

Technical sheet :

# MSI-X 35



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The image contains two technical drawings of a forklift. The top drawing is a top-down view showing the forklift's footprint. It includes dimensions for the overall width ( $b_1$ ), the width of the mast ( $b_3$ ), the width of the forks ( $b_{10}$ ), the width of the chassis ( $b_{11}$ ), and the distance from the front of the chassis to the mast ( $e$ ). A weight  $W_a$  is indicated acting on the mast. The bottom drawing is a side profile view showing the forklift's height and length. It includes dimensions for the overall height ( $h_4$ ), the height of the mast ( $h_3$ ), the height of the chassis ( $h_1$ ), the height of the wheels ( $h_2$ ), the height of the operator's seat ( $h_6$ ), the height of the rear wheel ( $h_{10}$ ), the length of the chassis ( $l$ ), the length of the mast ( $l_2$ ), the distance from the front of the chassis to the mast ( $m_1$ ), the distance from the mast to the rear wheel ( $m_2$ ), the distance from the front of the chassis to the rear wheel ( $x$ ), the distance from the mast to the operator's seat ( $y$ ), the distance from the front of the chassis to the operator's seat ( $c$ ), the radius of the front wheel ( $\rho$ ), and the angle of the mast ( $\alpha$  and  $\beta$ ). A 100-unit scale bar is shown at the bottom left.

# 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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