

CTS 20 R Series electronic forklift truck with tiller, projecting forks and reach mast

Technical data in line with VDI 2198

as at: 03/2016

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|------------------|------|---|---------------------|---------------------|
| Identification | 1.1 | Manufacturer (abbreviation) | Icem | Icem |
| | 1.2 | Manufacturer's type designation | CTS 20/302 R | CTS 20/451 R |
| | 1.3 | Drive | electric | electric |
| | 1.4 | Type of operation | Pedestrian/platform | pedestrian/platform |
| | 1.5 | Load capacity/rated load Q (t) | 2.0 | 2.0 |
| | 1.6 | Load centre distance c (mm) | 500 | 500 |
| | 1.8 | Load distance, centre of drive axle to fork x (mm) | 553 | 553 |
| | | Mast pushed forward x ₁ (mm) | 147 | 147 |
| | 1.9 | Wheelbase y (mm) | 1595 | 1595 |
| Weights | 2.1 | Service weight incl. battery (see line 6.5) kg | 2870 | 3050 |
| | 2.4 | Axle loading, laden front/rear mast advanced kg | 640/4230 | 650/4400 |
| | 2.5 | Axle loading, laden front/rear mast retracted kg | 1925/2945 | 2015/3035 |
| Wheels, Chassis | 3.1 | Tyres | PU | PU |
| | 3.2 | Tyre size, front mm | ø 320 | ø 320 |
| | 3.3 | Tyre size, rear mm | ø 250 | ø 250 |
| | 3.5 | Wheels, number front/rear (x = driven wheels) | 1x/2 | 1x/2 |
| | 3.7 | Track width, rear b ₁₁ (mm) | 1078 | 1078 |
| Basic dimensions | 4.1 | Tilt of fork carriage forward/backward Ba/Bi (°) | 1.5/4.5 | 1.5/4.5 |
| | 4.2 | Closed mast height h ₁ (mm) | 2100 | 2100 |
| | 4.3 | Free lift h ₂ (mm) | - | 1468 |
| | 4.4 | Lift height h ₃ (mm) | 2975 | 4465 |
| | 4.5 | Height, mast extended h ₄ (mm) | 3587 | 5096 |
| | 4.9 | Height of tiller in drive position min./max. h ₁₄ (mm) | 1105/1455 | 1105/1455 |
| | 4.10 | Height of wheel arms h ₈ (mm) | 280 | 280 |
| | 4.15 | Lowered height h ₁₃ (mm) | 45 | 45 |
| | 4.19 | Overall length l ₁ (mm) | 2352 | 2352 |
| | 4.20 | Length to face of forks l ₂ (mm) | 1352 | 1352 |
| | 4.21 | Overall width b ₁ (mm) | 1200/940 | 1200/940 |
| | 4.22 | Fork dimensions s/e/l (mm) | 40x100x1000 | 40x100x1000 |
| | 4.24 | Fork-carriage width b ₃ (mm) | 800 | 800 |
| | 4.25 | Width over forks min/max b ₅ (mm) | 200/800 | 200/800 |
| | 4.26 | Distance between wheel arms b ₄ (mm) | 870 | 870 |
| | 4.28 | Reach distance l ₄ (mm) | 700 | 700 |
| | 4.31 | Ground clearance, laden, below mast m ₁ (mm) | 60 | 60 |
| | 4.32 | Ground clearance, centre of wheelbase m ₂ (mm) | 60 | 60 |
| | 4.33 | Aisle width for pallets 1000x1200 crossways Ast (mm) | 2767 ⁽¹⁾ | 2767 ⁽¹⁾ |
| | 4.34 | Aisle width for pallets 800x1200 crossways Ast (mm) | 2767 ⁽²⁾ | 2767 ⁽²⁾ |
| Perform. data | 4.35 | Turning radius Wa (mm) | 1920 | 1920 |
| | 4.37 | Length across wheel arms l ₇ (mm) | 2030 | 2030 |
| | 5.1 | Travel speed, laden/unladen km/h | 5.0/5.0 | 5.0/5.0 |
| | 5.2 | Lift speed, laden/unladen m/s | 0.11/0.18 | 0.10/0.16 |
| | 5.3 | Lowering speed, laden/unladen m/s | 0.30/0.20 | 0.28/0.18 |
| | 5.4 | Reaching speed, laden/unladen m/s | 0.1 | 0.1 |
| Electric eng. | 5.8 | Max. gradient performance, laden/unladen % | 3/8 | 3/8 |
| | 5.10 | Service brake | electronic | electronic |
| | 6.1 | Drive motor rating S ₂ 60min kW | 2 | 2 |
| | 6.2 | Lift motor rating at S ₃ 10% kW | 4 | 4 |
| | 6.4 | Battery voltage, nominal capacity K _s V/Ah | 24/500 | 24/500 |
| | 6.5 | Battery weight kg | 390 | 390 |
| | 8.1 | Type of drive control | AC | AC |
| | 8.4 | Sound level at driver's ear according to EN 12 053 dB (A) | 70 | 70 |

(1) diagonal to VDI: +171 mm

(2) diagonal to VDI: +114 mm

