

Technical sheet :

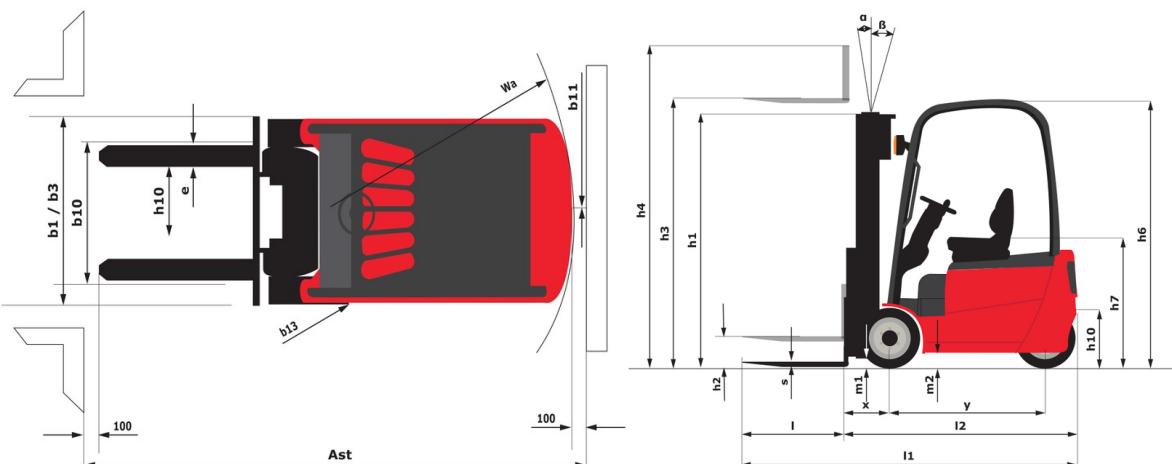
ME 425C US



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Imperial	
1.1	Manufacturer	Manitou	
1.2	Model Name	ME 425C US	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Seated	
1.5	Max. capacity	5512 lb	
1.6	Load center of gravity	20 in	
1.8	Load distance, centre of drive axle to fork	18 in	
1.9	Wheelbase	58 in	
Weight		9480 lb	
2.1	Service weight	13360 lb / 1631 lb	
2.2	Weight on front axle (laden) / rear axle (laden)	4321 lb / 5159 lb	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		
Wheels		Solid tires	
3.1	Tires type	23 x 9-10	
3.2	Dimensions of front wheels	18 x 7-8	
3.3	Dimensions of rear wheels	2 / 2	
3.5	Number of front wheels / rear wheels	2	
3.5.2	Number of drive wheels		
3.6	Front wheel gauge	b10	42 in
3.7	Rear wheel gauge	b11	38 in
Dimensions		h7	
4.8	Seat height/stand height	42 in	
4.7	Height of overhead guard (cabin)	85 in	
4.12	Height of towing bar (coupling height)	12 in	
4.19	Overall length	137 in	
4.20	Length to face of forks	92 in	
4.21	Overall width	50 in	
4.22	Forks section / width / length	5 in x 45 in x 2 in	
4.23	Fork carriage ISO 2328 (class/form) A/B	2A	
4.24	Fork carriage width	41 in	
4.31	Ground clearance below mast	4 in	
4.32	Ground clearance at centre of wheelbase	5 in	
4.33	Aisle Width for pallets 1000 x 1200 crossways	147 in	
4.34	Aisle width for 800 x 1200 pallet lengthways	155 in	
4.35	Turning radius	82 in	
4.36	Internal turning radius (over tyres)	29 in	
Performances		b13	
5.1	Travel speed (laden / unladen)	9 mph-9 mph	
5.2	Lifting speed (laden / unladen)	0.75 ft/s-1 ft/s	
5.3	Lowering speed (laden / unladen)	1 ft/s-0.72 ft/s	
5.5	Drawbar pull (Laden / Unladen)	1800 daN / 1700 daN	
5.7	Gradeability (laden / unladen)	11 % / 12 %	
5.10	Service brake	Hydraulic	
Engine		11 kW	
6.1	Drive motor rating S2 60 min	8.60 kW	
6.2	Lift motor rating at S3 15%		
6.3	Battery according to DIN 43531/35/36 A, B, C	DIN43531 B	
6.4	Battery voltage / capacity	48 V / 700 Ah	
6.6	Energy consumption according to VDI cycle (kWh/h)	5.80 kWh/h	
Miscellaneous		b13	
8.1	Type of drive control	Electronic	
8.2	Working hydraulic pressure for attachments	2538 PSI	
8.3	Oil flow rate for attachments	9 US gpm	
8.4	Measured/guaranteed mean noise level at the ear of the operator	72 dB	
8.4	Sound level at the driver's ear according to DIN 12 053	72 dB	

ME 425C US - 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
β - Mast/fork carriage tilt, backward	°	6	10	10	10	6	6
h1 - Mast lowered height	in	73	78.9	85.4	90.7	100.6	107.5
h2 - Mast free lift	in	5.5	5.5	5.5	5.5	5.5	5.5
h3 - Mast lifting height	in	106.3	118.1	129.9	141.7	157.5	169.3
h4 - Mast extended height	in	131.9	143.7	156.7	167.3	183.1	195.7
Residual capacity at max height	lb	5512	5512	5512	5512	5512	5401
Residual capacity with integrated side shift at max height	lb	5512	5512	5512	5512	5401	5291
Residual capacity with hooked-on side shift at max height	lb	5512	5512	5512	5401	5291	5071
Height at max capacity	in	106.3	118.1	129.9	141.7	157.5	169.3
Height at max capacity with integrated sideshift	in	106.3	118.1	129.9	141.7	157.5	157.5

Free Lift Duplex (FLD)	FLD 27	FLD 30	FLD 33	FLD 36	FLD 40
α - Mast/fork carriage tilt, forward	°	5	5	5	5
β - Mast/fork carriage tilt, backward	°	6	10	10	10
h1 - Mast lowered height	in	73.5	78	83.9	89.8
h2 - Mast free lift	in	49.2	53.1	59.1	65
h3 - Mast lifting height	in	106.3	118.1	129.9	141.7
h4 - Mast extended height	in	132.7	143.1	156.3	168.1
Residual capacity at max height	lb	5512	5512	5512	5512
Residual capacity with integrated side shift at max height	lb	5512	5512	5512	5512
Residual capacity with hooked-on side shift at max height	lb	5512	5512	5512	5291
Height at max capacity	in	106.3	118.1	129.9	141.7
Height at max capacity with integrated sideshift	in	106.3	118.1	129.9	141.7

Free Lift Triplex (FLT)	FLT 40	FLT 43	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
α - Mast/fork carriage tilt, forward	°	5	5	5	5	3	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6	6	6
h1 - Mast lowered height	in	75.8	79.7	82.5	86.4	89	95.5	104.1
h2 - Mast free lift	in	49.4	53.3	56.1	60	62.6	69.1	77.8
h3 - Mast lifting height	in	157.5	169.3	177.2	189	196.9	216.5	236.2
h4 - Mast extended height	in	184.3	196.1	205.9	215.7	223.6	203.9	263.4
Residual capacity at max height	lb	5512	5401	5181	4960	4740	4519	3638
Residual capacity with integrated side shift at max height	lb	5401	5401	5071	4850	4630	4409	3527
Residual capacity with hooked-on side shift at max height	lb	5181	5071	4960	4630	4519	4189	3307
Height at max capacity	in	157.5	169.3	157.5	157.5	157.5	157.5	157.5
Height at max capacity with integrated sideshift	in	157.5	169.3	157.5	157.5	157.5	157.5	157.5



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