Technical sheet:

## ES 614 LI





Technical characteristics			<b>2301421</b> 010	ated on August 50, 2025 at 0.04 i W
1.2   Mode Name		Technical characteristics		Metric
1.4	1.1	Manufacturer		Manitou
Max. capacity	1.2	Model Name		ES 614 LI
1.5	1.3	Power source		Electrical - Lead
1.6	1.4	Operator type		Pedestrian
1.8	1.5	Max. capacity	Q	1400 kg
New   New	1.6	Load center of gravity	С	600 mm
Neight   Service weight   1283 kg   1283 kg   1283 kg   1283 kg   1199 kg   1433 kg   1283 kg	1.8	Distance from Load backrest to center of rear axle	x	848 mm
2	1.9	Wheelbase	у	1492 mm
2.2         Weight on front axle (laden) / ear axle (Uniden)         1189 kg / 1493 kg           2.3         Weight on front axle (Uniden) / rear axle (Uniden)         1005 kg / 200 kg           3.1         Time type         6           3.1         Number of Lond wheels / Size of Inod wheels         4 / 82 x 68           3.4         Number of Inot wheels / Size of the stabilizer wheels         1 / 120 x 54           3.5         Number of firent wheels / Year wheels         2 / 4           3.6         Font wheel gauge         b10         529 mm           3.6         Font wheel gauge         b10         529 mm           3.7         Rear wheel gauge         b10         529 mm           4.6         Initial lift         h5         110 mm           4.5         Port keepld gauge         h5         110 mm           4.6         Initial lift         h5         110 mm           4.6         Initial lift         h5         110 mm           4.7         Overall length         h1         20 mm           4.7         Pork section / width / length         b1         60 mm / 185 mm / 1190 mm           4.2         Porks section / width / length         s / e/1         60 mm / 185 mm / 1190 mm           4.2         Forks s		Weight		
2.3         Weight on front axie (Unladen) / rear axie (Unladen)         1003 kg / 200 kg           Wheels         Cheels           13         Time type         Poblyurehane           3.3         Number of Indiverwheels / Size of Ioud wheels         4 / 82 x 68           3.5         Number of Indiverwheels / Size of drive wheels         2 / 4           3.5.2         Number of front wheels / Size of drive wheels         2 / 2 / 4           3.5.2         Number of front wheels / Size of drive wheels         1 / 120 x 3           3.6         Front wheel gauge         b10         5 ye mm           4.6         Initial lift         h5         110 mm           4.15         Fork heelpfix in owy position         h13         3 mm           4.19         Oewall length         h13         3 mm           4.20         Length to face of forks         12         86 mm           4.21         Overall width         1 mg         1 mg         1 mg           4.22         Fork section / width / length         s / e / I         60 mm / 185 mm / 1190 mm           4.23         Gont delearance at centre of wheelbase         m2         3 mm           4.31         Asia width for pallest 1000 x 1200 gallet lengthways         Ast         2 mm         2 mm </td <td>2.1</td> <td>Service weight</td> <td></td> <td>1283 kg</td>	2.1	Service weight		1283 kg
Nime	2.2			1189 kg / 1493 kg
Nice     Nice     Nice       Nice       Nice       Nice       Nice     Nice     Nice     Nice   Ni	2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1003 kg / 280 kg
3.1         Tires type         Polyuethane           3.3         Number of Isabilizer wheels / Size of the stabilizer wheels         1 / 120 x 54           3.5         Number of front wheels / rear wheels         2 / 4           3.5.2         Number of front wheels / rear wheels         2 / 4           3.5.2         Number of front wheels guige         b10         529 mm           3.7         Rear wheel gauge         b10         529 mm           3.7         Rear wheel gauge         b10         529 mm           4.6         Initial lift         h5         110 mm           4.15         Fork height in low position         h13         86 mm           4.19         Overall length         h1         2174 mm           4.20         Length to face of forks         12         846 mm           4.21         Overall width         b1         800 mm           4.22         Fork section, width / length         b1         800 mm           4.24         Fork section width / length         b3         700 mm           4.24         Fork section pales 1000 x 1200 crossways         Ast         2520 mm           4.24         Fork carriage width         Ast         25250 mm           4.25         Tarvel speed (l				3 3
3.3         Number of load wheels / Size of load wheels         4 / 82 x 68           3.4         Number of stabilizer wheels / Size of the stabilizer wheels         2 / 4           3.5         Number of drive wheels / Size of drive wheels         2 / 4           3.5         Number of drive wheels / Size of drive wheels         10         1/230x70           3.6         Front wheel gauge         b10         529 mm           6.         Initial lift         h5         110 mm           4.6         Initial lift         h13         86 mm           4.15         Fok height in low position         p13         86 mm           4.20         Length of face of forks         p1         846 mm           4.21         Overall length         p1         800 mm           4.22         Fork section / width / length         p1         800 mm           4.22         Fork carriage width         p3         700 mm           4.24         Fork carriage width for pallets 1000 x 1200 crossways         Ast         2520 mm           4.34         Asise width for soot x 1200 pallet lengthways         Ast         2653 mm           4.34         Asie width for soot x 1200 pallet lengthways         p1         6           5.1         Turning radius         p3	3.1			Polyurethane
3.4         Number of stabilizer wheels / Size of the stabilizer wheels         2 / 4           3.5         Number of front wheels / Size of drive wheels         2 / 4           3.6         Front wheel gauge         b10         529 mm           3.7         Rear wheel gauge         b10         529 mm           3.7         Rear wheel gauge         b10         529 mm           4.6         Initial lift         h5         110 mm           4.15         Fork height in low position         h1         2174 mm           4.20         Useful brace of forks         l1         2174 mm           4.20         Length of ace of forks         l2         346 mm           4.21         Overall width         b1         800 mm           4.22         Fork saction / width / length         s / e / l         60 mm / 185 mm / 1190 mm           4.22         Fork carriage width         b1         800 mm           4.24         Fork carriage width for 800 x 1200 crossways         Ast         250 mm           4.33         Aisle width for 800 x 1200 pallet lengthways         Ast         253 mm           4.34         Aisle width for 800 x 1200 crossways         Ast         253 mm           5.7         Travel speed (laden / unladen)         0 <td></td> <td>**</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>		**		· · · · · · · · · · · · · · · · · · ·
3.5.2         Number of front wheels / rear wheels         2 / 4           3.5.2         Number of drive wheels / Size of drive wheels         17230x70           3.6         Forth wheel gauge         b10         529 mm           3.7         Rear wheel gauge         b11         380 mm           4.6         Initial lift         h5         110 mm           4.15         Fork height in low position         h13         86 mm           4.19         Overall length         l1         2174 mm           4.20         Length to face of forks         l2         846 mm           4.21         Overall width         b1         800 mm           4.22         Forks section / width / length         b1         800 mm           4.22         Forks section / width / length         b3         700 mm           4.23         Ground clearance at centre of wheelbase         m2         30 mm           4.34         A sile width for pollets 1000 x 1200 crossways         Ast         250 mm           4.35         Tuming radius         M3         770 mm           4.34         Leight tiller min. / max.         h14 / h14         750 mm / 1250 mm           5.2         Lifting speed (laden / unladen)         6         6 km/h / 6 km/h				
3.5.2         Number of drive wheels / Size of drive wheels         1/230x70           3.6         Front wheel gauge         b10         529 mm           3.7         Pear wheel gauge         b11         380 mm           4.6         Initial lift         h5         110 mm           4.5         Fork height in low position         h13         86 mm           4.19         Overall length         11         2174 mm           4.20         Length fo face of forks         12         846 mm           4.21         Overall widh         b1         800 mm           4.22         Fork section / widh / length         s / e / t         60 mm / 185 mm / 190 mm           4.24         Fork carriage width         s / e / t         60 mm / 185 mm / 190 mm           4.24         Fork carriage width         s / e / t         60 mm / 185 mm / 190 mm           4.24         Fork carriage width         g / e / t         60 mm / 185 mm / 190 mm           4.32         Ground clearance at centre of wheelbase         m2         30 mm           4.32         A list width for 800 x 1200 pallet lengthways         A st         2520 mm           4.34         A list width for 800 x 1200 pallet lengthways         A st         2653 mm           5.				
3.6         Front wheel gauge         b10         \$29 mm           3.7         Rear wheel gauge         b11         380 mm           4.6         Initial lift         h5         110 mm           4.15         Fork height in low position         h13         86 mm           4.19         Uerall length         h13         86 mm           4.20         Length to face of forks         12         346 mm           4.21         Overall width         b1         800 mm           4.22         Fork section / width / length         5 / e/1         60 mm / 185 mm / 1190 mm           4.24         Fork carriage width         B3         700 mm           4.22         Found clearance at centre of wheelbase         m2         30 mm           4.23         Gound clearance at centre of wheelbase         m2         30 mm           4.32         Aisle width for 800 x 1200 cpallet lengthways         Ast         250 mm           4.33         Aisle width for 800 x 1200 cpallet lengthways         Ast         250 mm           4.9         Height tiller min. / max.         h14/h14         750 mm / 1250 mm           5.1         Travel speed (laden / unladen)         5 / e/1         6 km/h / 6 km/h           5.2         Liffu speed (laden				
3.7         Rear wheel gauge         b11         380 mm           Dimensions         Commensions         Commensions           4.15         Fork height in low position         h13         86 mm           4.19         Overall length         i1         2174 mm           4.20         Length to face of forks         i2         846 mm           4.21         Overall width         b1         800 mm           4.22         Fork section / width / length         s / e / l         60 mm / 185 mm / 1190 mm           4.24         Fork carriage width         b3         700 mm           4.24         Fork carriage width for 800 x 1200 crossways         Ast         250 mm           4.32         Ground clearnage at centre of wheelbase         m2         30 mm           4.32         Alsle Width for pallets 1000 x 1200 crossways         Ast         250 mm           4.34         Alsle width for 800 x 1200 pallet lengthways         Ast         2553 mm           4.35         Tuming radius         Wa         1.716 mm           5.1         Travel speed (laden / unladen)         14 / h14         750 mm / 1250 mm           5.1         Travel speed (laden / unladen)         0.18 m/s / 0.30 m/s         7 % / 10 %           5.8         Max			b10	
Dimensions				
4.6         Initial lift         h5         110 mm           4.15         Fork height in low position         h13         86 mm           4.19         Overall length         11         2174 mm           4.20         Length to face of forks         12         846 mm           4.21         Overall width         15         80 mm           4.22         Fork searing width         151         80 mm / 1190 mm           4.24         Fork carriage width         153         700 mm           4.32         Ground clearance at centre of wheelbase         m2         30 mm           4.33         Alsie width for pallets 1000 x 1200 pallet lengthways         Ast         2520 mm           4.34         Alsie width for 800 x 1200 pallet lengthways         Ast         2653 mm           4.35         Tuming radius         Ma         7176 mm           4.9         Height tiller min. / max.         Ma         1716 mm           5.1         Tavel speed (laden / unladen)         Ma         1716 mm           5.2         Lifting speed (laden / unladen)         Ma         0.18 m/s / 0.30 m/s           5.3         Loweing speed (laden / unladen)         Ma         6.18 m/s / 0.30 m/s           5.3         Loweing speed (laden / unlad				
4.15       Fork height in low position       h13       86 mm         4.19       Overall length       11       2174 mm         4.20       Length to face of forks       12       346 mm         4.21       Overall width       b1       800 mm         4.22       Fork section / width / length       5 / e / l       60 mm / 185 mm / 1190 mm         4.24       Fork carriage width       383       700 mm         4.32       Ground clearance at cente of wheelbase       83       700 mm         4.33       A sile Width for pallets 1000 x 1200 crossways       Ast       2520 mm         4.34       A sile width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Tuming addus       10 mm       75 mm / 150 mm         4.9       Height tiller min. / max.       ht / ht       75 mm / 150 mm         4.9       Performanes       1       6 km/h / 6 km/h         5.1       Tavel speed (laden / unladen)       5 mm / 150 mm / 150 mm / 150 mm / 150 mm         5.2       Lifting speed (laden / unladen)       5 mm / 150 mm / 150 mm / 150 mm         5.3       Asservice brake       5 mm / 150 km       150 km         6.1       Dive motor rating s2 60 min       5 mm / 150 km       150 km	4.6		h5	110 mm
4.19       Overall length       11       2174 mm         4.20       Length to face of forks       12       846 mm         4.21       Overall width       b1       800 mm         4.22       Fork section / width / length       s / e / l       60 mm / 185 mm / 1190 mm         4.24       Fork carriage width       b3       700 mm         4.32       Cround clearance at centier of wheelbase       m2       30 mm         4.33       Aisle Width for pallest 1000 x 1200 crossways       Ast       2520 mm         4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2523 mm         4.35       Tuming radius       Wa       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         4.9       Performances       Wa       1716 mm         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.3       Lowering speed (laden / unladen)       7 % / 10 %         5.1       Sevrice brake       Electro magnetic         6.1       Drive motor rating \$2.60 min       1.50 kW         6.1       Drive motor rating \$2.60 min       1.50 kW				
4.20       Length to face of forks       12       846 mm         4.21       Overall width       51       800 mm         4.22       Forks section / width / length       s / e / l       60 mm / 185 mm / 1190 mm         4.24       Fork carriage width       b3       700 mm         4.32       Ground clearance at centre of wheelbase       m2       30 mm         4.33       Aisle Width for pallets 1000 x 1200 crossways       Ast       2520 mm         4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Tuming radius       Wa       1716 mm         4.39       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         5.1       Travel speed (laden / unladen)       5 6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       5 6 km/h / 6 km/h         5.3       Lowering speed (laden / unladen)       5 7 % / 10 %         5.3       Lowering speed (laden / unladen)       5 7 % / 10 %         5.3       Lowering speed (laden / unladen)       5 7 % / 10 %         5.1       Service brake       5 6 km/h / 6 km/h         6.1       Dive motor rating \$2.50 min       3 kW         6.2       Lift motor rating \$2.50 min       3 kW				
4.21       Overall width       b1       800 mm         4.22       Forks section / width / length       s / e / l       60 mm / 185 mm / 1190 mm         4.24       Fork carriage width       b3       700 mm         4.32       Ground clearance at centre of wheelbase       m2       30 mm         4.33       Aisle Width for pallets 1000 x 1200 crossways       Ast       2520 mm         4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Tuming radius       Ma       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         4.9       Perfomances		-		
4.22       Forks section / width / length       s / e / l       60 mm / 185 mm / 1190 mm         4.24       Fork carriage width       b3       700 mm         4.32       Ground clearance at centre of wheelbase       m2       30 mm         4.33       Aisle Width for pallets 1000 x 1200 crossways       Ast       2520 mm         4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2553 mm         4.35       Tuming radius       Wa       1716 mm         4.9       Height tiller min. / max.       b14 / h14       750 mm / 1250 mm         4.9       Height tiller min. / max.       6 km/h 6 km/h         5.2       Lifting speed (laden / unladen)       5       6 km/h 6 km/h         5.2       Lifting speed (laden / unladen)       5       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       5       0.18 m/s / 0.30 m/s         5.1       Service brake       Electromagnetic         6.1       Drive motor rating \$2.60 min       5       1.50 kW         6.2       Lift motor rating \$2.60 min       5       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       5       3 kW         6.4       Battery voltage / capacity       5       24 V/180 Ah <td></td> <td></td> <td></td> <td></td>				
4.24       Fork carriage width       b3       700 mm         4.32       Ground clearance at centre of wheelbase       m2       30 mm         4.33       Aisle Width for gold x 1200 crossways       Ast       2520 mm         4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Tuming radius       Wa       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         5.1       Travel speed (laden / unladen)       6 km/h 6 km/h         5.2       Liffing speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Senrice brake       Elegine         6.1       Drive motor rating \$2 60 min       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery voltage / capacity       9 Battery voltage / capacity       3 kW         6.4       Battery voltage / capacity       20 kg         6.5       Battery weight (+/- 5%)       20 kg         6.5       Battery weight (+/- 5%)       20 kg         6.5       Battery weight (+/- 5%)				
4.32       Ground clearance at centre of wheelbase       m2       30 mm         4.33       A isle Width for pallets 1000 x 1200 crossways       Ast       2520 mm         4.34       A isle width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Turning radius       Wa       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         Performance         Travel speed (laden / unladen)       6 km/h / 6 km/h         5.1       Travel speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.2       Lifting speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.3       Lowering speed (laden / unladen)       7 % / 10 %         5.1       Service brake       Electro magnetic         Engine         6.1       Drive motor rating s25 00 min       1.50 kW         6.2       Lift motor rating s25 00 min       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       3 kW         6.4       Battery weight (+/- 5%)       24 V / 180 Ah         6.5       Battery weight (-/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC <td></td> <td></td> <td></td> <td></td>				
4.33       Aisle Width for pallets 1000 x 1200 crossways       Ast       2520 mm         4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Tuming radius       Wa       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         Commances         Travel speed (laden / unladen)       5.2       Lifting speed (laden / unladen)       6.6 km/h / 6 km/h       6.6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.18 m/s / 0.30 m/s       0.18 m/s / 0.30 m/s       0.27 m/s / 0.22 m/s         5.3       Lowering speed (laden / unladen)       5.0       0.27 m/s / 0.22 m/s       7.8 / 10 %         5.1       Service brake       5.0       Electro magnetic       5.0       1.50 kW         6.1       Drive motor rating S2 60 min       5.0       3.8 kW       3.8 kW         6.2       Lift motor rating s2 50 min       3.8 kW       3.8 kW         6.3       Battery according to DIN 43531/36/36 A, B, C       5.0       DIN 43535-B         6.4       Battery weight (*/-5%)       2.0 kg       2.0 kg         6.5       Battery weight (*/-5%)       2.0 kg       2.0 kg         8.1       Miscellaneous       5.0		-		
4.34       Aisle width for 800 x 1200 pallet lengthways       Ast       2653 mm         4.35       Tuming radius       Ma       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         Performances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7% / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating \$2 60 min       5       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous       AC				
4.35       Tuming radius       Wa       1716 mm         4.9       Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         Performances         5.1       Travel speed (laden / unladen)       6 km/h 6 km/h         5.2       Lifting speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating S2 60 min       1.50 kW         6.2       Lift motor rating s2 50 min       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       3 kW         6.3       Battery woltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous       AC				
4.9 Height tiller min. / max.       h14 / h14       750 mm / 1250 mm         Perfomances         5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating \$2 60 min       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       3 kW         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC		,		
Performances           5.1         Travel speed (laden / unladen)         6 km/h / 6 km/h           5.2         Lifting speed (laden / unladen)         0.18 m/s / 0.30 m/s           5.3         Lowering speed (laden / unladen)         7 % / 10 %           5.8         Max Gradeability (laden / unladen)         7 % / 10 %           5.10         Service brake         Electro magnetic           6.1         Drive motor rating \$2 60 min         1.50 kW           6.2         Lift motor rating at \$3 15%         3 kW           6.3         Battery according to DIN 43531/35/36 A, B, C         DIN 43535-B           6.4         Battery voltage / capacity         24 V / 180 Ah           6.5         Battery weight (+/- 5%)         220 kg           Miscellaneous           8.1         Type of drive control         AC		•		
5.1       Travel speed (laden / unladen)       6 km/h / 6 km/h         5.2       Lifting speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Service brake       Electro magnetic         6.1       Drive motor rating \$2 60 min       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC	4.7		11147 1114	700 11111 / 1200 11111
5.2       Lifting speed (laden / unladen)       0.18 m/s / 0.30 m/s         5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC	5.1			6 km/h / 6 km/h
5.3       Lowering speed (laden / unladen)       0.27 m/s / 0.22 m/s         5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC				
5.8       Max Gradeability (laden / unladen)       7 % / 10 %         5.10       Service brake       Electro magnetic         Engine         6.1       Drive motor rating \$2 60 min       1.50 kW         6.2       Lift motor rating at \$3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC				
Envice brake       Electro magnetic         Engine       Colspan="2">Colspa				
Engine         Common of Pating S2 60 min         Common of Pating S2				
6.1       Drive motor rating \$2.60 min       1.50 kW         6.2       Lift motor rating at \$3.15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC	0.10			Electio magnetio
6.2       Lift motor rating at S3 15%       3 kW         6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC	6.1	*		1.50 kW
6.3       Battery according to DIN 43531/35/36 A, B, C       DIN 43535-B         6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC				
6.4       Battery voltage / capacity       24 V / 180 Ah         6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC				
6.5       Battery weight (+/- 5%)       220 kg         Miscellaneous         8.1       Type of drive control       AC				
Miscellaneous  8.1 Type of drive control  AC				
8.1 Type of drive control AC	0.0			220 kg
<b>*</b>	Q 1			A.C.
V. A. Sound lovel at the drivere car according to DIM 12 US2	8.4	Sound level at the driver's ear according to DIN 12 053		65 dB

## ES 614 LI - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	1506	1756
h4 - Mast extended height	mm	1960	2210
Residual capacity at max height	kg	1400	1400

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1953	2203	2403
h3 - Mast lifting height	mm	2936	3436	3836
h4 - Mast extended height	mm	3390	3890	4290
Residual capacity at max height	kg	1300	1050	800

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1953	2203
h2 - Mast free lift	mm	1506	1756
h3 - Mast lifting height	mm	2931	3431
h4 - Mast extended height	mm	3385	3885
Residual capacity at max height	kg	1300	1050

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1911	2071	2315
h2 - Mast free lift	mm	1466	1626	1880
h3 - Mast lifting height	mm	4246	4726	5460
h4 - Mast extended height	mm	4723	5203	5895
Residual capacity at max height	kg	670	470	450





## **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



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