Technical sheet :



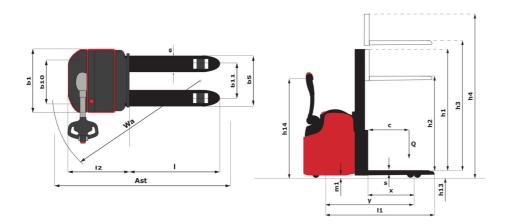




| | Technical characteristics |
|------------|--|
| 1.1 | Manufacturer |
| 1.2 | Model Name |
| .3 | Power source |
| 1.4 | Operator type |
| 1.5 | Max. capacity |
| 1.6 | Load center of gravity |
| 1.8 | Distance from Load backrest to center of rear axle |
| .9 | Wheelbase |
| | Weight |
| .1 | Service weight |
| .2 | Weight on front axle (laden) / rear axle (laden) |
| | Weight on front axle (Unladen) / rear axle (Unladen) |
| .0 | Wheels |
| .1 | Tires type |
| .1 | Number of load wheels / Size of load wheels |
| .3 | Number of total wheels / Size of total wheels Number of stabilizer wheels / Size of the stabilizer wheels |
| 8.4 8.5 | Number of stabilizer wheels / size of the stabilizer wheels |
| .5.2 | Number of from wheels / lize of drive wheels |
| | |
| .6 .7 | Front wheel gauge |
| ./ | Rear wheel gauge Dimensions |
| 5 | |
| 15 | Fork height in low position |
| 9 | Overall length |
| 0 | Length to face of forks |
| 1 | Overall width |
| 2 | Forks section / width / length |
| 24 | Fork carriage width |
| 31 | Ground clearance below mast |
| 2 | Ground clearance at centre of wheelbase |
| 5 | Tuming radius |
| | Performances |
| 1 | Travel speed (laden / unladen) |
| 2 | Lifting speed (laden / unladen) |
| 3 | Lowering speed (laden / unladen) |
| В | Max Gradeability (laden / unladen) |
| 0 | Service brake |
| | Engine |
| | Drive motor rating \$2 60 min |
| 2 | Lift motor rating at S3 15% |
| 3 | Battery according to DIN 43531/35/36 A, B, C |
| .4 | Battery voltage / capacity |
| .5 | Battery weight (+/- 5%) |
| | Miscellaneous |
| .1 | Type of drive control |
| 4 | Sound level at the driver's ear according to DIN 12 053 |

| ES 412 ET | Created on August 12, 2025 at 4:21 PM UTC | | | | |
|-----------|---|--|--|--|--|
| | Metric | | | | |
| | Manitou | | | | |
| | ES 412 ET | | | | |
| | Electrical | | | | |
| | Pedestrian | | | | |
| Q | 1200 kg | | | | |
| С | 600 mm | | | | |
| x | 684 mm | | | | |
| у | 1246 mm | | | | |
| | | | | | |
| | 874 kg | | | | |
| | 729 kg / 1342 kg | | | | |
| | 612 kg / 262 kg | | | | |
| | | | | | |
| | Polyurethane | | | | |
| | 2 / 82x68 | | | | |
| | 1 / 125x70 | | | | |
| | 2/2 | | | | |
| | 1/230x75 | | | | |
| b10 | 517 mm | | | | |
| b11 | 380 mm | | | | |
| 511 | | | | | |
| h13 | 86 mm | | | | |
| 11 | 1875 mm | | | | |
| 12 | 724 mm | | | | |
| b1 | 832 mm | | | | |
| s / e / l | 180 mm / 60 mm / 1150 mm | | | | |
| b3 | 680 m | | | | |
| m1 | 35 mm | | | | |
| m2 | 30 mm | | | | |
| Wa | 1470 mm | | | | |
| | | | | | |
| | 6 km/h / 6 km/h | | | | |
| | 0.10 m/s / 0.16 m/s | | | | |
| | 0.14 m/s / 0.12 m/s | | | | |
| | 8 % / 10 % | | | | |
| | Electro magnetic | | | | |
| | | | | | |
| | 1 kW | | | | |
| | 2 kW | | | | |
| | DIN 43535-B | | | | |
| | 24 V / 160 Ah | | | | |
| | 165 kg | | | | |
| | ···· ··· ··· ··· ··· ··· ··· ··· ······ | | | | |
| | AC | | | | |
| | 65 dB | | | | |
| | | | | | |

ES 412 ET - Dimensional drawing



Characteristics of masts and residual capacities

| Central Cylinder Duplex (CCD) | | CCD 26 | CCD 29 | CCD 34 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1780 | 1930 | 2180 |
| h2 - Mast free lift | mm | 140 | 140 | 140 |
| h3 - Mast lifting height | mm | 2630 | 2930 | 3430 |
| h4 - Mast extended height | mm | 3065 | 3365 | 3865 |
| Residual capacity at max height | kg | 1200 | 1200 | 1000 |

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1930 | 2180 |
| h2 - Mast free lift | mm | 1500 | 1750 |
| h3 - Mast lifting height | mm | 1500 | 1750 |
| h4 - Mast extended height | mm | 1930 | 2180 |
| Residual capacity at max height | kg | 1200 | 1200 |



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