

# CPD18TV8

## ELECTRIC COLD STORAGE FORKLIFT 1.8T

 1800 kg    6000 mm    48 V Lead Acid



The CPD15/18/20TV8 is specifically engineered for frozen food warehouses, cold chain logistics, and refrigerated distribution centers. Its cold-resistant design and hydraulic systems maintain smooth performance at sub-zero temperatures, preventing condensation and corrosion. The solid tire configuration provides excellent stability on cold, slippery floors, while optional non-marking tires are available for hygiene-sensitive areas. It is the perfect solution for heavy-duty operations in chilled and frozen storage facilities.

| SPECIFICATION                               | REF                            | UNIT | VALUE      |
|---------------------------------------------|--------------------------------|------|------------|
| Battery type                                |                                |      | Lead Acid  |
| Battery nominal capacity                    |                                | Ah   | 500        |
| Battery voltage                             |                                | V    | 48         |
| Load capacity                               | Q                              | kg   | 1800       |
| Load centre distance                        | c                              | mm   | 500        |
| Service weight                              |                                | kg   | 3160       |
| Retracted mast height                       | h <sub>1</sub>                 | mm   | 1990       |
| Lift height                                 | h <sub>3</sub>                 | mm   | 3000       |
| Height, mast extended                       | h <sub>4</sub>                 | mm   | 4058       |
| Overall length                              |                                | mm   | 2865       |
| Overall width                               | b <sub>1</sub> /b <sub>2</sub> | mm   | 1090       |
| Length to face of forks                     | l <sub>2</sub>                 | mm   | 1945       |
| Fork dimensions                             | s/e/l                          | mm   | 40x100x920 |
| Turning radius                              |                                | Wa   | 1575       |
| Operator type                               |                                |      | Seated     |
| Load distance, centre of drive axle to fork |                                | mm   | 400        |

# Features

---

## Cold-resistant design

Built with cold-rated hydraulic oil, sealed wiring, and corrosion-resistant components, the CPD15/18/20TV8 maintains peak performance in cold storage environments down to  $-30^{\circ}\text{C}$ .



## Powerful 80V AC system

Equipped with an 80V/360Ah powertrain and dual 5 kW motors, the truck provides smooth acceleration, high lifting power, and long runtime with minimal maintenance requirements.

## High stability and visibility

The truck's low center of gravity, wide mast view, and overhead guard ensure stable, safe operation when handling heavy or stacked loads at height. LED lighting and optional area warning lamps improve safety in low-light conditions.



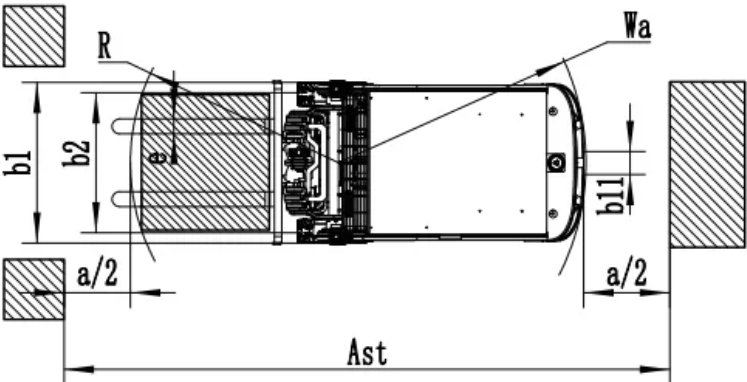
## Customizable options for any operation

From mast heights up to 6.0 m to optional non-marking tires, fork positioners, and telematics, the CPD15/18/20TV8 adapts to the unique demands of different cold chain facilities.

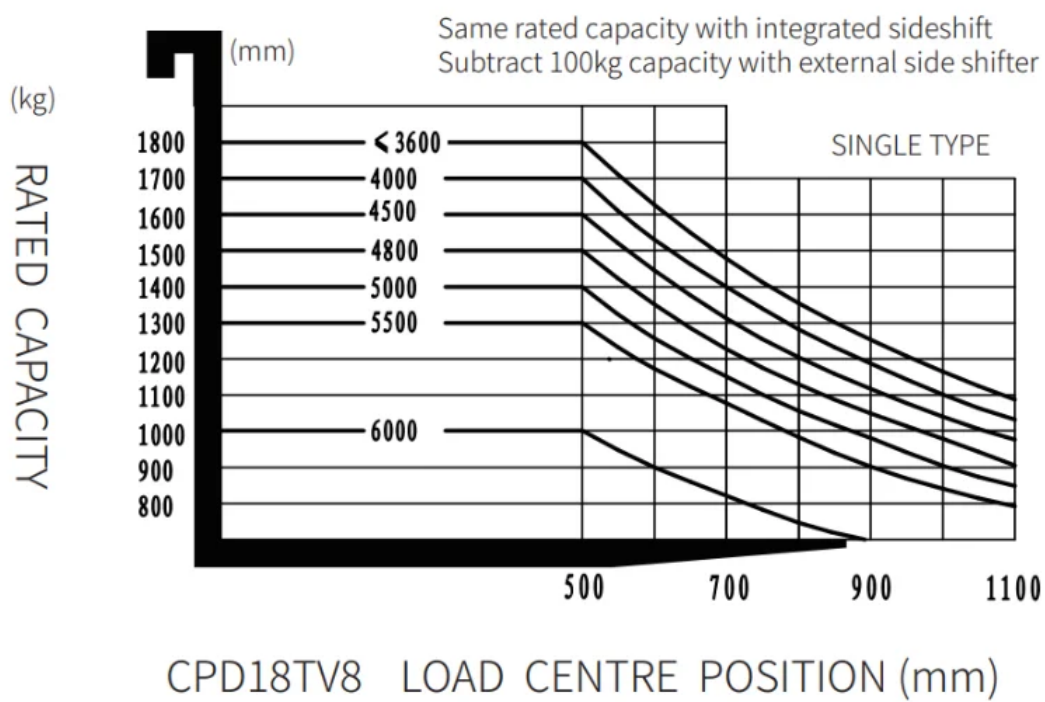
# VDI Chart

|        | 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   | 400         |
| 1.9    | Wheelbase                                   |                                | mm   | 1358        |
| 2.1    | Service weight                              |                                | kg   | 3160        |
| 2.2    | Axle loading, laden front/rear              |                                | kg   | 4640/320    |
| 2.3    | Axle loading, unladen front/rear            |                                | kg   | 1620/1540   |
| 3.1    | Tyre type                                   |                                |      | Solidrubber |
| 3.2    | Tyre size, front                            |                                | mm   | 18X7-8      |
| 3.3    | Tyre size, rear                             |                                | mm   | 15X4.5-8    |
| 3.5    | Wheels, number front/rear (x=drive wheels)  |                                |      | 2X/2        |
| 3.6.1  | Tread width, front                          | b <sub>10</sub>                | mm   | 902         |
| 3.7.1  | Tread width, rear                           | b <sub>11</sub>                | mm   | 175         |
| 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   | 475         |
| 4.13   | Loading height, unladen                     |                                |      | 1990        |
| 4.19   | Overall length                              |                                | mm   | 2865        |
| 4.2    | Retracted mast height                       | h <sub>1</sub>                 | mm   | 1990        |
| 4.2.1  | Overall height                              |                                |      | 4058        |
| 4.20   | Length to face of forks                     | l <sub>2</sub>                 | mm   | 1945        |
| 4.21   | Overall width                               | b <sub>1</sub> /b <sub>2</sub> | mm   | 1090        |
| 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   | 120         |
| 4.31   | Ground clearance, laden, below mast         |                                | mm   | 108         |
| 4.32   | Ground clearance, centre of wheelbase       |                                | mm   | 78          |
| 4.34.1 | Aisle width for pallets 1000×1200 crossways |                                | Ast  | 3295        |
| 4.34.2 | Aisle width for pallets 800×1200 lengthways |                                | Ast  | 3420        |
| 4.35   | Turning radius                              |                                | Wa   | 1575        |

| SPECIFICATION |                                         | REF            | UNIT  | VALUE      |
|---------------|-----------------------------------------|----------------|-------|------------|
| 4.36          | Internal turning radius                 |                |       | 1575       |
| 4.4           | Lift height                             | h <sub>3</sub> | mm    | 3000       |
| 4.5           | Height, mast extended                   | h <sub>4</sub> | mm    | 4058       |
| 4.7           | Height of overhead guard (cabin)        |                | mm    | 2160       |
| 4.8           | Seat height/standing height             |                | mm    | 1000       |
| 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   | 0.27/0.43  |
| 5.3           | Lowering speed, laden/unladen           |                | m/s   | 0.44/0.435 |
| 5.5           | Drawbar pull, laden/unladen             |                |       | unknown    |
| 5.6           | Max. drawbar pull, laden/unladen        |                |       | 4640/320   |
| 5.8           | Max. gradeability, laden/unladen        |                | %     | 10.5/14.5  |
| 6.1           | Drive motor rating S2 60 min            |                | kW    | 4.8x2      |
| 6.2           | Lift motor rating at S3 15%             |                | kW    | 11         |
| 6.4           | Battery nominal capacity                |                | Ah    | 500        |
| 6.4           | Battery voltage                         |                | V     | 48         |
| 6.4.1         | Battery type                            |                |       | Lead Acid  |
| 6.5           | Battery weight                          |                | kg    | 856        |
| 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-Wide Mast | 3000                 | 1990                         | 3515                                       | 4058                                         | 120                                    | 120                                      |
| 2-Wide Mast | 3300                 | 2140                         | 3815                                       | 4358                                         | 120                                    | 120                                      |
| 2-Wide Mast | 3600                 | 2290                         | 4115                                       | 4658                                         | 120                                    | 120                                      |
| 2-Wide Mast | 4000                 | 2540                         | 4515                                       | 5058                                         | 120                                    | 120                                      |
| 2-Free Mast | 3000                 | 2023                         | 3515                                       | 4058                                         | 1508                                   | 965                                      |
| 2-Free Mast | 3300                 | 2173                         | 3815                                       | 4358                                         | 1658                                   | 1115                                     |
| 2-Free Mast | 3600                 | 2323                         | 4115                                       | 4658                                         | 1808                                   | 1265                                     |
| 3-Free Mast | 4500                 | 2043                         | 5024                                       | 5558                                         | 1499                                   | 985                                      |
| 3-Free Mast | 4800                 | 2143                         | 5324                                       | 5858                                         | 1599                                   | 1085                                     |
| 3-Free Mast | 5000                 | 2208                         | 5524                                       | 6058                                         | 1664                                   | 1150                                     |
| 3-Free Mast | 5500                 | 2378                         | 6024                                       | 6558                                         | 1834                                   | 1320                                     |

| 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) |
|-------------|----------------------|------------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------------|
| 3-Free Mast | 6000                 | 2593                         | 6524                                       | 7058                                         | 2049                                   | 1535                                     |

# 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*1800 |
| Fork carriage width option      | 1040mm   Yes and not customized                                                                |
| Fork carriage height option     | 1067mm (42in)   1220mm (48in)   1520 (60in)   Yes and not customized                           |
| Seat type                       | Comfortable   Suspension   Suspension seat with armrests                                       |
| Attachments                     | No   Built-in sideshifter   External sideshifter   Fork positioner                             |
| Traction pin                    | Yes                                                                                            |
| Electrostatic chain             | Yes                                                                                            |
| Front wheel material            | Solid rubber   Yes and not customized                                                          |
| Rear wheel material             | Solid rubber   Yes and not customized                                                          |
| Battery capacity                | 300Ah Lead-acid   360Ah Lead-acid                                                              |
| Charger                         | 80V-45A External                                                                               |
| Battery display indicator (BDI) | With hourmeter                                                                                 |
| Area warning lamp               | No   Both sides   Rear   Both sides and rear                                                   |
| Rearview mirror                 | One in front   Two on sides                                                                    |
| Buzzer                          | Yes                                                                                            |
| OPS system                      | Yes                                                                                            |
| Telematics                      | No   Yes and not customized                                                                    |
| Front lamp                      | LED                                                                                            |
| Rear lamp                       | No   LED                                                                                       |
| Warning lamp                    | Yes                                                                                            |
| Steering lamp                   | Yes                                                                                            |
| Blue lamp                       | No   Front*2   Rear*1   Front*2+Rear*1                                                         |
| Cabin                           | No                                                                                             |