Technical sheet :



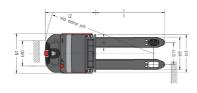


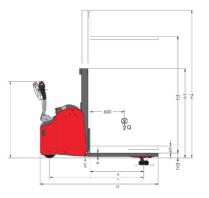


	s	420 DL	Created	on July	3,	2025	at	7:46	PM	UTC
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			ES 420 DL Greated	l on July 3, 2025 at 7:46 PN
	Technical characteristics		Metric	Imperial
	Manufacturer		Manitou	Manitou
	Model Name		ES 420 DL	ES 420 DL
	Power source		Electrical	Electrical
	Operator type		Pedestrian	Pedestrian
	Max. capacity	Q	2000 kg	4409 lb
	Nominal capacity on wrapover forks	Q	1000 kg	2205 lb
2	Nominal capacity in double stacking 1 / 2	Q / Q	1000 kg + 1000 kg	2205 lb + 2205 lb
	Load center of gravity	С	600 mm	24 in
	Distance from Load backrest to center of rear axle	х	937 mm	37 in
	Wheelbase	v	1644 mm	65 in
	Weight			
	Service weight		1020 kg	2249 lb
	Weight on front axle (laden) / rear axle (laden)		1460 kg / 1560 kg	3219 lb / 3439 lb
	Weight on front axle (Unladen) / rear axle (Unladen)		730 kg / 290 kg	1609 lb / 639 lb
	Wheels		, 66 kg , 276 kg	100515700515
	Tires type		Polyurethane	Polyurethane
	Number of load wheels / Size of load wheels		4 / 82x68	4 / 82x68
	Number of stabilizer wheels / Size of the stabilizer wheels		2 / 120x50	2 / 120x50
	Number of front wheels / rear wheels		3/4	3 / 4
2	Number of drive wheels / Size of drive wheels		1/230x75	1/230x75
2	Front wheel gauge	b10	435 mm	17230x73
	Rear wheel gauge	b11	380 mm	15 in
	Dimensions	UTT	380 1111	13111
5	Fork height in low position	h13	85 mm	3 in
)	Overall length	1	2060 mm	81 in
, )	Length to face of forks	12	870 mm	34 in
	Overall width	b1	688 mm	27 in
2	Forks section / width / length	s/e/l	160 mm / 180 mm / 1190 mm	6 in / 7 in / 47 in
- 	Fork carriage width	b3	650 mm	26 in
•	Ground clearance below mast	m1	25 mm	0.98 in
2	Ground clearance at centre of wheelbase	m2	30 mm	0.98 III 1 in
5		Wa	1870 mm	74 in
	Tuming radius	h14 /	1870 11111	/4 111
	Height tiller min. / max.	h14	866 mm / 1320 mm	34 in / 52 in
	Performances			
	Travel speed (laden / unladen)		5.50 km/h / 6 km/h	3 mph / 4 mph
	Lifting speed (laden / unladen)		0.11 m/s / 0.18 m/s	0.36 ft/s / 0.59 ft/s
	Lowering speed (laden / unladen)		0.20 m/s / 0.24 m/s	0.66 ft/s / 0.79 ft/s
	Max Gradeability (laden / unladen)		10 % / 20 %	10 % / 20 %
)	Service brake		Electro magnetic	Electro magnetic
	Engine			
	Drive motor rating S2 60 min		1.70 kW	1.70 kW
	Lift motor rating at S3 15%		2 kW	2 kW
	Battery according to DIN 43531/35/36 A, B, C		No	No
	Battery voltage / capacity		24 V / 270 Ah	24 V / 270 Ah
	Battery weight (+/- 5%)		245 kg	540 lb
	Miscellaneous			
	Type of drive control		AC	AC
	Sound level at the driver's ear according to DIN 12 053		65 dB	65 dB

## ES 420 DL - Dimensional drawing





## Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)		CCD 17	CCD 21
h1 - Mast lowered height	in (mm)	53.7 (1365)	61.4 (1560)
h3 - Mast lifting height	in (mm)	67.9 (1725)	83.7 (2125)
h4 - Mast extended height	in (mm)	86 (2185)	101.6 (2580)
Residual capacity at max height	lb (kg)	2205 (1000)	2205 (1000)

Central Cylinder Simplex (CCS)		CCS 17
h1 - Mast lowered height	in (mm)	85.8 (2180)
h2 - Mast free lift	in (mm)	67.9 (1725)
h3 - Mast lifting height	in (mm)	67.9 (1725)
h4 - Mast extended height	in (mm)	85.8 (2180)
Residual capacity at max height	lb (kg)	2205 (1000)



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