

Technical sheet :

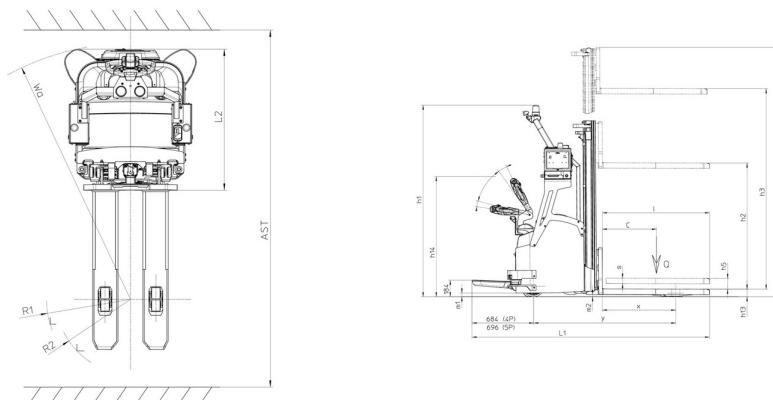
# AMR ES 616



 **MANITOU**  
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Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	AMR ES616	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Carried	
1.5	Max. capacity	1600 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position	x / x	725 mm / 685 mm
1.9	Wheelbase	y	1457 mm
Wheels		Polyurethane cushion	
3.1	Tires type	2 / 4	
3.5	Number of front wheels / rear wheels	1	
3.5.2	Number of drive wheels	531 mm	
3.6	Front wheel gauge	380 mm	
3.7	Rear wheel gauge		
Dimensions			
4.19	Overall length	l1	2178 mm
4.20	Length to face of forks	l2	1021 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm / 185 mm / 1150 mm
4.24	Fork carriage width	b3	700 mm
4.32	Ground clearance at centre of wheelbase	m2	30 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3003 mm
4.35	Turning radius	Wa	2143 m
Performances			
5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h
5.2	Lifting speed (laden / unladen)		0.18 m/s / 0.30 m/s
5.3	Lowering speed (laden / unladen)		0.27 m/s / 0.22 m/s
5.8	Max Gradeability (laden / unladen)		7 % / 10 %
5.10	Service brake		Electro magnetic
Engine			
6.1	Drive motor rating S2 60 min		1.50 kW
6.2	Lift motor rating at S3 15%		3 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
6.4	Battery voltage / capacity		24 V / 270 Ah
6.4.1	Battery max. capacity		375 A
6.5	Battery weight (+/- 5%)		255 kg
6.5.1	Battery max. weight		305 kg
Miscellaneous			
8.1	Type of drive control		Variator
8.4	Sound level at the driver's ear according to DIN 12 053		70 dB

## AMR ES 616 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 29	FVD 34	FVD 38	FVD 43
h1 - Mast lowered height	mm	1953	2203	2403
h3 - Mast lifting height	mm	2936	3436	3836
h4 - Mast extended height	mm	3390	3890	4290
Residual capacity at max height	kg	1350	1100	850
				720



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