Technical sheet:

ES 720





Technical characteristics	
1.2 Model Name ES 720 1.3 Power source Electrical 1.4 Operator type Pedestrian 1.5 Max. capacity Q 2000 kg 1.6 Load center of gravity C 600 mm 1.8 Distance from Load backrest to center of rear axle X 6442 mm 1.9 Wheelbase y 11250 kg 2.1 Service weight 2 1250 kg 2.1 Tires type Polyurethane 2 3.1 Tires type Polyurethane 2 3.4 Number of load wheels / Size of load wheels 2 778778 3.4 Number of foath wheels / Size of the stabilizer wheels 2 1 3.5 Number of foath wheels / Size of the stabilizer wheels 2 1 3.5 Number of foath wheels / Size of dive wheels 1 1,7270x00 3.5 Number of foath wheels / Size of dive wheels bit 3,7270x00 3.6 Foat wheel gauge bit 3,570x00 4.1 <t< th=""><th></th></t<>	
1.3 Power source Power source	
1.4 Operator type Pedestrian 1.5 Max. capacity 0 2000 kg 1.6 Load center of gravity 0 600 mm 1.8 Distance from Load backrest to center of rear axie x 642 mm 1.9 Wheelbase y 1126 mm 2.1 Senice weight 0 1250 kg 3.1 Tires type 2 Polyurethane 3.3 Number of load wheels / Size of load wheels 2 Polyurethane 3.4 Number of castor wheels 1 2 / 78878 3.4 Number of front wheels / Size of the stabilizer wheels 2 2 / 78878 3.5 Number of front wheels / Size of the stabilizer wheels 5 2 / 150x50 3.5 Number of front wheels / Size of drive wheels 1 1 3.7 Rear wheel gauge b10 344 mm 4.19 Overall length 11 13 mm 4.19 Overall length 11 199 mm 4.21 Fork seight in low position 5 1	
1.5 Max. capacity c 600 mm 1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axie x 642 mm 1.9 Wheelbase y 1126 mm 1.0 Senice weight 2 1250 kg 1.0 Wheels 2 Polypurethane 3.1 Number of load wheels / Size of load wheels 2.778x78 2.778x78 3.4 Number of castor wheels 1 1 1 3.4 Number of foot wheels / Size of the stabilizer wheels 2.7150x50 1 2 1 1	
1.6 Load center of gravity c 600 mm median 1.8 Distance from Load backrest to center of rear axle x 642 mm 1.9 Weight y 1126 mm 2.1 Service weight	
1.8	
Neelbase Weight Weight Service dive wheels Service dive wheels Service the stabilizer wheels Service the stabilizer wheels Service the stabilizer wheels Service dive wheels Service wh	
2.1 Service weight 1250 kg Wheels Comment Comment 3.1 Tires type Polytyrethane 3.3 Number of load wheels / Size of load wheels 2,778x78 3.4 Number of stabilizer wheels 1 3.5 Number of forth wheels / Size of drive wheels 1,12 3.5.2 Number of drive wheels / Size of drive wheels 11 3.6 Front wheel gauge b10 844 mm 3.7 Pear wheel gauge b10 844 mm 4.15 Fork height in low position h13 9 omm 4.19 Overall length 11 1898 mm 4.19 Overall length 11 1898 mm 4.19 Overall width 12 748 mm 4.20 Length to Face of forks 12 748 mm 4.21 Fork carriage width 5 / e / l 70 mm / 195 mm / 115 4.22 Forks carriage width m2 2 5 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm	
Wheels	
3.1 Tires type Polyuethane of a sign of load wheels / Size of load wheels / Size of load wheels / Size of the stabilizer wheels / Size of three wheels / Size of three wheels / Size of drive w	
3.3 Number of load wheels / Size of load wheels 2 / 78x78 3.4 Number of stabilizer wheels 2 / 150x50 3.5 Number of front wheels / size of the stabilizer wheels 1 / 2 3.5.2 Number of front wheels / Size of drive wheels 1 / 270x90 3.6 Front wheel gauge b10 844 mm 3.7 Rear wheel gauge b11 351 mm 4.15 Fork height in low position h13 90 mm 4.19 Overall length 11 1888 mm 4.20 Length to face of forks 12 748 mm 4.21 Overall width b1 974 mm 4.22 Fork section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.22 Fork carriage width b3 840 mm 4.33 Asie Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Turning radius Wa 144 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm 5.1 Tavel speed (laden / unladen) 0.08 m/s / 0.15 m/s	
3.4 Number of castor wheels 1 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 150x 50 3.5 Number of find wheels / Faze wheels 1 / 270x 90 3.6 Front wheel gauge b10 844 mm 3.7 Rear wheel gauge b11 351 mm 4.15 Fork height in low position h13 90 mm 4.19 Overall length 11 1898 mm 4.20 Length to face of forks 12 748 mm 4.21 Overall width 5 / 2 / 70 mm / 195 mm / 115 974 mm 4.22 Fork section / width / length \$ / e / 1 70 mm / 195 mm / 115 4.24 Fork carriage width \$ / e / 1 70 mm / 195 mm / 115 4.24 Fork carriage width \$ / e / 1 70 mm / 195 mm / 115 4.24 Fork carriage width \$ / e / 1 70 mm / 195 mm / 115 4.25 Fork carriage width \$ / e / 1 70 mm / 195 mm / 115 4.26 Fork carriage width \$ / e / 2 25 mm 4.33 Turning radius \$ / e / 2 25 mm 4.9 Height tiller min.	
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 150x50 3.5 Number of front wheels / rear wheels 1 / 2 3.5.2 Number of drive wheels / Size of drive wheels 1 / 270x90 3.6 Front wheel gauge b10 844 mm 3.7 Rear wheel gauge b11 351 mm 4.15 Fork height in low position h13 90 mm 4.19 Overall length 11 11898 mm 4.20 Length to face of forks 12 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.22 Fork carriage width for pallets 1000 x 1200 crossways Ast 2330 mm 4.33 Asie Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm 5.1 Travel speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.2 Lifting speed (laden /	
3.5 Number of front wheels / Foar wheels 1 / 2 / 2 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3	
3.5.2 Number of drive wheels / Size of drive wheels 1/270x90 3.6 Front wheel gauge b10 844 mm 3.7 Rear wheel gauge b11 351 mm Ulmenstons 4.15 Fork height in low position h13 90 mm 4.19 Overall length I1 1898 mm 4.20 Length to face of forks I2 748 mm 4.21 Overall width b1 974 mm 4.22 Fork section / width / length b3 840 mm 4.24 Fork carriage width b3 840 mm 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Performances Height tiller min. / max. 490 km/h / 6 km/l 5.1 Travel speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.8 Max Gradeability (
3.6 In Front wheel gauge b10 844 mm 3.7 Rear wheel gauge b11 3.51 mm Dimensions 4.15 Fork height in low position h13 90 mm 4.19 Overall length h13 90 mm 4.20 Length to face of forks 12 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length 5 /e / I 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 2 5mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Turning radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm 5.1 Travel speed (laden / unladen) Wa 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) In June (laden / unladen)	
3.7 Rear wheel gauge bit 1 351 mm Dimensions 4.15 Fork height in low position h13 90 mm 4.19 Overall length i1 1898 mm 4.20 Length to face of forks i2 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 A isle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm 5.1 Travel speed (laden / unladen) 5 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 5 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 5 0.08 m/s / 0.15 m/s 5.1 Service brake 5 Electromagnetic 6.1 Bright Electromagnetic <td></td>	
Dimensions 4.15 Fork height in low position h13 90 mm 4.19 Overall length 11 1898 mm 4.20 Length to face of forks 12 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length \$ / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways A st 2330 mm 4.35 Turning radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Forformances 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen)	
4.15 Fork height in low position h13 90 mm 4.19 Overall length l1 1898 mm 4.20 Length to face of forks l2 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 A isle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 0.15 m/s / 0.10 m/ 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/ 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating S2 60 min 1 kW	
4.19 Overall length I1 1898 mm 4.20 Length to face of forks I2 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mn Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/ 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/ 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 1 kW	
4.20 Length to face of forks 12 748 mm 4.21 Overall width b1 974 mm 4.22 Forks section / width / length \$ / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/t 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.015 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating S2 60 min 1 kW	
4.21 Overall width b1 974 mm 4.22 Forks section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2.60 min 1 kW	
4.22 Forks section / width / length s / e / l 70 mm / 195 mm / 115 4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/t 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating S2 60 min 1 kW	
4.24 Fork carriage width b3 840 mm 4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/t 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating S2 60 min 1 kW	
4.32 Ground clearance at centre of wheelbase m2 25 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/. 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/. 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2 60 min 1 kW	mm
4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2330 mm 4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2 60 min 1 kW	
4.35 Tuming radius Wa 1442 mm 4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/t 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating S2 60 min 1 kW	
4.9 Height tiller min. / max. h14 / h14 900 mm / 1400 mm Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating S2 60 min 1 kW	
Performances 5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engline 6.1 Drive motor rating \$2 60 min 1 kW	
5.1 Travel speed (laden / unladen) 4.90 km/h / 6 km/l 5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engline 1 kW	
5.2 Lifting speed (laden / unladen) 0.08 m/s / 0.15 m/s 5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Engline 6.1 Drive motor rating S2 60 min 1 kW	
5.3 Lowering speed (laden / unladen) 0.15 m/s / 0.10 m/s 5.8 Max Gradeability (laden / unladen) 4 % / 7 % 5.10 Service brake Electro magnetic Englne 6.1 Drive motor rating S2 60 min 1 kW	
5.8 Max Gradeability (laden / unladen) 5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2.60 min 1 kW	
5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2 60 min 1 kW	
5.10 Service brake Electro magnetic Engine 6.1 Drive motor rating \$2 60 min 1 kW	
6.1 Drive motor rating S2 60 min 1 kW	
6.1 Drive motor rating S2 60 min 1 kW	
· · · · · · · · · · · · · · · · · · ·	
6.3 Battery according to DIN 43531/35/36 A, B, C No	
6.4 Battery voltage / capacity 24 V / 189 Ah	
6.5 Battery weight (+/- 5%) 190 kg	
Miscellaneous	
8.1 Type of drive control DC	
8.4 Sound level at the driver's ear according to DIN 12 053 65 dB	

ES 720 - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1945	2195
h2 - Mast free lift	mm	1420	1670
h3 - Mast lifting height	mm	1500	1700
h4 - Mast extended height	mm	1965	2215
Residual capacity at max height	kg	2000	2000
Height at max capacity	mm	1510	1760

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1945	2195	2395
h3 - Mast lifting height	mm	2900	3400	3800
h4 - Mast extended height	mm	3400	3900	4300
Residual capacity at max height	kg	2000	1800	1600
Height at max capacity	mm	2940		

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1945	2195
h2 - Mast free lift	mm	1420	1670
h3 - Mast lifting height	mm	2900	3400
h4 - Mast extended height	mm	3400	3900
Residual capacity at max height	kg	2000	1700
Height at max capacity	mm	2930	

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1900	2065	2305
h2 - Mast free lift	mm	1380	1540	1790
h3 - Mast lifting height	mm	4200	4700	5400
h4 - Mast extended height	mm	4720	5200	5930
Residual capacity at max height	kg	1300	1000	700
Height at max capacity	mm	2900	2900	2900





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