

Technical sheet :

ME 450



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The image contains two technical drawings of a forklift, labeled 'Ast' at the bottom center. The left drawing is a top-down view, and the right drawing is a side profile view. Both drawings include various dimension lines and labels.

Top View (Left):

- b1 / b3**: Overall width of the forklift body.
- b10**: Width of the mast assembly.
- h10**: Height of the mast from the ground.
- e**: Distance between the two forks.
- Wa**: Angle of the mast relative to the vertical.
- b11**: Width of the rear counterweight.
- b13**: Width of the rear axle assembly.
- 100**: Distance from the front edge of the forklift to the center of the rear axle.

Side View (Right):

- h4**: Total height of the forklift.
- h3**: Height of the mast.
- h1**: Height of the operator's seat.
- h6**: Height of the rear counterweight.
- h7**: Height of the rear axle.
- h10**: Height of the front axle.
- s**: Distance from the front edge of the forklift to the center of the front axle.
- l**: Wheelbase (distance between front and rear axles).
- l1**: Overall length of the forklift.
- l2**: Distance from the front axle to the rear axle.
- m1**: Distance from the front edge of the forklift to the center of the front axle.
- m2**: Distance from the front axle to the rear axle.
- y**: Distance from the rear axle to the rear edge of the forklift.
- h2**: Height of the front axle.
- a**: Angle of the mast relative to the vertical.
- b**: Angle of the mast relative to the vertical.

Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 40	FVD 43	FVD 45	FVD 48	FVD 50
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12	12	6	6	6	6
h1 - Mast lowered height	in (mm)	86 (2185)	91.9 (2335)	95.9 (2435)	107.7 (2735)	114.2 (2900)	118.5 (3010)	125 (3175)	129.3 (3285)
h2 - Mast free lift	in (mm)	5.9 (150)	5.9 (150)	5.9 (150)	5.9 (150)	5.9 (150)	5.9 (150)	5.9 (150)	5.9 (150)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	137.8 (3500)	157.5 (4000)	169.3 (4300)	177.2 (4500)	189 (4800)	196.9 (5000)
h4 - Mast extended height	in (mm)	148.4 (3770)	160.2 (4070)	168.1 (4270)	187.8 (4770)	199.6 (5070)	207.5 (5270)	219.3 (5570)	227.2 (5770)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	10913 (4950)	10803 (4900)	10582 (4800)	10362 (4700)
Residual capacity with integrated side shift at max heigh	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	10803 (4900)	10692 (4850)	10472 (4750)	10251 (4650)
Residual capacity with hooked-on side shift at max height	lb (kg)	10582 (4800)	10582 (4800)	10582 (4800)	10582 (4800)	10362 (4700)	10141 (4600)	9921 (4500)	9700 (4400)
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	137.8 (3500)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	118.1 (3000)	129.9 (3300)	137.8 (3500)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)

Free Lift Duplex (FLD)		FLD 30	FLD 33	FLD 40
α - Mast/fork carriage tilt, forward	°	6	6	6
β - Mast/fork carriage tilt, backward	°	12	12	12
h1 - Mast lowered height	in (mm)	85.3 (2166)	91.2 (2316)	105 (2666)
h2 - Mast free lift	in (mm)	53.7 (1365)	59.6 (1515)	73.4 (1865)
h3 - Mast lifting height	in (mm)	118.1 (3000)	129.9 (3300)	157.5 (4000)
h4 - Mast extended height	in (mm)	149.8 (3805)	161.6 (4105)	189.2 (4805)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)
Residual capacity with integrated side shift at max heigh	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)
Residual capacity with hooked-on side shift at max heigh	lb (kg)	10582 (4800)	10582 (4800)	10582 (4800)
Height at max capacity	in (mm)	118.1 (3000)	129.9 (3300)	157.5 (4000)
Height at max capacity with integrated sideshift	in (mm)	118.1 (3000)	129.9 (3300)	157.5 (4000)

Free Lift Triplex (FLT)		FLT 43	FLT 48	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	6	6	6	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6
h1 - Mast lowered height	in (mm)	83.5 (2120)	89.8 (2280)	92.5 (2350)	99 (2515)	107.5 (2730)
h2 - Mast free lift	in (mm)	51.9 (1318)	58.2 (1478)	60.9 (1548)	67.3 (1710)	75.9 (1928)
h3 - Mast lifting height	in (mm)	169.3 (4300)	189 (4800)	196.9 (5000)	216.5 (5500)	236.2 (6000)
h4 - Mast extended height	in (mm)	201 (5105)	220.7 (5605)	228.5 (5805)	248.2 (6305)	267.9 (6805)
Residual capacity at max height	lb (kg)	10582 (4800)	10251 (4650)	9811 (4450)	9370 (4250)	9039 (4100)
Residual capacity with integrated side shift at max heigh	lb (kg)	10362 (4700)	10141 (4600)	9700 (4400)	9259 (4200)	8929 (4050)
Residual capacity with hooked-on side shift at max heigh	lb (kg)	9921 (4500)	9590 (4350)	9149 (4150)	8708 (3950)	8378 (3800)
Height at max capacity	in (mm)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)	98.4 (2500)



Head Office

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

www.manitou.com



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