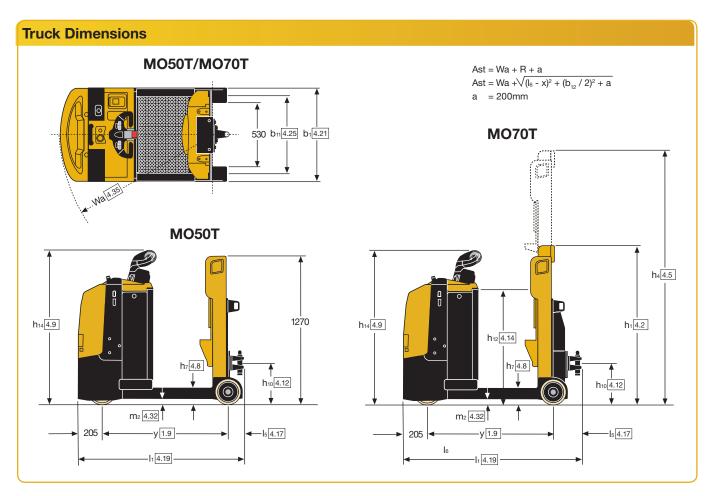


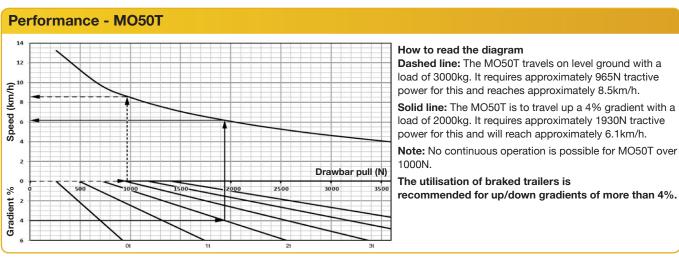
# MOT series 5,000kg/7,000kg

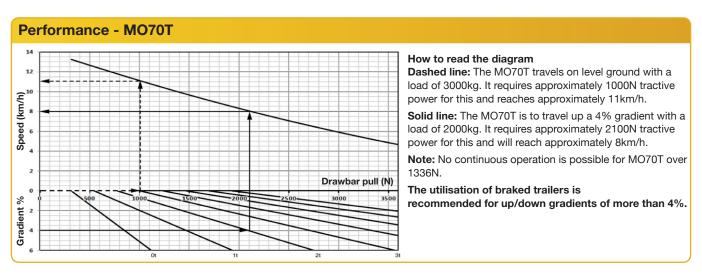
# **Tow Tractor**



- Scooter control steering device enhances ergonomics and productivity
- CAN bus technology and high IP protection for main components
- Efficient energy management
- Available with Yale Robotics







VDI 2198 - General Specifications							
Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale	Yale	Yale
	1.2	Manufacturer's type designition		MO50T	MO50T	МО70Т	МО70Т
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Order-picker	Order-picker	Order-picker	Order-picker
	1.5	Rated capacity/Rated load	Q (t)	5.0	5.0	7.0	7.0
	1.7	Rated drawbar pull	F(N)	1000	1000	1336	1336
	1.9	Wheelbase	y (mm)	1229 (1)	1229 (1)	1229 (1)	1229 (1)
Weights	2.1	Service weight (5)	kg	1136 (1))	1280 (1)	1236	1380
	2.3	Axle loading, unladen front/rear	kg	699 / 437	665 / 615	694 / 542	660 / 720
Tyres/chassis	3.1	Tyres: polyurethane, topthane, vulkollan, front/rear		Vulkollan / Polyurethane	Vulkollan / Polyurethane	Topthane / Polyurethane	Topthane / Polyurethane
	3.2	Tyre size, front	ø (mm x mm)	254 x 90	254 x 90	254 x 90	254 x 90
	3.3	Tyre size, rear	ø (mm x mm)	200 x 100	200 x 100	200 x 100	200 x 100
	3.5	Wheels, number front/rear (x = driven wheels)		1 x /2	1 x /2	1 x /2	1 x /2
	3.7	Tread, rear <sup>(6)</sup>	b <sub>11</sub> (mm)	686	686	686	686
Dimensions	4.2	Height, mast lowered	h <sub>1</sub> (mm)	-	1360	-	1360
	4.5	Height, mast extended	h4 (mm)	-	2190	-	2190
	4.8	Seat height relating to SIP/stand height	h7 (mm)	152	152	152	152
	4.9	Height drawbar in driving position min./max.	h <sub>14</sub> (mm)	1317	1317	1317	1317
	4.12	Coupling height	h <sub>10</sub> (mm)	365	365	365	365
	4.14	Stand height, elevated	h <sub>12</sub> (mm)	-	980	-	980
	4.17	Overhang	l5 (mm)	135	205	135	205
	4.19	Overall length	I1 (mm)	1569 <sup>(1)</sup>	1639 <sup>(1)</sup>	1569 <sup>(1)</sup>	1639 (1)
	4.21	Overall width	b1/b2 (mm)	796	796	796	796
	4.32	Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	50	50	50	50
	4.35	Turning radius	Wa (mm)	1434 (1)	1434 (1)	1434 (1)	1434 (1)
	5.1	Travel speed, laden/unladen	km/h	7 / 13	7 / 13	8.4 / 13	8.4 / 13
Performance data	5.1.1	Travel speed, laden/unladen, backwards	km/h	-/8	-/8	-/8	-/8
	5.2.2	Lift speed, laden/unladen (Cab)	m/s	-	0.189 / 0.189	-	0.189 / 0.189
	5.3.2	Lowering speed, laden/unladen (Cab)	m/s	-	0.162 / 0.162	-	0.162 / 0.162
	5.5	Drawbar pull, laden/unladen	N	1000	1000	1336	1336
	5.6	Max drawbar pull, laden/unladen	N	3000 (7)	3000 (7)	4500	4500
	5.8	Max. gradeability, laden/unladen	%	3.4 / 20	3.4 / 20	3 / 20	3 / 20
	5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
Electric engine	6.1	Drive motor, S2 60 min rating	kW	2.6	2.6	3	3
	6.2	Lift motor S3 15% rating	kW	-	2	-	-
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		no	no	no	no
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	24 / 620 (1)	24 / 620 (1)	24 / 620 (1)	24 / 620 (1)
	6.5	Battery weight (5)	kg	480	480	480	480
	6.6	Energy consumption according to VDI cycle (4)	kWh/h at no. of cycles	1.82	1.82	2.37	2.37
	8.1	Type of drive unit		AC-Controller	AC-Controller	AC-Controller	AC-Controller
	10.7	Sound pressure level at the driver's seat	dB (A)	< 65	< 67.5	< 65	< 67.5

<sup>(1)</sup> Available battery 465Ah. With battery 465Ah -145mm, and service weight -114kg

The British Industrial Truck Association recommends the addition of 100mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.

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.

Available battery 500Ah. With battery 500Ah service weight -2kg

<sup>(3)</sup> Applies to 2 pallets = 2400mm

<sup>(4)</sup> Values obtained with 40 cycles

 $<sup>^{\</sup>scriptscriptstyle{(5)}}$  These values may vary of +/- 5%

 $<sup>^{(6)}</sup>$  With forks "CHEP long" e = 223mm, b11 = 447mm

<sup>(7)</sup> With drive wheel in topthane: 3200N

<sup>(8)</sup> Transfer aisle widths (lines 4.34.1 & 4.34.2) are based on the VDI standard calculation as shown on illustration.

## **MOT** series

Models: MO50T, MO70T



#### **Tow Tractor**

Designed for use in a wide range of manufacturing applications, particularly for line-feed operations

#### **Productivity**

- The powerful high thermal capacity 2.6kW or 3kW AC drive motor delivers high performance acceleration, braking and travel speed, making these models ideal for stop and go operations.
- Acceleration, travel and braking speeds can be adjusted by a service engineer to the particular needs of the application through the operator console
- Effortless electrical steering and automatic speed reduction on cornering ensure excellent control and high productivity
- The anti-roll back on ramps device ensures efficient operation
- A maximum travel speed of 13km/h reduces travel time on long runs between docking and picking areas
- Vertical or lateral battery extraction is available

#### **Ergonomics**

- Scooter control with electric steering reduces the arm movement required to change direction. This allows the operator to remain within the truck footprint at all times for protection as well as reducing operator fatigue and increasing productivity
- A personnel sensor, which covers the entire platform floor area detects when the operator is on board. This, together with the high, soft touch, back rest, allows the operator to locate the most comfortable operating position
- The large platform area increases operator comfort and allows easier pass through
- Slow-speed forward and reverse direction buttons (coasting function) are located on the backrest.

#### **Cost of Ownership**

- Adjustable performance settings allow the truck to be tailored to the needs of the application, reducing energy consumption
- 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 industrial grade 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 including the enclosed AC traction motor, sealed combi-controller (with IP65 rating). sealed electrical connectors and Hall effect sensors and switches - are all protected from damage to ensure excellent reliability, maximum productivity and reduced servicing
- Reduced wiring complexity is a result of the CANbus communication system, which also provides easy access to components and delivers world-class reliability

#### Serviceability

- The CANbus system and diagnostics can be controlled and monitored via the console or through the single plug-point. Fault codes can be displayed on the console for easy service identification
- A one-piece hood provides easy access to key components
- Full access to all the trucks main components, including the motor is, by the removal of the motor cover, which is retained by two easily removed screws

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:**

- Side battery extraction
- Floor-level bumper (rubber bumper)
- Mid mounted bumper (bull bar)
- Universal support bar on motor compartment
- Several hook types
- Various drive wheel compounds, platform lift heights and storage compartments.

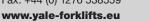
#### **Robotics**

This truck is available with Yale Robotics fitted. Our robotic 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.

#### **HYSTER-YALE UK LIMITED**

trading as Yale Europe Materials Handling Centennial House, Frimley Business Park, Frimley, Surrey GU16 7SG, United Kingdom.

Tel: +44 (0) 1276 538500 Fax: +44 (0) 1276 538559



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