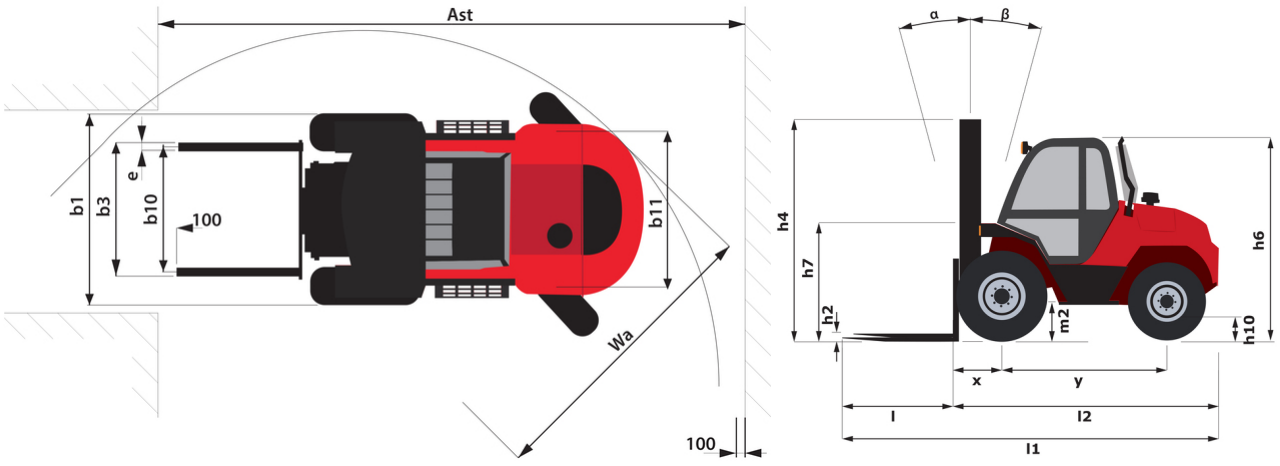
Technical sheet :

M 30-4

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		M 30-4	M 30-4
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	3000 kg	6614 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	747 mm	29 in
1.9	Wheelbase	y	1995 mm	79 in
	Weight			
2.1	Service weight		6020 kg	13272 lb
2.2	Weight on front axle (laden) / rear axle (laden)		7515 kg / 1505 kg	16568 lb / 3318 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2365 kg / 3655 kg	5214 lb / 8058 lb
	Wheels			
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		400/70-20 150B T37	400/70-20 150B T37
3.3	Dimensions of rear wheels		10,5/80-18 10PR A317TL	10,5/80-18 10PR A317TL
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		4	4
3.6	Front wheel gauge	b10	1520 mm	60 in
3.7	Rear wheel gauge	b11	1630 mm	64 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2496 mm	98 in
4.8	Seat height/stand height	h7	1473 mm	58 in
4.19	Overall length	l1	4701 mm	185 in
4.20	Length to face of forks	l2	3501 mm	138 in
4.21	Overall width	b1	1924 mm	76 in
4.22	Forks section x width	s / e	40 mm x 125 mm	2 in x 5 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A	3A
4.24	Fork carriage width	b3	1470 mm	58 in
4.31	Ground clearance below mast	m1	450 mm	18 in
4.32	Ground clearance at centre of wheelbase	m2	440 mm	17 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6180 mm	243 in
4.35	Turning radius	Wa	4030 mm	159 in
	Performances			
5.1	Travel speed (laden / unladen)		10 km/h / 22 km/h	6 mph / 14 mph
5.2.1	Lifting speed (unladen)		0.30 m/s	0.98 ft/s
5.3.1	Lowering speed (unladen)		0.40 m/s	1 ft/s
5.5	Drawbar pull (Laden / Unladen)		6290 daN / 4250 daN	6290 daN / 4250 daN
5.7	Gradeability (laden / unladen)		14 % / 21 %	14 % / 21 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.1	Engine brand / model		Perkins / 854F-E34T	Perkins / 854F-E34T
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.3	Rated speed		2200 rpm	2200 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 3400 cm³	4 - 207 in³
	Miscellaneous			
8.2	Working hydraulic pressure for attachments		185 bar	2683 PSI
8.3	Oil flow rate for attachments		97 l/min	26 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		76 dB	76 dB

M 30-4 - Dimensional drawing



Characteristics of masts and residual capacities

-		FVD 45
Mast/fork carriage tilt, forward	°	6
Mast/fork carriage tilt, backward	°	12
h1 - Mast lowered height	in (mm)	127 (3225)
h2 - Mast free lift	in (mm)	12.2 (310)
h3 - Mast lifting height	in (mm)	177.2 (4500)
h4 - Mast extended height	in (mm)	221.1 (5615)
Height at max capacity	in (mm)	98.4 (2500)

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 50	FVD 55
Mast/fork carriage tilt, forward	°	6	6	6	6	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12
h1 - Mast lowered height	in (mm)	93.5 (2375)	99.4 (2525)	103.3 (2625)	109.6 (2785)	117.1 (2975)	136.8 (3475)	146.7 (3725)
h2 - Mast free lift	in (mm)	12.2 (310)	5.1 (130)	12.2 (310)	12.2 (310)	12.2 (310)	12.2 (310)	12.2 (310)
h4 - Mast extended height	in (mm)	162 (4115)	173.8 (4415)	181.7 (4615)	189.6 (4815)	201.4 (5115)	240.7 (6115)	260.4 (6615)
Residual capacity at max height	lb (kg)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)		
Residual capacity with integrated side shift at max heigth	lb (kg)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)	6614 (3000)		
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

Free Lift Triplex (FLT)		FLT 40	FLT 43	FLT 47	FLT 50	FLT 55	FLT 60	FLT 65	FLT 70
Mast/fork carriage tilt, forward	°	6	6	6	6	6	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12	12
h1 - Mast lowered height	in (mm)	93.5 (2375)	99.4 (2525)	103.3 (2625)	109.6 (2785)	117.1 (2975)	127 (3225)	136.8 (3475)	146.7 (3725)
h2 - Mast free lift	in (mm)	54.4 (1383)	60.4 (1533)	0.10 (1.63)	70.6 (1793)	78.1 (1983)	87.9 (2233)	97.8 (2483)	107.6 (2733)
h4 - Mast extended height	in (mm)	198.1 (5032)	209.9 (5332)	225.7 (5732)	237.5 (6032)	257.2 (6532)	276.9 (7032)	296.5 (7532)	316.2 (8032)
Residual capacity at max height	lb (kg)	6614 (3000)	6614 (3000)	6173 (2800)	5732 (2600)	4409 (2000)	3968 (1800)	2976 (1350)	2205 (1000)
Residual capacity with integrated side shift at max heigth	lb (kg)	6614 (3000)							
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)

Full Visibility Triplex (FVT)		FLT 37	FVT 55	FVT 67
Mast/fork carriage tilt, forward	°	6	6	6
Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	in (mm)	89.6 (2275)	120.3 (3055)	136 (3455)
h2 - Mast free lift	in (mm)	50.5 (1283)		
h4 - Mast extended height	in (mm)	186.3 (4732)	264.8 (6725)	312 (7925)
Residual capacity at max height	lb (kg)	6614 (3000)	2756 (1250)	
Residual capacity with integrated side shift at max heigth	lb (kg)	6614 (3000)		
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)

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