Technical sheet:

## ES 720





1.2   Mode Name			ES 720 G	eateu 011 5 May 2024 at 6.22.06 AM C
1.2   Mode Name		Technical characteristics		Metric
	1.1	Manufacturer		Manitou
1.4   Operator type	1.2	Model Name		ES 720
1.5	1.3	Power source		Electrical
Load center of gravity	1.4	Operator type		Pedestrian
1.8   Distance from Load backrest to center of rear axie	1.5	Max. capacity	Q	2000 kg
1.9   Wheelbase   Y   1126 mm	1.6	Load center of gravity	С	600 mm
Veright   Service weight   1250 kg   1250 kg	1.8	Distance from Load backrest to center of rear axle	х	642 mm
Service weight   1250 kg   1250 kg	1.9	Wheelbase	у	1126 mm
Number of load wheels / Size of load wheels   Polyurethane   2 / 78x78		Weight		
Number of load wheels / Size of load wheels   2 / 78x/8	2.1	Service weight		1250 kg
3.3       Number of load wheels / Size of load wheels       2 / 78x78         3.4       Number of castor wheels       1         3.5       Number of fortn wheels / Faze wheels       1 / 2         3.5       Number of drive wheels / Size of drive wheels       1 / 270x90         3.5       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       l1       1888 mm         4.20       Length to face of forks       l2       748 mm         4.21       Overall width       b1       974 mm         4.22       Fork section / width / length       s / e/1       70 mm / 195 mm / 1150 mm         4.22       Fork carriage width       b2       3       840 mm         4.23       Giound clearnace at centre of wheelbase       m2       25 mm         4.33       Asile Width for pallets 1000 x 1200 crossways       Ast       2330 mm         4.35       Tuming radius       M2       4.90 km/h / 6 km/h         5.1       Treat speed (laden / unladen)       0.08 m/s / 0.15 m/s<		Wheels		
3.4       Number of castor wheels       1         3.4       Number of stabilizer wheels / Size of the stabilizer wheels       2 / 150x50         3.5       Number of fortwheels / srar wheels       1 / 2         3.5. 2       Number of drive wheels / Size of drive wheels       1 / 2         3.6       From wheel gauge       b10       344 mm         3.7       Rear wheel gauge       b11       351 mm         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       Fork section / width / length       5 / e/1       70 mm / 150 mm         4.24       Fork carriage width       b3       840 mm         4.22       Ground clearance at cente of wheelbase       m2       2 5 mm         4.33       Askie 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 / u	3.1	Tires type		Polyurethane
3.4         Number of stabilizer wheels / Size of the stabilizer wheels         2 / 150x50           3.5         Number of front wheels / Size of drive wheels         1 / 2           3.6         Front wheel gauge         b10         844 mm           3.6         Front wheel gauge         b10         844 mm           3.7         Rear wheel gauge         b11         351 mm           Umersions           4.15         Fork height in low position         h13         90 mm           4.19         Overall length         l1         1998 mm           4.20         Length to face of forks         l2         748 mm           4.21         Overall width         b1         974 mm           4.22         Fork section / width / length         s / e / l         70 mm / 195 mm / 1150 mm           4.24         Fork carriage width         s / e / l         70 mm / 195 mm / 1150 mm           4.24         Fork carriage width         s / e / l         70 mm / 195 mm / 1150 mm           4.25         Fork carriage width         s / e / l         70 mm / 195 mm / 1150 mm           4.26         Fork carriage width         s / e / l         70 mm / 195 mm / 1150 mm           4.25         Turning radius         w / e         142 mm	3.3	Number of load wheels / Size of load wheels		2 / 78x78
3.5       Number of front wheels / rear wheels       1 / 2         3.5.2       Number of drive wheels / Size of drive wheels       1/270x930         3.6       Front wheel gauge       b10       844 mm         3.7       Rear wheel gauge       b11       351 mm         Uimensions         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       Fork section / width / length       s / e / l       70 mm / 195 mm / 1150 mm         4.24       Fork carriage width       b3       840 mm         4.22       Fork section / width / length       s / e / l       70 mm / 195 mm / 1150 mm         4.24       Fork carriage width       b3       840 mm         4.32       Ground clearance at centre of wheelbase       m2       2.5 mm         4.33       Asise Width for pallets 1000 x 1200 crossways       Ast       233 mm         4.35       Turning radius       Wa       1442 mm         4.9       Height tiller min / max.       h14 / h14       900 mm / 1400 mm	3.4	Number of castor wheels		1
1/270x90   1/270x90	3.4	Number of stabilizer wheels / Size of the stabilizer wheels		2 / 150x50
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       b1       974 mm         4.22       Forks section /width / length       \$ / e / l       70 mm / 195 mm / 1150 mm         4.22       Fork camiage width       \$ 3       840 mm         4.24       Fork camiage 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         4.9       Height tiller min./ max.       h14 / h14       900 mm / 1400 mm         5.1       Travel speed (laden / unladen)       4.90 km/h / 6 km/h         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       As Cradeability (laden / unladen)       6.1 m/s       4.3 / 7.3 km/s         5.10       Service brake	3.5	Number of front wheels / rear wheels		1/2
Sear wheel gauge	3.5.2	Number of drive wheels / Size of drive wheels		1/270x90
Dimensions   Hard   Fork height in low position   his   hi	3.6	Front wheel gauge	b10	844 mm
Dimensions	3.7	Rear wheel gauge	b11	351 mm
1				
1	4.15	Fork height in low position	h13	90 mm
4.21       Overall width       b1       974 mm         4.22       Forks section / width / length       s / e / l       70 mm / 195 mm / 1150 mm         4.24       Fork carriage width       b3       840 mm         4.25       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         Ferfomances       Ferfomances	4.19	Overall length	l1	1898 mm
4.21       Overall width       b1       974 mm         4.22       Forks section / width / length       s / e / l       70 mm / 195 mm / 1150 mm         4.24       Fork carriage width       b3       840 mm         4.25       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         Ferfomances       Ferfomances	4.20	Length to face of forks	12	748 mm
Fork carriage width	4.21		b1	974 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/h         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         6.2       Lift motor rating s1 S3 15%       3 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	4.22	Forks section / width / length	s / e / l	70 mm / 195 mm / 1150 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       Turning 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/h         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         6.2       Lift motor rating \$2.60 min       1 kW         6.2       Lift motor rating \$2.60 min       No         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	4.24	Fork carriage width	b3	840 mm
Tuming radius   Wa   1442 mm     Height tiller min. / max.	4.32		m2	25 mm
Tuming radius   Wa   1442 mm     Height tiller min. / max.	4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2330 mm
Performances           5.1         Travel speed (laden / unladen)         4.90 km/h / 6 km/h           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           6.2         Lift motor rating at S3 15%         3 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	4.35	Turning radius	Wa	1442 mm
5.1       Travel speed (laden / unladen)       4.90 km/h / 6 km/h         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         6.1       Drive motor rating S2 60 min       1 kW         6.2       Lift motor rating at S3 15%       3 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       DC	4.9	Height tiller min. / max.	h14 / h14	900 mm / 1400 mm
5.1       Travel speed (laden / unladen)       4.90 km/h / 6 km/h         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         6.1       Drive motor rating S2 60 min       1 kW         6.2       Lift motor rating at S3 15%       3 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       DC				
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         6.2       Lift motor rating at S3 15%       3 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	5.1			4.90 km/h / 6 km/h
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         6.2       Lift motor rating at \$3 15%       3 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	5.2			0.08 m/s / 0.15 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         6.2       Lift motor rating at S3 15%       3 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				
Electro magnetic         Engine       I kW         6.1       Drive motor rating S2 60 min       1 kW         6.2       Lift motor rating at S3 15%       3 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       DC	5.8	- , , , , , , , , , , , , , , , , , , ,		4 % / 7 %
Engine         Company           6.1         Drive motor rating S2 60 min         1 kW           6.2         Lift motor rating at \$3 15%         3 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	5.10			
6.1       Drive motor rating S2 60 min       1 kW         6.2       Lift motor rating at S3 15%       3 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		Engine		3
6.2       Lift motor rating at \$3 15%       3 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	6.1			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	6.2			
6.4       Battery voltage / capacity       24 V / 189 Ah         6.5       Battery weight (+/- 5%)       190 kg         Miscellaneous         8.1       Type of drive control       DC	6.3	-		
6.5       Battery weight (+/- 5%)       190 kg         Miscellaneous         8.1       Type of drive control       DC				
Miscellaneous 8.1 Type of drive control DC		, - , ,		
8.1 Type of drive control DC				
,,	8.1			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





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