

# Drago 150 180 200

## VDI 2198

|                    |   |  |                             |                            |                             |                           |                             |                           |
|--------------------|---|--|-----------------------------|----------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Characteristics    | 1.1   | Manufacturer   | CESAB                       |                            | CESAB                       |                           | CESAB                       |                           |
|                    | 1.2   | Model designation  | <b>DRAGO 150</b>            |                            | <b>DRAGO 180</b>            |                           | <b>DRAGO 200</b>            |                           |
|                    | 1.3   | Power unit: electric (battery), diesel, petrol, LPG      | diesel / LPG                |                            | diesel / LPG                |                           | diesel / LPG                |                           |
|                    | 1.4   | Operation: manual, pedestrian, stand-on, driver seated   | driver seated               |                            | driver seated               |                           | driver seated               |                           |
|                    | 1.5   | Load capacity  | Q (kg)                      | 1500                       |                             | 1800                      |                             | 2000                      |
|                    | 1.6   | Load centre  | c (mm)                      | 500                        |                             | 500                       |                             | 500                       |
|                    | 1.8   | Axle centre to fork face                                 | x (mm)                      | 390                        | (a)                         | 390                       | (a)                         | 390                       |
|                    | 1.9   | Wheel-base   | y (mm)                      | 1490                       |                             | 1490                      |                             | 1490                      |
|                    | Weights   | 2.1  | Weight                      | kg                         | 3100                        |                           | 3250                        |                           |
| 2.2                |   | Axle load with load, front/rear                          | kg                          | 4130 / 470                 |                             | 4570 / 480                |                             | 4860 / 540                |
| 2.3                |   | Axle load without load, front/rear                       | kg                          | 1530 / 1570                |                             | 1650 / 1600               |                             | 1700 / 1700               |
| Wheels and chassis | 3.1   | Tyres: C=Cushion, SE=Superelastic, PN=Pneumatic, TW=Twin | SE - PN - SE.TW             |                            | SE - PN - SE.TW             |                           | SE - PN - SE.TW             |                           |
|                    | 3.2   | Tyre size, front   | 23x9-10 - 23x9-10 - 6.50-10 |                            | 23x9-10 - 23x9-10 - 6.50-10 |                           | 23x9-10 - 23x9-10 - 6.50-10 |                           |
|                    | 3.3   | Tyre size, rear  | 18x7-8 - 18x7-8 - NO        |                            | 18x7-8 - 18x7-8 - NO        |                           | 18x7-8 - 18x7-8 - NO        |                           |
|                    | 3.5   | Wheels, number front/rear (x = driven)                   | 2x - 4x / 2                 |                            | 2x - 4x / 2                 |                           | 2x - 4x / 2                 |                           |
|                    | 3.6   | Track width, front                                       | b10 (mm)                    | 892 - 892 - 1061           |                             | 892 - 892 - 1061          |                             | 892 - 892 - 1061          |
|                    | 3.7   | Track width, rear  | b11 (mm)                    | 863                        |                             | 863                       |                             | 863                       |
|                    | Dimensions  | 4.1  | Mast tilt, forward/backward | $\alpha / \beta$ (degrees) | 5° / 10°                    |                           | 5° / 10°                    |                           |
| 4.2                |   | Height of mast, lowered                                  | h1 (mm)                     | 2160                       |                             | 2160                      |                             | 2160                      |
| 4.3                |   | Free lift  | h2 (mm)                     | 80                         |                             | 80                        |                             | 80                        |
| 4.4                |   | Lift height  | h3 (mm)                     | 3170                       |                             | 3170                      |                             | 3170                      |
| 4.5                |   | Height of mast, extended                                 | h4 (mm)                     | 3720                       |                             | 3720                      |                             | 3720                      |
| 4.7                |   | Height of overhead guard                                 | h6 (mm)                     | 2120                       |                             | 2120                      |                             | 2120                      |
| 4.8                |   | Height of driver's seat                                  | h7 (mm)                     | 1040                       |                             | 1040                      |                             | 1040                      |
| 4.12               |   | Towing coupling height                                   | h10 (mm)                    | 330                        |                             | 330                       |                             | 330                       |
| 4.19               |   | Overall length   | l1 (mm)                     | 3275                       | (a)                         | 3275                      | (a)                         | 3275                      |
| 4.20               |   | Length to fork face                                      | l2 (mm)                     | 2275                       | (a)                         | 2275                      | (a)                         | 2275                      |
| 4.21               |   | Overall width  | b1/b2 (mm)                  | 1098 - 1135 / 1446         |                             | 1098 - 1135 / 1446        |                             | 1098 - 1135 / 1446        |
| 4.22               |   | Fork dimensions  | s/e/l (mm)                  | 35 x 100 x 1000            |                             | 35 x 120 x 1000           |                             | 35 x 120 x 1000           |
| 4.23               |   | Fork carriage to DIN 15173, class/form A, B              |                             | II A                       |                             | II A                      |                             | II A                      |
| 4.24               |   | Width of fork carriage                                   | b3 (mm)                     | 900                        |                             | 900                       |                             | 900                       |
| 4.31               |   | Floor clearance, mast (with load)                        | m1 (mm)                     | 89                         |                             | 89                        |                             | 89                        |
| 4.32               |   | Floor clearance, centre of wheel-base (with load)        | m2 (mm)                     | 125                        |                             | 125                       |                             | 125                       |
| 4.33               | Aisle width with pallets 1000 x 1200 across forks | Ast (mm)   | 3659                        | (a)                        | 3659                        | (a)                       | 3659                        |                           |
| 4.34               | Aisle width with pallets 800 x 1200 along forks   | Ast (mm)   | 3859                        | (a)                        | 3859                        | (a)                       | 3859                        |                           |
| 4.35               | Turning radius                                    | Wa (mm)  | 2069                        |                            | 2069                        |                           | 2069                        |                           |
| 4.36               | Minimum distance between the centres of rotation  | b13 (mm)   | -                           |                            | -                           |                           | -                           |                           |
| Performance        | 5.1   | Travel speed, with/without load                          | km/h                        | 18                         |                             | 18                        |                             | 18                        |
|                    | 5.2   | Lifting speed, with/without load                         | m/s                         | 0.50 / 0.55                |                             | 0.50 / 0.55               |                             | 0.50 / 0.55               |
|                    | 5.3   | Lowering speed, with/without load                        | m/s                         | < 0.55                     |                             | < 0.55                    |                             | < 0.55                    |
|                    | 5.5   | Tractive force, with/without load                        | N                           | 10500 / 10800              |                             | 10500 / 10800             |                             | 10500 / 10800             |
|                    | 5.7   | Climbing ability, with/without load                      | %                           | 17 / 28                    |                             | 16 / 28                   |                             | 15 / 26                   |
|                    | 5.9   | Acceleration time, with/without load                     | s                           | -                          |                             | -                         |                             | -                         |
|                    | 5.10  | Service brake: mechanical/hydraulic/electric/pneumatic   |                             | hydraulic                  |                             | hydraulic                 |                             | hydraulic                 |
| Drive              | 7.1   | Engine manufacturer / type                               |                             | Toyota 1DZ-II / Toyota 4Y  |                             | Toyota 1DZ-II / Toyota 4Y |                             | Toyota 1DZ-II / Toyota 4Y |
|                    | 7.2   | Engine performance                                       | kW                          | 40 / 37                    |                             | 40 / 37                   |                             | 40 / 37                   |
|                    | 7.3   | Rated speed  | min <sup>-1</sup>           | 2400 / 2400                |                             | 2400 / 2400               |                             | 2400 / 2400               |
|                    | 7.4   | Number of cylinders/displacement                         | cm <sup>3</sup>             | 4-2486 / 4-2237            |                             | 4-2486 / 4-2237           |                             | 4-2486 / 4-2237           |
|                    | 7.5   | Fuel consumption VDI-cycle                               | l/h; kg/h                   | -                          |                             | -                         |                             | -                         |
| Others             | 8.1   | Type of drive control                                    |                             | stepless hydrostatic       |                             | stepless hydrostatic      |                             | stepless hydrostatic      |
|                    | 8.2   | Working pressure for attachments                         | bar                         | 140                        |                             | 140                       |                             | 140                       |
|                    | 8.3   | Oil flow for attachments                                 | l/min                       | -                          |                             | -                         |                             | -                         |
|                    | 8.4   | Noise level at driver's ear                              | dB (A)                      | 79.3 / 79                  |                             | 79.3 / 79                 |                             | 79.3 / 79                 |
|                    | 8.5   | Towing coupling, design/type DIN                         |                             | -                          |                             | -                         |                             | -                         |

(a) with sideshift = + 34 mm

**NOTES:** Unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix. Truck performance and dimensions are nominal and subject to tolerances.

