



MS12-16IL

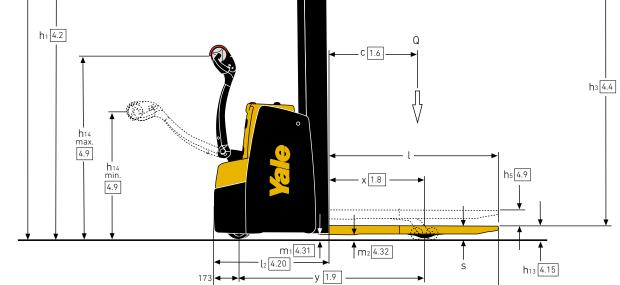
1,200 - 1,600 kg

MSIL Series

Pedestrian High Lift Stacker

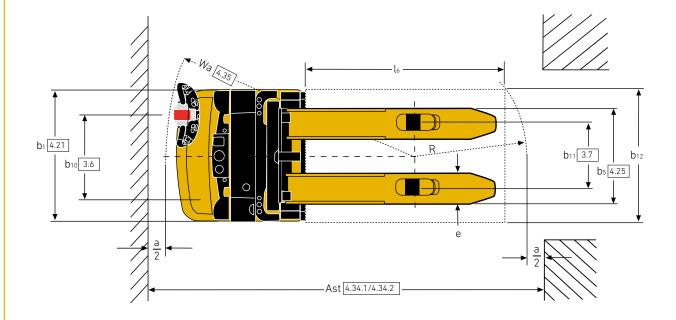
SPEC SHEET

h4 4.5



—l₁ 4.19 —





	1.1	Manufacturer		Yale				
	1.2	Model designation		MS12IL	MS14IL	MS16IL		
	1.3	Drive		Electric (battery)				
	1.4	Operator type	Pedestrian					
	1.5	Rated capacity/Rated load	Q (t)	1.2	1.4	1.6		
GENERAL	1.6	Load centre distance	c (mm)		600	1		
	1.8	Load distance, centre of drive axle to fork (1)	x (mm)	644				
	1.9	Wheelbase			50	1422		
	2.1	Service weight (6)	kg	1111		1187		
WEIGHT	2.2	Axle loading, laden front/rear	kg	832 / 1479 760 / 1751		920 / 1867		
	2.3	Axle loading, unladen front/rear	kg	735 / 376	715 / 396	790 / 397		
	3.1	Tyres front/rear		Topthane / Polyurethane				
	3.2	Tyre size, front	ø mm x mm	230 x 70				
	3.3	Tyre size, rear	ø mm x mm	85 x 95				
	3.4	Additional wheels (dimensions)	ø mm x mm	150 x 54				
	3.5	Wheels, number front/rear (x = driven wheels)		1 x + 1/2 1 x +1/4				
	3.6	Tread, front	b10 (mm)	510				
	3.7	Tread, rear	b11 (mm)	385				
	4.2	Height, mast lowered	h1 (mm)	1900				
	4.3	Free lift	h₂ (mm)	100				
	4.4	Lift	h₃ (mm)	2800				
	4.5	Height, mast extended	h4 (mm)	3328				
	4.6	Initial lift	h₅ (mm)	120				
	4.9	Height drawbar in driving position min./max.	h14 (mm)	867 / 1223				
	4.15	Height, lowered	h13 (mm)	90				
	4.19	Overall length (2)	կ (mm)	2028 2100				
	4.20	Length to face of forks (2)	l2 (mm)	878 950				
	4.21	Overall width	b1/b2 (mm)	790				
	4.22	Fork dimensions (10)	s/e/l (mm)	55 / 185 / 1150				
	4.25	Distance between fork-arms (7)	b₅ (mm)	570				
	4.31	Ground clearance, laden, below mast	m1 (mm)	44				
	4.32	Ground clearance, center of wheelbase	m2 (mm)	20				
	4.33	Load dimension b12 × l6 crossways	b12 × l6 (mm)	1000 x 1200				
	4.34.1	Aisle width for pallets 1200mm x 1000mm crossways	Ast (mm)	2449 2518				
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise	Ast (mm)	2436		2505		
	4.35	Turning radius	Wa (mm)	15	1620			
	5.1	Travel speed, laden/unladen	km/h	6/6				
	5.1.1	Travel speed, laden/unladen, backwards	km/h	6/6				
	5.2	Lift speed, laden/unladen	m/s	0.16 / 0.27 0.15 / 0.27		/ 0.27		
	5.3	Lowering speed, laden/unladen	m/s		0.40 / 0.25			
	5.7	Gradeability, laden/unladen	%	4.1 / 10.6	3.6 / 10.6	3.0 / 9.8		
	5.8	Max. gradeability, laden/unladen	%	11.0 / 22.5	9.9 / 22.5	8.8 / 23.3		
	5.10	Service brake		Electromagnetic				
	6.1	Drive motor S2 60 minute rating	kW	1.2				
	6.2	Lift motor S3 15% rating	kW	3 (9)				
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		В				
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	24V / 250Ah (5)	24V / 250Ah ⁽⁸⁾	24V / 375Ah (4)		
	6.5	Battery weight (3)	kg			288		
	6.6	Energy consumption according to VDI cycle	kWh/h @ no. of cycles	0.78 / 1.0	0.89 / 1.13	0.99 / 1.13		
	8.1	Type of drive unit		AC-Controller				
	10.7	Sound pressure level at the driver's position	dB(A)	67.6 / 64				

(1) With 3 stage mast -43mm

(2) With 3 stage mast +43mm, with 3 stage mast with load backrest +43mm, with 2 stage mast with load backrest +27mm

(3) These values may vary of +/-5%

(4) Available battery 24V / 315Ah (288kg)

(5) Available battery 24V / 210Ah (212kg); 24V / 200Ah BS (185kg) the battery is not Din B; with BS200Ah the wheelbase is decreased y = +62mm

(6) With forks 1400/1600 mm +14kg

(7) Available bs 680mm: with bs 680mm, x -43mm, l1 and l2 +43mm

(8) Available battery 24V / 210Ah (212kg); 24V / 315Ah (288kg) ; 24V / 375Ah (288kg); with 315/375Ah the wheelbase is increased y = +72mm

(9) Value referred to S3 12%

(10) With 2 stage mast and b5 = 570mm the s dimension increases 5mm for first 250mm at toe

Model		h₃ (mm)	h2 (mm)	իլ ⁽¹⁾ (mm)	h4 ⁽²⁾ (mm)	Weight ^{(2) (3)} (kg)
			2-Stage N	o Free-Lift (NFL) Mast	'	
MS12IL, MS14IL, MS16IL		2800	100	1900 (4)	3328	329
		3000	100	2000 (4)	3528	343
		3200	100	2100	3728	356
		3400	100	2200	3928	369
		3600	100	2300	4128	382
		3800	100	2400	4328	395
		4000	100	2500	4528	409
		4200	100	2600	4728	422
			2-Stage Fu	ill Free-Lift (FFL) Mast		
MS12IL, MS14IL, MS16IL		2740	1418	1850 (3)	3268	341
		2940	1518	1950 ⁽³⁾	3468	354
		3140	1618	2050	3668	367
		3340	1718	2150	3868	380
		3540	1818	2250	4068	393
		3740	1918	2350	4268	406
		3940	2018	2450	4468	419
		4140	2118	2550	4668	432
			3-Stage Fu	ıll Free-Lift (FFL) Mast		
		4040	1318	1850 (3)	4606	462
	MS12IL	4340	1418	1950 ⁽³⁾	4906	481
MS14IL	MS1	4620	1518	2050	5186	499
MS1		4900	1618	2150	5466	518
		5180	1718	2250	5746	537
		5460	1818	2350	6026	556
		5740	1918	2450	6306	575
		6020	2018	2550	6586	594

(1) With free lift of 100 mm for NFL mast

(2) With load backrest (h=1000) for carriage h_4 + 562mm (2 stage mast), + 524mm (3 stage mast), + 518mm (2 ton. mast)

(3) All weights are: mast structures (weldment, cylinders, chain, pulley) + oil. EXCLUDED: forks, accessories

(4) Not available with vertical extraction of battery BS200Ah

All values are nominal values and they are subject to tolerances.









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