Technical sheet :

MSI 35 E

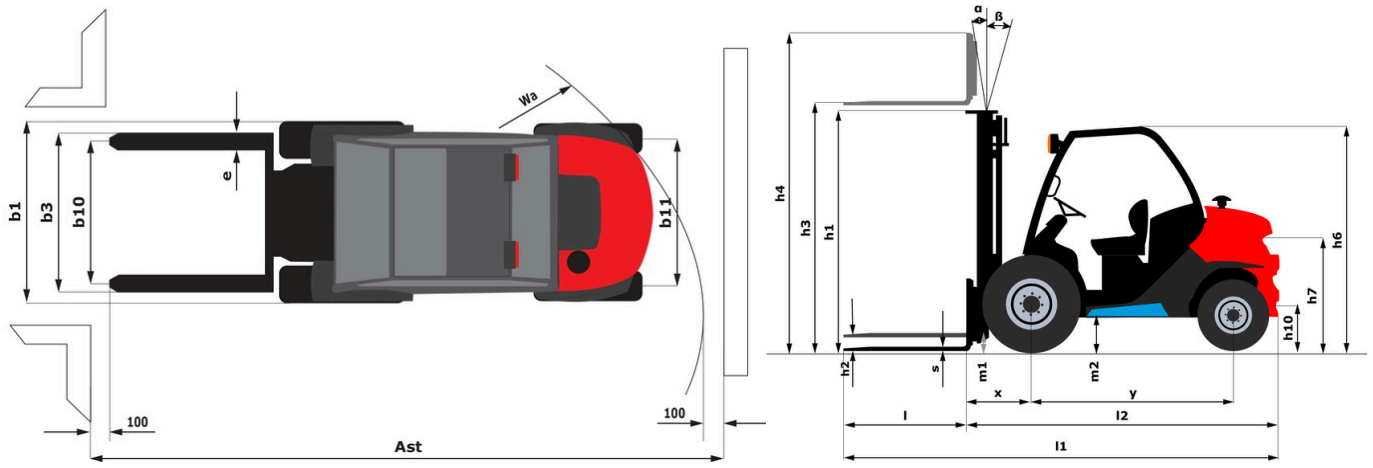
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MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 35 e
1.3	Power source		Electrical - Lithium
1.4	Operator type		Seated
1.5	Max. capacity	Q	3500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	630 mm
1.9	Wheelbase	y	2000 mm
	Standard mast reference of the machine		FVD 33
	Weight		
2.1	Service weight		4581 kg
2.2	Weight on front axle (laden) / rear axle (laden)		7016 kg / 1065 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1550 kg / 3031 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	1065 mm
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6	2117 mm / 1969 mm
4.19	Overall length	l1	4440 mm
4.20	Length to face of forks	l2	3240 mm
4.21	Overall width	b1	1330 mm
4.22	Forks section / width / length	s / e / l	45 mm x 125 mm x 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
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	4610 mm
4.35	Turning radius	Wa	2787 mm
	Performances		
5.1	Travel speed (laden / unladen)		10 km/h-17 km/h
5.2	Lifting speed (laden / unladen)		0.46 m/s-0.46 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s-0.30 m/s
5.7	Gradeability (laden)		18 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	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		Electronic
8.2	Working hydraulic pressure for attachments		230 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 35 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	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	3500	3500	3500
Residual capacity with hooked-on side shift at max heigth	kg	3180	3170	3160	3140	3120
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	1208	1308	1408	1558	1658	1818	2008	2258
h3 - Mast lifting height	mm	3400	3700	4000	4300	4700	5000	5500	6000
h4 - Mast extended height	mm	4184	4484	4784	5084	5484	5784	6284	6784
Residual capacity at max height	kg	3500	3500	3500	3500	3500	3500	3500	2600
Residual capacity with hooked-on side shift at max heigth	kg	3130	3130	3120	3110	3100	3090	3070	2680
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

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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