



M050-70T

SPEC SHEET

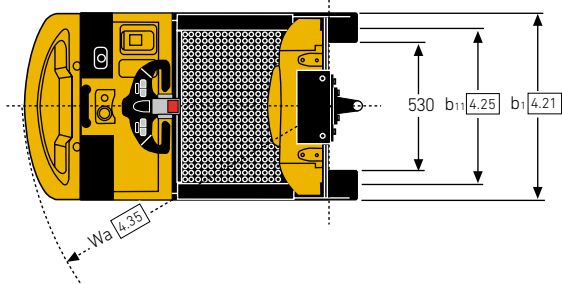
5,000 - 7,000 kg

MOT Series

Tow Tractor

TRUCK DIMENSIONS – MOT SERIES

M050T/M070T

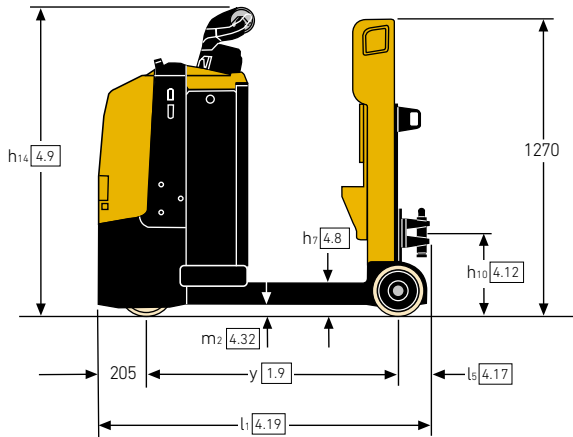


$$A_{st} = Wa + R + a$$

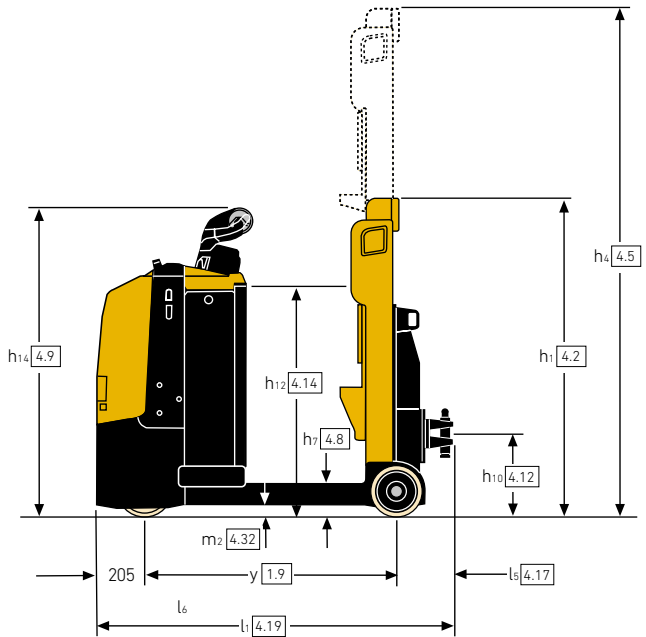
$$A_{st} = Wa + \sqrt{(l_6 - x)^2 + (b_{12} / 2)^2} + a$$

a = 200mm

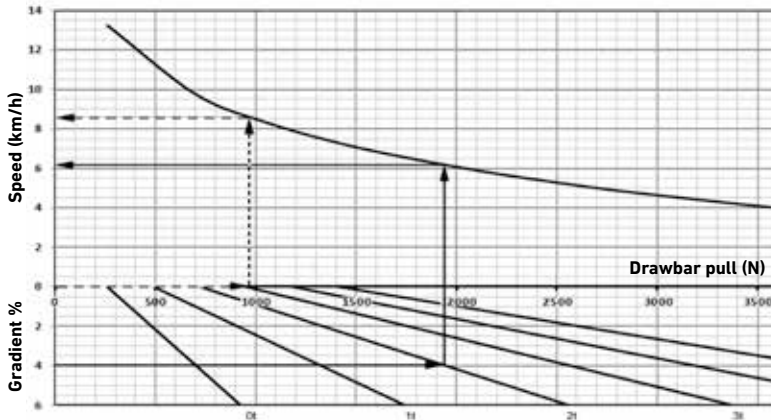
M050T



M070T



PERFORMANCE – M050T



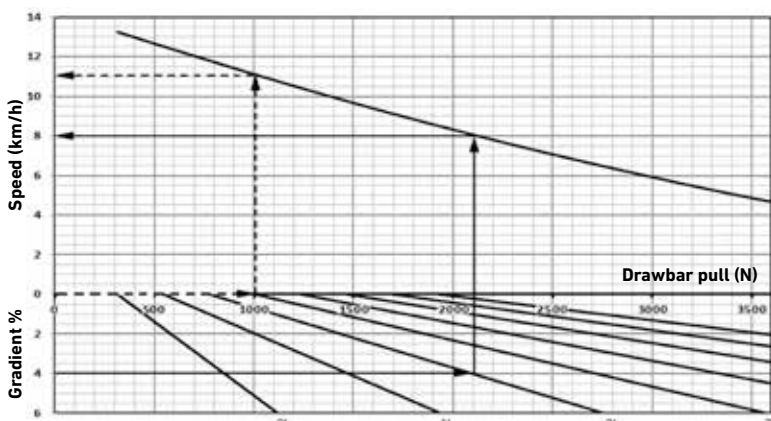
How to read the diagram

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		
GENERAL	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 ⁽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		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 ⁽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	W _a (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, b₁₁ = 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.



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Publication part no. 220991596 Rev.00 (0323DMS) EN