Yale®
LIFT TRUCK TECHNOLOGIES

MO50-70T

5,000 - 7,000 kg

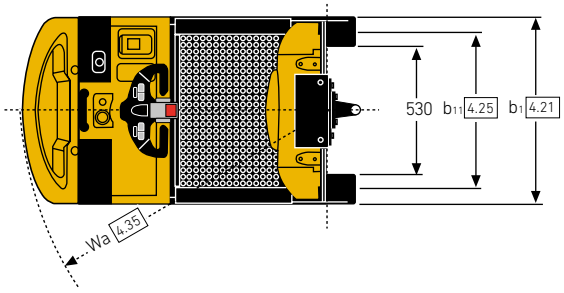
MOT Series

Tow Tractor

SPEC SHEET

TRUCK DIMENSIONS – MOT SERIES

MO50T/MO70T

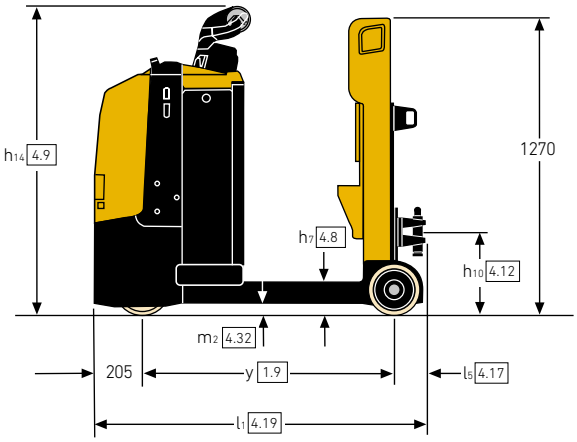


$$Ast = Wa + R + a$$

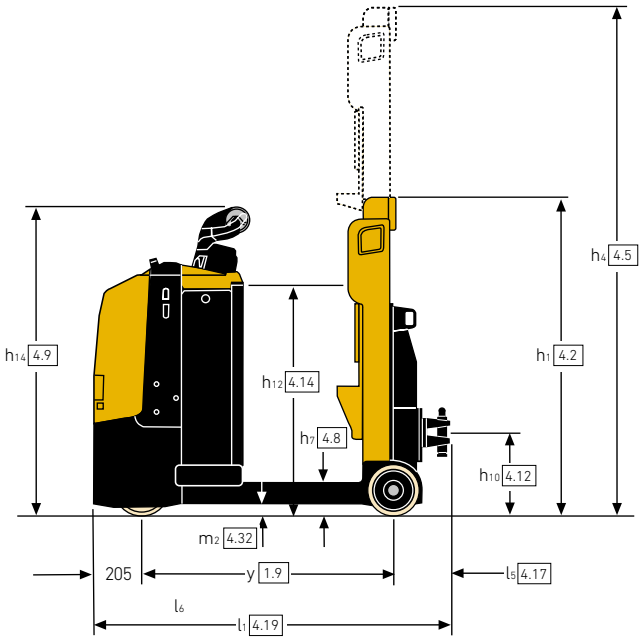
$$Ast = Wa + \sqrt{(l_6 - x)^2 + (b_{12} / 2)^2} + a$$

a = 200mm

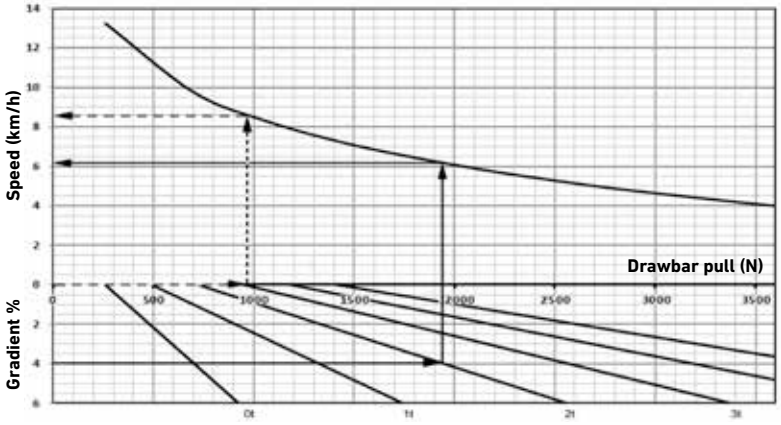
MO50T



MO70T



PERFORMANCE – MO50T



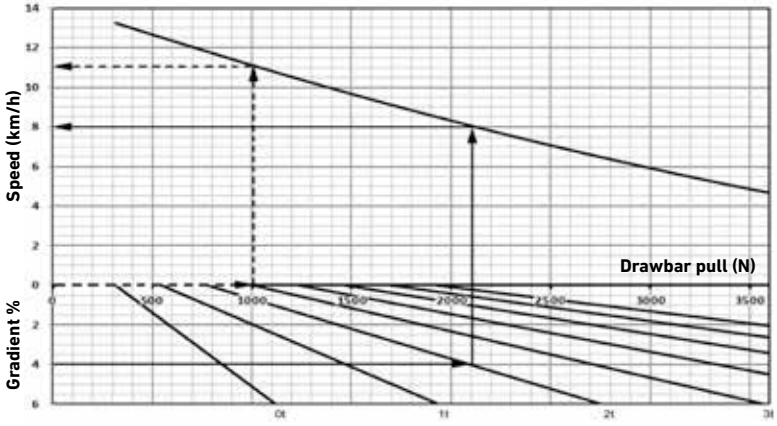
How to read the diagram

Dashed line: The MO50T 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 MO50T 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 MO50T over 1000N. The utilisation of braked trailers is recommended for up/down gradients of more than 4%.

PERFORMANCE – MO70T



How to read the diagram

Dashed line: The MO70T 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 MO70T 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 MO70T over 1336N. The utilisation of braked trailers is recommended for up/down gradients of more than 4%.

VDI 2198 – GENERAL SPECIFICATIONS – MOT SERIES

GENERAL	1.1	Manufacturer		Yale			
	1.2	Model designition		**MO50T**		**MO70T**	
	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 (1)			
WEIGHT	2.1	Service weight (2)	kg	1136 (1)	1280 (1)	1236	1380
	2.3	Axle loading, unladen front/rear	kg	699 / 437	665 / 615	694 / 542	660 / 720
TYRES	3.1	Tyres front/rear		Vulkollan / Polyurethane		Topthane / 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 (3)	b_{11} (mm)	686			
DIMENSIONS	4.2	Height, mast lowered	h_1 (mm)	-	1360	-	1360
	4.5	Height, mast extended	h_4 (mm)	-	2190	-	2190
	4.8	Seat height relating to SIP/stand height	h_7 (mm)	152			
	4.9	Height drawbar in driving position min./max.	h_{14} (mm)	1317			
	4.12	Coupling height	h_{10} (mm)	365			
	4.14	Stand height, elevated	h_{12} (mm)	-	980	-	980
	4.17	Overhang	l_5 (mm)	135	205	135	205
	4.19	Overall length	l_1 (mm)	1569 (1)	1639 (1)	1569 (1)	1639 (1)
	4.21	Overall width	b_1/b_2 (mm)	796			
	4.32	Ground clearance, center of wheelbase	m_2 (mm)	50			
	4.35	Turning radius	Wa (mm)	1434 (1)			
PERFORMANCE	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 (4)		4500	
	5.8	Max. gradeability, laden/unladen	%	3.4 / 20		3 / 20	
	5.10	Service brake		Electromagnetic			
ELECTRIC	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 (1)			
	6.5	Battery weight (2)	kg	480			
	6.6	Energy consumption according to VDI cycle (5)	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_{11} = 447mm

(4) With drive wheel in topthane: 3200N

(5) Values obtained with 40 cycles

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

About Yale®

Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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