



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.



VMAX USA



Environment protection

Nissan, Kubota and PSI top-brand Gasoline / LPG engines with low emission and low noise for option. The three way catalytic converter provides precise control and excellent fuel efficiency.



Safe operation

Equipped with US IMPCO fuel conversion device. The proportioner provides combustible gas mixture with the best air-fuel ratio incessantly, making for stable performance and strong economy capability, and easy to start.



Durable structural elements

Key structural elements such as forklift frame, mast and overhead guard are of optimized design and durable quality. Buffer device of mast lifting system dampens shock and vibration effectively, delivering higher operation safety and reliability.



New type of steering wheel

The new type steering wheel dual threaded adjustment mechanism with patented technology improving the operation. Fork lifting, mast leaning forward and back, as well as the optional fork shifting and fork spacing regulating function, can be controlled by the joystick.

2-3.5t

H SERIES GASOLINE / LPG FORKLIFT





WIDE VIEW MAST

| Mast model | Max. lifting height (") | Load Capacity (load center 19.6") (lb) | | | | Mast overall height (") | | | | Mast tilting angle (front/rear) |
|------------|-------------------------|--|-----------------|----------------|-----------------|-------------------------|-------|-------|-------|---------------------------------|
| | | 2.0t | 2.5t | 3.0t | 3.5t | 2.0t | 2.5t | 3.0t | 3.5t | |
| M200 | 78.7 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 58.8 | 58.8 | 61.6 | 62.9 | 6/12 |
| M250 | 98.4 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 68.7 | 68.7 | 71.4 | 72.8 | 6/12 |
| M270 | 106.2 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 72.6 | 72.6 | 75.3 | 76.7 | 6/12 |
| M300 | 118.1 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 78.5 | 78.5 | 81.2 | 82.6 | 6/12 |
| M330 | 129.9 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 84.4 | 84.4 | 87.2 | 88.5 | 6/12 |
| M350 | 137.7 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 88.3 | 88.3 | 91.1 | 92.5 | 6/12 |
| M370 | 145.6 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 92.3 | 92.3 | 95 | 96.4 | 6/6 *6/6 |
| M400 | 157.4 | 4409.2 | 5511.5 | 6613.8 | 7275.2 * 7716.1 | 100.1 | 100.1 | 102.9 | 105.1 | 6/6 *6/6 |
| M425 | 167.3 | 3968.3 *4409.2 | 5070.6 *5511.5 | 6283.1 *6613.8 | 7054.7 *7716.1 | 105.1 | 105.1 | 107.8 | 109.2 | 6/6 *6/6 |
| M450 | 177.1 | 3527.3 *4188.7 | 4629.7 *5291 | 5732 *6613.8 | 6393.4 *6834.3 | 110 | 110 | 112.7 | 114.1 | 6/6 *6/6 |
| M500 | 196.8 | 2645.5 *3747.8 | 3527.3 *4188.7 | 4629.7 *6283.1 | 5621.7 *6062.7 | 119.8 | 119.8 | 122.6 | 124 | 6/6 *6/6 |
| M550 | 216.5 | 2094.3 * 3306.9 | 2645.5 * 3747.8 | 3637.6 * 5291 | 3968.3 *5511.5 | 131.6 | 131.6 | 134.4 | 135.8 | *3/6 |
| M600 | 236.2 | 1543.2 *2645.5 | 1984.1 *3086.4 | 2645.5 *4629.7 | 3086.4 *5070.6 | 141.5 | 141.5 | 144.2 | 145.6 | *3/6 |

Note: (1) The service weight is the weight of forklift with dual tires: +242.5
 (2)*Refers to the load capacity of forklift with dual tires
 (3)Max. lifting height (backrest): +22.8"

WIDE VIEW FULL FREE 2-STAGE MAST

| Mast model | Max. lifting height (") | Load Capacity (load center 19.6") (lb) | | | | Mast overall height (") | | | Free lifting height (with backrest) " | | | Mast tilting angle (front/rear) |
|------------|-------------------------|--|----------------|----------------|----------------|-------------------------|-------|-------|---------------------------------------|------|------|---------------------------------|
| | | 2.0t | 2.5t | 3.0t | 3.5t | 2-2.5t | 3.0t | 3.5t | 2-2.5t | 3.0t | 3.5t | |
| ZM200 | 78.7 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 58.8 | 61.6 | 62.7 | 19.4 | 12.7 | 14.5 | 6/12 |
| ZM250 | 98.4 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 68.7 | 71.4 | 72.6 | 29.3 | 22.6 | 24.4 | 6/12 |
| ZM300 | 118.1 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 78.5 | 81.2 | 82.4 | 39.1 | 32.4 | 34.2 | 6/12 |
| ZM330 | 129.9 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 84.4 | 87.2 | 88.3 | 45 | 38.3 | 44 | 6/12 |
| ZM350 | 137.7 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 88.3 | 91.1 | 92.3 | 49 | 42.3 | 48 | 6/6 *6/12 |
| ZM370 | 145.6 | 4409.2 | 5511.5 | 6283.1 *6613.8 | 7716.1 | 92.3 | 95 | 96.2 | 53.9 | 46.2 | 48 | 6/6 *6/12 |
| ZM400 | 157.4 | 4409.2 | 5511.5 | 5952.4 *6613.8 | 7054.7 *7716.1 | 100.1 | 102.9 | 104.1 | 60.8 | 54.1 | 55.9 | 6/6 *6/12 |
| ZM425 | 167.3 | 4188.7 *4409.2 | 4960.4 *5511.5 | 5621.7 *6283.1 | 6834.3 *7054.7 | 105.1 | 107.8 | 109 | 65.7 | 59 | 60.8 | 6/6 *6/12 |
| ZM450 | 177.1 | 3968.3 *4188.7 | 4739.9 *5291 | 5291 *5952.4 | 6613.8 *6724 | 110 | 112.7 | 113.9 | 70.6 | 63.9 | 65.7 | 6/6 *6/6 |
| ZM500 | 196.8 | 3306.9 *3747.8 | 3637.6 *4850.1 | 4409.2 *5291 | 6172.9 *6283.1 | 119.8 | 122.6 | 123.8 | 80.5 | 73.8 | 75.5 | *3/6 |
| ZM550 | 216.5 | *3527.3 | *4299 | 3527.3 *4850.1 | *5511.5 | 131.6 | 134.4 | 135.6 | 92.3 | 85.6 | 87.4 | *3/6 |
| ZM600 | 236.2 | *3306.9 | *3968.3 | 2645.5 *4188.7 | *5070.6 | 141.5 | 144.2 | 145.4 | 102.1 | 97.4 | 97.2 | *3/6 |

Note: (1)Free lifting height (without backrest) 1.5T: +20.2"; 2-2.5T: +17.1"; 3-3.5T: 22.8"; 4T: +21"
 (2)The service weight is the weight of forklift with dual tire: +242.5 lb
 (3)*Refers to the load capacity of forklift with dual tires

WIDE VIEW FULL FREE 3-STAGE MAST

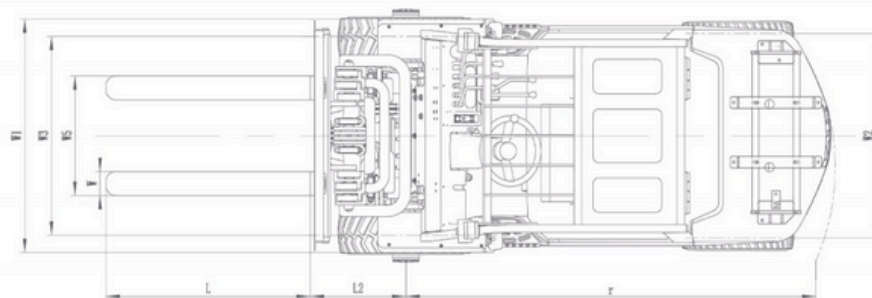
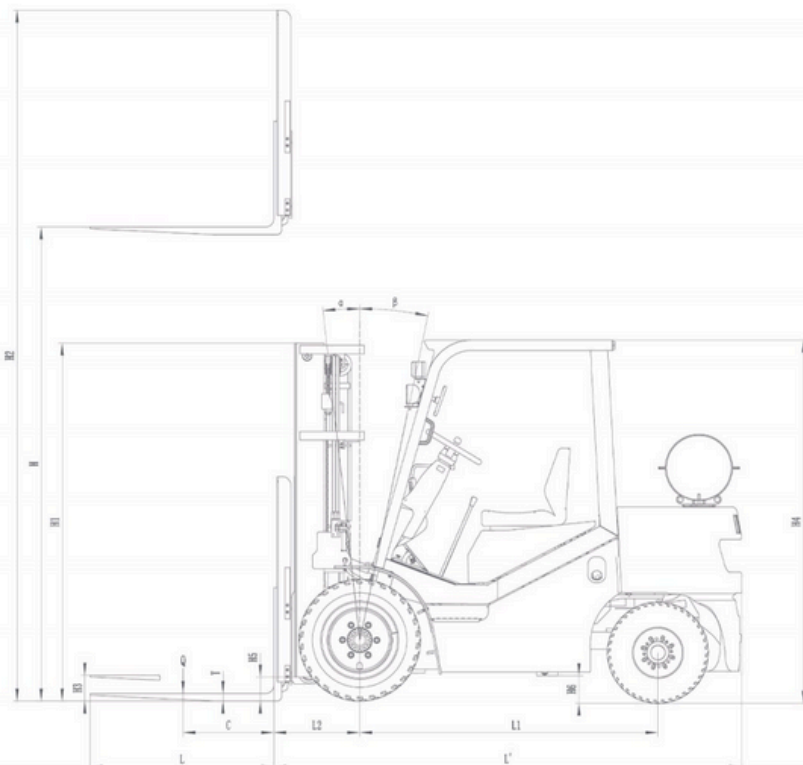
| Mast model | Max. lifting height (") | Load Capacity (load center 19.6") (lb) | | | | Mast overall height (") | | | Free lifting height (with backrest) " | | | Mast tilting angle (front/rear) |
|------------|-------------------------|--|----------------|----------------|----------------|-------------------------|-------|-------|---------------------------------------|------|------|---------------------------------|
| | | 2.0t | 2.5t | 3.0t | 3.5t | 2-2.5t | 3.0t | 3.5t | 2-2.5t | 3.0t | 3.5t | |
| ZSM360 | 141.7 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 66.7 | 69.4 | 71.6 | 25.7 | 20.7 | 23.1 | 6/6 *6/6 |
| ZSM400 | 157.4 | 4409.2 | 5511.5 | 6613.8 | 7716.1 | 72 | 74.7 | 76.8 | 31 | 26 | 28.3 | 6/6 *6/6 |
| ZSM435 | 171.2 | 3858 *4188.7 | 4850.1 *5291 | 6172.9 *6283.1 | 6834.3 *7054.7 | 76.5 | 79.3 | 81.4 | 35.6 | 30.6 | 32.9 | 6/6 *6/6 |
| ZSM450 | 177.1 | 3527.3 *3968.3 | 3747.8 *4850.1 | 5511.5 *5952.4 | 6172.9 *6613.8 | 78.5 | 81.2 | 83.4 | 39.1 | 32.5 | 34.9 | 6/6 *6/6 |
| ZSM480 | 188.9 | 2755.7 *3747.8 | 3306.9 *4409.2 | 4960.4 *5401.3 | 5511.5 *6062.7 | 82.4 | 85.2 | 87.4 | 41.5 | 36.5 | 38.8 | 6/6 *6/6 |
| ZSM500 | 196.8 | 2425 *3527.3 | 2866 *3968.2 | 4629.7 *5070.6 | 5070.6 *5732 | 85.2 | 87.8 | 90 | 44.1 | 39.1 | 41.5 | 6/6 *6/6 |
| ZSM550 | 216.5 | 1984.1 *2866 | 2425 *3527.3 | 3527.3 *4629.7 | 3747.8 *5070.6 | 91.7 | 94.4 | 96.5 | 50.7 | 45.7 | 48 | 3/6 *3/6 |
| ZSM600 | 236.2 | 1543.2 *2425 | 1763.7 *2866 | 2645.5 *4188.7 | 2866 *4629.7 | 100.3 | 102.9 | 105.1 | 59.2 | 54.2 | 56.6 | 3/6 *3/6 |

Note: (1)Free lifting height (without backrest) 1.5T: +20.2"; 2-2.5T: +17.1"; 3-3.5T: 22.8"; 4T: +21"
 (2)The service weight is the weight of forklift with dual tire: +242.5 lb
 (3)*Refers to the load capacity of forklift with dual tires

Engine Model and Main Specification for Option



| Internal combustion Engine Model | Rated power/speed (hp/rpm) | Rated torque/speed (Nm/rpm) | Internal Combustion Engine Displacement | Cylinder number Bore×Stroke | Emission |
|-------------------------------------|------------------------------------|--------------------------------------|---|-----------------------------|--------------|
| GQ4Y | 57.6/2800 (GAS) 49.6/2800 (LPG) | 151/1800 (GAS) 163/1800 (LPG) | 2.237 | 4-91 × 86 | Euro II |
| NISSAN GK21 | 51.8/2700 (GAS) 53.2/2700 (LPG) | 148/2000 (GAS) 149/2000 (LPG) | 2.065 | 4-89 × 83 | EPAT2 |
| NISSAN GK25 | 59.6/2700 (GAS) 61/2700 (LPG) | 175/1600 (GAS) 186/1600 (LPG) | 2.488 | 4-89 × 100 | EPAT2 |
| PSI 2.4 | 64.3/2700 (GAS) 61.6/2700 (LPG) | 170/2400 (GAS) 168/1600 (LPG) | 2.351 | 4-86.5 × 100 | EPAT4 |
| KUBOTA WG2503-GL-E3 (certified) | 57.3/2600 (GAS) 58.3/2600 (LPG) | 163.3/1800 (GAS) 173.7/1400 (LPG) | 2.491 | 4-88 × 102.4 | EPAT3/Euro V |
| KUBOTA WG2503-GL-E3 (non-certified) | 57.3/2600 (GAS) 58.3/2600 (LPG) | 163.3/1800 (GAS) 173.7/1400 (LPG) | 2.491 | 4-88 × 102.4 | / |



Manufacturer and technical data



Characteristics

| | | | | VMAX USA | | | |
|------|----------------------|----|----|---------------|---------------|---------------|---------------|
| 1.01 | Manufacturer | | | | | | |
| 1.02 | Model | | | CPQYD20 | CPQYD25 | CPQYD30 | CPQYD35 |
| 1.03 | Rated capacity | Q | lb | 4,409 | 5,511 | 6,613 | 7,716 |
| 1.04 | Load center distance | C | " | 19.6 | 19.6 | 19.6 | 19.6 |
| 1.05 | Power type | | | (LPG) / (GAS) | (LPG) / (GAS) | (LPG) / (GAS) | (LPG) / (GAS) |
| 1.06 | Driving type | | | Seated | Seated | Seated | Seated |
| 1.07 | Wheel base | L1 | " | 62.9 | 62.9 | 68.5 | 68.5 |

Tires

| | | | | | | | |
|------|---------------------------|----|---|--------------|--------------|--------------|--------------|
| 2.01 | Tire type | | | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| 2.02 | Wheel number (front/rear) | | | 2X / 2 | 2X / 2 | 2X / 2 | 2X / 2 |
| 2.03 | Front tread | W3 | " | 38.1 | 38.1 | 39.3 | 39.3 |
| 2.04 | Rear tread | W2 | " | 38.5 | 38.5 | 38.1 | 38.1 |
| 2.05 | Tire (front) | | | 7.00-12-12PR | 7.00-12-12PR | 28X9-15-12PR | 28X9-15-12PR |
| 2.06 | Tire (rear) | | | 6.00-9-10PR | 6.00-9-10PR | 6.50-10-10PR | 6.50-10-10PR |

Size

| | | | | | | | |
|------|--|-------|---|------------------|------------------|------------------|------------------|
| 3.01 | Front overhang | L2 | " | 18.3 | 18.3 | 19.7 | 19.7 |
| 3.02 | Mast tilting angle, front/rear | α/β | ° | 6/12 | 6/12 | 6/12 | 6/12 |
| 3.03 | Height with mast retraction | H1 | " | 78.7 | 78.7 | 81.2 | 85.8 |
| 3.04 | Free lifting height | H3 | " | 5.7 | 5.7 | 5.7 | 5.7 |
| 3.05 | Max. lifting height | H | " | 118.1 | 118.1 | 118.1 | 118.1 |
| 3.06 | Max. height after lifting | H2 | " | 159.1 | 159.1 | 167.3 | 167.3 |
| 3.07 | Overall guard height | H4 | " | 82.6 | 82.6 | 83.2 | 83.2 |
| 3.08 | Fork size: length × width × thickness | LxWxT | " | 36.2 × 3.9 × 1.5 | 42.1 × 4.7 × 1.5 | 42.1 × 4.9 × 1.7 | 42.1 × 4.9 × 1.9 |
| 3.09 | Overall length (fork excluded) | L' | " | 100.7 | 100.7 | 106.8 | 106.8 |
| 3.10 | Overall width | W1 | " | 45.6 | 45.6 | 48.2 | 48.2 |
| 3.11 | Turning radius | r | " | 87.7 | 87.7 | 94.4 | 95.2 |
| 3.12 | Ground clearance of mast | H5 | " | 4.3 | 4.3 | 4.7 | 4.7 |
| 3.13 | Ground clearance of wheel base center (loaded) | H6 | " | 5.1 | 5.1 | 5.8 | 5.8 |
| 3.14 | Lateral fork adjustment Max./Min. | W5 | " | 40.3/7.8 | 40.3/9.4 | 41.7/9.8 | 41.7/9.8 |

Performance

| | | | | | | | |
|------|-----------------------------------|--|-----|-----------|-----------|-----------|-----------|
| 4.01 | Traveling speed (loaded/unloaded) | | m/h | 10.5/11.8 | 10.5/11.8 | 11.1/11.8 | 11.8/11.8 |
| 4.02 | Lifting speed (loaded/unloaded) | | "/s | 20.8/21.6 | 20.8/21.6 | 17.3/18.8 | 12.9/14.5 |
| 4.03 | Lowering speed | | "/s | 17.7/21.6 | 17.7/21.6 | 17.7/21.6 | 13.7/15.7 |
| 4.04 | Gradeability (loaded) | | % | 23 | 23 | 20 | 16.5 |
| 4.05 | Max. traction force (loaded) | | N | 21 | 21 | 20 | 20 |

Weight

| | | | | | | | |
|------|----------------------------------|--|----|--------------|--------------|--------------|--------------|
| 5.01 | Total weight | | lb | 7,495 | 8,044 | 9,656 | 10,361 |
| 5.02 | Axle load (unloaded), front/rear | | lb | 3,121/4,373 | 4,078/5,081 | 4,078/5,643 | 5,401/6,966 |
| 5.03 | Axle load (loaded), front/rear | | lb | 10,449/1,455 | 12,070/1,774 | 14,285/2,050 | 15,829/2,932 |

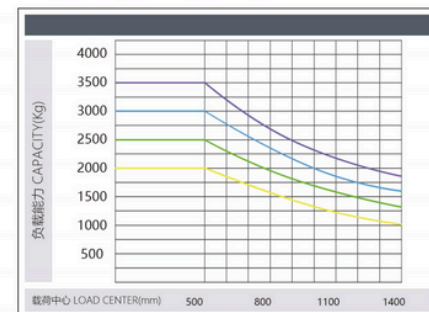
Engine

| | | | | | | | |
|------|---------------------------------|--|--------|------------------------------------|---------------------------------|----|----|
| 6.01 | Engine manufacturer / Model | | | Nissan GK21 | Nissan GK25 | | |
| 6.02 | Rated power / Speed | | Hp/rpm | 51.8/2700 (GAS) 53.2/2700 (LPG) | 44.5/2700 (GAS) 45.5/2700 (LPG) | | |
| 6.03 | Max. torque / Speed | | Nm/rpm | 148/2000 (GAS) 149/2000 (LPG) | 175/1600 (GAS) 186/1600 (LPG) | | |
| 6.04 | Cylinder number-bore×stroke | | | 4-89 × 83 | 4-89 × 100 | | |
| 6.05 | Engine displacement | | L | 2.065 | 2.488 | | |
| 6.06 | Emission | | | EPAT2 | EPAT2 | | |
| 6.07 | Transmission gears (front/rear) | | | | Power Shift | | |
| 6.08 | Fuel tank capacity | | | | 60 | 60 | 60 |

Additional Data

| | | | | | | | |
|------|-----------------------------------|--|-----|------------------------|------|------|------|
| 7.01 | Service brake/parking brake | | | Hydraulic / Mechanical | | | |
| 7.02 | Hydraulic system working pressure | | Mpa | 17.5 | 17.5 | 17.5 | 17.5 |

CPQYD20 CPQYD25 CPQYD30 CPQYD35



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.