Technical sheet :







| | Technical characteristics | |
|-------|---|--------|
| 1.1 | Manufacturer | |
| 1.2 | Model Name | |
| 1.3 | Power source | |
| 1.4 | Operator type | |
| 1.5 | Max. capacity | Q |
| 1.6 | Load center of gravity | c |
| 1.8 | Distance from Load backrest to center of rear axle | x |
| 1.9 | Wheelbase | y |
| 1.2 | Weight | , , |
| 2.1 | Service weight | |
| 2.1 | Weight on front axle (laden) / rear axle (laden) | |
| 2.2 | | |
| Z.3 | Weight on front axle (Unladen) / rear axle (Unladen) | |
| 0.4 | Wheels | |
| 3.1 | Tires type | |
| 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 front wheels / rear wheels | |
| 3.5.2 | Number of drive wheels / Size of drive wheels | |
| 3.6 | Front wheel gauge | b1 |
| 3.7 | Rear wheel gauge | b1 |
| | Dimensions | |
| 4.15 | Fork height in low position | h1 |
| 4.19 | Overall length | 1 |
| 4.20 | Length to face of forks | 12 |
| 4.21 | Overall width | b1 |
| 4.22 | Forks section / width / length | s / e |
| 4.24 | Fork carriage width | b |
| 4.31 | Ground clearance below mast | m |
| 4.32 | Ground clearance at centre of wheelbase | m |
| 4.35 | Turning radius | Wa |
| | Performances | |
| 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 \$3 15% | |
| 6.4 | Battery voltage / capacity | |
| 6.5 | Battery weight (+/- 5%) | |
| | Miscellaneous | |
| 8.1 | Type of drive control | |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | |

| ES 41 | ∠ Created on April 29, 2024 at 9:34:27 AM UTC |
|-----------|---|
| | Metric |
| | Manitou |
| | ES 412 |
| | Electrical |
| | Pedestrian |
| Q | 1200 kg |
| С | 600 mm |
| х | 683 mm |
| у | 1245 mm |
| | 874 kg |
| | 729 kg / 1342 kg |
| | 612 kg / 262 kg |
| | |
| | Polyurethane |
| | 2 / 82x70 |
| | 1 / 125x50 |
| | 2/2 |
| | 1/230x70 |
| b10 | 517 mm |
| b11 | 380 mm |
| h13 | 85 mm |
| 11 | 1870 mm |
| 12 | 720 mm |
| b1 | 800 mm |
| s / e / l | 60 mm / 180 mm / 1150 mm |
| b3 | 680 mm |
| m1 | 35 mm |
| m2 | 20 mm |
| Wa | 1400 mm |
| | 6 km/h / 6 km/h |
| | 0.12 m/s / 0.24 m/s |
| | 0.12 m/s / 0.24 m/s |
| | 8 % / 10 % |
| | Electro magnetic |
| | |
| | 1.20 kW |
| | 3 kW |
| | 24 V / 180 Ah |
| _ | 160 kg |
| | |
| | AC |
| | 65 dB |

Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1940 | 2190 | 2390 |
| h3 - Mast lifting height | mm | 2940 | 3440 | 3840 |
| h4 - Mast extended height | mm | 3365 | 3865 | 4265 |
| Residual capacity at max height | kg | 1200 | 1000 | 800 |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1940 | 2190 |
| h2 - Mast free lift | mm | 1510 | 1760 |
| h3 - Mast lifting height | mm | 2935 | 3435 |
| h4 - Mast extended height | mm | 3365 | 3865 |
| Residual capacity at max height | kg | 1200 | 1000 |

| Free Lift Triplex (FLT) | | FLT 42 |
|---------------------------------|----|--------|
| h1 - Mast lowered height | mm | 1965 |
| h2 - Mast free lift | mm | 1470 |
| h3 - Mast lifting height | mm | 4240 |
| h4 - Mast extended height | mm | 4735 |
| Residual capacity at max height | kg | 650 |



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