Technical sheet:

ES 614 (5PTS)





Manufacturer			23814 (3F13) OICE	11cd Off May 3, 2024 at 12.33.17 AM
1.2 Model Name		Technical characteristics		Metric
1.3 Power source	1.1	Manufacturer		Manitou
1.4 Operator type	1.2	Model Name		ES 614 - 5 points
Max. capacity	1.3	Power source		Electrical
Load center of gravity	1.4	Operator type		Pedestrian
1.8 Distance from Load backrest to center of rear axle x Wheelbase y 12	1.5	Max. capacity	Q	1400 kg
Weight W	1.6	Load center of gravity	С	600 mm
Weight Service weight 1 1 1 1 1 1 1 1 1	1.8	Distance from Load backrest to center of rear axle	х	687 mm
Service weight	1.9	Wheelbase	у	1250 mm
Weight on front axie (laden) / rear axie (laden) 1037 k		Weight		
Weight on front axle (Unladen) / rear axle (Unladen) R51 k	2.1	Service weight		1092 kg
Wine S	2.2	Weight on front axle (laden) / rear axle (laden)		1037 kg / 1453 kg
Size	2.3	Weight on front axle (Unladen) / rear axle (Unladen)		851 kg / 240 kg
3.3 Number of load wheels / Size of load wheels 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 3.5 Number of forth wheels / Size of drive wheels 3.6 Number of drive wheels / Size of drive wheels 3.7 Number of drive wheels / Size of drive wheels 3.8 Pear wheel gauge		Wheels		
3.3 Number of load wheels / Size of load wheels 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 3.5 Number of forth wheels / Size of drive wheels 3.6 Number of drive wheels / Size of drive wheels 3.7 Number of drive wheels / Size of drive wheels 3.8 Pear wheel gauge	3.1	Tires type		Bandage
1	3.3	**		2 / 140x60
Number of front wheels / rear wheels	3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60
1/2		Number of front wheels / rear wheels		3 / 4
Second	3.5.2			1/230x70
Sear wheel gauge			b10	529 mm
Dimensions	3.7			380 mm
A.15 Fork height in low position				
A.19 Overall length 11 20	4.15		h13	85 mm
Length to face of forks I2 9	4.19			2049 mm
A.21 Overall width b1 8 8 4.22 Forks section / width / length 5 6 mm / 18 4.22 Forks section / width / length b3 7 6 6 mm / 18 4.24 Fork camiage width b3 7 7 4.32 Ground clearance at centre of wheelbase m2 3 3 3 7 4.32 Asise Width for pallets 1000 x 1200 crossways Ast 224 4.34 Asise width for 800 x 1200 pallet lengthways Ast 224 4.35 Turning radius Wa 16 4.35 Turning radius Wa 16 4.30 km. Ferformances	4.20	,		900 mm
Forks section / width / length	4.21	•		800 mm
4.24 Fork carriage width 4.32 Ground clearance at centre of wheelbase 4.33 Aisle Width for pallets 1000 x 1200 crossways 4.34 Aisle width for 800 x 1200 pallet lengthways 4.35 Tuming radius 4.9 Height tiller min. / max. Performances 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.4 Max Gradeability (laden / unladen) 5.5 Service brake Engine 6.1 Drive motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C Battery weight (+/- 5%) Miscellaneous	4.22			60 mm / 185 mm / 1150 mm
A.32 Ground clearance at centre of wheelbase m2 A.33 Aisle Width for pallets 1000 x 1200 crossways Ast 224 A.34 Aisle width for 800 x 1200 pallet lengthways Ast 244 A.35 Tuming radius Wa 164 A.35 Tuming radius Wa 164 A.35 Tuming radius Wa 166 Ast Ast A.36 Ast Ast A.37 Ast Ast A.38 Ast Ast A.39 Ast	4.24	-		700 mm
Asia Aisle Width for pallets 1000 x 1200 crossways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Asia Aisle width for 800 x 1200 pallet lengthways Wa 164 1750 mr Performances 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.4 Service brake Electres Engline 6.1 Drive motor rating \$2 60 min 1 Drive motor rating at \$3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous				30 mm
Ast 24 4.35 Tuming radius Wa 16 4.9 Height tiller min. / max. h14 / h14 750 mm Performances 5.1 Travel speed (laden / unladen) 4.50 km/ 5.2 Lifting speed (laden / unladen) 0.18 m/ 5.3 Lowering speed (laden / unladen) 7.5 8 Max Gradeability (laden / unladen) 7.5 8 Service brake Electre Engine 6.1 Drive motor rating \$2.60 min 1.1 6.2 Lift motor rating at \$3.15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 W 6.5 Battery weight (+/- 5%) Miscellaneous				2464 mm
4.35 Tuming radius Wa 16 4.9 Height tiller min. / max. h14 / h14 750 mm Performances 5.1 Travel speed (laden / unladen) 4.50 km/ 5.2 Lifting speed (laden / unladen) 0.18 m/ 5.3 Lowering speed (laden / unladen) 7.5 5.8 Max Gradeability (laden / unladen) 7.5 5.10 Service brake Electreman Engine 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 1 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 W 6.5 Battery weight (+/- 5%) 1 Miscellaneous 1		·		2438 mm
Height tiller min. / max.				1614 mm
Performances 5.1 Travel speed (laden / unladen) 4.50 km/s 5.2 Lifting speed (laden / unladen) 0.18 m/s 5.3 Lowering speed (laden / unladen) 7.5 5.8 Max Gradeability (laden / unladen) 7.5 5.10 Service brake Electrestect Engine 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 W 6.5 Battery weight (+/- 5%) 1 Miscellaneous 1				750 mm / 1250 mm
5.1 Travel speed (laden / unladen) 4.50 km/s 5.2 Lifting speed (laden / unladen) 0.18 m/s 5.3 Lowering speed (laden / unladen) 7.5 5.8 Max Gradeability (laden / unladen) 7.5 5.10 Service brake Electron Engine 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 W 6.5 Battery weight (+/- 5%) 1 Miscellaneous Miscellaneous	4.5		,	, 66, 1266
5.2 Lifting speed (laden / unladen) 0.18 m/s 5.3 Lowering speed (laden / unladen) 0.27 m/s 5.8 Max Gradeability (laden / unladen) 7.5 5.10 Service brake Electromagne 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 1 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 W 6.5 Battery weight (+/- 5%) 1 Miscellaneous 1	5.1			4.50 km/h / 4.50 km/h
5.3 Lowering speed (laden / unladen) 0.27 m/s 5.8 Max Gradeability (laden / unladen) 7 % 5.10 Service brake Electremonth Engine 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 5.3 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 % 6.5 Battery weight (+/- 5%) 1 Miscellaneous 1				0.18 m/s / 0.30 m/s
5.8 Max Gradeability (laden / unladen) 7 % 5.10 Service brake Electr Engine 6.1 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 W 6.5 Battery weight (+/- 5%) 1 Miscellaneous 1				0.27 m/s / 0.22 m/s
Service brake Electric		7		7 % / 10 %
Engine 6.1 Drive motor rating \$2.60 min 1 6.2 Lift motor rating at \$3.15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 V 6.5 Battery weight (+/- 5%) 1 Miscellaneous 1				Electro magnetic
6.1 Drive motor rating \$2.60 min 6.2 Lift motor rating at \$3.15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous	3.10			Licetto inaglicae
6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 6.4 Battery voltage / capacity 24 V 6.5 Battery weight (+/- 5%) 1 Miscellaneous	6.1			1.50 kW
6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous		•		3 kW
6.4 Battery voltage / capacity 24 V 6.5 Battery weight (+/- 5%) 1 Miscellaneous				DIN 43535-B
6.5 Battery weight (+/- 5%) Miscellaneous				24 V / 180 Ah
Miscellaneous				189 kg
	0.0			105 kg
1. Type of differential to the control of the contr	0 1			AC
8.4 Sound level at the driver's ear according to DIN 12 053	8.4	•		65 dB

ES 614 (5pts) - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	1505	1755
h4 - Mast extended height	mm	1944	2194
Residual capacity at max height	kg	1400	1400

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1930	2180	2380
h3 - Mast lifting height	mm	2935	3435	3835
h4 - Mast extended height	mm	3374	3874	4274
Residual capacity at max height	kg	1050	800	500

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	2930	3430
h4 - Mast extended height	mm	3369	3869
Residual capacity at max height	kg	1050	800

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1889
h2 - Mast free lift	mm	1465
h3 - Mast lifting height	mm	4245
h4 - Mast extended height	mm	4701
Residual capacity at max height	kg	400





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