

Technical sheet :

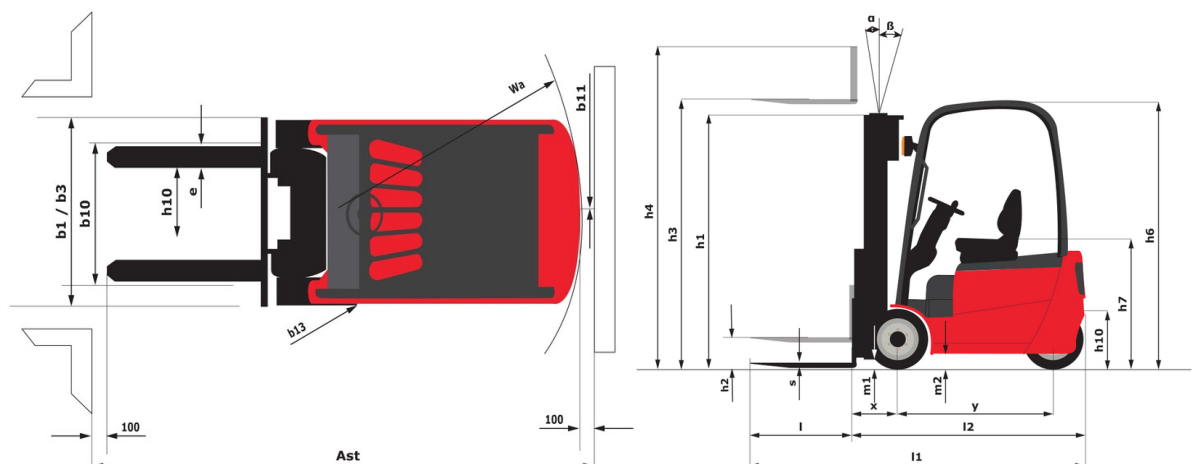
ME 418



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		ME 418	ME 418
1.3	Power source		Electrical	Electrical
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1800 kg	3968 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	411 mm	16 in
1.9	Wheelbase	y	1380 mm	54 in
Weight				
2.1	Service weight		3070 kg	6768 lb
2.2	Weight on front axle (laden) / rear axle (laden)		4350 kg / 520 kg	9590 lb / 1146 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1400 kg / 1670 kg	3086 lb / 3682 lb
Wheels				
3.1	Tires type		Solid tires	Solid tires
3.2	Dimensions of front wheels		21 x 8-9	21 x 8-9
3.3	Dimensions of rear wheels		5.00-8	5.00-8
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	938 mm	37 in
3.7	Rear wheel gauge	b11	898 mm	35 in
Dimensions				
4.7	Height of overhead guard (cabin)	h6	2130 mm	84 in
4.8	Seat height/stand height	h7	1045 mm	41 in
4.12	Height of towing bar (coupling height)	h10	275 mm	11 in
4.19	Overall length	l1	3248 mm	128 in
4.20	Length to face of forks	l2	2098 mm	83 in
4.21	Overall width	b1	1138 mm	45 in
4.22	Forks section / width / length	s / e / l	100 mm x 1150 mm x 35 mm	4 in x 45 in x 1 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A	2A
4.24	Fork carriage width	b3	1000 mm	39 in
4.31	Ground clearance below mast	m1	100 mm	4 in
4.32	Ground clearance at centre of wheelbase	m2	110 mm	4 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3511 mm	138 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3711 mm	146 in
4.35	Turning radius	Wa	1900 mm	75 in
4.36	Internal turning radius (over tyres)	b13	680 mm	27 in
Performances				
5.1	Travel speed (laden / unladen)		13.50 km/h-14 km/h	8 mph-9 mph
5.2	Lifting speed (laden / unladen)		0.29 m/s-0.44 m/s	0.95 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		0.49 m/s-0.48 m/s	2 ft/s-2 ft/s
5.5	Drawbar pull (Laden / Unladen)		1200 daN / 1100 daN	1200 daN / 1100 daN
5.7	Gradeability (laden / unladen)		12 % / 13 %	12 % / 13 %
5.10	Service brake		Hydraulic	Hydraulic
Engine				
6.1	Drive motor rating S2 60 min		8 kW	8 kW
6.2	Lift motor rating at S3 15%		8.60 kW	8.60 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 A	DIN43531 A
6.4	Battery voltage / capacity		48 V / 465 Ah	48 V / 465 Ah
6.6	Energy consumption according to VDI cycle (kWh/h)		4.60 kWh/h	4.60 kWh/h
Miscellaneous				
8.1	Type of drive control		Electronic	Electronic
8.2	Working hydraulic pressure for attachments		175 bar	2538 PSI
8.3	Oil flow rate for attachments		35 l/min	9 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 71 dB	< 71 dB
8.4	Sound level at the driver's ear according to DIN 12 053		71 dB	71 dB

ME 418 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 27	FVD 30	FVD 33	FVD 36	FVD 40	FVD 43	FVD 45
α - Mast/fork carriage tilt, forward	°	5	5	5	5	5	5	5
β - Mast/fork carriage tilt, backward	°	6	10	10	10	10	6	6
h1 - Mast lowered height	in (mm)	71.9 (1825)	77.8 (1975)	83.7 (2125)	91.5 (2325)	101.4 (2575)	107.3 (2725)	111.2 (2825)
h2 - Mast free lift	in (mm)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)	5.7 (145)
h3 - Mast lifting height	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	169.3 (4300)	177.2 (4500)
h4 - Mast extended height	in (mm)	128.5 (3265)	140.4 (3565)	152.2 (3865)	164 (4165)	179.7 (4565)	191.5 (4865)	199.4 (5065)
Residual capacity at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)	3968 (1800)	3968 (1800)	3748 (1700)	3638 (1650)
Residual capacity with integrated side shift at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)	3968 (1800)	3858 (1750)	3638 (1650)	3527 (1600)
Residual capacity with hooked-on side shift at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)	3748 (1700)	3638 (1650)	3417 (1550)	3307 (1500)
Height at max capacity	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)	169.3 (4300)	177.2 (4500)
Height at max capacity with integrated sideshift	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)		

Free Lift Duplex (FLD)		FLD 27	FLD 30	FLD 33	FLD 36	FLD 40
α - Mast/fork carriage tilt, forward	°	5	5	5	5	5
β - Mast/fork carriage tilt, backward	°	6	10	10	10	10
h1 - Mast lowered height	in (mm)	71.9 (1825)	77.8 (1975)	83.7 (2125)	89.6 (2275)	99.4 (2525)
h2 - Mast free lift	in (mm)	48.8 (1240)	54.7 (1390)	60.6 (1540)	66.5 (1690)	76.4 (1940)
h3 - Mast lifting height	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
h4 - Mast extended height	in (mm)	129.7 (3295)	141.5 (3595)	153.3 (3895)	165.2 (4195)	180.9 (4595)
Residual capacity at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)	3968 (1800)	3968 (1800)
Residual capacity with integrated side shift at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)	3968 (1800)	3858 (1750)
Residual capacity with hooked-on side shift at max height	lb (kg)	3968 (1800)	3968 (1800)	3968 (1800)	3748 (1700)	3638 (1650)
Height at max capacity	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	106.3 (2700)	118.1 (3000)	129.9 (3300)	141.7 (3600)	157.5 (4000)

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