Technical sheet:

# ME 430 LIFT

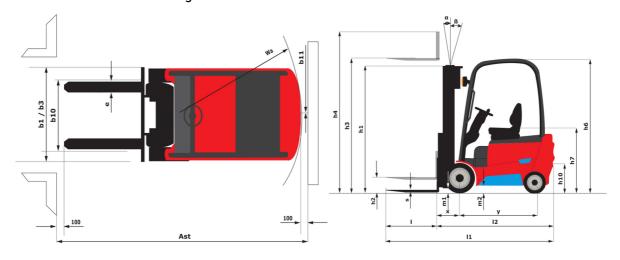






|            |   | ME 430 EIFT OFCUTE | u on December 14, 2023 at 0.34 AM |  |
|------------|---|--------------------|-----------------------------------|--|
|            | Technical characteristics                               |                    | Metric                            |  |
| 1.1        | Manufacturer  |                    | Manitou                           |  |
| 1.2        | Model Name  |                    | ME 430 LIFT                       |  |
| 1.3        | Power source  |                    | Electrical - Lithium              |  |
| 1.4        | Operator type   |                    | Seated                            |  |
| 1.5        | Max. capacity   | Q                  | 3000 kg                           |  |
| 1.6        | Load center of gravity                                  | C                  | 500 mm                            |  |
| 1.8        | Load distance, centre of drive axle to fork             | X                  | 463.50 mm                         |  |
| 1.9        | Wheelbase   | у                  | 1650 mm                           |  |
|            | Standard mast reference of the machine                  |                    | FVD 30                            |  |
|            | Weight  |                    |                                   |  |
| 2.1        | Service weight  |                    | 4610 kg                           |  |
| 2.2        | Weight on front axle (laden) / rear axle (laden)        |                    | 6610 kg / 1000 kg                 |  |
| 2.3        | Weight on front axle (Unladen) / rear axle (Unladen)    |                    | 1960 kg / 2650 kg                 |  |
| 2.5        | Wheels  |                    | 1700 kg / 2000 kg                 |  |
| 3.1        | Tires type  |                    | Solid tires                       |  |
| 3.2        | Dimensions of front wheels                              |                    | 23x10-12-18PR                     |  |
| 3.3        | Dimensions of rear wheels                               |                    | 18x7-8-16PR                       |  |
|            | Number of front wheels / rear wheels                    |                    |                                   |  |
| 3.5        |   |                    | 2 / 2                             |  |
| 3.5.2      | Number of drive wheels                                  | h10                |                                   |  |
| 3.6        | Front wheel gauge                                       | b10                | 1044 mm                           |  |
| 3.7        | Rear wheel gauge  | b11                | 960 mm                            |  |
|            | Dimensions  |                    |                                   |  |
| 4.7        | Height of overhead guard (cabin)                        | h6                 | 2186 mm                           |  |
| 4.8        | Seat height/stand height                                | h7                 | 1155 mm                           |  |
| 4.12       | Height of towing bar (coupling height)                  | h10                | 440 mm                            |  |
| 4.19       | Overall length  | l1                 | 3522.50 mm                        |  |
| 4.20       | Length to face of forks                                 | 12                 | 2452.50 mm                        |  |
| 4.21       | Overall width   | b1                 | 1298 mm                           |  |
| 4.22       | Forks section / width / length                          | s / e / l          | 45 mm x 122 mm x 1070 mm          |  |
| 4.23       | Fork carriage ISO 2328 (class/form) A/B                 |                    | 3A                                |  |
| 4.24       | Fork carriage width                                     | b3                 | 1100 m                            |  |
| 4.31       | Ground clearance below mast                             | m1                 | 127 mm                            |  |
| 4.32       | Ground clearance at centre of wheelbase                 | m2                 | 115 mm                            |  |
| 4.33       | Aisle Width for pallets 1000 x 1200 crossways           | Ast                | 3854 mm                           |  |
| 4.34       | Aisle width for 800 x 1200 pallet lengthways            | Ast                | 4053.50 mm                        |  |
| 4.35       | Turning radius  | Wa                 | 2190 mm                           |  |
|            | Performances  |                    |                                   |  |
| 5.1        | Travel speed (laden / unladen)                          |                    | 19 km/h-20 km/h                   |  |
| 5.2        | Lifting speed (laden / unladen)                         |                    | 0.45 m/s-0.55 m/s                 |  |
| 5.3        | Lowering speed (laden / unladen)                        |                    | 0.50 m/s-0.53 m/s                 |  |
| 5.5        | Drawbar pull (Laden / Unladen)                          |                    | 8500 daN / 9500 daN               |  |
| 5.7        | Gradeability (laden / unladen)                          |                    | 13 % / 24 %                       |  |
| 5.10       | Service brake   |                    | Hydraulic                         |  |
|            | Engine  |                    |                                   |  |
| 6.1        | Drive motor rating S2 60 min                            |                    | 20 kW                             |  |
| 6.2        | Lift motor rating at S3 15%                             |                    | 26 kW                             |  |
| 6.3        | Battery according to DIN 43531/35/36 A, B, C            |                    | Lithium                           |  |
| 6.4        | Battery voltage / capacity                              |                    | 76.80 V / 460 Ah                  |  |
| 6.5        | Battery weight (+/- 5%)                                 |                    | 310 kg                            |  |
| 6.6        | Energy consumption according to VDI cycle (kWh/h)       |                    | 8 kWh/h                           |  |
|            | Miscellaneous   |                    | - Armyn                           |  |
| 8.2        | Working hydraulic pressure for attachments              |                    | 160 bar                           |  |
|            | Oil flow rate for attachments                           |                    | 25 l/min                          |  |
| 8.3<br>8.4 | Sound level at the driver's ear according to DIN 12 053 |                    |                                   |  |
| 0.4        | Sound level at the universiteal according to DIN 12 053 |                    | 70 dB                             |  |

#### ME 430 LIFT - Dimensional drawing



### Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               | FVD 30 | FVD 33 | FVD 37 | FVD 40 | FVD 45 |      |
|--|--------|--------|--------|--------|--------|------|
| α - Mast/fork carriage tilt, forward °                     |        | 6      | 6      | 6      | 6      | 6    |
| β - Mast/fork carriage tilt, backward                      | ۰      | 12     | 12     | 12     | 12     | 6    |
| h1 - Mast lowered height                                   | mm     | 2007   | 2157   | 2407   | 2607   | 2857 |
| h2 - Mast free lift  | mm     | 145    | 145    | 145    | 145    | 145  |
| h3 - Mast lifting height                                   | mm     | 3000   | 3300   | 3700   | 4000   | 4500 |
| h4 - Mast extended height                                  | mm     | 4142   | 4442   | 4842   | 5142   | 5642 |
| Residual capacity at max height                            | kg     | 3000   | 3000   | 3000   | 3000   | 3000 |
| Residual capacity with integrated side shift at max heigth | kg     | 2900   | 2900   | 2900   | 2900   | 2900 |

| Free Lift Triplex (FLT)                                    |    | FLT 40 | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--|----|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | ۰  | 6      | 6      | 6      | 6      | 3      | 3      | 3      |
| β - Mast/fork carriage tilt, backward                      | ۰  | 6      | 12     | 12     | 6      | 12     | 6      | 6      |
| h1 - Mast lowered height                                   | mm | 2007   | 2157   | 2307   | 2407   | 2607   | 2857   | 3057   |
| h2 - Mast free lift  | mm | 865    | 1015   | 1165   | 1265   | 1465   | 1715   | 1915   |
| h3 - Mast lifting height                                   | mm | 4000   | 4500   | 4800   | 5000   | 5500   | 6000   | 6500   |
| h4 - Mast extended height                                  | mm | 5142   | 5642   | 5942   | 6142   | 6642   | 7142   | 7642   |
| Residual capacity at max height                            | kg | 3000   | 3000   | 2900   | 2850   | 2670   | 2350   | 2000   |
| Residual capacity with integrated side shift at max heigth | kg | 2900   | 2900   | 2800   | 2750   | 2570   | 2250   | 1900   |

## **Equipment**

| Standard   |  |  |  |  |
|--|--|--|--|--|
| Audio warning on reverse movements                     |  |  |  |  |
| Battery - 35.3kWh - Lithium-ion                        |  |  |  |  |
| Electric parking brake                                 |  |  |  |  |
| External charger - 10kW AC - Lithium-ion - Three-phase |  |  |  |  |
| LED rear work light                                    |  |  |  |  |
| Mechanical suspension PVC seat - Grammer MSG65         |  |  |  |  |
| Overhead guard - With roof window (Tempered glass)     |  |  |  |  |
| Panoramic interior rear view mirror                    |  |  |  |  |
| Rear working light                                     |  |  |  |  |

| Optional  |  |  |  |  |
|---|--|--|--|--|
| Battery - 46.7kWh - Lithium-ion                       |  |  |  |  |
| Charger - 20kW - 32A - 380V - Lithium-ion             |  |  |  |  |
| Closed cab  |  |  |  |  |
| External charger - 8kW AC - Lithium-ion - Three-phase |  |  |  |  |
| Heater  |  |  |  |  |
| LED blue lamp   |  |  |  |  |
| LED rear blue lamp                                    |  |  |  |  |
| Mini levers - 4 hydraulics mouvments                  |  |  |  |  |
| Non marking tires                                     |  |  |  |  |
| Open cab  |  |  |  |  |
| Overhead guard - With tempered glass windshield       |  |  |  |  |
| Writing table   |  |  |  |  |





#### **Head Office**

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