Technical sheet :



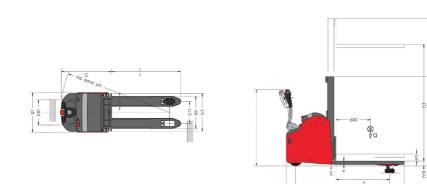




| Technical characteristics     1.1   Manufacturer     1.2   Model Name     1.3   Power source     1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backests to center of rear axle     1.9   Wheelbase     2.1   Service weight     2.2   Weight on front axle (Unladen) / rear axle (Unladen)     2.3   Weight on front axle (Unladen) / rear axle (Unladen)     3.4   Number of stabilizer wheels / Size of load wheels     3.5   Number of four wheels / Size of load wheels     3.6   Front wheel / Size of drive wheels     3.5   Number of four wheels / Size of drive wheels     3.6   Front wheel / Size of drive wheels     3.7   Rear wheel gauge     0///rear wheel gauge   Immensione     1/15   Fork height in low position     4.15   Fork section / widh / length     4.20   Length to fare of forks     4.21   Overall widh     4.22   Fork section / weidh sec     4.23   Ground clearance at centhe of wheelbase   |       |   |
|--|-------|---|
| 1.2   Model Name     1.3   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     1.9   Wheelbase     Weight   Service weight     2.1   Service weight     2.2   Weight on front axle (Unladen) / rear axle (Unladen)     Wheelbase   Weight on front axle (Unladen) / rear axle (Unladen)     Wheelbase   Weight on front axle (Unladen) / rear axle (Unladen)     Wheelbase   Service weight     3.1   Times type     3.3   Number of tabilizer wheels     3.4   Number of tabilizer wheels     3.5   Number of tabilizer wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     3.8   Fork height in low position     4.15   Fork section / wdth / length     4.20   Overall length     4.21   Overall width     4.22   Forks section / wdth / length     4.23   Ground clearance at cente of wheelbase     4.33   Ground clearance below  |       |   |
| 1.3   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 near axle     1.9   Wheelbase     Weight on fond axle ((aden) / rear axle ((aden))     2.1   Service weight     2.2   Weight on fond axle ((aden) / rear axle (Unladen)     Weight on fond axle ((aden) / rear axle (Unladen)     Weight on fond axle (Unladen) / rear axle (Unladen)     Weight on fond axle (Unladen) / rear axle (Unladen)     Weight on fond axle (Unladen) / rear axle (Unladen)     Weight on fond axle (Unladen) / rear axle (Unladen)     Weight on fond axle (Unladen) / rear axle (Unladen)     Weight on fond axle (Unladen) / rear axle (Unladen)     Weight on fond axle (Unladen)     State of the stabilizer wheels     3.5     Number of tow wheels / Size of drive wheels     3.5     Dimensions     Dimensions     Dimensions     Assection / widh / length     4.20  |       |   |
| 1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of near axle     1.9   Wheelbase     Weight   Service weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on state (Unladen) / rear axle (Unladen)     Wheelbase   Maxet     3.1   Times type     3.3   Number of load wheels / Size of load wheels     3.4   Number of stabilizer wheels     3.5   Number of front wheels / Size of load wheels     3.5   Number of front wheels / Size of load wheels     3.6   Fort wheel gauge     Dimensions   Dimensions     4.15   Fork height in low position     4.19   Overall length     4.22   Forks section / width / length     4.23   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Fork section / widden     4.35   Tuming radius     4.36   Horight tilden / unladen <td< th=""><th></th><th></th></td<>   |       |   |
| 1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (laden) / rear axle (laden)     2.4   Weight on front axle (laden) / rear axle (laden)     3.1   Tites 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 / Size of drive wheels     3.6   Front wheels / Size of drive wheels     3.7   Rear wheel gauge     0   Distance for drive wheels / Size of drive wheels     3.6   Front wheel gauge     0   Unength of drive wheels / Size of drive wheels     4.15   Fork height in low position     4.16   Ground Clearance below mast     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section y width / length     4.33   Aisle Width for pallets 800 x 1200 crossways  |       |   |
| 1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (luiden) / rear axle (luiden)     Weight on front axle (luiden) / rear axle (luiden)   Wheels     3.1   Tires type     3.3   Number of load wheels / Size of fload wheels     3.4   Number of draw wheels / Size of drive wheels     3.5   Number of float wheels / Size of drive wheels     3.5.   Number of drive wheels / Size of drive wheels     3.5.   Number of float wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     3.8   Dimensions     4.15   Fork height in low position     4.20   Length to froa alke (drive drive)     4.21   Overall width     4.22   Fork section / width / length     4.23   Ground clearance at centre of wheelbase     4.33   Alsie Width for pallets 800 1200 crossways     4.34   Ground clearance at centre of wheelbase     4.35                         |       |   |
| 1.8   Distance from Load backrest to center of rear axle     1.9   Whelbase     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (Unladen) / rear axle (Unladen) <b>Wheel</b> Number of load wheels / Size of load wheels     3.1   Tites type     3.3   Number of load wheels / Size of the stabilizer wheels     3.4   Number of front wheels / Size of the stabilizer wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     0   Dimensions     4.15   Fork height in low position     4.20   Length to face of forks     4.21   Overall width     4.22   Fork cariage width     4.31   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 1000 x 1200 crossways     4.35   Tuming radius     4.9   Height 1000 x 1200 crossways     4.34   Aisle Width for pallets 1000 x 1200 crossways     4.35   Tuming radius <                                |       |   |
| 1.9   Whelbase     Velight   Service weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (Unladen) / rear axle (Unladen)     Whels   Whels     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of front wheels / Size of drive wheels     3.5   Number of front wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     3.6   Front wheel gauge     3.7   Rear wheel gauge     3.6   Front wheel gauge     4.15   Fork height in low position     4.19   Overall length     4.20   Length for for all ength     4.21   Overall width     4.22   Forks section / width / length     4.23   Ground clearance at cente of wheelbase     4.31   Ground clearance at cente of wheelbase     4.32   Ground clearance at cente of wheelbase     4.33   Turning radius     4.34   Aisle Width for pallets 800 x 1200 crossways     4.   |       |   |
| Weight     2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (luniaden) / rear axle (luniaden)     Wheils   Tires type     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of front wheels / Size of the stabilizer wheels     3.5   Number of front wheels / Fear wheels     3.5.2   Number of front wheels / Size of drive wheels     3.6   Front wheel gauge     Dimensions   Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Fork section / width / length     4.22   Fork section / width / length     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Tirming radius     4.36   Tirming radius     4.37   Torke speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Engine     5.1   Travel speed (laden / unladen) <th></th> <th></th>  |       |   |
| 2.1   Service weight     2.2   Weight on front axle (laden) / rear axle (laden)     2.3   Weight on front axle (lunden) / rear axle (lunden)     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.4   Number of tont wheels / Size of load wheels     3.5   Number of font wheels / Far wheels     3.5   Number of font wheels / size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     0   Dimension     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of finks     4.21   Overall width     4.22   Fork section / width / length     4.23   Ground clearance below mast     4.31   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.9   Height Uller min. / max.     Performances   Differe     5.3   Lowering speed (laden / unladen)     5.3   Lowering speed (l   | 1.9   |   |
| 2.2   Weight on front axie (laden) / rear axie (laden)     2.3   Weight on front axie (Unladen) / rear axie (Unladen)     Wheels   3.1     3.1   Tires type     3.3   Number of toad wheels / Size of load wheels     3.4   Number of stabilizer wheels / Size of the stabilizer wheels     3.5   Number of front wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge <b>Dimensions Dimensions</b> 4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.9   Height tiller min. / max. <b>Performances Priomances</b> 5.1   Tarvel speed (laden / unladen)     5.2   Lowering speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4  |       |   |
| 2.3   Weight on front axle (Unladen) / rear axle (Unladen)     Wheels     3.1   Tites 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 drive wheels / Size of drive wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.5.4   Number of drive wheels / Size of drive wheels     3.5   Font wheelg auge <b>Dimensions Dimensions</b> 4.15   Fork height in low position     4.19   Overall width     4.20   Length to face of forks     4.21   Overall width     4.22   Forks section / width / length     4.23   Ground clearance below mast     4.31   Ground clearance below mast     4.32   Ground clearance below troe crossways     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Height tiller min. / max.     Performances <b>Dimensions</b> 5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lovering speed (laden / unladen)     5   |       | -   |
| Weels       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 / Far wheels       3.5.2     Number of front wheels / Size of drive wheels       3.6     Front wheel gauge       0     Dimensions       4.15     Fork height in low position       4.20     Length to face of forks       4.21     Overall length       4.22     Fork section / width / length       4.31     Ground clearance techtre of wheelbase       4.33     A isle Width for pallets 1000 x 1200 crossways       4.34     Aisle Width for pallets 800 x 1200 crossways       4.35     Turning radius       4.9     Height tiller min. / max.       Performances     Extra crade train of wheels       5.1     Travel speed (laden / unladen)       5.2     Lifting speed (laden / unladen)       5.3     Lowering speed (laden / unladen)       5.3     Lowering S2 60 min       6.1     Drive motor rating 82 50 min       6.2     Lift motor rating 82 10 |       |   |
| 3.1   Tires type     3.3   Number of load wheels / Size of the stabilizer wheels     3.4   Number of stabilizer wheels / Size of drive wheels     3.5   Number of front wheels / Size of drive wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     3.7   Rear wheel gauge     3.7   Rear wheel gauge     3.8   Front wheel gauge     3.9   Pare wheel gauge     3.1   Fork height in low position     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.33   Ground clearance at centre of wheelbase     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.39   Height iller min. / max.     Performances   Piformances     5.1   Travel speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Battery according to DIN 43531/35/36 A, B, C   | 2.3   |   |
| 3.3   Number of load wheels / Size of load wheels     3.4   Number of fabilizer wheels / Size of the stabilizer wheels     3.5   Number of drive wheels / Size of drive wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge     0   Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Ground clearance below mast     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Tuming radius     4.9   Height tiller min. / max.     Performances   Engine     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering S2 60 min     6.4   Battery according to DIN 43531/35/36 A, B, C     6.5   Battery according to DIN 43531/35/36 A, B, C                                       |       |   |
| 3.4   Number of stabilizer wheels / Size of the stabilizer wheels     3.5   Number of front wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     0   Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Ground clearance below mast     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Linegith to rallets 800 x 1200 crossways     4.35   Tuming radius     4.36   Width for pallets 800 x 1200 crossways     4.37   Deredition (unladen)     5.3   Tavel speed (laden / unladen)     5.4   Drive motor rating 32 60 min     5.5.1   Tavel speed (laden / unladen)     5.8   Max Gradeability (laden / unladen)     5.8.1   Drive motor rating 32 50 %     6.3   Battery according to DIN 43531/35/36 A, B, C     6.4   Battery according to DIN 43531/35/36 A, B, C     6.5   Battery woltage / capacity     6.5   |       |   |
| 3.5   Number of front wheels / rear wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     01   Otmensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Forks section / width / length     4.23   Fork carriage width     4.31   Ground clearance at centre of wheelbase     4.33   A isle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.9   Height tiller min. / max.     Performances   1     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Brine     6.1   Dive motor rating 32 50 min     6.2   Lift motor rating 22 60 min     6.3   Battery valtage / capacity     6.4   Battery weight (+/- 5%)     6.5   Batter  |       |   |
| 3.5.2   Number of drive wheels / Size of drive wheels     3.6   Front wheel gauge     3.7   Rear wheel gauge     0   Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Forks section / width / length     4.23   Ground clearance below mast     4.31   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.9   Height tiller min. / max.     Performances   Diffing speed (laden / unladen)     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Battery according to DIN 43531/35/36 A, B, C     6.1   Drive motor rating 22 60 min     6.2   Lift motor rating 23 15%     6.3   Battery voltage / capacity     6.4   Battery weight (+/- 5%)     Miscellaneous   Miscelaneous<   |       |   |
| 3.6Front wheel gauge3.7Rear wheel gaugeDimensions4.15Fork height in low position4.19Overall length4.20Length to face of forks4.21Overall width4.22Forks section / width / length4.23Ground clearance below mast4.31Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Tuming radius4.9Height tiller min. / max.Performances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Service brake6.1Drive motor rating \$2 60 min6.2Lift motor rating \$2 60 min6.3Battery voltage / capacity6.5Battery weight (+/- 5%)MiscellancousMiscellancous8.1Type of drive control   | 3.5   |   |
| 3.7   Rear wheel gauge     Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.24   Fork carriage width     4.31   Ground clearance below mast     4.32   Ground clearance to centre of wheelbase     4.33   A isle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.9   Height tiller min. / max.     Performances   Engine     5.1   Travel speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Staff     5.10   Service brake     Engine   Engine     6.1   Drive motor rating S2 60 min     6.2   Lift motor rating S2 60 min     6.3   Battery voltage / capacity     6.4   Battery voltage / capacity     6.5   Battery weight (4/- 5%)     Miscellaneous   Miscellaneous     Miscellaneous </th <th>3.5.2</th> <th>Number of drive wheels / Size of drive wheels</th>  | 3.5.2 | Number of drive wheels / Size of drive wheels           |
| Dimensions     4.15   Fork height in low position     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Fork section / width / length     4.23   Fork carriage width     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Turning radius     4.9   Height tiller min. / max.     Performances   Engine     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Engine     6.1   Drive motor rating \$2.50 min     6.2   Lift motor rating \$2.50 min     6.3   Battery voltage / capacity     6.4   Battery voltage / capacity     6.5   Battery weight (+/- \$%)     Miscellanecus   Miscellanecus     8.1   Type of drive control  | 3.6   | Front wheel gauge                                       |
| 4.15Fork height in low position4.19Overall length4.20Length to face of forks4.21Overall width4.22Forks section / width / length4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Turning radius4.9Height tiller min. / max.Performances5.1Tarvel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Service brakeEngine6.1Drive motor rating S2 60 min6.2Lift motor rating S2 60 min6.3Battery voltage / capacity6.5Battery voltage / capacity6.5Battery voltage / capacity6.5Battery voltage / capacity8.1Type of drive control   | 3.7   | Rear wheel gauge  |
| 4.19Overall length4.20Length to face of forks4.21Overall width4.22Forks section / width / length4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Tuming radius4.9Height tiller min. / max.Perfomances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Service brake6.1Drive motor rating 32 60 min6.2Lift motor rating at S3 15%6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control   |       | Dimensions  |
| 4.20Length to face of forks4.21Overall width4.22Forks section / width / length4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Tuming radius4.9Height tiller min. / max.Performances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.4Service brake6.1Drive motor rating 32 60 min6.2Lift motor rating at S3 15%6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control  | 4.15  | Fork height in low position                             |
| 4.21Overall width4.22Forks section / width / length4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Turning radius4.9Height tiller min. / max.Performances5.1Travel speed (laden / unladen)5.2Lifting speed (laden / unladen)5.3Lowering speed (laden / unladen)5.8Max Gradeability (laden / unladen)5.10Service brake6.1Drive motor rating S2 60 min6.2Lift motor rating S2 60 min6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control  | 4.19  | Overall length  |
| 4.22Forks section / width / length4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Turning 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 \$1 \$3 15%6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control  | 4.20  | Length to face of forks                                 |
| 4.24Fork carriage width4.31Ground clearance below mast4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Tuming 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 \$1 \$3 15%6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control   | 4.21  | Overall width   |
| 4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle Width for pallets 800 x 1200 crossways     4.35   Tuming radius     4.9   Height tiller min. / max.     Performances   Performances     5.1   Travel speed (laden / unladen)     5.2   Lifting speed (laden / unladen)     5.3   Lowering speed (laden / unladen)     5.4   Service brake     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     8.1   Type of drive control   | 4.22  | Forks section / width / length                          |
| 4.32Ground clearance at centre of wheelbase4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Tuming 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 S2 60 min6.2Lift motor rating at S3 15%6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control  | 4.24  | Fork carriage width                                     |
| 4.33Aisle Width for pallets 1000 x 1200 crossways4.34Aisle Width for pallets 800 x 1200 crossways4.35Tuming 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 S2 60 min6.2Lift motor rating st S3 15%6.3Battery according to DIN 43531/35/36 A, B, C6.4Battery voltage / capacity6.5Battery weight (+/- 5%)Miscellaneous8.1Type of drive control   | 4.31  | Ground clearance below mast                             |
| 4.34   Aisle Width for pallets 800 x 1200 crossways     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 S2 60 min     6.2   Lift motor rating st 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     8.1   Type of drive control  | 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     6.1   Drive motor rating S2 60 min     6.2   Lift motor rating st 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     8.1   Type of drive control  | 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)     5.7   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     8.1   Type of drive control   | 4.34  | Aisle Width for pallets 800 x 1200 crossways            |
| 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)     5.7   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     8.1   Type of drive control   |       |   |
| 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   Niscellaneous     8.1   Type of drive control  | 4.9   |   |
| 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     8.1   Type of drive control   |       |   |
| 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   Niscellaneous     8.1   Type of drive control   | 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   Niscellaneous     8.1   Type of drive control  | 5.2   | Lifting speed (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   8.1  | 5.3   | Lowering speed (laden / unladen)                        |
| 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     8.1   Type of drive control  | 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     8.1   Type of drive control   | 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     8.1   Type of drive control   |       | Engine  |
| 6.3   Battery according to DIN 43531/35/36 A, B, C     6.4   Battery voltage / capacity     6.5   Battery weight (+/- 5%)     Miscellaneous     8.1   Type of drive control  | 6.1   | Drive motor rating S2 60 min                            |
| 6.4 Battery voltage / capacity   6.5 Battery weight (+/- 5%)   Miscellaneous   8.1 Type of drive control   |       |   |
| 6.5 Battery weight (+/- 5%)   Miscellaneous   8.1 Type of drive control  | 6.3   | Battery according to DIN 43531/35/36 A, B, C            |
| Miscellaneous       8.1     Type of drive control  | 6.4   | Battery voltage / capacity                              |
| 8.1 Type of drive control  | 6.5   |   |
|  |       | Miscellaneous   |
| 8.4 Sound level at the driver's ear according to DIN 12 053  | 8.1   | Type of drive control                                   |
|  | 8.4   | Sound level at the driver's ear according to DIN 12 053 |

| <b>ES 410</b> Created on August 2, 2025 at 1:50 A                                 | AM UTC |
|---|--------|
| Metric  |        |
| Manitou   |        |
| ES 410  |        |
| Electrical  |        |
| Pedestrian  |        |
| Q 1000 kg   |        |
| c 600 mm  |        |
| x 723 mm  |        |
| y 1286 mm   |        |
|   |        |
| 870 kg  |        |
| 709 kg / 1161 kg  |        |
| 609 kg / 261 kg   |        |
|   |        |
| Polyurethane  |        |
| 2 / 125x50  |        |
| 1 / 125x50  |        |
| 2 / 2   |        |
| 1/230x70  |        |
| b10 517 mm  |        |
| b11 380 mm  |        |
|   |        |
| h13 85 mm   |        |
| l1 1875 mm  |        |
| l2 725 mm   |        |
| b1 832 mm   |        |
| s / e / l 60 mm / 180 mm / 1150 mm  |        |
| b3 680 mm<br>m1 35 mm   |        |
| m1 35 mm<br>m2 30 mm  |        |
| Ast 2605 mm   |        |
| Ast 2518 mm   |        |
| Wa 1516 mm  |        |
| h14 / h14 920 mm / 1425 mm  |        |
|   |        |
| 6 km/h / 6 km/h   |        |
| 0.14 m/s / 0.24 m/s   |        |
|   |        |
| 0.30 m/s / 0.20 m/s   |        |
| 0.30 m/s / 0.20 m/s<br>8 % / 10 %   |        |
| 8 % / 10 %  |        |
|   |        |
| 8 % / 10 %  |        |
| 8 % / 10 %<br>Electro magnetic  |        |
| 8 % / 10 %<br>Electro magnetic<br>  |        |
| 8 % / 10 %<br>Electro magnetic<br>1.20 kW<br>3 kW                                 |        |
| 8 % / 10 %<br>Electro magnetic<br>1.20 kW<br>3 kW<br>DIN 43535-B                  |        |
| 8 % / 10 %<br>Electro magnetic<br>1.20 kW<br>3 kW<br>DIN 43535-B<br>24 V / 160 Ah |        |
| 8 % / 10 %<br>Electro magnetic<br>1.20 kW<br>3 kW<br>DIN 43535-B<br>24 V / 160 Ah |        |

## ES 410 - Dimensional drawing



## 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 | 1000   | 900    | 750    |

| 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 | 1000   | 900    |

| 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 | 550    |



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