



PWL15-20E-Q1

TCM Lite Range, streamlined for greater efficiencies and a more sustainable world, without compromising design and engineering excellence.

**Easy to use, simple to maintain.
NO FUSS, NO WASTE.**

TCM PWL15-20E-Q1 with an **all-metal outer cover** and integrated rocker arm, is designed for durability, stability and the strength to withstand impacts from tight aisle working. Small dimensions, efficient, regenerative braking systems and a small turning radius are ideal for working in tight spaces with **extreme manoeuvrability and control**. The tapered fork tips combined with pallet entry rollers, ensure easy and accurate pallet entry.

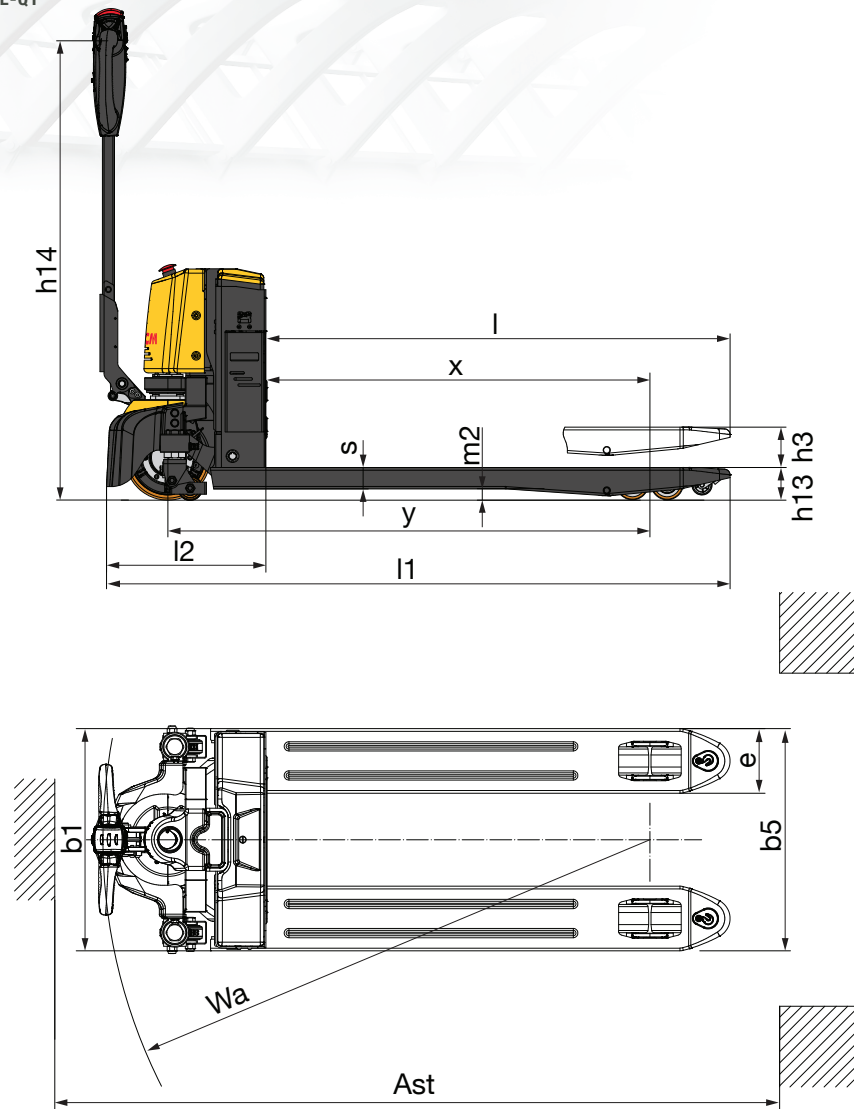
The high capacity, high power **Li-ION battery** is long-lasting reducing downtime, with swift 'plug and go' charging. A full battery exchange takes only 10 seconds to complete and a spare battery can be charged externally in only 3 hours.



STANDARD SPECIFICATIONS PRELIMINARY

| CHARACTERISTICS | | | TCM | | |
|---------------------|---|-----------|------------|--------------------------------------|--------------------------------------|
| 1.1 | Manufacturer | | | | |
| 1.2 | Manufacturer's model designation | | PWL15E-Q1 | PWL20E-Q1 | |
| 1.3 | Power source | | Battery | Battery | |
| 1.4 | Operator type | | Pedestrian | Pedestrian | |
| 1.5 | Load capacity | Q | kg | 1500 | 2000 |
| 1.6 | Load center distance | c | (mm) | 600 | 600 |
| 1.8 | Load wheel axle to fork face (forks lowered) | x | (mm) | 950 / 1020 | 950 / 1020 |
| 1.9 | Wheelbase | y | (mm) | 1195 / 1265 | 1195 / 1265 |
| WEIGHT | | | | | |
| 2.1b | Truck weight without load, with maximum battery weight | | kg | 135 | 140 |
| 2.2 | Axle loadings with nominal load & maximum battery weight, drive / load side | | kg | 665 / 970 | 870 / 1270 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive / load side | | kg | 95 / 40 | 98 / 42 |
| WHEELS, DRIVE TRAIN | | | | | |
| 3.1 | Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side | | | P | P |
| 3.2 | Tyre dimensions, drive side | | (mm) | 210 x 70 | 210 x 70 |
| 3.3 | Tyre dimensions, load side | | (mm) | 80 x 70 (Tandem) 80 x 93 (Single) | 80 x 70 (Tandem) 80 x 93 (Single) |
| 3.4 | Castor wheel dimensions (diameter x width) | | (mm) | 60 x 35 (Option) | 60 x 35 (Option) |
| 3.5 | Number of wheels, load / drive side (x = driven) | | | 1x + 2 / 4 | 1x + 2 / 4 |
| DIMENSIONS | | | | | |
| 4.4 | Lift height | h3 | (mm) | 110 | 110 |
| 4.9 | Height of tiller arm / steering console (min./max.) | h14 | (mm) | 650 / 1135 | 650 / 1135 |
| 4.15 | Fork height, fully lowered | h13 | (mm) | 80 | 80 |
| 4.19 | Overall length | l1 | (mm) | 1545 | 1545 |
| 4.2 | Length to fork face | l2 | (mm) | 395 | 395 |
| 4.21 | Overall width | b1 | (mm) | 550 | 550 |
| 4.22 | Fork dimensions (thickness, width, length) | s / e / l | (mm) | 70 / 160 / 1150 | 70 / 160 / 1150 |
| 4.25 | Outside width over forks (minimum / maximum) | b5 | (mm) | 550 | 550 |
| 4.32 | Ground clearance at center of wheelbase, (forks lowered) | m2 | (mm) | 27 | 27 |
| 4.33a | Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise | Ast | (mm) | 2150 | 2150 |
| 4.34a | Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise | Ast | (mm) | 2015 | 2015 |
| 4.35 | Turning radius | Wa | (mm) | 1345 | 1345 |
| PERFORMANCE | | | | | |
| 5.1 | Travel speed, with / without load | | km / h | 4.3 / 4.5 | 4.6 / 4.8 |
| 5.2 | Lifting speed, with / without load | | m / s | 0.025 / 0.030 | 0.020 / 0.025 |
| 5.3 | Lowering speed, with / without load | | m / s | 0.035/0.025 | 0.035/0.025 |
| 5.8 | Maximum gradeability with / without load | | % | 5 / 20 | 6 / 20 |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | | Electric | Electric |
| ELECTRIC MOTORS | | | | | |
| 6.1 | Drive motor capacity (60 min. short duty) | | kW | 0.75 | 1 |
| 6.2 | Lift motor output at 15% duty factor | | kW | 0.8 | 0.8 |
| 6.4 | Battery voltage/capacity at 5-hour discharge | | V / Ah | 24 / 25 | 48 / 20 |
| 6.5 | Battery weight | | kg | 9 | 10 |
| MISCELLANEOUS | | | | | |
| 8.1 | Type of drive control | | | Stepless | Stepless |
| 10.7.1 | Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, in work LpAZ | | dB (A) | 70 | 70 |
| 10.7.2 | Whole-body vibration (EN 13 059:2002) | | | Refer to instruction manual | |
| 10.7.3 | Hand-arm vibration (EN 13 059:2002) | | | Refer to instruction manual | |

DIMENSIONS PWL15-20E-Q1



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OPTIONS

24V/30Ah, 50Ah, 60Ah Lithium-Ion battery - additional battery capacity to meet application needs (PWL15E-Q1)

48V/25Ah, 30Ah Lithium-Ion battery - additional battery capacity to meet application needs (PWL20E-Q1)

Side castor wheels - for improved stability

PIN CODE password protection with BDI and hour meter - for additional security and live status (PWL20-Q1)

Scale - for easy and quick measuring of the load weight (PWL20-Q1)

Printer on scale - documenting the individual weighings for ultimate accuracy (PWL20-Q1)