

Technical sheet :

MSI-X 35



 **MANITOU**
HANDLING YOUR WORLD

The image contains two technical drawings of a forklift, labeled 'a' and 'b'.

Drawing 'a' is a top view of the forklift. It shows the overall width and length. Key dimensions include:

- $b1$: Total width including the mast and forks.
- $b3$: Width of the mast section.
- $b10$: Width of the body/chassis.
- e : Distance from the centerline to the outer edge of the mast.
- $b11$: Width of the front end.
- Wa : Wheelbase (distance between the two main wheels).
- 100 : A reference dimension at the bottom corners.
- Ast : Total length of the forklift.

Drawing 'b' is a side view of the forklift. It shows the height and wheel dimensions. Key dimensions include:

- $h4$: Total height to the top of the mast.
- $h3$: Height to the top of the body.
- $h1$: Height to the top of the mast when the forks are lowered.
- c : Horizontal distance from the front wheel to the mast.
- Q : Diameter of the front wheel.
- $h2$: Height of the front wheel.
- $m1$: Horizontal distance from the front wheel to the body.
- x : Horizontal distance from the front wheel to the mast.
- $m2$: Horizontal distance from the body to the rear wheel.
- y : Horizontal distance from the rear wheel to the back of the body.
- $h6$: Total height to the top of the body.
- $h10$: Height of the rear wheel.
- l : Wheelbase (distance between the two main wheels).
- $l2$: Total length of the chassis.

Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork camiage tilt, forward	°	10	10	3500	10	10
β - Mast/fork camiage tilt, backward	°	12	12	3500	12	12
h1 - Mast lowered height	mm	2136	2286	2546	2736	2986
h2 - Mast free lift	mm	90	90	90	90	90
h3 - Mast lifting height	mm	3000	3300	3700	4000	4500
h4 - Mast extended height	mm	3738	4038	4438	4738	5238
Residual capacity at max height	kg	3500	3500			
Height at max capacity	mm	3000	3700	3700	2500	2500

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55	FLT 60
α - Mast/fork camiage tilt, forward	°	10	10	10	10	10	6	6
β - Mast/fork camiage tilt, backward	°	12	12	12	12	12	6	6
h1 - Mast lowered height	mm	1936	2036	2136	2286	2386	2736	2986
h2 - Mast free lift	mm	1208	1308	1408	1558	1658	2008	2258
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5500	6000
h4 - Mast extended height	mm	4184	4484	4784	5084	5484	6284	6784
Residual capacity at max height	kg	3500						
Height at max capacity	mm	3400	2500	2500	2500	2500	2500	2500

Full Visibility Triplex (FVT)		FVT 33
α - Mast/fork camiage tilt, forward	°	10
β - Mast/fork camiage tilt, backward	°	12
h1 - Mast lowered height	mm	1826
h2 - Mast free lift	mm	82
h3 - Mast lifting height	mm	3300
h4 - Mast extended height	mm	4027
Height at max capacity	mm	2500



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