

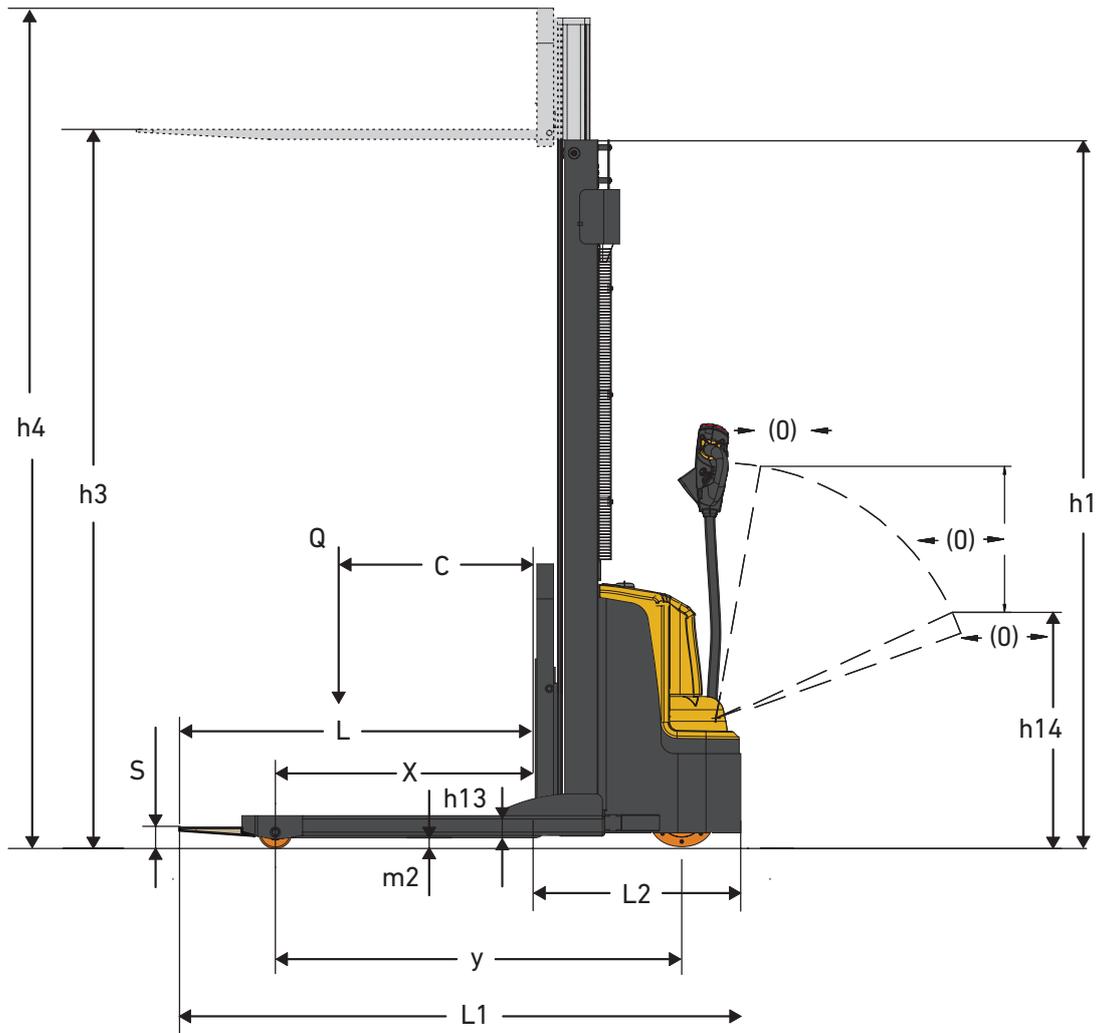


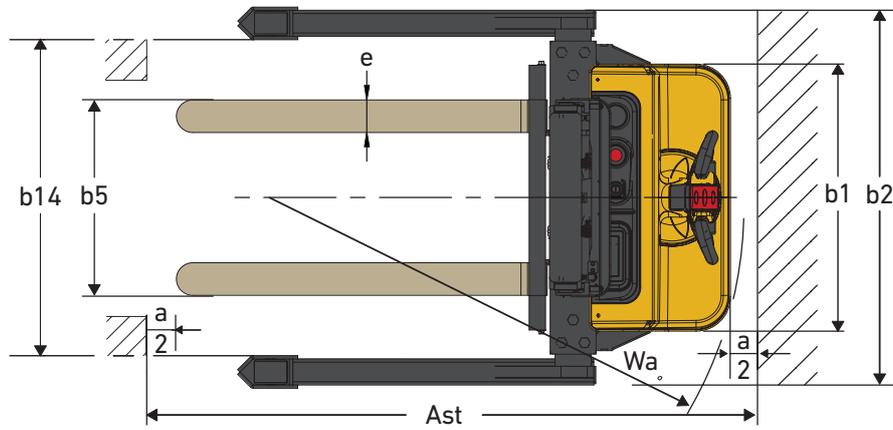
# MSC12-15 SL

SPEC SHEET

Pedestrian straddle leg stacker

1,200-1,500 kg





**VDI 2198 – GENERAL SPECIFICATIONS – MSC12 SL**

GENERAL	1-1	Manufacturer			Yale				
	1-2	Model designation			MSC12 SL				
	1-3	Drive: electric (battery or mains), diesel, gasoline, LPG	—	—	Electric (battery)				
	1-4	Operator type: hand, pedestrian, standing, seated, order-picker	—	—	Pedestrian				
	1-5	Load capacity/rated load	Q	kg	1200				
	1-6	Load centre distance	c	mm	600				
	1-7	Load distance, centre of drive axle to fork	x	mm	715				
	1-8	Wheelbase	y	mm	1218				
WEIGHT	2-1	Service weight (without battery)	—	kg	580	603	633	665	701
	2-2	Service weight (with 60Ah lithium-ion battery)	—	kg	597	620	650	682	718
	2-3	Service weight (with 100Ah lithium-ion battery)	—	kg	604	627	657	689	725
	2-4	Service weight (with battery 71Ah)	—	kg	626.4	649.4	679.4	711.4	747.4
	2-5	Service weight (with battery 89Ah)	—	kg	631.6	654.6	684.6	716.6	752.6
	2-6	Axle loading, laden front/rear (2.5m lifting height)	—	kg	546 / 1274				
	2-7	Axle loading, unladen front/rear (2.5m lifting height)	—	kg	465 / 155				
TYRES	3-1	Wheels	—	—	Polyurethane				
	3-2	Wheel size, front	∅ × width	mm	φ210 × 70				
	3-3	Wheel size, rear	∅ × width	mm	φ100 × 49				
	3-4	Wheels, number front/rear (x = driven wheels)	—	—	1x + 0 / 2 or 1x + 2 / 4 (with balance wheel)				
	3-5	Tread, front	b <sub>10</sub>	mm	665.5 (Equipped with balance wheel)				
	3-6	Tread, rear	b <sub>10</sub>	mm	41.73" (1060) / 47.24" (1200) / 52.76" (1340)				
DIMENSIONS	4-1	Lowered mast height	h <sub>1</sub>	mm	1520	1770	2020	2170	2270
	4-2	Lift height	h <sub>3</sub>	mm	2000	2500	3000	3300	3500
	4-3	Extended mast height	h <sub>4</sub>	mm	2520	3020	3520	3820	4020
	4-4	Height of tiller in driving position, min./max.	h <sub>13</sub>	mm	910 / 1290				
	4-5	Height, lowered	h <sub>14</sub>	mm	80				
	4-6	Overall length	l <sub>1</sub>	mm	1698 (Standard 1070mm fork length)				
	4-7	Length to face of forks	l <sub>2</sub>	mm	628				
	4-8	Overall width across chassis	b <sub>1</sub>	mm	820				
	4-9	Overall width across all/outer width straddle	b <sub>2</sub>	mm	1135 / 1275 / 1415				
	4-10	Inner width straddle	b <sub>14</sub>	mm	985 / 1125 / 1265				
	4-11	Fork dimensions	s/e/l	mm	40 × 100 × 1070 (1150 / 1220)				
	4-12	Width over forks	b <sub>5</sub>	mm	200–795 (Adjustable)				
	4-13	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	40				
	4-14	Aisle width for pallets 1000 × 1200 crossways	A <sub>st</sub>	mm	2290				
	4-15	Aisle width for pallets 800 × 1200 lengthways	A <sub>st</sub>	mm	2217				
	4-16	Turning radius	W <sub>a</sub>	mm	1455				
PERFORMANCE	5-1	Travel speed, with/without load	—	km/h	4 / 4.5				
	5-2	Lift speed laden/without load	—	mm/s	0–230				
	5-3	Lift speed laden/with load	—	mm/s	0–123				
	5-4	Lowering speed laden/without load	—	mm/s	26–278				
	5-5	Lowering speed laden/with load	—	mm/s	28–164				
	5-6	Max. gradeability, with/without load	—	%	5/10				
	5-7	Service brake	—		Electromagnetic				
ELECTRIC	6-1	Drive motor rating S2 60 min	—	kW	0.75				
	6-2	Lift motor rating at S3 15%	—	kW	2.5				
	6-3	Battery voltage/nominal capacity K5 (lithium-ion battery)	—	V/Ah	24V / 60Ah × 1 / 24V / 100Ah × 1				
	6-4	Battery voltage/nominal capacity K5 (lead-acid battery)	—	V/Ah	12V / 71Ah × 2 / 12V / 89Ah × 2				
	6-5	Battery weight +/- 5% (lithium-ion battery)	—	kg	14kg (60Ah) / 24kg (100Ah)				
	6-6	Battery weight +/- 5% (lead-acid battery)	—	kg	23.3 × 2 (71Ah) / 25.8 × 2 (89Ah)				
	6-7	Energy consumption according to EN 16796	—	kWh	0.42				
	7-1	Type of drive control	—		DC speed control				
	7-2	Sound level at the driver's ear according to EN 12053	—	dB (A)	<75				

Truck performance and dimensions are nominal and subject to tolerances.  
Yale products and specifications are subject to change without notice.

**VDI 2198 – GENERAL SPECIFICATIONS – MSC15 SL**

GENERAL	1-1	Manufacturer			Yale				
	1-2	Model designation			MSC15 SL				
	1-3	Drive: electric (battery or mains), diesel, gasoline, LPG	—	—	Electric (battery)				
	1-4	Operator type: hand, pedestrian, standing, seated, order-picker	—	—	Pedestrian				
	1-5	Load capacity/rated load	Q	kg	1500				
	1-6	Load centre distance	c	mm	600				
	1-7	Load distance, centre of drive axle to fork	x	mm	767.5				
	1-8	Wheelbase	y	mm	1218				
WEIGHT	2-1	Service weight (without battery)	—	kg	581.6	604.6	634.6	666.6	702.6
	2-2	Service weight (with 60Ah lithium-ion battery)	—	kg	598.6	621.6	651.6	683.6	719.6
	2-3	Service weight (with 100Ah lithium-ion battery)	—	kg	605.6	628.6	658.6	690.6	726.6
	2-4	Service weight (with battery 71Ah)	—	kg	628	651	681	713	749
	2-5	Service weight (with battery 89Ah)	—	kg	633.2	656.2	686.2	718.2	754.2
	2-6	Axle loading, laden front/rear (2.5m lifting height)	—	kg	636.6 / 1485				
	2-7	Axle loading, unladen front/rear (2.5m lifting height)	—	kg	466 / 155.6				
TYRES	3-1	Wheels	—	—	Polyurethane				
	3-2	Wheel size, front	∅ × width	mm	φ210 × 70				
	3-3	Wheel size, rear	∅ × width	mm	φ100 × 64				
	3-4	Wheels, number front/rear (x = driven wheels)	—	—	1x + 0 / 2 or 1x + 2 / 4 (with balance wheel)				
	3-5	Tread, front	b <sub>10</sub>	mm	665.5 (Equipped with balance wheel)				
	3-6	Tread, rear	b <sub>10</sub>	mm	41.73" (1060) / 47.24" (1200) / 52.76" (1340)				
DIMENSIONS	4-1	Lowered mast height	h <sub>1</sub>	mm	1520	1770	2020	2170	2270
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	4-3	Extended mast height	h <sub>4</sub>	mm	2520	3020	3520	3820	4020
	4-4	Height of tiller in driving position, min./max.	h <sub>13</sub>	mm	910 / 1290				
	4-5	Height, lowered	h <sub>14</sub>	mm	80				
	4-6	Overall length	l <sub>1</sub>	mm	1698 (Standard 1070mm fork length)				
	4-7	Length to face of forks	l <sub>2</sub>	mm	628				
	4-8	Overall width across chassis	b <sub>1</sub>	mm	820				
	4-9	Overall width across all/outer width straddle	b <sub>2</sub>	mm	1150 / 1290 / 1430				
	4-10	Inner width straddle	b <sub>14</sub>	mm	970 / 1110 / 1250				
	4-11	Fork dimensions	s/e/l	mm	40 × 100 × 1070 (1150 / 1220)				
	4-12	Width over forks	b <sub>5</sub>	mm	200–795 (Adjustable)				
	4-13	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	40				
	4-14	Aisle width for pallets 1000 × 1200 crossways	A <sub>st</sub>	mm	2290				
	4-15	Aisle width for pallets 800 × 1200 lengthways	A <sub>st</sub>	mm	2217				
	4-16	Turning radius	W <sub>a</sub>	mm	1455				
PERFORMANCE	5-1	Travel speed, with/without load	—	km/h	4 / 4.5				
	5-2	Lift speed laden/without load	—	mm/s	0–185				
	5-3	Lift speed laden/with load	—	mm/s	0–101				
	5-4	Lowering speed laden/without load	—	mm/s	21.7–208				
	5-5	Lowering speed laden/with load	—	mm/s	25.6–137				
	5-6	Max. gradeability, with/without load	—	%	5/10				
	5-7	Service brake	—		Electromagnetic				
ELECTRIC	6-1	Drive motor rating S2 60 min	—	kW	0.75				
	6-2	Lift motor rating at S3 15%	—	kW	2.5				
	6-3	Battery voltage/nominal capacity K5 (lithium-ion battery)	—	V/Ah	24V / 60Ah × 1 / 24V / 100Ah × 1				
	6-4	Battery voltage/nominal capacity K5 (lead-acid battery)	—	V/Ah	12V / 71Ah × 2 / 12V / 89Ah × 2				
	6-5	Battery weight +/- 5% (lithium-ion battery)	—	kg	14kg (60Ah) / 24kg (100Ah)				
	6-6	Battery weight +/- 5% (lead-acid battery)	—	kg	23.3 × 2 (71Ah) / 25.8 × 2 (89Ah)				
	6-7	Energy consumption according to EN 16796	—	kWh	0.42				
	7-1	Type of drive control	—		DC speed control				
	7-2	Sound level at the driver's ear according to EN 12053	—	dB (A)	<75				

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## FEATURES LIST

PERFORMANCE	STD	OPT	VISIBILITY	STD	OPT
24V system with brush motor	●		Metal wiremesh	●	
Mechanical steering	●		Lexan shield		●
Proportional speed on lifting/lowering	●		<b>ENERGY SYSTEM</b>	<b>STD</b>	<b>OPT</b>
Std environmental construction (0–45°C;)	●		24V/60Ah lithium battery (CE)	●	
<b>DRIVE</b>	<b>STD</b>	<b>OPT</b>	24V/100Ah lithium battery (CE)		●
φ100 × 64mm single polyurethane load wheel (REACH)	●		24V/71Ah maintenance free lead-acid battery (CE & UL)		●
φ210 × 75mm polyurethane (REACH) drive wheel	●		24V/89Ah maintenance free lead-acid battery (CE & UL)		●
φ75 × 30mm double balance wheel		●	On-board charger plug (European Std) type F	●	
<b>LIFT</b>	<b>STD</b>	<b>OPT</b>	On-board charger plug (China, India, Europe, South Africa, Switzerland Std) type C		●
2 stage no free lift – 1770mm/2500mm/3020mm	●		On-board charger plug (British Std) type G		●
2 stage no free lift – 2020mm/3000mm/3520mm		●	On-board charger plug (Israeli Std) type H		●
2 stage no free lift – 2270mm/3500mm/4020mm		●	On-board charger plug (Switzerland Std) type J		●
<b>HANDLING</b>	<b>STD</b>	<b>OPT</b>	On-board charger plug (Italian Std) type L		●
1070mm × 200–800mm forks	●		<b>SUPPLEMENTAL</b>	<b>STD</b>	<b>OPT</b>
1150mm × 200–800mm forks		●	12 months/no hour limit full truck warranty, 36 months/6,000 hours powertrain warranty, lifetime frame warranty; please see full warranty statement for additional details.	●	
H60 × W90mm straddle leg	●		Operating manual	●	
<b>OPERATION</b>	<b>STD</b>	<b>OPT</b>	Parts manual		●
Key switch	●				
MDI display – multi-function LCD screen display show working status, hourmeter, BDI, error code	●				
Two side proportional control knob	●				

# About Yale®



Yale Lift Truck Technologies is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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3PL

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Yale Lift Truck Technologies  
Centennial House, Frimley Business Park  
Frimley, Surrey  
GU16 7SG United Kingdom

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**Safety:** All Yale products sold into EU countries, UK, and Turkey conform to the EU requirements of Machinery Directive 2006/42/EC and contain CE marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain CE marking.

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**Notice:** Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual. Consult your Yale® Dealer if any of the information shown is critical to your application.

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