

Technical sheet :

# ME 315 C

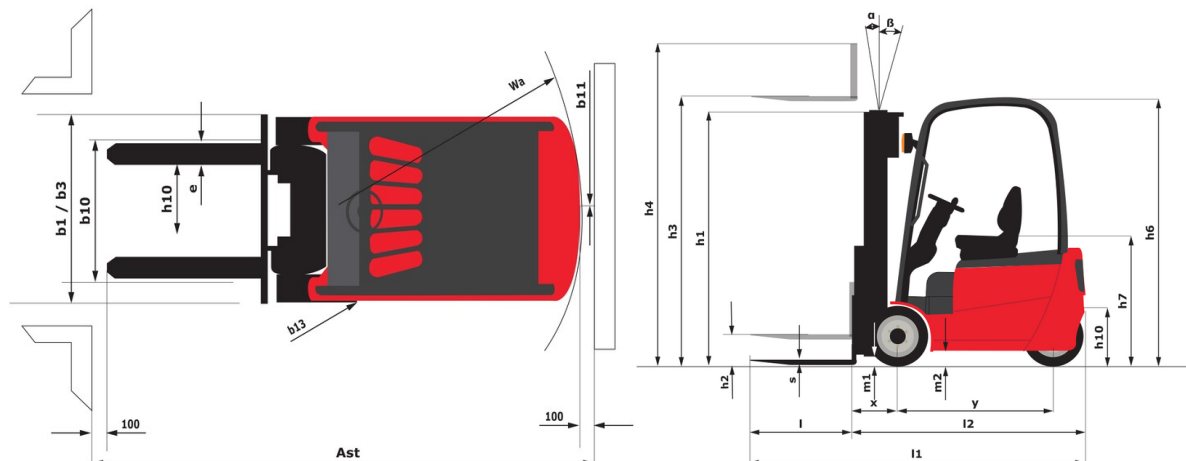
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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                   | Imperial            |
|-------|-----------------------------------------------------------------|-----------|--------------------------|---------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  | Manitou             |
| 1.2   | Model Name                                                      |           | ME 315c                  | ME 315c             |
| 1.3   | Power source                                                    |           | Electrical               | Electrical          |
| 1.4   | Operator type                                                   |           | Seated                   | Seated              |
| 1.5   | Max. capacity                                                   | Q         | 1500 kg                  | 3307 lb             |
| 1.6   | Load center of gravity                                          | c         | 500 mm                   | 20 in               |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 365 mm                   | 14 in               |
| 1.9   | Wheelbase                                                       | y         | 1220 mm                  | 48 in               |
|       | <b>Weight</b>                                                   |           |                          |                     |
| 2.1   | Service weight                                                  |           | 3000 kg                  | 6614 lb             |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 3930 kg / 570 kg         | 8664 lb / 1257 lb   |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1370 kg / 1630 kg        | 3020 lb / 3594 lb   |
|       | <b>Wheels</b>                                                   |           |                          |                     |
| 3.1   | Tires type                                                      |           | Super Elastic            | Super Elastic       |
| 3.2   | Dimensions of front wheels                                      |           | 18x7-8                   | 18x7-8              |
| 3.3   | Dimensions of rear wheels                                       |           | 200/50-10                | 200/50-10           |
| 3.5   | Number of front wheels / rear wheels                            |           | 2 / 1                    | 2 / 1               |
| 3.5.2 | Number of drive wheels                                          |           | 1                        | 1                   |
| 3.6   | Front wheel gauge                                               | b10       | 835 mm                   | 33 in               |
|       | <b>Dimensions</b>                                               |           |                          |                     |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2105 mm                  | 83 in               |
| 4.8   | Seat height/stand height                                        | h7        | 1020 mm                  | 40 in               |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 500 mm                   | 20 in               |
| 4.19  | Overall length                                                  | l1        | 3015 mm                  | 119 in              |
| 4.20  | Length to face of forks                                         | l2        | 1865 mm                  | 73 in               |
| 4.21  | Overall width                                                   | b1        | 990 mm                   | 39 in               |
| 4.22  | Forks section / width / length                                  | s / e / l | 35 mm x 100 mm x 1150 mm | 1 in x 4 in x 45 in |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 2A                       | 2A                  |
| 4.24  | Fork carriage width                                             | b3        | 1000 mm                  | 39 in               |
| 4.31  | Ground clearance below mast                                     | m1        | 100 mm                   | 4 in                |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 100 mm                   | 4 in                |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 3201 mm                  | 126 in              |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 3325 mm                  | 131 in              |
| 4.35  | Turning radius                                                  | Wa        | 1510 mm                  | 59 in               |
|       | <b>Performances</b>                                             |           |                          |                     |
| 5.1   | Travel speed (laden / unladen)                                  |           | 9.50 km/h-10.50 km/h     | 6 mph-7 mph         |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.22 m/s-0.34 m/s        | 0.72 ft/s-1 ft/s    |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.58 m/s-0.48 m/s        | 2 ft/s-2 ft/s       |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 500 daN / 530 daN        | 500 daN / 530 daN   |
| 5.7   | Gradeability (laden / unladen)                                  |           | 7 % / 9 %                | 7 % / 9 %           |
| 5.10  | Service brake                                                   |           | Hydraulic                | Hydraulic           |
|       | <b>Engine</b>                                                   |           |                          |                     |
| 6.1   | Drive motor rating S2 60 min                                    |           | 4 kW                     | 4 kW                |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                    |           | DIN43535 A               | DIN43535 A          |
| 6.4   | Battery voltage / capacity                                      |           | 24 V / 840 Ah            | 24 V / 840 Ah       |
| 6.6   | Energy consumption                                              |           | 3.50 kWh                 | 3.50 kWh            |
| 7.2   | Engine power according to ISO 1585                              |           | 8.60 kW                  | 8.60 kW             |
|       | <b>Miscellaneous</b>                                            |           |                          |                     |
| 8.1   | Type of drive control                                           |           | Electric                 | Electric            |
| 8.2   | Working hydraulic pressure for attachments                      |           | 145 bar                  | 2103 PSI            |
| 8.3   | Oil flow rate for attachments                                   |           | 16 l/min                 | 4 US gpm            |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 70 dB                  | < 70 dB             |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 40 dB                    | 40 dB               |

## ME 315 C - Dimensional drawing



# Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                              |         | FVD 27       | FVD 30       | FVD 33       | FVD 36       | FVD 40       | FVD 43       | FVD 45       |
|-----------------------------------------------------------|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Mast/fork carriage tilt, forward                          | °       | 6            | 6            | 6            | 6            | 3.50         | 3.50         | 3.50         |
| Mast/fork carriage tilt, backward                         | °       | 5            | 5            | 5            | 5            | 5            | 5            | 5            |
| h1 - Mast lowered height                                  | in (mm) | 72 (1830)    | 78 (1980)    | 83.9 (2130)  | 91.7 (2330)  | 101.6 (2580) | 107.5 (2730) | 111.4 (2830) |
| h2 - Mast free lift                                       | in (mm) | 6.1 (155)    | 6.1 (155)    | 6.1 (155)    | 6.1 (155)    | 6.1 (155)    | 6.1 (155)    | 6.1 (155)    |
| h3 - Mast lifting height                                  | in (mm) | 106.3 (2700) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) | 169.3 (4300) | 177.2 (4500) |
| h4 - Mast extended height                                 | in (mm) | 127.3 (3233) | 139.1 (3533) | 150.9 (3833) | 162.7 (4133) | 178.5 (4533) | 190.3 (4833) | 198.1 (5033) |
| Residual capacity at max height                           | lb (kg) | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3197 (1450)  |
| Residual capacity with integrated side shift at max heigh | lb (kg) | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3197 (1450)  |
| Residual capacity with hooked-on side shift at max heigh  | lb (kg) | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3197 (1450)  | 3086 (1400)  | 2976 (1350)  |
| Height at max capacity                                    | in (mm) | 106.3 (2700) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) | 169.3 (4300) | 157.5 (4000) |
| Height at max capacity with integrated sideshift          | in (mm) | 106.3 (2700) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) | 169.3 (4300) | 157.5 (4000) |

| Free Lift Duplex (FLD)                                    |         | FLD 27       | FLD 30       | FLD 33       | FLD 36       | FLD 40       |
|-----------------------------------------------------------|---------|--------------|--------------|--------------|--------------|--------------|
| Mast/fork carriage tilt, forward                          | °       | 6            | 6            | 6            | 6            | 3.50         |
| Mast/fork carriage tilt, backward                         | °       | 5            | 5            | 5            | 6            | 5            |
| h1 - Mast lowered height                                  | in (mm) | 72.6 (1845)  | 78.5 (1995)  | 84.4 (2145)  | 90.4 (2295)  | 100.2 (2545) |
| h2 - Mast free lift                                       | in (mm) | 50.6 (1286)  | 56.5 (1436)  | 62.4 (1586)  | 68.3 (1736)  | 78.2 (1986)  |
| h3 - Mast lifting height                                  | in (mm) | 106.3 (2700) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) |
| h4 - Mast extended height                                 | in (mm) | 128.3 (3259) | 140.1 (3559) | 151.9 (3859) | 163.7 (4159) | 179.5 (4559) |
| Residual capacity at max height                           | lb (kg) | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  |
| Residual capacity with integrated side shift at max heigh | lb (kg) | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  |
| Residual capacity with hooked-on side shift at max heigh  | lb (kg) | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3307 (1500)  | 3197 (1450)  |
| Height at max capacity                                    | in (mm) | 106.3 (2700) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) |
| Height at max capacity with integrated sideshift          | in (mm) | 106.3 (2700) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) |

| Free Lift Triplex (FLT)                                   |         | FLT 40       | FLT 43       | FLT 45       | FLT 48      | FLT 50       | FLT 55       | FLT 60       | FLT 65       |
|-----------------------------------------------------------|---------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| Mast/fork carriage tilt, forward                          | °       | 3.50         | 3.50         | 3.50         | 3.50        | 3.50         | 3.50         | 3.50         | 3.50         |
| Mast/fork carriage tilt, backward                         | °       | 5            | 5            | 5            | 5           | 5            | 5            | 5            | 5            |
| h1 - Mast lowered height                                  | in (mm) | 76.6 (1945)  | 80.5 (2045)  | 82.5 (2095)  | 88.4 (2245) | 92.3 (2345)  | 100.2 (2545) | 110 (2795)   | 117.9 (2995) |
| h2 - Mast free lift                                       | in (mm) | 54 (1371)    | 57.9 (1471)  | 59.9 (1521)  | 65.8 (1671) | 69.7 (1771)  | 77.6 (1971)  | 86.6 (2200)  | 94.5 (2400)  |
| h3 - Mast lifting height                                  | in (mm) | 157.5 (4000) | 169.3 (4300) | 177.2 (4500) | 189 (4800)  | 196.9 (5000) | 216.5 (5500) | 236.2 (6000) | 255.9 (6500) |
| h4 - Mast extended height                                 | in (mm) | 180.5 (4584) | 192.3 (4884) | 200.2 (5084) | 212 (5384)  | 219.8 (5584) | 239.5 (6084) | 260 (6605)   | 279.7 (7105) |
| Residual capacity at max height                           | lb (kg) | 3197 (1450)  | 3086 (1400)  | 2976 (1350)  | 2866 (1300) | 2756 (1250)  | 2646 (1200)  | 2205 (1000)  | 1323 (600)   |
| Residual capacity with integrated side shift at max heigh | lb (kg) | 3197 (1450)  | 3086 (1400)  | 2976 (1350)  | 2866 (1300) | 2756 (1250)  | 2646 (1200)  | 2205 (1000)  | 1323 (600)   |
| Residual capacity with hooked-on side shift at max heigh  | lb (kg) | 2976 (1350)  | 2866 (1300)  | 2756 (1250)  | 2646 (1200) | 2535 (1150)  | 2425 (1100)  | 1984 (900)   | 1102 (500)   |
| Height at max capacity                                    | in (mm) | 98.4 (2500)  | 169.3 (4300) | 98.4 (2500)  | 98.4 (2500) | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  |



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