

Technical book

ME POP Range

1,5 to 3 tons

Electric trucks



 **MANITOU**

1500 - 1600 kg - 3 wheels - 48V

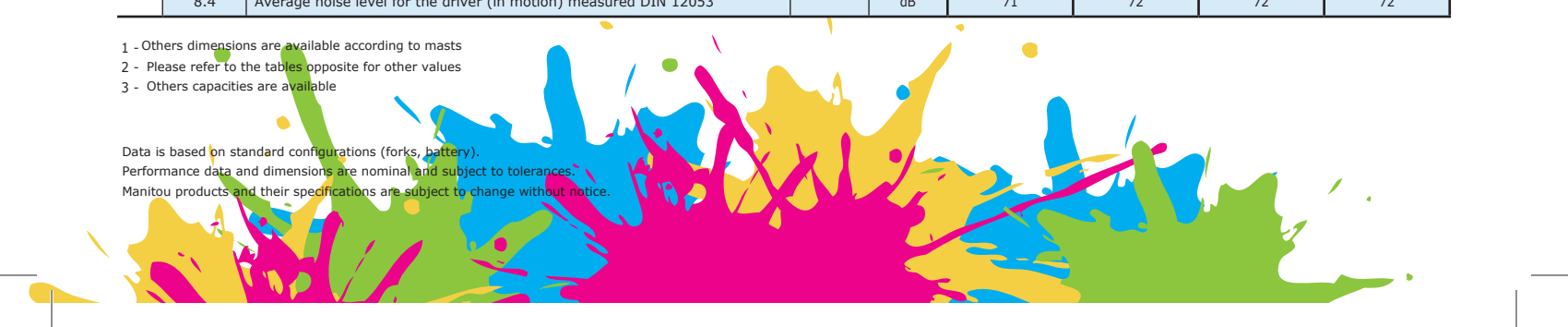


TECHNICAL SPECS

					MANITOU	MANITOU	MANITOU	MANITOU
Specifications	1.1	Manufacturer			MANITOU	MANITOU	MANITOU	MANITOU
	1.2	Model			ME315	ME316	ME318	ME320
	1.3	Power source			Electric	Electric	Electric	Electric
	1.4	Driving position			Seated	Seated	Seated	Seated
	1.5	Nominal capacity	Q	t	1,5	1,6	1,8	2,0
	1.6	Load - centre of gravity	c	mm	500	500	500	500
	1.8	Distance from the load-bearing surface to centre of front axle with TDLI	x	mm	400 ¹⁾	400 ¹⁾	400 ¹⁾	400 ¹⁾
	1.9	Wheelbase	y	mm	1250	1358	1358	1465
Weight	2.1	Operating weight		kg	3050	3070	3090	3440
	2.2	Axle load, with load, front / rear		kg	3993/557	4155/515	4305/585	4893/547
	2.3	Axle load, without load, front / rear		kg	1400/1650	1565/1505	1668/1422	1662/1778
Tyres, frame	3.1	Tyre equipment: cushion (V), superelastic (SE), pneumatic (L)			SE	SE	SE	SE
	3.2	Size of front wheels		" ou mm	18 x 7 - 8	18 x 7 - 8	18 x 7 - 8	200/50-10
	3.3	Size of rear wheels		" ou mm	15 x 4,5 - 8	15 x 4,5 - 8	15 x 4,5 - 8	15 x 4,5 - 8
	3.5	Number of front wheels (x = drive wheel) / rear wheels			2x/2	2x/2	2x/2	2x/2
	3.6	Front wheel gauge (middle of wheels)	b10	mm	902	902	902	902
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	175	175	175	175
Dimensions	4.1	Tilt of mast forwards / backwards	α / β	deg	6,5/6,5	6,5/6,5	6,5/6,5	6,5/6,5
	4.2	Height mast lowered	h1	mm	1995	1995	1995	1995
	4.3	Free lift	h2	mm	145	145	145	145
	4.4	Lift height	h3	mm	3000 ²⁾	3000 ²⁾	3000 ²⁾	3000 ²⁾
	4.5	Height mast extended	h4	mm	3565	3565	3565	3565
	4.7	Height of overhead guard (cabin)	h6	mm	2020	2020	2020	2020
	4.12	Height of towing bar	h10	mm	473	473	473	473
	4.19	Overall length	l1	mm	2862	2970	2970	3082
	4.20	Lenght at fork heels	l2	mm	1792	1900	1900	2012
	4.21	Total width (overall)	b1	mm	1060	1060	1060	1060
	4.22	Fork dimensions	s / e / l	mm	35 / 100 / 1070	35 / 100 / 1070	35 / 100 / 1070	40 / 100 / 1070
	4.23	Fork carriage to DIN 15173 A/B			FEM2A	FEM2A	FEM2A	FEM2A
	4.24	Width of fork carriage (with load backrest)	b3	mm	1000	1000	1000	1000
	4.31	Ground clearance below mast	m1	mm	100	100	100	100
	4.32	Ground clearance at centre of wheel-base	m2	mm	90	90	90	90
	4.33	Width of aisle for pallet 1000 x 1200 width	Ast	mm	3161	3271	3271	3380
	4.34	Width of aisle for pallet 800 x 1200 lenght	Ast	mm	3260	3370	3370	3480
4.35	Turning radius	Wa	mm	1440	1550	1550	1658	
4.36	Inner turning radius	b13	mm	0	0	0	0	
Performances	5.1	Speed of travel laden / unladen		km/h	13 / 14	13 / 14	12,5/14	12,5/14
	5.2	Speed of raise laden / unladen		m/s	0.29 / 0.44	0.28 / 0.44	0,27/0,43	0,25/0,4
	5.3	Speed of lowering laden / unladen		m/s	0,43/0,42	0,44/0,43	0,45/0,43	0,47/0,46
	5.5	Nominal towing power laden / unladen		N	7000/7250	7500/7720	8000/8300	9000/9300
	5.7	Gradeability with / without load		%	14/15	13/14	13/14	11/12
	5.10	Service brake			Wet disk brake	Wet disk brake	Wet disk brake	Wet disk brake
Engines	6.1	Drive motor, 60 minute rating		kW	2 x 4.5	2 x 4.5	2 x 4.5	2 x 4.5
	6.2	Lift motor rating at 10%		kW	8.6	8.6	8.6	8.6
	6.3	Battery according to DIN 43531/35/36 A,B,C,no			DIN 45531 A	DIN 45531 A	DIN 45531 A	DIN 45531 A
	6.4	Battery voltage/rated capacity (5h)		V / Ah	48 / 460 ³⁾	48 / 575 ³⁾	48 / 625 ³⁾	48 / 690 ³⁾
Divers	8.1	Power control			Electronic	Electronic	Electronic	Electronic
	8.2	Operating pressure for attachments		bar	145	145	145	145
	8.3	Oil flow for attachments		l/min	65	65	65	65
	8.4	Average noise level for the driver (in motion) measured DIN 12053		dB	71	72	72	72

- 1 - Others dimensions are available according to masts
- 2 - Please refer to the tables opposite for other values
- 3 - Others capacities are available

Data is based on standard configurations (forks, battery).
Performance data and dimensions are nominal and subject to tolerances.
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1800 - 2000 kg - 4 wheels - 48V



TECHNICAL SPECS

				MANITOU			
				MANITOU	MANITOU	MANITOU	
Specifications	1.1	Manufacturer			MANITOU	MANITOU	MANITOU
	1.2	Model			ME418	ME420	ME425 C
	1.3	Power source			Electric	Electric	Electric
	1.4	Driving position			Seated	Seated	Seated
	1.5	Nominal capacity	Q	t	1,8	2	2,5
	1.6	Load - centre of gravity	c	mm	500	500	500
	1.8	Distance from the load-bearing surface to centre of front axle with TDLI	x	mm	406 ¹⁾	448 ¹⁾	448 ¹⁾
	1.9	Wheelbase	y	mm	1380	1485	1485
	Weight	2.1	Operating weight		kg	3620	3860
2.2		Axle load, with load, front / rear		kg	4766/654	5157/703	6044/696
2.3		Axle load, without load, front / rear		kg	1933/1687	1698/2162	1917/2323
Tyres, frame	3.1	Tyre equipment: cushion (V), superelastic (SE), pneumatic (L)			SE	SE	SE
	3.2	Size of front wheels		" ou mm	21x 8-9	23x 9-10	23x 9-10
	3.3	Size of rear wheels		" ou mm	5.00-8	18x 7-8	18x 7-8
	3.5	Number of front wheels (x = drive wheel) / rear wheels			2x/2	2x/2	2x/2
	3.6	Front wheel gauge (middle of wheels)	b10	mm	938	1058	1058
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	897	960	960
	Dimensions	4.1	Tilt of mast forwards / backwards	α / β	deg	5/10	5/10
4.2		Height mast lowered	h1	mm	1975	2005	2005
4.3		Free lift	h2	mm	145	140	140
4.4		Lift height	h3	mm	3000 ²⁾	3000 ²⁾	3000 ²⁾
4.5		Height mast extended	h4	mm	3565	3650	3650
4.7		Height of overhead guard (cabin)	h6	mm	2145	2170	2170
4.12		Height of towing bar	h10	mm	275	303	303
4.19		Overall length	l1	mm	3185	3345	3475
4.20		Lenght at fork heels	l2	mm	2115	2275	2325
4.21		Total width (overall)	b1	mm	1138	1265	1265
4.22		Fork dimensions	s / e / l	mm	35x100x1070	40x100x1070	40x122x1150
4.23		Fork carriage to DIN 15173 A/B			FEM2A	FEM2A	FEM2A
4.24		Width of fork carriage (with load backrest)	b3	mm	1000	1038	1038
4.31		Ground clearance below mast	m1	mm	81	91	91
4.32		Ground clearance at centre of wheel-base	m2	mm	110	120	120
4.33		Width of aisle for pallet 1000 x 1200 width	Ast	mm	3591	3720	3911
4.34		Width of aisle for pallet 800 x 1200 lenght	Ast	mm	3690	3820	4010
4.35		Turning radius	Wa	mm	1815	2040	2090
4.36		Inner turning radius	b13	mm	111	98	98
Performances	5.1	Speed of travel laden / unladen		km/h	13/14	13/14	12,5/14
	5.2	Speed of raise laden / unladen		m/s	0,29/0,41	0,29/0,42	0,28/0,43
	5.3	Speed of lowering laden / unladen		m/s	0,47/0,43	0,47/0,44	0,42/0,43
	5.5	Nominal towing power laden / unladen		N	9500/11000	12000/12500	16000/17000
	5.7	Gradeability with / without load		%	13/14	13/14	13/14
	5.10	Service brake			Drum	Drum	Drum
Engines	6.1	Drive motor, 60 minute rating		kW	6,8	9,1	9,1
	6.2	Lift motor rating at 10%		kW	8,6	8,6	8,6
	6.3	Battery according to DIN 43531/35/36 A,B,C,no			DIN 45531 A	DIN 45531 B	DIN 45531 B
	6.4	Battery voltage/rated capacity (5h)		V / Ah	48/420 ³⁾	48/700 ³⁾	48/700 ³⁾
Divers	8.1	Power control			Electronic	Electronic	Electronic
	8.2	Operating pressure for attachments		bar	145	175	175
	8.3	Oil flow for attachments		l/min	65	65	65
	8.4	Average noise level for the driver (in motion) measured DIN 12053		dB	71	71	72

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- 2 - Please refer to the tables opposite for other values
- 3 - Others capacities are available

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2500 - 3000 kg - 4 wheels - 80V



TECHNICAL SPECS

				MANITOU	MANITOU	
Specifications	1.1	Manufacturer			MANITOU	
	1.2	Model			ME425	
	1.3	Power source			Electric	
	1.4	Driving position			Seated	
	1.5	Nominal capacity	Q	t	2,5	3,0
	1.6	Load - centre of gravity	c	mm	500	500
	1.8	Distance from the load-bearing surface to centre of front axle with TDLI	x	mm	483 ¹⁾	507 ¹⁾
	1.9	Wheelbase	y	mm	1625	1625
	Weight	2.1	Operating weight		kg	4440
2.2		Axle load, with load, front / rear		kg	6185/755	7160/890
2.3		Axle load, without load, front / rear		kg	2070/2370	2424/2626
Tyres, frame	3.1	Tyre equipment: cushion (V), superelastic (SE), pneumatic (L)			SE	SE
	3.2	Size of front wheels		" ou mm	23x 9-10	23x 9-10
	3.3	Size of rear wheels		" ou mm	18x 7-8	18x 7-8
	3.5	Number of front wheels (x = drive wheel) / rear wheels			2x/2	2x/2
	3.6	Front wheel gauge (middle of wheels)	b10	mm	1058	1058
	3.7	Rear wheel gauge (middle of wheels)	b11	mm	960	960
	Dimensions	4.1	Tilt of mast forwards / backwards	α / β	deg	5/10
4.2		Height mast lowered	h1	mm	2005	2035
4.3		Free lift	h2	mm	140	145
4.4		Lift height	h3	mm	3000 ²⁾	3000 ²⁾
4.5		Height mast extended	h4	mm	3650	3715
4.7		Height of overhead guard (cabin)	h6	mm	2170	2170
4.12		Height of towing bar	h10	mm	303	303
4.19		Overall length	l1	mm	3615	3640
4.20		Lenght at fork heels	l2	mm	2465	2490
4.21		Total width (overall)	b1	mm	1265	1265
4.22		Fork dimensions	s / e / l	mm	40x122x1150	45x122x1150
4.23		Fork carriage to DIN 15173 A/B			FEM2A	FEM3A
4.24		Width of fork carriage (with load backrest)	b3	mm	1038	1100
4.31		Ground clearance below mast	m1	mm	91	91
4.32		Ground clearance at centre of wheel-base	m2	mm	120	125
4.33		Width of aisle for pallet 1000 x 1200 width	Ast	mm	4010	4071
4.34		Width of aisle for pallet 800 x 1200 lenght	Ast	mm	4135	4170
4.35		Turning radius	Wa	mm	2230	2230
4.36		Inner turning radius	b13	mm	98	98
Performances		5.1	Speed of travel laden / unladen		km/h	13/14,5
	5.2	Speed of raise laden / unladen		m/s	0,28/0,44	0,26/0,38
	5.3	Speed of lowering laden / unladen		m/s	0,42/0,43	0,46/0,42
	5.5	Nominal towing power laden / unladen		N	20000/21000	20000/21000
	5.7	Gradeability with / without load		%	13/14	13/14
	5.10	Service brake			Drum	Drum
Engines	6.1	Drive motor, 60 minute rating		kW	11,75	11,75
	6.2	Lift motor rating at 10%		kW	11	11
	6.3	Battery according to DIN 43531/35/36 A,B,C,no			DIN 43536 A	DIN 43536 A
	6.4	Battery voltage/rated capacity (5h)		V / Ah	80/560 ³⁾	80/560 ³⁾
Divers	8.1	Power control			Electronic	Electronic
	8.2	Operating pressure for attachments		bar	175	175
	8.3	Oil flow for attachments		l/min	65	65
	8.4	Average noise level for the driver (in motion) measured DIN 12053		dB	72	73

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Your nearest MANITOU dealer :



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