



# M050-70T

SPEC SHEET

5,000 - 7,000 kg

---

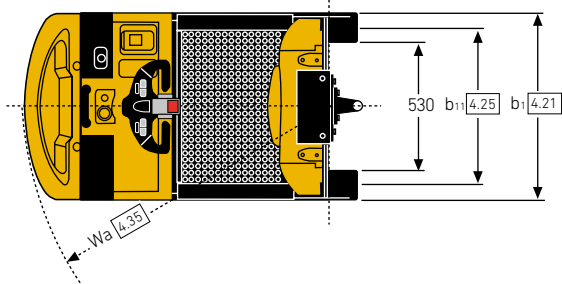
MOT Series

---

Tow Tractor

## TRUCK DIMENSIONS – MOT SERIES

### M050T/M070T

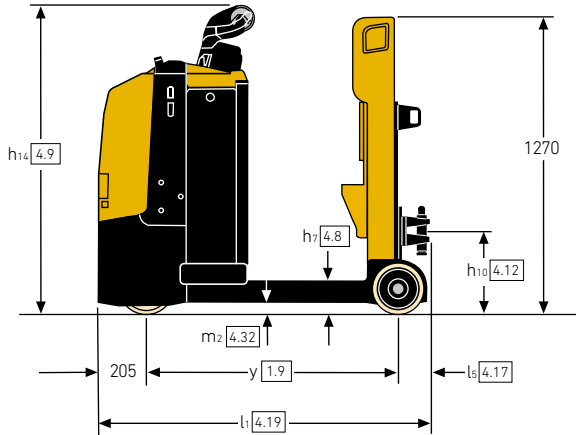


$$A_{st} = W_a + R + a$$

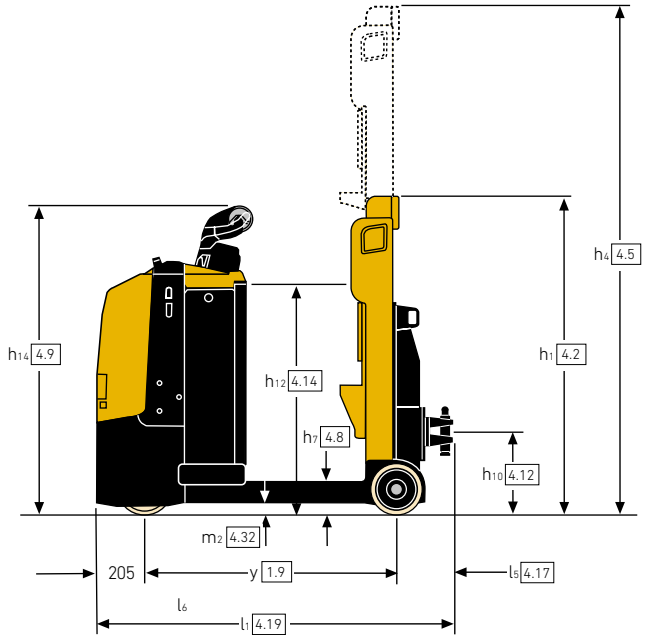
$$A_{st} = W_a + \sqrt{(l_6 - x)^2 + (b_{12} / 2)^2} + a$$

a = 200mm

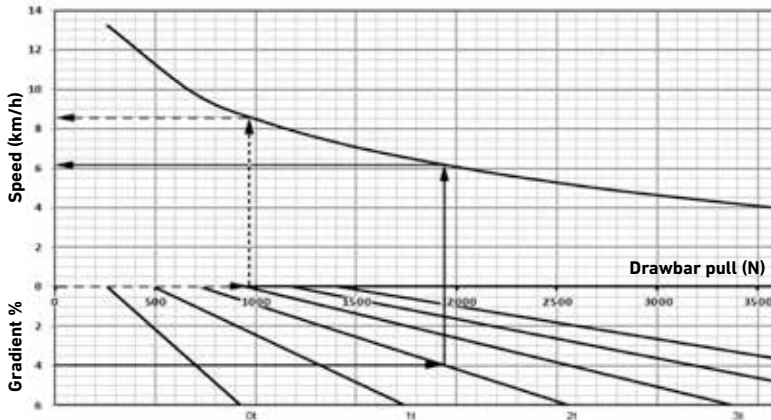
### M050T



### M070T



## PERFORMANCE – M050T



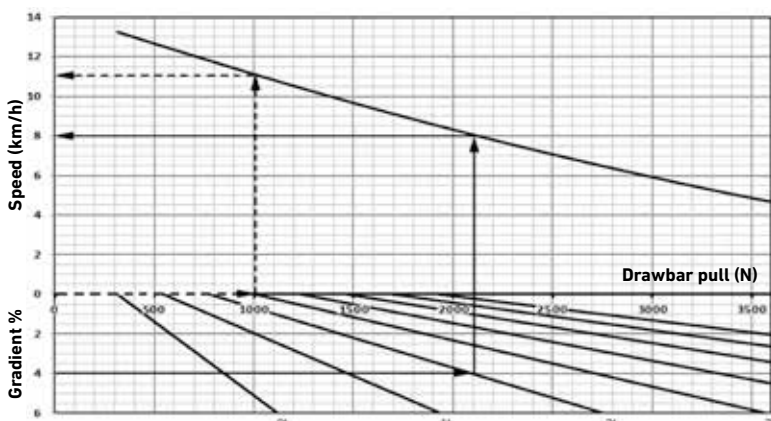
### How to read the diagram

**Dashed line:** The M050T travels on level ground with a load of 3000kg. It requires approximately 965N tractive power for this and reaches approximately 8.5km/h.

**Solid line:** The M050T is to travel up a 4% gradient with a load of 2000kg. It requires approximately 1930N tractive power for this and will reach approximately 6.1km/h.

**Note:** No continuous operation is possible for M050T over 1000N. The utilisation of braked trailers is recommended for up/down gradients of more than 4%.

## PERFORMANCE – M070T



### How to read the diagram

**Dashed line:** The M070T travels on level ground with a load of 3000kg. It requires approximately 1000N tractive power for this and reaches approximately 11km/h.

**Solid line:** The M070T is to travel up a 4% gradient with a load of 2000kg. It requires approximately 2100N tractive power for this and will reach approximately 8km/h.

**Note:** No continuous operation is possible for M070T over 1336N. The utilisation of braked trailers is recommended for up/down gradients of more than 4%.

## VDI 2198 – GENERAL SPECIFICATIONS – MOT SERIES

			Yale				
			M050T		M070T		
<b>GENERAL</b>	1.1	Manufacturer					
	1.2	Model designation					
	1.3	Drive	Electric (battery)				
	1.4	Operator type	Order-picker				
	1.5	Rated capacity/Rated load	Q (t)	5.0	7.0		
	1.7	Rated drawbar pull	F (N)	1000	1336		
1.9	Wheelbase	y (mm)	1229 <sup>(1)</sup>				
<b>WEIGHT</b>	2.1	Service weight <sup>(2)</sup>	kg	1136 <sup>(1)</sup>	1280 <sup>(1)</sup>	1236	1380
	2.3	Axle loading, unladen front/rear	kg	699 / 437	665 / 615	694 / 542	660 / 720
<b>TYRES</b>	3.1	Tyres front/rear	Vulkollan / Polyurethane		Tophane / Polyurethane		
	3.2	Tyre size, front	ø (mm x mm)	254 x 90			
	3.3	Tyre size, rear	ø (mm x mm)	200 x 100			
	3.5	Wheels, number front/rear (x = driven wheels)	1 x / 2				
	3.7	Tread, rear <sup>(3)</sup>	b <sub>11</sub> (mm)	686			
<b>DIMENSIONS</b>	4.2	Height, mast lowered	h <sub>1</sub> (mm)	-	1360	-	1360
	4.5	Height, mast extended	h <sub>4</sub> (mm)	-	2190	-	2190
	4.8	Seat height relating to SIP/stand height	h <sub>7</sub> (mm)	152			
	4.9	Height drawbar in driving position min./max.	h <sub>14</sub> (mm)	1317			
	4.12	Coupling height	h <sub>10</sub> (mm)	365			
	4.14	Stand height, elevated	h <sub>12</sub> (mm)	-	980	-	980
	4.17	Overhang	l <sub>5</sub> (mm)	135	205	135	205
	4.19	Overall length	l <sub>1</sub> (mm)	1569 <sup>(1)</sup>	1639 <sup>(1)</sup>	1569 <sup>(1)</sup>	1639 <sup>(1)</sup>
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	796			
	4.32	Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	50			
4.35	Turning radius	W <sub>a</sub> (mm)	1434 <sup>(1)</sup>				
<b>PERFORMANCE</b>	5.1	Travel speed, laden/unladen	km/h	7 / 13		8.4 / 13	
	5.1.1	Travel speed, laden/unladen, backwards	km/h	- / 8			
	5.2	Lift speed, laden/unladen (Cab)	m/s	-	0.189 / 0.189	-	0.189 / 0.189
	5.3	Lowering speed, laden/unladen (Cab)	m/s	-	0.162 / 0.162	-	0.162 / 0.162
	5.5	Drawbar pull, laden/unladen	N	1000		1336	
	5.6	Max drawbar pull, laden/unladen	N	3000 <sup>(4)</sup>		4500	
	5.8	Max. gradeability, laden/unladen	%	3.4 / 20		3 / 20	
5.10	Service brake	Electromagnetic					
<b>ELECTRIC</b>	6.1	Drive motor, S2 60 min rating	kW	2.6		3	
	6.2	Lift motor S3 15% rating	kW	-	2	-	
	6.3	Battery according to DIN 43531/35/36 A,B,C, no	No				
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	24 / 620 <sup>(1)</sup>			
	6.5	Battery weight <sup>(2)</sup>	kg	480			
	6.6	Energy consumption according to VDI cycle <sup>(5)</sup>	kWh/h @ no. of cycles	1.82		2.37	
8.1	Type of drive unit	AC-Controller					
10.7	Sound pressure level at the driver's seat	dB (A)	< 65	< 67.5	< 65	< 67.5	

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

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

(3) With forks "CHEP long" e = 223mm, b<sub>11</sub> = 447mm

(4) With drive wheel in tophane: 3200N

(5) Values obtained with 40 cycles

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



# About Yale®

Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

Yale Lift Truck Technologies is a trading name of Hyster-Yale Asia-Pacific Pty Ltd., a wholly owned subsidiary of Hyster-Yale Materials Handling, Inc.(NYSE:HY) which is headquartered in Cleveland, Ohio and operates globally.

## MATERIALS HANDLING FOR:

3PL

Auto Parts

Beverage

Cold & Frozen Foods

Food Distribution

Food Processing

Furniture & Furnishings

Health & Pharma

Home Centres


Retail

E-Commerce

Yale Lift Truck Technologies | Pacific  
1/23 Rowood Road  
Prospect NSW 2148

Yale Lift Truck Technologies | Asia  
16 Tuas Avenue 20  
Singapore 638827

**[yale.com](http://yale.com)**

© 2023 Hyster-Yale Group, Inc., all rights reserved. YALE and  are trademarks of Hyster-Yale Group, Inc. Trucks may be shown with optional equipment and/or features not available in all regions. Specifications and details in this brochure are subject to change without prior notification.