

Technical sheet :

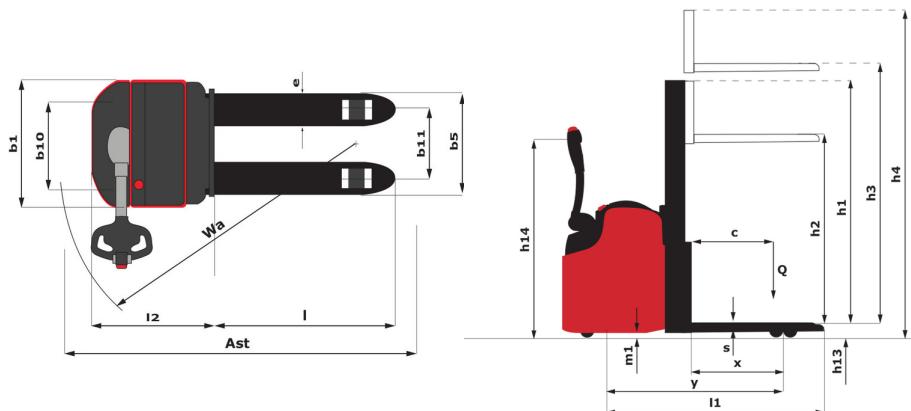
ES 614 (5PTS)



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Metric | |
|---------------------------|---|--------------------------|--|
| 1.1 | Manufacturer | Manitou | |
| 1.2 | Model Name | ES 614 (5pts) | |
| 1.3 | Power source | Electrical - Lead | |
| 1.4 | Operator type | Pedestrian | |
| 1.5 | Max. capacity | 1400 kg | |
| 1.6 | Load center of gravity | 600 mm | |
| 1.8 | Distance from Load backrest to center of rear axle | 687 mm | |
| 1.9 | Wheelbase | 1272 mm | |
| Weight | | | |
| 2.1 | Service weight | 1095 kg | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | 1065 kg / 1620 kg | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | 855 kg / 240 kg | |
| Wheels | | | |
| 3.1 | Tires type | Polyurethane cushion | |
| 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 / 120 x 54 | |
| 3.5 | Number of front wheels / rear wheels | 3 / 4 | |
| 3.5.2 | Number of drive wheels / Size of drive wheels | 1/230x70 | |
| 3.6 | Front wheel gauge | 529 mm | |
| 3.7 | Rear wheel gauge | 380 mm | |
| Dimensions | | | |
| 4.15 | Fork height in low position | 85 mm | |
| 4.19 | Overall length | 2052 mm | |
| 4.20 | Length to face of forks | 761 mm | |
| 4.21 | Overall width | 800 mm | |
| 4.22 | Forks section / width / length | 60 mm / 185 mm / 1150 mm | |
| 4.24 | Fork carriage width | 700 mm | |
| 4.32 | Ground clearance at centre of wheelbase | 30 mm | |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | 2286 mm | |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | 2432 mm | |
| 4.35 | Turning radius | 1476 mm | |
| 4.9 | Height tiller min. / max. | 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 | |
| Engine | | | |
| 6.1 | Drive motor rating S2 60 min | 1.50 kW | |
| 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 / 250 Ah | |
| 6.5 | Battery weight (+/- 5%) | 220 kg | |
| Miscellaneous | | | |
| 8.1 | Type of drive control | AC | |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | 65 dB | |

ES 614 (5pts) - Dimensional drawing



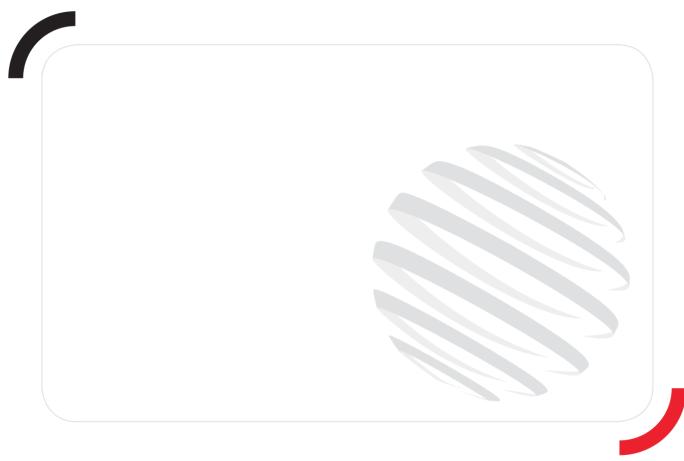
Characteristics of masts and residual capacities

| 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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