Technical sheet :



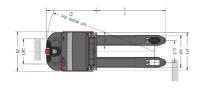


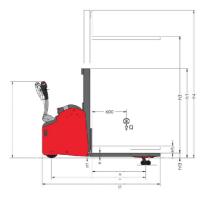


S 420 DL Created on Ju	y 3	, 2025	at	8:09	PM	UTC
------------------------	-----	--------	----	------	----	-----

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	0	1000 kg	2205 lb
Nominal capacity in double stacking 1 / 2	Q/Q	1000 kg + 1000 kg	2205 lb + 2205 lb
Load center of gravity	c	600 mm	24 in
Distance from Load backrest to center of rear axle	x	937 mm	37 in
Wheelbase	y y	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 (Idden) Weight on front axle (Unladen) / rear axle (Unladen)		730 kg / 290 kg	1609 lb / 639 lb
Wheels		730 kg / 290 kg	1009 10 / 039 10
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 stabilizer wheels / size of the stabilizer wheels		3/4	3 / 4
		374 1/230x75	3 / 4 1/230x75
Number of drive wheels / Size of drive wheels	b10	435 mm	1/230x75
Front wheel gauge			
Rear wheel gauge	b11	380 mm	15 in
Dimensions	h10	05 mm	0 in
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
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
Ground clearance at centre of wheelbase	m2	30 mm	1 in
Turning radius	Wa	1870 mm	74 in
Height tiller min. / max.	h14 / 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)



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



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes