Technical sheet :

MSI 18 E

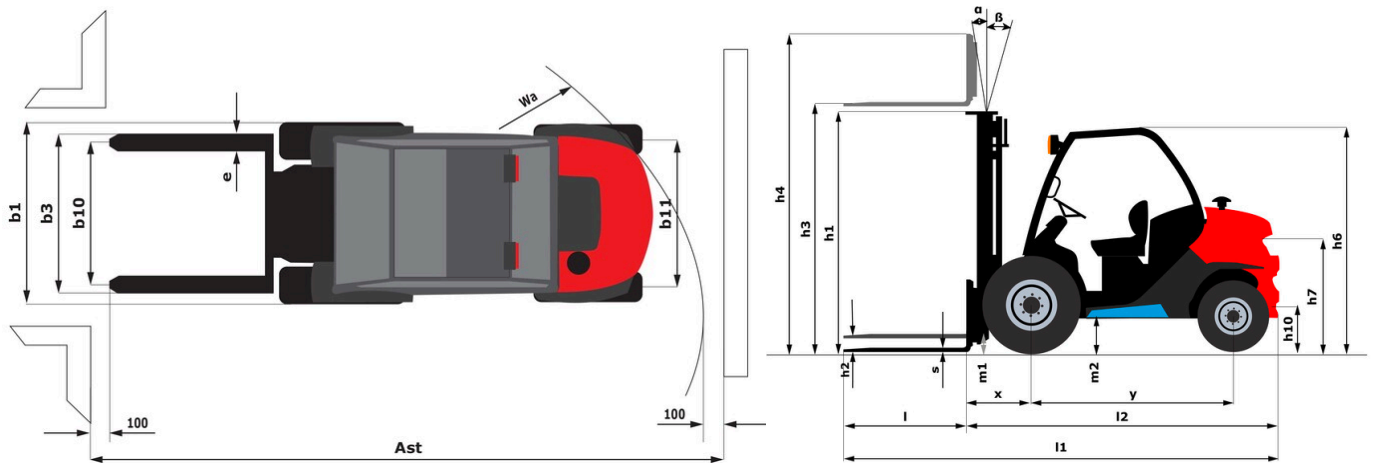
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MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MSI 18 e
1.3	Power source		Electrical - Lithium
1.4	Operator type		Seated
1.5	Max. capacity	Q	1800 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	620 mm
1.9	Wheelbase	y	2000 mm
	Standard mast reference of the machine		FVD 33
	Weight		
2.1	Service weight		3649 kg
2.2	Weight on front axle (laden) / rear axle (laden)		4521 kg / 928 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1710 kg / 1939 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	4216 mm
4.20	Length to face of forks	l2	3066 mm
4.21	Overall width	b1	1330 mm
4.22	Forks section / width / length	s / e / l	35 mm x 100 mm x 1150 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	4548 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)		27 %
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		165 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 18 e - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork carriage tilt, forward	°	12	12	12	12
β - Mast/fork carriage tilt, backward	°	10	10	10	10
h1 - Mast lowered height	mm	2296	2556	2746	2996
h2 - Mast free lift	mm	58	58	58	58
h3 - Mast lifting height	mm	3300	3700	4000	4500
h4 - Mast extended height	mm	3966	4376	4716	5216
Residual capacity at max height	kg	1800	1800	1800	1800
Residual capacity with hooked-on side shift at max heigth	kg	1640	1640	1640	1640

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 47	FLT 55
α - Mast/fork carriage tilt, forward	°	12	12	12	12	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	6
h1 - Mast lowered height	mm	1946	2046	2146	2296	2556
h2 - Mast free lift	mm	1278	1378	1478	1628	1888
h3 - Mast lifting height	mm	3700	4000	4300	4700	5500
h4 - Mast extended height	mm	4401	4701	5001	5401	6201
Residual capacity at max height	kg	1800	1800	1800	1800	1800
Residual capacity with hooked-on side shift at max heigth	kg	1640	1640	1640	1640	1640

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	1836
h2 - Mast free lift	mm	83
h3 - Mast lifting height	mm	3300
h4 - Mast extended height	mm	3996
Residual capacity at max height	kg	1800
Residual capacity with hooked-on side shift at max heigth	kg	1640

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