

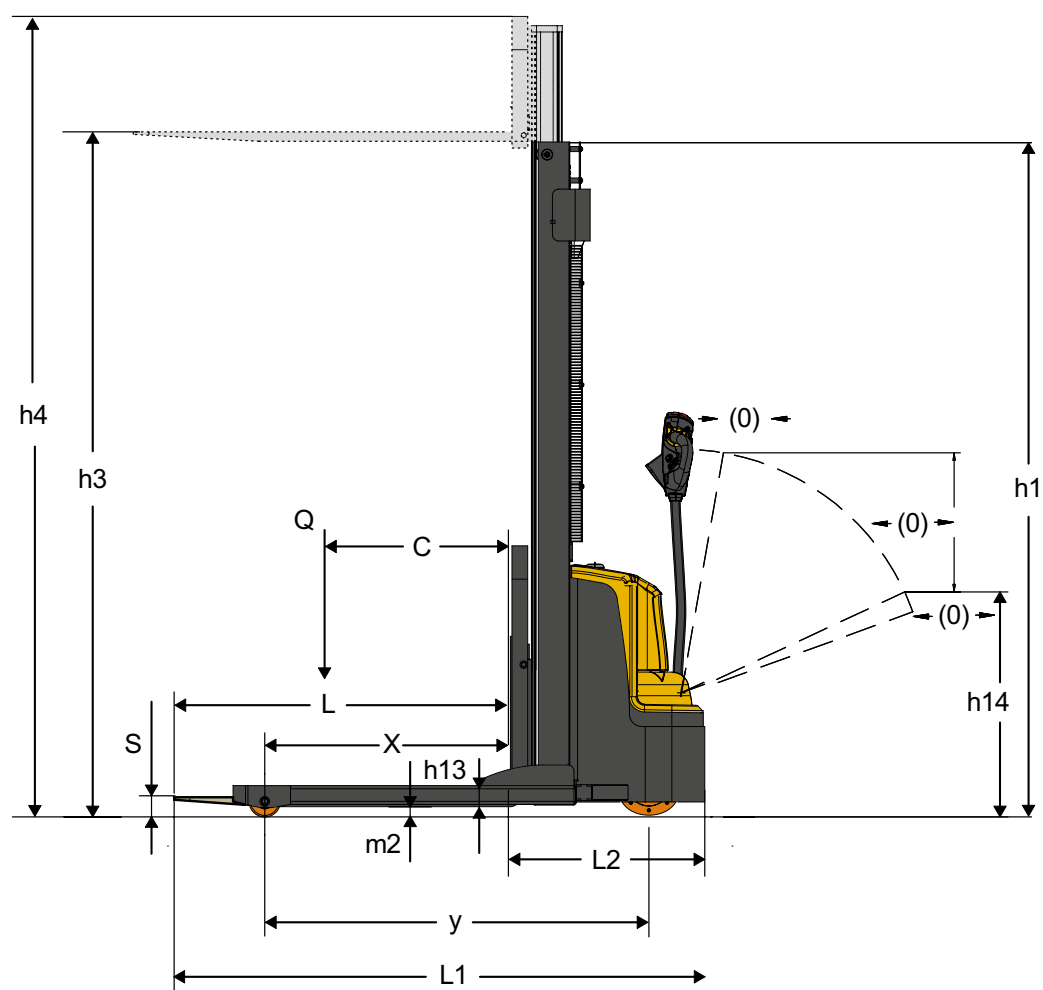


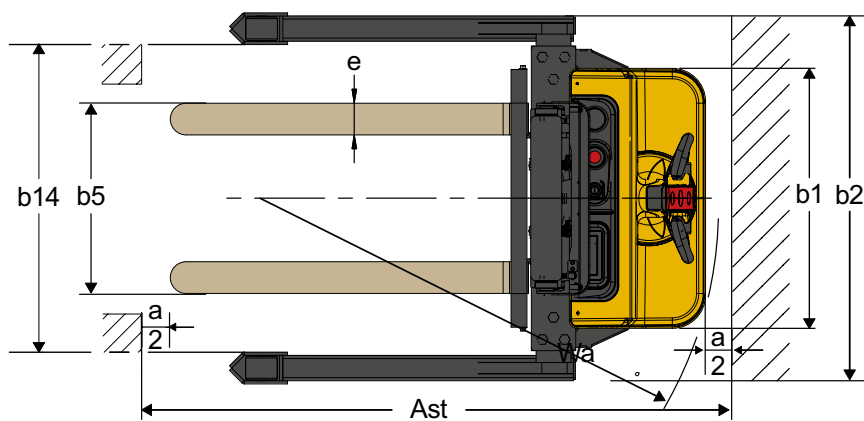
MSC12-15 SL

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	Axle loading, laden front/rear (2.5m lifting height)	—	kg	546 / 1274				
	2-5	Axle loading, unladen front/rear (2.5m lifting height)	—	kg	465 / 155				
TYRES	3-1	Wheels	—	—	Polyurethane				
	3-2	Wheel size, front	Ø × width	mm	φ210 × 70				
	3-3	Wheel size, rear	Ø × 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 ₁₀	mm	665.5 (Equipped with balance wheel)				
	3-6	Tread, rear	b ₁₀	mm	41.73" (1060) / 47.24" (1200) / 52.76" (1340)				
DIMENSIONS	4-1	Lowered mast height	h ₁	mm	1520	1770	2020	2170	2270
	4-2	Lift height	h ₃	mm	2000	2500	3000	3300	3500
	4-3	Extended mast height	h ₄	mm	2520	3020	3520	3820	4020
	4-4	Height of tiller in driving position, min./max.	h ₁₃	mm	910 / 1290				
	4-5	Height, lowered	h ₁₄	mm	80				
	4-6	Overall length	l ₁	mm	1698 (Standard 1070mm fork length)				
	4-7	Length to face of forks	l ₂	mm	628				
	4-8	Overall width across chassis	b ₁	mm	820				
	4-9	Overall width across all/outer width straddle	b ₂	mm	1135 / 1275 / 1415				
	4-10	Inner width straddle	b ₁₄	mm	985 / 1125 / 1265				
	4-11	Fork dimensions	s/e/l	mm	40 × 100 × 1070 (1150 / 1220)				
	4-12	Width over forks	b ₅	mm	200–795 (Adjustable)				
	4-13	Ground clearance, centre of wheelbase	m ₂	mm	40				
	4-14	Aisle width for pallets 1000 × 1200 crossways	A _{st}	mm	2290				
	4-15	Aisle width for pallets 800 × 1200 lengthways	A _{st}	mm	2217				
	4-16	Turning radius	W _a	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 weight +/- 5% (lithium-ion battery)	—	kg	14kg (60Ah) / 24kg (100Ah)				
	6-5	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.
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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	Axle loading, laden front/rear (2.5m lifting height)	—	kg	636.6 / 1485				
	2-5	Axle loading, unladen front/rear (2.5m lifting height)	—	kg	466 / 155.6				
TYRES	3-1	Wheels	—	—	Polyurethane				
	3-2	Wheel size, front	Ø × width	mm	φ210 × 70				
	3-3	Wheel size, rear	Ø × width	mm	φ100 × 64				
	3-4	Wheels, number front/rear (x = driven wheels)	—	—	1x + 0 / 2 or 1x + 2 / 2 (with balance wheel)				
	3-5	Tread, front	b ₁₀	mm	665.5 (Equipped with balance wheel)				
	3-6	Tread, rear	b ₁₁	mm	41.73° (1060) / 47.24° (1200) / 52.76° (1340)				
DIMENSIONS	4-1	Lowered mast height	h ₁	mm	1520	1770	2020	2170	2270
	4-2	Lift height	h ₃	mm	2000	2500	3000	3300	3500
	4-3	Extended mast height	h ₄	mm	2520	3020	3520	3820	4020
	4-4	Height of tiller in driving position, min./max.	h ₁₃	mm	910 / 1290				
	4-5	Height, lowered	h ₁₄	mm	80				
	4-6	Overall length	l ₁	mm	1698 (Standard 1070mm fork length)				
	4-7	Length to face of forks	l ₂	mm	628				
	4-8	Overall width across chassis	b ₁	mm	820				
	4-9	Overall width across all/outer width straddle	b ₂	mm	1150 / 1290 / 1430				
	4-10	Inner width straddle	b ₁₄	mm	970 / 1110 / 1250				
	4-11	Fork dimensions	s/e/l	mm	40 × 100 × 1070 (1150 / 1220)				
	4-12	Width over forks	b ₅	bs(mm)	200–795 (Adjustable)				
	4-13	Ground clearance, centre of wheelbase	m ₂	m ₂ (mm)	40				
	4-14	Aisle width for pallets 1000 × 1200 crossways	Ast	Ast(mm)	2290				
	4-15	Aisle width for pallets 800 × 1200 lengthways	Ast	Ast(mm)	2217				
	4-16	Turning radius	Wa	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 weight +/- 5% (lithium-ion battery)	—	kg	14kg (60Ah) / 24kg (100Ah)				
	6-5	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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VDI 2198 – GENERAL SPECIFICATIONS – MSC15 SL (75×75MM)

GENERAL	1-1	Manufacturer			Yale				
	1-2	Model designation			MSC15 SL (75 × 75mm)				
	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	715				
	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	Axle loading, laden front/rear (2.5m lifting height)	—	kg	636.6 / 1485				
	2-5	Axle loading, unladen front/rear (2.5m lifting height)	—	kg	466 / 155.6				
TYRES	3-1	Wheels	—	—	Polyurethane				
	3-2	Wheel size, front	Ø × width	mm	φ210 × 70				
	3-3	Wheel size, rear	Ø × 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	b10	mm	665.5 (Equipped with balance wheel)				
	3-6	Tread, rear	b10	mm	41.73" (1060) / 47.24" (1200) / 52.76" (1340)				
DIMENSIONS	4-1	Lowered mast height	h1	mm	1520	1770	2020	2170	2270
	4-2	Lift height	h3	mm	2000	2500	3000	3300	3500
	4-3	Extended mast height	h4	mm	2520	3020	3520	3820	4020
	4-4	Height of tiller in driving position, min./max.	h13	mm	910 / 1290				
	4-5	Height, lowered	h14	mm	80				
	4-6	Overall length	l1	mm	1698 (Standard 1070mm fork length)				
	4-7	Length to face of forks	l2	mm	628				
	4-8	Overall width across chassis	b1	mm	820				
	4-9	Overall width across all/outer width straddle	b2	mm	1135 / 1275 / 1415				
	4-10	Inner width straddle	b14	mm	985 / 1125 / 1265				
	4-11	Fork dimensions	s/e/l	mm	40 × 100 × 1070 (1150 / 1220)				
	4-12	Width over forks	bs	bs(mm)	200–795 (Adjustable)				
	4-13	Ground clearance, centre of wheelbase	m2	m2(mm)	40				
	4-14	Aisle width for pallets 1000 × 1200 crossways	Ast	Ast(mm)	2290				
	4-15	Aisle width for pallets 800 × 1200 lengthways	Ast	Ast(mm)	2217				
	4-16	Turning radius	Wa	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				
	6-5	Battery weight +/- 5% (lithium-ion battery)	—	kg	14kg (60Ah) / 24kg (100Ah)				
	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
24V system with brush motor	●	
Mechanical steering	●	
Proportional speed on lifting/lowering	●	
Std environmental construction (0–45°C;)	●	
DRIVE	STD	OPT
φ100 × 64mm single polyurethane load wheel (REACH)	●	
φ100 × 49mm single polyurethane load wheel (REACH) for straddle leg size 75 × 75mm		●
φ210 × 75mm polyurethane (REACH) drive wheel	●	
φ75 × 30mm double balance wheel		●
LIFT	STD	OPT
2 stage no free lift – 2270mm/3500mm/4020mm	●	
2 stage no free lift – 1520mm/2000mm/2520mm		●
2 stage no free lift – 1770mm/2500mm/3020mm		●
2 stage no free lift – 2020mm/3000mm/3520mm		●
2 stage no free lift – 2170mm/3300mm/3820mm		●
HANDLING	STD	OPT
1070mm × 200–800mm forks	●	
1150mm × 200–800mm forks		●
H60 × W90mm straddle leg	●	
H75 × W75mm straddle leg		●

OPERATION	STD	OPT
Key switch	●	
Keypad with password protection Non-CE		●
MDI display – multi-function LCD screen display show working status, hourmeter, BDI, error code	●	
Right side proportional control knob	●	
Two side proportional control knob		●
VISIBILITY	STD	OPT
Metal wiremesh	●	
Lexan shield		●
ENERGY SYSTEM	STD	OPT
24V/60Ah lithium battery (UL)	●	
24V/100Ah lithium battery (UL)		●
1 extra battery		●
On-board charger 24V/30A 100~240V UL (For lithium battery battery)	●	
On-board charger plug (Brazilian Std)	●	
SUPPLEMENTAL	STD	OPT
Operating manual	●	
Parts manual	●	



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