Technical sheet :

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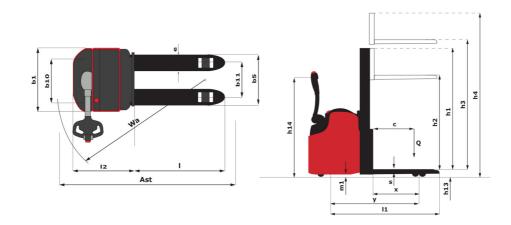




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| 4.32 Ground clearance at centre of wheelbase 4.33 Aisle Width for pallets 1000 x 1200 crossways 4.34 Aisle width for 800 x 1200 pallet lengthways 4.35 Tuming radius 4.9 Height tiller min. / max. Performances 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.4 Max Gradeability (laden / unladen) 5.10 Service brake Engine 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 Miscellaneous | 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 Turning 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 Service brake Engine 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 | 4.22 | Forks section / width / length |
| 4.33 Aisle Width for pallets 1000 x 1200 crossways 4.34 Aisle width for 800 x 1200 pallet lengthways 4.35 Turning 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) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle width for 800 x 1200 pallet lengthways4.35Turning radius4.9Height tiller min. / max.Performances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Service brakeEngine6.1Drive motor rating \$2 60 min6.2Lift motor rating \$2 50 min6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous | 4.24 | Fork carriage width |
| 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) 5.10 Service brake Engine Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 4.34 Aisle width for 800 x 1200 pallet lengthways 4.35 Turning 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) 5.10 Service brake Engine 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 Miscellaneous | 4.32 | Ground clearance at centre of wheelbase |
| 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) 5.10 Service brake Engine Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 4.35 Turning 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) 5.10 Service brake Engine 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 Miscellaneous | 4.33 | Aisle Width for pallets 1000 x 1200 crossways |
| 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) 5.10 Service brake Engine Infive motor rating S2 60 min 6.1 Drive motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 4.9 Heigh 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) 5.10 Service brake Engine Engine 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 Miscellaneous | 4.34 | Aisle width for 800 x 1200 pallet lengthways |
| 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) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 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) 5.10 Service brake Engine Engine 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 Miscellaneous | 4.35 | Turning radius |
| 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 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 Miscellaneous | 4.9 | Height tiller min. / max. |
| 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 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 Miscellaneous | | Performances |
| 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 5.1 | Travel speed (laden / unladen) |
| 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 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 Miscellaneous | 5.2 | Lifting speed (laden / unladen) |
| 5.10 Service brake Engine 6.1 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous Miscellaneous | 5.10 Service brake Engine Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 5.3 | Lowering speed (laden / unladen) |
| Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | Engine 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 5.8 | Max Gradeability (laden / unladen) |
| 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 6.1 Drive motor rating S2 60 min 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 5.10 | Service brake |
| 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 | 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | | Engine |
| 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 6.1 | Drive motor rating S2 60 min |
| 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) Miscellaneous | 6.2 | Lift motor rating at S3 15% |
| 6.5 Battery weight (+/- 5%) Miscellaneous | 6.5 Battery weight (+/- 5%) Miscellaneous | 6.3 | Battery according to DIN 43531/35/36 A, B, C |
| Miscellaneous | Miscellaneous | 6.4 | Battery voltage / capacity |
| | | 6.5 | Battery weight (+/- 5%) |
| 8.1 Type of drive control | 8.1 Type of drive control | | Miscellaneous |
| | | 8.1 | Type of drive control |
| 8.4 Sound level at the driver's ear according to DIN 12 053 | 8.4 Sound level at the driver's ear according to DIN 12 053 | 8.4 | Sound level at the driver's ear according to DIN 12 053 |

| SEI(SFI) | |
|-----------|--------------------------|
| | Metric |
| | Manitou |
| | ES 616 LI 5 point |
| | Electrical |
| | Pedestrian |
| Q | 1600 kg |
| С | 600 mm |
| х | 848 mm |
| у | 1492 mm |
| | |
| | 1327 kg |
| | 1246 kg / 1670 kg |
| | 1033 kg / 290 kg |
| | |
| | Bandage |
| | 2 / 140x60 |
| | 1 / 140x60 |
| | 2 / 4 |
| | 1/230x70 |
| b10 | 529 mm |
| b11 | 380 mm |
| | |
| h5 | 110 mm |
| h13 | 86 mm |
| 1 | 2174 mm |
| 12 | 976 mm |
| b1 | 800 mm |
| s / e / l | 60 mm / 185 mm / 1190 mm |
| b3 | 700 mm |
| m2 | 30 mm |
| Ast | 2399 mm |
| Ast | 2402 mm |
| Wa | 1588 mm |
| h14 / h14 | 750 mm / 1250 mm |
| | |
| | 6 km/h / 6 km/h |
| | 0.18 m/s / 0.30 m/s |
| | 0.27 m/s / 0.22 m/s |
| | 7 % / 10 % |
| | Electro magnetic |
| | |
| | 1.50 kW |
| | 3 kW |
| | DIN 43535-B |
| | 24 V / 180 Ah |
| | 189 kg |
| | |
| | AC |
| | 65 dB |
| | |

ES 616 LI (5pts) - 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 | 1600 | 1600 |

| 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 | 1000 |

| Free Lift Triplex (FLT) | | FLT 42 |
|---------------------------------|----|--------|
| h1 - Mast lowered height | mm | 1911 |
| h2 - Mast free lift | mm | 1466 |
| h3 - Mast lifting height | mm | 4246 |
| h4 - Mast extended height | mm | 4723 |
| Residual capacity at max height | kg | 600 |



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