VMAXUSA is a heavy equipment import company representing the best new technology in emissions free equipment. We are a USA owned and operated company, National Headquarters located in Butte, Montana. VMAXUSA provides customers with new options in heavy electric machinery. forklifts, scissor lifts, track scissor lifts, wheeled front loaders, excavators, mini front loaders, skid steers and more. Check out our new line of 2024 products for your lifting needs.

## Renewable Energy Technologies

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

VMAX USA

# 5-6t

## H series Lithium Battery powered Counterbalance Forklift



### Bright LED headlights

The headlight unit makes it safer to work at night.

### Reinforced working device

Lifting unit is configured with 8-plate chain, greatly improving the operating safety with full load.

### Ergonomic man-machine interactive system

The forklift is equipped with 4.3 inch LCD instrument. The speed, power, steering angle and other indicators are displayed in real-time.

### Quick charging system

The large capacity lithium battery (76.8V 840AH), with national standard Double Gun charging pile (400A), ensures full charge in two hours.

### Hydraulic dual exchange cooling system

The hydraulic oil tank are equipped with main and auxiliary tank. The oil capacity and cooling area are increased, thus ensuring the steady work of hydraulic system.

### Steering angle control system

Angle potentiometer monitors and transfers the location of steering wheel to the control system, thus realizing steering speed control.

### Optimized working configuration

Thanks to the standard wide-view and 3-stage free lifting mast, the rear chain enhances the operation vision by 12%.

### Giant tyres, heavier load

The front driving wheel adopts 300-15 tyre with wide tread, which carries heavier loads.

## WIDE VIEW MAST

| Mast model | Max.lifting height | Load capacity (load center 500mm)(kg) | | | Mast overall height(mm) | | | Mast tilting angle (front/rear) |
|---|---|---|---|---|---|---|---|---|
| | | 5.0t | 5.5t | 6.0t | 5.0t | 5.5t | 6.0t | |
| M300 | 3000 | 5000 | 5500 | 6000 | 2330 | 2330 | 2330 | 6/12 |
| M350 | 3500 | 5000 | 5400 | 5800 | 2580 | 2580 | 2580 | 6/12 |
| M400 | 4000 | 4500 | 4850 | 5200 | 2880 | 2880 | 2880 | 6/6 |
| M450 | 4500 | 4200 | 4350 | 4500 | 3130 | 3130 | 3130 | 6/6 |
| M500 | 5000 | 3800 | 3900 | 4000 | 3380 | 3380 | 3380 | 6/6 |
| M550 | 5500 | 3200 | 3350 | 3500 | 3630 | 3630 | 3630 | 3/6 |
| M600 | 6000 | 2600 | 2800 | 3000 | 3930 | 3930 | 3930 | 3/6 |

Note: (1)free lifting height: +150mm

## WIDE VIEW FULL FREE 2-STAGE MAST

| Mast model | Max.lifting height | Load capacity (load center 500mm)(kg) | | | Mast overall height(mm) | Free lifting height (with backrest) mm | Mast tilting angle (front/rear) |
|---|---|---|---|---|---|---|---|
| | | 5.0t | 5.5t | 6.0t | 5.0t/5.5t/6.0t | 5.0t/5.5t/6.0t | |
| ZM200 | 2000 | 5000 | 5500 | 6000 | 1880 | 590 | 6/12 |
| ZM250 | 2500 | 5000 | 5500 | 6000 | 2130 | 840 | 6/12 |
| ZM300 | 3000 | 5000 | 5500 | 6000 | 2380 | 1090 | 6/6 |
| ZM330 | 3300 | 5000 | 5500 | 6000 | 2530 | 1240 | 6/6 |
| ZM350 | 3500 | 5000 | 5400 | 5800 | 2630 | 1340 | 6/6 |
| ZM370 | 3700 | 4800 | 5200 | 5600 | 2755 | 1465 | 6/6 |
| ZM400 | 4000 | 4600 | 4900 | 5200 | 2930 | 1640 | 6/6 |

Note: (1)free lifting height (without backrest): +271mm

## WIDE VIEW FULL FREE 3-STAGE MAST

| Mast model | Max.lifting height | Load capacity (load center 500mm)(kg) | | | Mast overall height(mm) | | | Free lifting height (with backrest) mm | | | Mast tilting angle (front/rear) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5.0t | 5.5t | 6.0t | 5.0t | 5.5t | 6.0t | 5.0t | 5.5t | 6.0t | |
| ZSM360 | 3600 | 4350 | | 5000 | 2090 | | 2090 | 840 | | 840 | 6/6 |
| ZSM400 | 4000 | 4200 | | 4700 | 2223 | | 2223 | 974 | | 974 | 6/6 |
| ZSM420 | 4200 | 4100 | | 4500 | 2290 | | 2290 | 1040 | | 1040 | 6/6 |
| ZSM435 | 4350 | 3900 | | 4300 | 2340 | | 2340 | 1090 | | 1090 | 6/6 |
| ZSM450 | 4500 | 3800 | | 4200 | 2390 | | 2390 | 1140 | | 1140 | 6/6 |
| ZSM480 | 4800 | 3500 | | 4000 | 2490 | | 2490 | 1240 | | 1240 | 6/6 |
| ZSM500 | 5000 | 3400 | | 3800 | 2557 | | 2557 | 1307 | | 1307 | 6/6 |
| ZSM550 | 5500 | 2800 | | 3200 | 2723 | | 2723 | 1474 | | 1474 | 3/6 |
| ZSM600 | 6000 | 2200 | | 2600 | 2990 | | 2990 | 1690 | | 1690 | 3/6 |

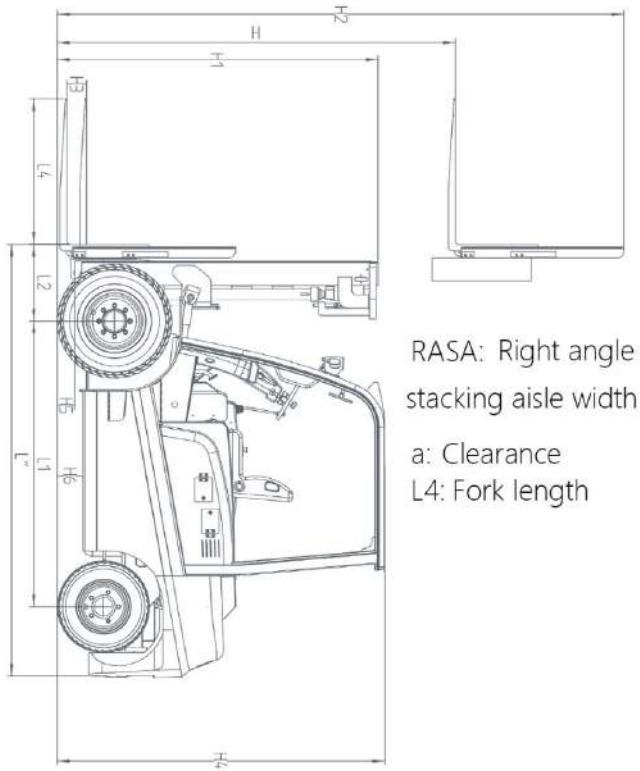
Note: (1)free lifting height (without backrest): +550mm

CPD60 CPD55 CPD50


NOTE:
The vertical axis stands for the load capacity and the horizontal axis stands for the load center. The load center is calculated from the face of the fork. The base point of the standard load is the center of the cube with a load side length of 1000 mm. When the mast leans forward, or non-standard forks are used, or loads exceeds normal width, the load capacity will be reduced. Through the load chart, the bearing capacity of the standard mast at various load centers can be timely understood.

# ManuFacturer's Data and Design Characteristics

| | Characteristics | | | | | |
|---|---|---|---|---|---|---|
| 1.01 | Manufacturer | | | | | |
| 1.02 | Model | | | CPD50 | CPD55 | CPD60 |
| 1.03 | Configuration Model | | | HI2/HI2LI | HI2/HI2LI | HI2/HI2LI |
| 1.04 | Rated Capacity | Q | kg | 5000 | 5500 | 6000 |
| 1.05 | Load Center Distance | C | mm | 500 | 500 | 500 |
| 1.06 | Power Type | | | Battery | Battery | Battery |
| 1.07 | Driving Type | | | Seated | Seated | Seated |
| 1.08 | Wheel Base | L1 | mm | 2100 | 2100 | 2100 |
| | **Tyres** | | | | | |
| 2.01 | Tyre Type | | | Pneumatic | Pneumatic | Pneumatic |
| 2.02 | Wheel Number (front/rear) | | | 2/2 | 2/2 | 2/2 |
| 2.03 | Front wheel base | W3 | mm | 1280 | 1280 | 1280 |
| 2.04 | Rear wheel base | W2 | mm | 1190 | 1190 | 1190 |
| 2.05 | Tyre (front) | | | 300-15-14PR | 300-15-14PR | 300-15-14PR |
| 2.06 | Tyre (rear) | | | 7.00-12SE | 7.00-12SE | 7.00-12SE |
| | **Size** | | | | | |
| 3.01 | Front Overhang | L2 | mm | 565 | 565 | 565 |
| 3.02 | Mast Tilting Angle, Front/Rear | α/ß | ° | 6/12 | 6/12 | 6/12 |
| 3.03 | Height with Mast Retraction | H1 | mm | 2230 | 2230 | 2230 |
| 3.04 | Free Lifting Height | H3 | mm | 150 | 150 | 150 |
| 3.05 | Max. Lifting Height | H | mm | 3000 | 3000 | 3000 |
| 3.06 | Max. Height After Lifting | H2 | mm | 4280 | 4280 | 4280 |
| 3.07 | Overall Guard Height | H4 | mm | 2255 | 2255 | 2255 |
| 3.08 | Fork Size: Length x Width x Thickness | L x W x T | mm | 1070 x 150 x 50 | 1070 x 150 x 50 | 1220 x 150 x 60 |
| 3.09 | Fork carriage, DIN standard | | | 3A | 3A | 4A |
| 3.10 | Overall Length (Fork Excluded) | L' | mm | 3185 | 3185 | 3185 |
| 3.11 | Overall Width | W1 | mm | 1600 | 1600 | 1600 |
| 3.12 | Turning Radius | r | mm | 2930 | 2930 | 2930 |
| 3.13 | Ground Clearance of Mast | H5 | mm | 170 | 170 | 170 |
| 3.14 | Ground clearance of wheel base center (loaded) | H6 | mm | 200 | 200 | 200 |
| 3.15 | Right Angle Stacking Aisle Width (Pallet 1000 x 1000mm, Clearance 200mm) | Ast | mm | 4895 | 4895 | 4895 |
| 3.16 | Right Angle Stacking Aisle Width (Pallet 1200 x 1200mm, Clearance 200mm) | Ast | mm | 5095 | 5095 | 5095 |
| 3.17 | Lateral Fork Adjustment Max./Min. | W5 | mm | 1380/300 | 1380/300 | 1380/300 |
| | **Performance** | | | | | |
| 4.01 | Traveling Speed (Loaded/Unloaded) | | km/h | 14/15 | 13/14 | 13/14 |
| 4.02 | Lifting Speed (Loaded/Unloaded) | | mm/s | 300/400 | 280/400 | 260/400 |
| 4.03 | Lowering Speed | | mm/s | 400 | 400 | 400 |
| 4.04 | Gradeability (loaded) | | % | 14 | 13 | 12 |
| | **Weight** | | | | | |
| 5.01 | Total Weight | | Kg | 7300/6720 | 8050/6185 | 8274/6184 |
| 5.02 | Axle load (unloaded), front/rear | | Kg | 3239/4045 | 3567/4482 | 3663/4611 |
| 5.03 | Axle load (loaded), front/rear | | Kg | 10775/1509 | 11856/1693 | 12706/1568 |
| | **Lithium Battery** | | | | | |
| 6.01 | Lithium Battery Voltage / capacity | | V/Ah | 80/630 | 80/700 | 80/700(800) |
| 6.02 | Lithium Battery weight (with battery box) | | Kg | 1565 | 1865 | 2090 |
| | **Motor and controller** | | | | | |
| 7.01 | Driving motor power-60 minutes | | Kw | 18 | 19 | 19 |
| 7.02 | Lifting motor power (S3 15%) | | Kw | 26 | 26 | 26 |
| 7.03 | Driving motor control mode | | | MOSFET/AC | MOSFET/AC | MOSFET/AC |
| 7.04 | Lifting motor control mode | | | MOSFET/AC | MOSFET/AC | MOSFET/AC |
| 7.05 | Service brake / parking brake | | | | Hydraulic / Mechanical | |
| 7.06 | Hydraulic system working pressure | | Mpa | 20 | 20 | 20 |




RASA: Right angle stacking aisle width

a: Clearance

L4: Fork length