Technical sheet :

MSI 25 E

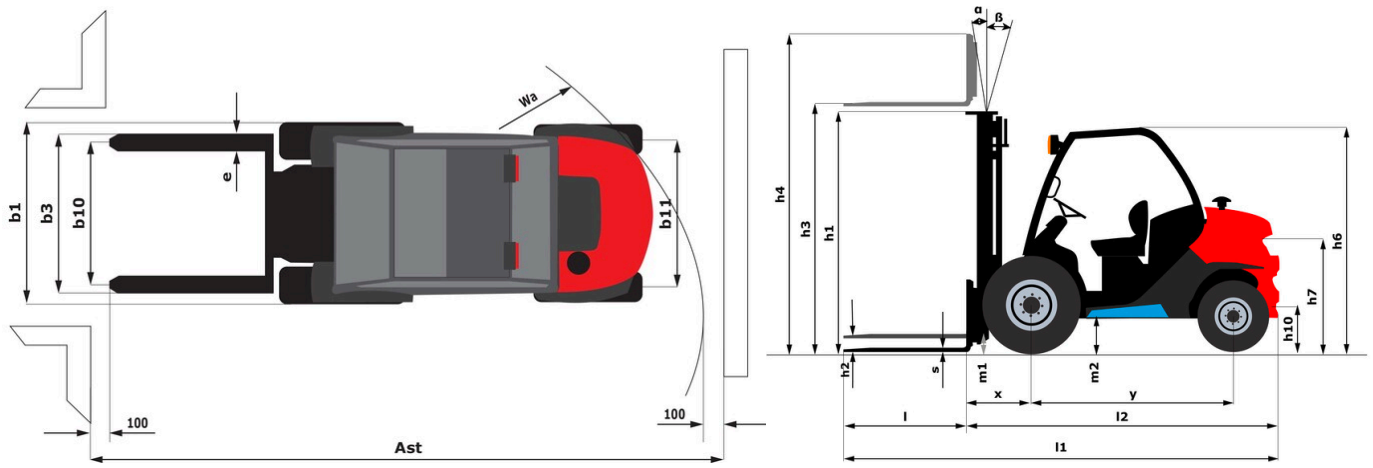
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MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 25 e
1.3	Power source		Electrical - Lithium
1.4	Operator type		Seated
1.5	Max. capacity	Q	2500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	625 mm
1.9	Wheelbase	y	2000 mm
	Standard mast reference of the machine		FVD 33
	Weight		
2.1	Service weight		3971 kg
2.2	Weight on front axle (laden) / rear axle (laden)		5494 kg / 977 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1590 kg / 2381 kg
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		300-15/18 6T P43
3.3	Dimensions of rear wheels		7.00-12/12 ED PLUS
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1044 mm
3.7	Rear wheel gauge	b11	1108 mm
	Dimensions		
4.8	Seat height/stand height	h7	1066 mm
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6	2117 mm / 1968 mm
4.19	Overall length	l1	4348 mm
4.20	Length to face of forks	l2	3148 mm
4.21	Overall width	b1	1330 mm
4.22	Forks section / width / length	s / e / l	40 mm x 100 mm x 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	1260 mm
4.31	Ground clearance below mast	m1	260 mm
4.32	Ground clearance at centre of wheelbase	m2	236 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	4547 mm
4.35	Turning radius	Wa	2725 mm
	Performances		
5.1	Travel speed (laden / unladen)		10 km/h-17 km/h
5.2	Lifting speed (laden / unladen)		0.56 m/s-0.56 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.30 m/s
5.7	Gradeability (laden)		23 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Transmission type		Hydrostatic
	Engine		
6.3	Battery according to DIN 43531/35/36 A, B, C		Lithium
6.4	Battery voltage / capacity		100 V / 290 Ah
7.1	Engine brand / model		NIDEC / ACX-3899
7.2	Engine power (kW)		20 kW
7.3	Rated speed		2700 rpm
	Battery energy		41 kWh
	Miscellaneous		
8.1	Type of drive control		Electric
8.2	Working hydraulic pressure for attachments		220 bar
8.3	Oil flow rate for attachments		46 l/min
8.4	Sound level at the driver's ear according to DIN 12 053		72 dB

MSI 25 e - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork carriage tilt, forward	°	12	12	12	12	12
β - Mast/fork carriage tilt, backward	°	10	10	10	10	10
h1 - Mast lowered height	mm	2136	2286	2546	2736	2986
h2 - Mast free lift	mm	85	85	85	85	85
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	2500	2500	2500	2500	2500
Residual capacity with hooked-on side shift at max heigth	kg	2340	2340	2340	2340	2340
Height at max capacity	mm	3000	3300	3700	4000	4500
Height at max capacity with hooked-on sideshift	mm	3000	3300	3700	4000	4500

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	12	12	12	12	12	12	6	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	10	10	6	6
h1 - Mast lowered height	mm	1936	2036	2136	2286	2386	2546	2736	2986
h2 - Mast free lift	mm	1183	1283	1383	1483	1633	1733	1893	2083
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5000	5500	6000
h4 - Mast extended height	mm	4184	4484	4784	5116	5484	5826	6356	6916
Residual capacity at max height	kg	2500	2500	2500	2500	2500	2500	2500	2500
Residual capacity with hooked-on side shift at max heigth	kg	2340	2340	2340	2340	2340	2340	2340	2340
Height at max capacity	mm	3400	3700	4000	4300	4700	5000	5500	6000
Height at max capacity with hooked-on sideshift	mm	3400	3700	4000	4300	4700	5000	5500	6000

Full Visibility Triplex (FVT)		FVT 33
α - Mast/fork carriage tilt, forward	°	12
β - Mast/fork carriage tilt, backward	°	10
h1 - Mast lowered height	mm	1826
h2 - Mast free lift	mm	72
h3 - Mast lifting height	mm	3300
h4 - Mast extended height	mm	4027
Residual capacity at max height	kg	2500
Residual capacity with hooked-on side shift at max heigth	kg	2340
Height at max capacity	mm	3300

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