/.56)	110 (.56/.56)
27		Drawbar Pull Maximum		Full load	lb (N)	3350 (14900)	3327 (14800)
28	Gradeability Maximum	Full load (with/without load)	%	26/35	24/35		
WEIGHT	29	Truck Weight	Empty, min. battery	lb (kg)	6827.7 (3097)	7246.6 (3287)	
	30	Weight Distribution	Full load front/rear - min. battery	lb (kg)	9468.9 (4295) / 1329.4 (603)	10291.2 (4668) / 1366.9 (620)	
	31		No load front/rear - min. battery	lb (kg)	3271.7 (1484) / 3556.1 (1613)	3362.0 (1525) / 3884.6 (1762)	
CHASSIS & WHEELS	32	Tire Size	Front	in	18x7-8	200/50-10	
	33		Rear	in	16x6-8	16x6-8	
	34	Wheelbase	in (mm)	59.1 (1502)	59.1 (1502)		
	35	Tread - Center of Tire	Front / rear (standard tires)	in (mm)	36.6/35.4 (930/898)	36.6/35.4 (930/898)	
	36	Headroom	SIP to bottom pf OHG	in (mm)	35.7 (908)	35.7 (908)	
	37	Counterweight Height	in (mm)	38.04 (966.36)	38.04 (966.36)		
	38	Step Height	in (mm)	16.0 (407)	16.0 (407)		
	39	Ground Clearance	Under mast	in (mm)	3.7 (95)	3.7 (95)	
	40		Under frame, center of wheelbase	in (mm)	3.7 (95)	3.7 (95)	
	41	Service Brake	Type	Electric	Electric		
	42	Parking Brake	Type	Magnetic	Magnetic		
	43	Steering	On-demand	Electric	Electric		
	DIN 320A 48V LINE	44	Traction Motor	Type / Rating (1-hour)	(kW)	AC / 2 x 5.5 kW	AC / 2 x 5.5 kW
45		Control type			AC	AC	
46		Pump Motor	Type / Rating (5-minute)	(kW)	AC / 10 kW	AC / 10 kW	
BATTERY	47	Battery Compartment Size	W x H - Maximum	in (mm)	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	W: 33.5 (850) with spacers W: 40.0 (1018) w/o spacers H: 26.0 (660) with battery rollers H: 27.2 (690) w/o battery rollers	
	48		L - Maximum	in (mm)	25.2 (640)	25.2 (640)	
	49	Recommended Battery Size	W x H - Maximum	in (mm)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	W: 32.7 (830) with spacers W: 39.6 (1006) w/o spacers H: 24.7 (627)	
	50		L - Maximum	in (mm)	24.8 (630)	24.8 (630)	
	51		Lead acid	Type	Lead acid	Lead acid	
	52	Capacity	Minimum / Maximum	Ah/5h	625-750	625-750	
	53	Weight	Minimum / Maximum	lb (kg)	1790.2/2557.4 (812/1160)	1790.2/2557.4 (812/1160)	
	54	Lead Length	Position A	in (mm)	39.4 (1000)	39.4 (1000)	

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