

MSXD series

2,000kg

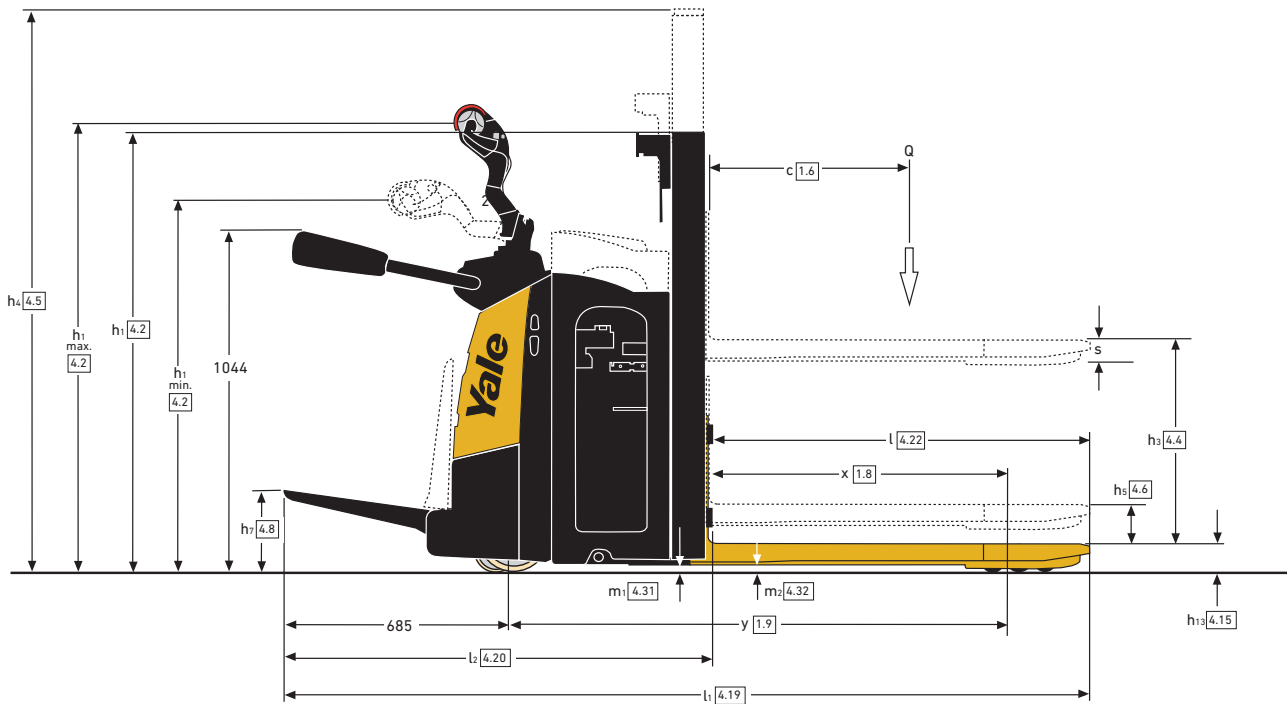
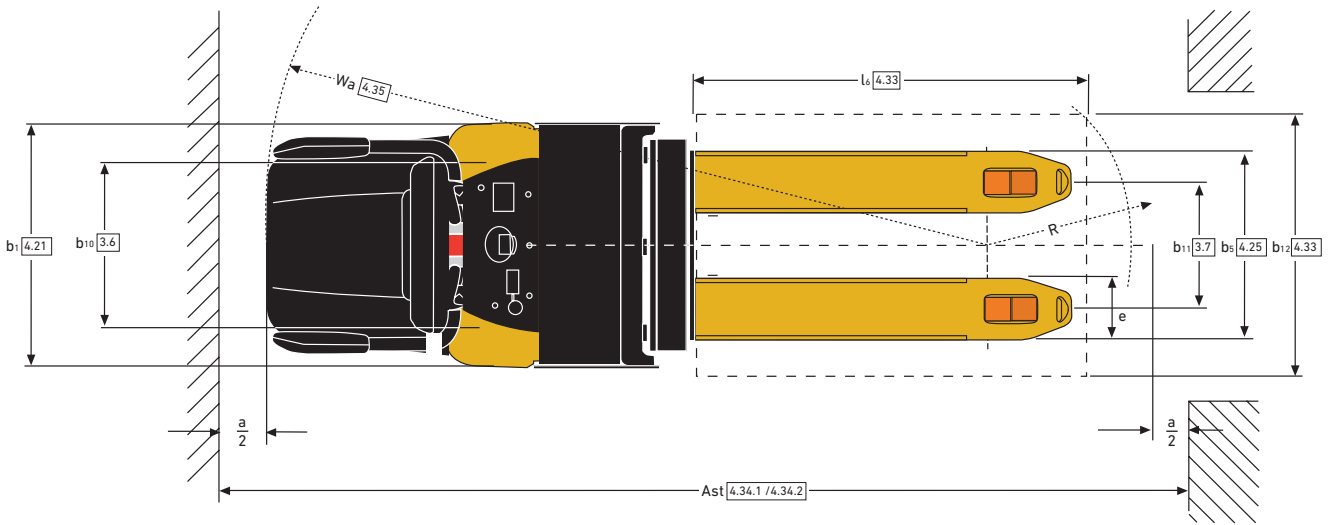
Double Stacker with Platform



SPECIFICATION SHEET

Model: MS20XD

Truck Dimensions



Mast details

Model	Lift height h_3 (mm)	Free lift h_2 (mm)	Height, mast lowered $h_1^{(1)}$ (mm)	Height, mast extended $h_4^{(2)}$ (mm)	Weight ⁽³⁾ (kg)
MS20XD	1574	100	1346	2133	163
	2020	100	1570	2536	177
	2980	100	2050	3496	213

⁽¹⁾ With free lift of 100mm and initial lift lowered
⁽²⁾ With load backrest (h=1000) for carriage $h_4 + 562\text{mm}$ (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.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer. Yale products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

VDI 2198 – General Specifications

Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale	Yale
	1.2	Manufacturer's type designation		MS20XD	MS20XD platform with side protection	MS20XD platform with rear protection
	1.3	Drive: electric (battery type, mains, diesel, petrol, fuel gas)		Electric (battery)	Electric (battery)	Electric (battery)
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian/Standing	Standing	Standing
	1.5	Rated capacity/Rated load	Q (t)	2.0	2.0	2.0
	1.6	Load centre distance	c (mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork ⁽¹⁾	x (mm)	963	963	963
	1.9	Wheelbase ^{(1) (2)}	y (mm)	1585	1657	1657
	Weights	2.1	Service weight ^{(2) (3)}	kg	1000	1140
2.2		Axle loading laden, front/rear	kg	1080 / 1920	1910 / 1230	1900 / 1225
2.3		Axle loading unladen, front/rear	kg	760 / 255	270 / 870	260 / 865
Tyres/chassis	3.1	Tyres: polyurethane, tophane, NDIIthane, front/rear		NDIIthane / NDIIthane	NDIIthane / NDIIthane	NDIIthane / NDIIthane
	3.2	Tyre size, front	ø (mm)	254 x 90 ⁽⁴⁾	85 x 70 ⁽⁵⁾	85 x 70 ⁽⁵⁾
	3.3	Tyre size, rear	ø (mm)	85 x 70 ^{(4) (5)}	254 x 90	254 x 90
	3.4	Additional wheels (dimensions)	ø (mm)	125 x 50	125 x 50	125 x 50
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 2 / 4 ⁽⁴⁾	4 / 1 x + 2	4 / 1x + 2
	3.6	Tread, front	b ₁₀ (mm)	504 (4)	382	382
	3.7	Tread, rear	b ₁₁ (mm)	382 (4)	504	504
Dimensions	4.2	Height, mast lowered	h ₁ (mm)	1346	1346	1346
	4.3	Free lift	h ₂ (mm)	100	100	100
	4.4	Lift	h ₃ (mm)	1574	1574	1574
	4.5	Height, mast extended	h ₄ (mm)	2133	2133	2133
	4.6	Initial lift	h ₅ (mm)	120	120	120
	4.9	Height drawbar in driving position min./max.	h ₁₄ (mm)	1150 / 1383	1198 / 1288	1198 / 1288
	4.15	Height, lowered	h ₁₃ (mm)	90	90	90
	4.19	Overall length (pedestrian) ⁽²⁾	l ₁ (mm)	2030	-	-
	4.19	Overall length (standing) ⁽²⁾	l ₁ (mm)	2463	2532	2629
	4.20	Length to face of forks (pedestrian) ⁽²⁾	l ₂ (mm)	880	-	-
	4.20	Length to face of forks (standing) ⁽²⁾	l ₂ (mm)	1313	1382	1479
	4.21	Overall width	b ₁ / b ₂ (mm)	750	750	750
	4.22	Fork dimensions	s/e/l (mm)	55 / 185 / 1150	55 / 185 / 1150	55 / 185 / 1150
	4.25	Forks spread	b ₅ (mm)	570	570	570
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	19	19	19
	4.32	Ground clearance, center of wheelbase	m ₂ (mm)	19	19	19
	4.33	Load dimension b ₁₂ × l ₆	b ₁₂ × l ₆ (mm)	1000 x 1200	1000 x 1200	1000 x 1200
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) ^{(2) (6)}	Ast ₂ (mm)	2606	na	na
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) ^{(2) (6)}	Ast ₁ (mm)	3022	3083	3184
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) ^{(2) (6)}	Ast ₂ (mm)	2499	na	na	
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) ^{(2) (6)}	Ast ₁ (mm)	2915	2976	3077	
4.35	Turning radius (pedestrian) ^{(1) (2)}	Wa ₂ (mm)	1864	na	na	
4.35	Turning radius (standing) ^{(1) (2)}	Wa ₁ (mm)	2280	2341	2442	
Performance data	5.1	Travel speed, laden/unladen (pedestrian)	km/h	6 / 6	-	-
	5.1	Travel speed, laden/unladen (standing)	km/h	9 / 10	9 / 10	9 / 10
	5.1.1	Travel speed, laden/unladen, backwards (pedestrian)	km/h	6 / 6	-	-
	5.1.1	Travel speed, laden/unladen, backwards (standing)	km/h	9 / 10	9 / 10	9 / 10
	5.2	Lift speed, laden/unladen	m/s	0.15 / 0.31	0.15 / 0.31	0.15 / 0.31
	5.3	Lowering speed, laden/unladen	m/s	0.40 / 0.34	0.40 / 0.34	0.40 / 0.34
	5.7	Gradeability, laden/unladen	%	1.0 / 6.7	1.0 / 6.7	1.0 / 6.7
	5.8	Max. gradeability, laden/unladen ⁽⁷⁾	%	9.1 / 30.2	9.1 / 30.2	9.1 / 30.2
5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic	
Electric engine	6.1	Drive motor rating S2 60 min	kW	3	3	3
	6.2	Lift motor rating at S3 15% ⁽⁸⁾	kW	2.2	2.2	2.2
	6.3	Battery according to DIN 43531 / 35 / 36 A,B,C, no		B	B	B
	6.4	Battery voltage/nominal capacity K5 ⁽²⁾	V/Ah	24V / 250Ah	24V / 375Ah	24V / 375Ah
	6.5	Battery weight ^{(2) (3)}	kg	212	288	288
	6.6	Energy consumption according to DIN EN 16976	kWh/h	1.5	1.5	1.5
	6.7	Turnover output according to VDI 2198	t/h	45	45	45
	6.8	Turnover efficiency according to VDI 2198	t/kWh	30	30	30
8.1	Type of drive unit		AC-Controller	AC-Controller	AC-Controller	
10.7	Sound pressure level at the driver's seat	dB (A)	66	66	66	

⁽¹⁾ With load section lifted: -67mm

⁽²⁾ See "Battery table"

⁽³⁾ These values may vary of +/- 5%

⁽⁴⁾ Pedestrian version. For Stand-on version, front/rear are inverted

⁽⁵⁾ Available 85 x 110mm tyre with single roller

⁽⁶⁾ Forks raised - Ast = Wa + R + a
Wa and R with forks raised

⁽⁷⁾ If truck climbs ramps frequently (within 1h), consult your salesman

⁽⁸⁾ Value referred to S3 5%

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Lift trucks illustrated may feature optional equipment.

Values may vary with alternative configurations.

MSXD series

Model: MS20XD



Standard Equipment

- Key Switch Start
- Standard construction
- 624 x 284 x 627mm for 315/375 Ah battery
- Side Extraction (using rollers)
- Mast lift height 1574mm (1346mm lowered height)
- Forks 55 x 570 x 1150mm
- 570mm Carriage
- Lexan Mast Guard
- 254 x 90mm NDIIthane drive wheels
- 85 x 70mm tandem NDIIthane load wheels
- Standard Platform with Side Arms
- Multifunctional display
- Tiller - fixed height*
- Scooter Control**
- 24 Months / 3000 hours Manufacturers Warranty

* For Standard Platform with Side Arms only

** For Standard Platform with Rear and Side Protection only

*** For Standard Platform with Side Protection only

Optional Equipment

- Key Switch Start with Operator Password
- Cold Store construction (-30 °C)
- 624 x 212 x 627mm for 210/250 Ah battery
- Side Extraction (for li-ion batteries)
- Mast lift height 2020mm (1570mm lowered height)
- Mast lift height 2980mm (2050mm lowered height)
- 1000mm high Load Backrest
- Wire Mesh Mast Guard
- 254 x 90mm Dynaroll drive wheels
- 254 x 90mm Redthane drive wheels
- 254 x 90mm NDIIthane Conductive drive wheels
- 85 x 100mm Single NDIIthane load wheels
- Standard Platform without Side Arms
- Standard Platform with Rear Protection
- Standard Platform with Side Protection
- A4 Clip board
- Bottle holder
- Foot sensor***
- Multipurpose bar
- Multipurpose bar across
- Multipurpose clamp 1PC
- Multipurpose clamp 2PC
- Tiller - adjusted height*
- 12V DC/DC Converter
- 24V DC/DC Converter
- Manual Work Light
- Automated Work Light
- Blue LED Spotlight
- Platform lights**
- Forward Alarm (forks trailing)
- Reverse Alarm (forks leading)
- Forward/Reverse Alarm
- Lead acid battery options
- Lithium-ion battery options
- Yale Vision
- 36 Months / 4500 hours Extended Warranty

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


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HYSTER-YALE UK LIMITED trading as Yale Europe Materials Handling.

Safety: This truck conforms to the current EU requirements.

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