Yale Robotics

MO series

2,500kg



Internal Transportation



- Robotic and manual dual-mode operation
- CAN bus technology
- Horizontal transport over short and long distances

Truck Dimensions h₄ 4.5 -c 1.6 h₁₄4.9 h₁ 4.2 **↑** 391 m₁ 4.32 ∱ 50 m₂ 4.32 s 4.22 h₁₃ 4.15 -y 1.9 — -I₁ 4.19 --l₂ 4.20 Wa 4.35 <u>a</u> | Ast 4.34.1/4.34.2

VDI 2198 - General Specifications				
Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale
	1.2	Manufacturer's type designa	ation	MO25
	1.3	Drive: electric (battery or ma		Electric (battery)
	1.4	` ,	trian, standing, seated, internal transportation	Internal transportation
	1.5	Rated capacity/rated load	Q (t)	2.5
ingı	1.6	Load centre distance	c (mm)	1200 (1)
Dist	1.8	Load distance, centre of driv	· · · ·	1620
	1.9	Wheelbase	y (mm)	3208
Weights	2.1			1221
	2.2	Service weight	kg	1370 / 2295
		Axle loading, laden front/rea	-	
	2.3	Axle loading, unladen front/r		905 / 260
	3.1	Tyres: polyurethane, topthan		Vulkollan / Vulkollan
	3.2	Tyre size, front	ø (mm x mm	
has	3.3	Tyre size, rear	ø (mm x mm	
Tyres/chassis	3.4	Additional wheels (dimensio		
	3.5	Wheels, number front/rear (x		1x + 1/4
	3.6	Tread, front	b10 (mm)	437
	3.7	Tread, rear	b ₁₁ (mm)	376
	4.2	Height of mast, lowered	h ₁ (mm)	2485
	4.4	Lift	hs (mm)	120
	4.5	Height, mast extended	h4 (mm)	-
	4.8	Seat height relating to SIP/s	tand height h ₇ (mm)	152
	4.9	Height drawbar in driving po	sition min./max. h ₁₄ (mm)	1317
	4.15	Height, lowered	h ₁₃ (mm)	85
દ	4.19	Overall length	lı (mm)	3048
Dimensions	4.20	Length to face of forks	l2 (mm)	1848
men	4.21	Overall width	b1/b2 (mm)	952
ΪŌ	4.22	Fork dimensions ISO 2331	s/e/I (mm)	60 / 184 / 1200
	4.25	Distance between fork-arms	b5 (mm)	560
	4.32	Ground clearance, centre of	wheelbase m2 (mm)	25
	4.33	Load dimensions b ₁₂ x l ₆ cro	bssways b12 × l6 (mm	800 x 1200 ⁽¹⁾
	4.34.1	Aisle width for pallets 1000	c 1200 crossways A _{st} (mm)	5190
	4.34.2	Aisle width for pallets 800 x	1200 lengthways A _{st} (mm)	5162 ⁽¹⁾
	4.35	Turning radius	Wa (mm)	3413 ⁽¹⁾
Performance data	5.1	Travel speed, laden/unladen	km/h	5.4
	5.1.1	Travel speed, laden/unladen	, backwards km/h	2.8
	5.2.1	Lift speed, laden/unladen (Fo	orks) m/s	0.023 / 0.039
	5.3.1	Lowering speed, laden/unladen/		0.038 / 0.018
mar	5.7	Gradeability, laden/unladen	%	6 / 20
rfor	5.8	Max. gradeability, laden/unla		3/3
Pe	5.9	Acceleration time, laden/unla		8.9 / 5.5
	5.10	Service brake		Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 mir	h kW	2.6
	6.2	Lift motor rating at S3 15%	kW	1.2
	6.3	Battery according to DIN 43		no
	6.4	Battery voltage/nominal cap		24 / 620
	6.5	Battery weight	kg	480
	6.6	Energy consumption accord		
	8.1	Type of drive unit	NVII/II @ IIO.	AC-Controller /
	0.1	Type of white drift		Automation driven by Balyo
	10.7	Average noise level at the or	perator's ear according to EN 12053 dB(A)	< 67.5
(1) Applies to 2 pallets = 2400mm (2) Values obtained with 40 cycles (3) Values obtained with 40 cycles (4) Values obtained with 40 cycles (5) Values obtained with 40 cycles (6) Values obtained with 40 cycles (7) Values econtact the manufacturer. (8) Yale products might be subject to change without notice. (8) Lift trucks illustrated may feature optional equipment. (8) Values may vary with alternative configurations.				

MO series

Models: MO25

Robotics

This truck has Yale robotics fitted. Our solutions are based on the established Yale ® manual truck range. This dual-mode design provides both flexibility of operation and simplicity of servicing, with our authorised dealer network already familiar with 90% of the mechanical and electrical systems of each robotic unit. For pre-sales support, warehouse systems specialists are available to visit potential sites to collect data and suggest solutions where required.

Productivity

- The powerful 2.6kW AC drive motor delivers high performance acceleration, braking and travel speed, models ideal for stop and go operations.
- Effortless electrical steering and automatic speed reduction on cornering ensure excellent control and high productivity.

Ergonomics

- Scooter control with electric steering allows the operator to remain within the truck footprint at all times for protection as well as reducing operator fatigue and increasing productivity.
- The large platform area increases operator comfort and allows easier pass through to optimize picking from both sides.

Cost of Ownership

- Integrated system controls, AC traction and DC pump motors increase energy efficiency.
- Regenerative braking reduces the use of the service brake and dissipates heat from the traction motor increasing the life of key components.
- Motors and controllers are protected against damage and debris, reducing servicing and repair costs.

Dependability

The solid frame construction and quality components ensure long-term reliability and durability.

- A sturdy wrap around bumper plate protects the truck against impacts and damage and minimises repair costs.
- The truck's electronics, sealed electrical connectors and Hall effect sensors and switches - are all protected from damage to ensure excellent reliability, maximum productivity and reduced servicing costs

Serviceability

- The CAN bus system and diagnostics can be controlled and monitored via the console or through the single plugpoint. Fault codes can be displayed on the console for easy service identification.
- The low maintenance AC traction motor with built in thermal protection is fully enclosed for protection against damage and debris, minimising service downtime.

Available Options include:

 Coasting function with slow-speed forward, lifting and lowering forks buttons.

Miscellaneous

- Key pad
- Side battery extraction
- Floor-level bumper (rubber bumper)
- Mid mounted bumper (bull bar)
- Universal support bar on motor compartment
- Various drive wheels
- Various storage compartments
- Standard and extended warranty options.

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