



# CPD18TVL

## 3-WHEEL DUAL-DRIVE COUNTERBALANCE FORKLIFT 1,800 KG

1800 kg 6000 mm 80 V Li-Ion



**Narrow Aisle:** This counterbalance forklift is suitable for a range of applications including indoor warehousing and narrow aisles, with a turning radius from 1450mm on the CPD15TVL to 1585mm on the CPD20TVL.

**Loading/Unloading:** It delivers strong performance for loading and unloading tasks at docks or side-bay lorries, supported by its powerful 80V battery. Ideal for rental operations thanks to its opportunity-charging capability.

| SPECIFICATION                               | REF       | UNIT | VALUE      |
|---|-----------|------|------------|
| Battery type                                |           |      | Li-Ion     |
| Battery nominal capacity                    |           | Ah   | 205        |
| Battery voltage                             |           | V    | 80         |
| Load capacity                               | Q         | kg   | 1800       |
| Load centre distance                        | c         | mm   | 500        |
| Service weight                              |           | kg   | 3269       |
| Retracted mast height                       | $h_1$     | mm   | 2075       |
| Lift height                                 | $h_3$     | mm   | 3000       |
| Height, mast extended                       | $h_4$     | mm   | 4055       |
| Overall length                              |           | mm   | 2833       |
| Overall width                               | $b_1/b_2$ | mm   | 1100       |
| Length to face of forks                     | l2        | mm   | 1913       |
| Fork dimensions                             | s/e/l     | mm   | 40X100X920 |
| Turning radius                              |           | Wa   | 1550       |
| Operator type                               |           |      | Seated     |
| Load distance, centre of drive axle to fork |           | mm   | 420        |

# Features

## 80-Volt System Delivering Powerful Performance

The 80V 2\*5.0 kW dual drive motors offer higher power efficiency than conventional 48V systems, enabling the TVL series to achieve around six hours' operation per charge.



## Spacious Workspace

Owing to the compact EP lithium battery and the ergonomic arrangement of the control levers and the foot brake pedal, the compact truck provides a generous 394mm legroom and delivers excellent operational comfort.

## Compact Truck Size

The TVL series features a small turning radius — 1450mm for the CPD15TVL, 1550mm for the CPD18TVL and 1585mm for the CPD20TVL — making it an ideal workhorse for small warehouses with narrow aisles up to 3.5 m wide.



## Integrated Charger

The TVL series forklift is supplied with an EP Li-Ion battery and a 35A single-phase integrated charger with a 16A plug, allowing the truck to be charged from standard power outlets (except 10A and 13A civil plugs in Switzerland and England).

## Enhanced Mast for Optimal Visibility and Stability

The TVL series uses the same high-strength mast as the CPD20L2, offering excellent all-round visibility and strong stability with reduced wobble even when fully loaded.



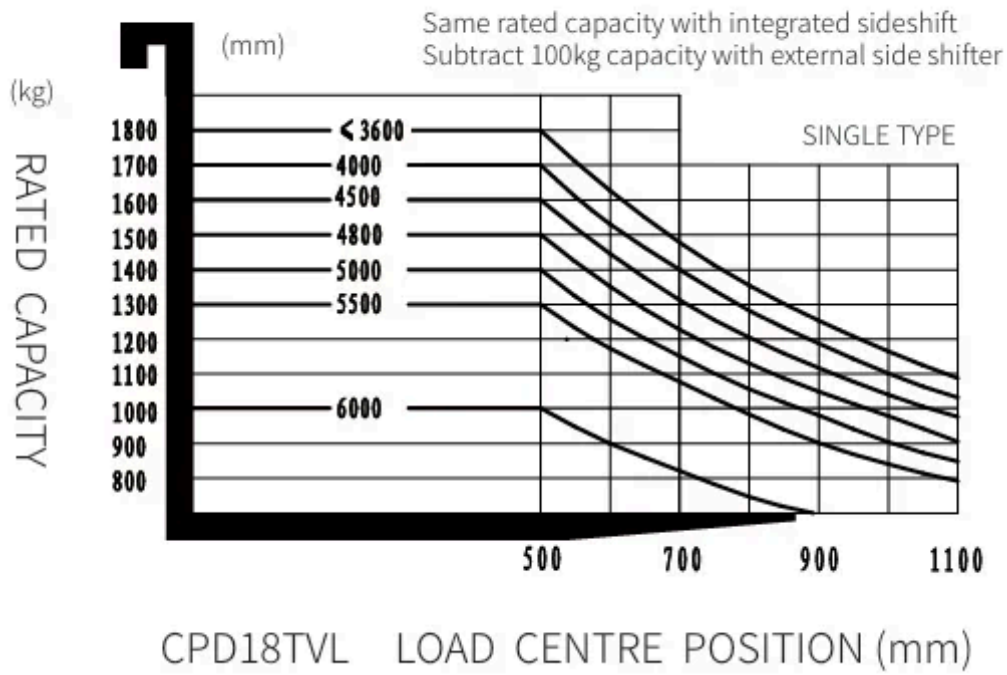
## VDI Chart

|       | SPECIFICATION                               | REF            | UNIT | VALUE        |
|-------|---|----------------|------|--------------|
| 1.4   | Operator type                               |                |      | Seated       |
| 1.5   | Load capacity                               | Q              | kg   | 1800         |
| 1.6   | Load centre distance                        | c              | mm   | 500          |
| 1.8   | Load distance, centre of drive axle to fork |                | mm   | 420          |
| 1.9   | Wheelbase                                   |                | mm   | 1330         |
| 2.1   | Service weight                              |                | kg   | 3269         |
| 2.2   | Axle loading, laden front/rear              |                | kg   | 4415/654     |
| 2.3   | Axle loading, unladen front/rear            |                | kg   | 1368/1901    |
| 3.1   | Tyre type                                   |                |      | Solid rubber |
| 3.2   | Tyre size, front                            |                | mm   | 18X7-8       |
| 3.3   | Tyre size, rear                             |                | mm   | 140/55-9     |
| 3.5   | Wheels, number front/rear (x=drive wheels)  |                |      | 2X/2         |
| 3.6.1 | Tread width, front                          | $b_{10}$       | mm   | 943          |
| 3.7.1 | Tread width, rear                           | $b_{11}$       | mm   | 210          |
| 4.0   | Max lift height                             | H              | mm   | 6000         |
| 4.1   | Tilt of mast/fork carriage forward/backward |                | °    | 6/6          |
| 4.12  | Tow coupling height                         |                | mm   | 600          |
| 4.19  | Overall length                              |                | mm   | 2833         |
| 4.2   | Retracted mast height                       | $h_1$          | mm   | 2075         |
| 4.20  | Length to face of forks                     | l <sub>2</sub> | mm   | 1913         |
| 4.21  | Overall width                               | $b_1/b_2$      | mm   | 1100         |
| 4.22  | Fork dimensions                             | s/e/l          | mm   | 40X100X920   |
| 4.23  | A,B Fork carriage class/type A, B           |                |      | 2A           |
| 4.24  | Fork carriage width                         |                | mm   | 1040         |
| 4.3   | Free lift                                   |                | mm   | 100          |
| 4.31  | Ground clearance, laden, below mast         |                | mm   | 89           |

| SPECIFICATION | REF   | UNIT           | VALUE      |      |
|---------------|---|----------------|------------|------|
| 4.32          | Ground clearance, centre of wheelbase       | mm             | 92         |      |
| 4.34.1        | Aisle width for pallets 1000×1200 crossways | Ast            | 3275       |      |
| 4.34.2        | Aisle width for pallets 800×1200 lengthways | Ast            | 3400       |      |
| 4.35          | Turning radius                              | Wa             | 1550       |      |
| 4.4           | Lift height                                 | h <sub>3</sub> | mm         | 3000 |
| 4.5           | Height, mast extended                       | h <sub>4</sub> | mm         | 4055 |
| 4.7           | Height of overhead guard (cabin)            | mm             | 2078       |      |
| 4.8           | Seat height/standing height                 | mm             | 1050       |      |
| 5.1           | Travel speed, laden/unladen                 | km/h           | 13/14      |      |
| 5.10          | Service brake                               |                | Hydraulic  |      |
| 5.11          | Parking brake                               |                | Mechanical |      |
| 5.2           | Lifting speed, laden/unladen                | m/s            | 0.33/0.45  |      |
| 5.3           | Lowering speed, laden/unladen               | m/s            | 0.4/0.44   |      |
| 5.8           | Max. gradeability, laden/unladen            | %              | 10/15      |      |
| 6.1           | Drive motor rating S2 60 min                | kW             | 5.0X2      |      |
| 6.2           | Lift motor rating at S3 15%                 | kW             | 11         |      |
| 6.4           | Battery nominal capacity                    | Ah             | 205        |      |
| 6.4           | Battery voltage                             | V              | 80         |      |
| 6.4.1         | Battery type                                |                | Li-Ion     |      |
| 6.5           | Battery weight                              | kg             | 165        |      |
| 8.1           | Type of drive control                       |                | AC         |      |
| 10.5          | Steering design                             |                | Hydraulic  |      |
| 10.7          | Sound pressure level at the drivers ear     | dB(A)          | 70         |      |



## RATED CAPACITIES AND LOAD CENTERES GRAPH



## Mast Options

| MAST TYPE       | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | MAST EXTENDED HEIGHT, NO BACKREST (H4, MM) | MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM) | FREE LIFT HEIGHT, NO BACKREST (H2, MM) | FREE LIFT HEIGHT, WITH BACKREST (H2, MM) |
|-----------------|----------------------|------------------------------|--|--|--|--|
| 2-Standard Mast | 3000                 | 2075                         | 3740                                       | 4055   | 100                                    | 100                                      |
| 2-Standard Mast | 3600                 | 2375                         | 4340                                       | 4655   | 100                                    | 100                                      |
| 2-Standard Mast | 4000                 | 2455                         | 4740                                       | 5055   | 100                                    | 100                                      |
| 3-Free Mast     | 4500                 | 2140                         | 5240                                       | 5555   | 1430                                   | 1115                                     |
| 3-Free Mast     | 4800                 | 2240                         | 5540                                       | 5855   | 1530                                   | 1215                                     |
| 3-Free Mast     | 5000                 | 2305                         | 5740                                       | 6055   | 1595                                   | 1280                                     |
| 3-Free Mast     | 5500                 | 2475                         | 6240                                       | 6555   | 1765                                   | 1450                                     |
| 3-Free Mast     | 6000                 | 2690                         | 6740                                       | 7055   | 1980                                   | 1665                                     |

# Options

| ITEM                            | OPTIONS (optional items marked in yellow)   |
|---------------------------------|---|
| Fork dimension                  | 100*40*920   100*40*1070   100*40*1100   100*40*1150   100*40*1220   100*40*1370   100*40*1520   100*40*1800  |
| Fork carriage width option      | 1040mm   Yes and can be customized  |
| Seat type                       | Regular   Premium   Suspension   Suspension+seatbelt logic switch   |
| Attachments                     | No   Built-in sideshifter   External shifter   Adjustable fork  |
| Traction pin                    | Yes   |
| Front wheel material            | Solid   Non-marking solid   |
| Battery capacity                | 150Ah   205Ah   280Ah   |
| Charger                         | 80V-35A single-phase integrated   80V-60A 3-phase integrated   80V-35A single-phase external   80V-65A 3-phase external   80V-100A 3-phase external |
| Battery display indicator (BDI) | With hourmeter  |
| Area warning lamp               | No   1 left + 1 right (Red)   |
| Rearview mirror                 | 1 in the middle   Add 1 rearview mirror on both sides   |
| Buzzer                          | YES   |
| OPS system                      | YES   |
| Telematics                      | No   Yes and not customized   |
| Front lamp                      | LED   |
| Rear lamp                       | No   LED  |
| Warning lamp                    | YES   |
| Blue lamp                       | No   2 front   1 rear   2 front+ 1 rear   |
| Cabin                           | No  |