OPB12-25N2(F)(P) Series



LOW LEVEL ORDER PICKERS

1.2 - 2.5 tons

EMPOWER YOUR OPERATOR... TRANSFORM YOUR OPERATIONS

Despite its ultra-compact size, our VELiA es range of low level order pickers is packed with smart features that will have your operations running more efficiently, productively and reliably.

SPEC SHEET

OPB12N2F OPB12N2FP

OPB20N2P OPB25N2P

OPB20N2

0PB25N2







VFI (A ES

OPB12-25N2(F)(P) Series

LOW LEVEL ORDER PICKERS

1.2 - 2.5 tons



It has excellent energy efficiency. It's 14% more efficient than its closest competitor, meaning you can work extremely lean. Its market-leading ergonomics mean your operators will be as comfortable (and productive) as possible - even through the longest shifts.

At the heart of every VELiA ES model is hyper-intelligent software that molds the truck's behavior to your operator and your operations for performance that is consistently easier, steadier and superior.

With drive speeds of up to 13 km/h, VELiA ES is sure to pick up the pace of your operations... whichever model you choose (standard, or rising fork [F].

DRIVE

- Class-leading energy efficiency (14%) lower than nearest competitor) ensures running costs are kept to a minimum.
- Powerful drive motor provides excellent traction and adjustable acceleration, deceleration and brake force, for smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.
- Intelligent curve control automatically adjusts travel speeds during turns according to steer angle for increased operator and load stability, improved productivity and reduced tire wear.
- Sensitive Drive System (SDS) senses faster or slower operator control movements and adjusts truck performance accordingly, contributing to excellent driver performance.
- Adaptive steering system ensures truck performance matches operator needs whether travelling in reverse or at speed - for smooth and precise operations.

Smooth handling helps to provide smooth directional changes and stops.

OPERATOR ENVIRONMENT AND CONTROLS

- Flying start technology shortens acceleration time for ultimate picking productivity.
- Side steering mode allows the operator to advance the truck without having to get back onto the platform, helping to increase productivity.
- Super-grip floor helps to increase operator confidence and productivity.
- Triple-suspension floating floor with sideways dampening and advanced cushioning, helps to reduce microvibrations for exceptional operator
- Perfectly-angled footrest helps to ensure optimal positioning of foot and ankle for drivers of virtually all heights.
- Easy-access platform features low step height and chamfered edges - helping to minimize trip hazards for easy on/ off access.
- Next generation Maxius steering wheel absorbs vibrations and shocks to help increase operational comfort.
- Easy-reach controls buttons and switches are easy to reach, helping to reduce strain and improve operation.
- Optional clear color display alerts operators and service engineers to potential problems: thus helping to avoid damage, while enhancing and promoting good maintenance habits.
- Rising operator platform lifts to 1000 mm for picking heights of up to 2.5 m - helping to minimize stretching and straining for operators [P models only].

 Countoured backrest helps to provide comfortable support.

FORKS

Bevelled easy-entry forks offer virtually effortless pallet entry, helping to reduce time and risk of pallet damage for increased efficiency.

FRAME AND BODY

- Robust design benefits from extensive testing – leads to comfortable operation, increased efficiencies and low maintenance costs.
- Excellent lift height up to 220 mm offers high ground clearance for easy handling on loading docks and ramps [standard models].

ELECTRICAL AND CONTROL SYSTEMS

Full electronic steering with no steering wheel kickback gives precise control for optimum productivity, efficiency and maneuverability.

STEERING SYSTEM

- Small turning radius together with responsive steering and compact chassis allows for exceptional maneuverability.
- Advanced electric steering allows for precise control, with automatic speed reduction in curves and automatic drive wheel centering.
- 100-degree steering angle helps to ensure exceptional manoeuvrability - even in tight spaces.

BRAKES

- Regenerative braking with no drive wheel jamming or brake wear allows for effective control and excellent energy efficiency.
- Anti-lock brakes helps to ensure effective stopping - even on slippery surfaces.



VDI - PERFORMANCE & DIMENSIONS

| | CHARACTERISTICS | | | | |
|---------------|---|-------------|----------|------------------------|---------------------|
| 1.1 | Manufacturer | | | Mitsubishi | Mitsubishi |
| 1.2 | Manufacturer's model designation | | | OPB20N2 | OPB25N2 |
| 1.3 | Power source | | | Battery | Battery |
| 1.4 | Operator type | | | Stand-on | Stand-on |
| 1.5 | Load capacity | Q | kg | 2000 | 2500 |
| 1.6 | Load center distance | С | mm | 600 | 600 |
| 1.8 | Load wheel axle to fork face (forks lowered) | x | mm | 960 | 960 |
| 1.9 | Wheelbase | у | mm | 2054 5) | 2054 5) |
| | WEIGHT | | | | |
| 2.1 | Truck weight without load, with maximum battery weight | | kg | 1079 1) | 1079 1) |
| 2.2 | Axle loadings with nominal load & maximum battery weight, drive/load side | | kg | 1082 /1997 | 1178 / 2401 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive/load side | | kg | 829 / 250 | 829 / 250 |
| | WHEELS, DRIVE TRAIN | | | | |
| 3.1 | Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side | | | Vul / Vul | Vul / Vul |
| 3.2 | Tire dimensions, drive side | | mm | ø250 | ø250 |
| 3.3 | Tire dimensions, load side | | mm | ø85 | ø85 |
| 3.4 | Castor wheel dimensions (diameter × width) | | mm | ø180 × 65 | ø180 × 65 |
| 3.5 | Number of wheels, load/drive side (x=driven) | | | 4 / 1x1 | 4 / 1x1 |
| 3.6 | Track width (center of tires), drive side | b10 | mm | 494 | 494 |
| 3.7 | Track width (center of tires), load side | b11 | mm | 365 | 365 |
| | DIMENSIONS | | | | |
| 4.2a | Height with mast lowered | h1 | mm | 1173 | 1173 |
| 4.4 | Lift height | h3 | mm | 135 | 135 |
| 4.5 | Height with mast extended | h4 | mm | - | - |
| 4.8 | Seat- or stand height | h7 | mm | 123 | 123 |
| 4.14 | Platform height, raised | h12 | mm | - | - |
| 4.15 | Fork height, fully lowered | h13 | mm | 85 | 85 |
| 4.19 | Overall length | l1 | mm | 2421 5) | 2421 5) |
| 4.20 | Length to fork face Overall width | l2 b1/b2 | mm | 1271 5) | 1271 5) |
| 4.21 | Fork dimensions (thickness, width, length) | s/e/l | mm | 800 | 800 |
| 4.22 | Outside width over forks (minimum / maximum) | b5 | mm | 60 / 175 / 900-3600 | 60 / 175 / 900-3600 |
| 4.25 4.32 | Ground clearance at center of wheelbase, (forks lowered) | m2 | mm mm | 480 / 660 25 | 480 / 660 |
| 4.32 4.34a | Working aisle width (Ast) with 800 × 1200 mm pallets, load lengthwise | Ast | mm | | 25 |
| 4.34a 4.35 | Turning radius | Wa | mm | 2898 5) 2231 5) | 2898 5) 2231 5) |
| 4.35 | PERFORMANCE | vva | 111111 | 2231 0) | 2231 3) |
| 5.1 | Travel speed, with / without load | | km/h | 9.0 / 9.0 (opt 9 / 13) | 9.0 / 13.0 |
| 5.2 | Lifting speed, with / without load | | m/s | 0.04 / 0.05 | 0.03 / 0.05 |
| 5.3 | Lowering speed, with / without load | | m/s | 0.05 / 0.03 | 0.05 / 0.03 |
| 5.7 | Gradeability, with / without load | | % | 7 / 15 | 7 / 15 |
| 5.10 | Service brake | | ,, | E#lectric | Electric |
| 5.10 | ELECTRIC MOTORS | | | Entecti ic | Licetife |
| 6.1 | Drive motor capacity (60 min. short duty) | | kW | 2.6 | 2.6 |
| 6.2 | Lift motor output at 15% duty factor | | kW | 1.2 | 1.2 |
| 6.4 | Battery voltage/capacity at 5-hour discharge | | V/Ah | 24 / 465-620 | 24 / 465-620 |
| 6.5 | Battery weight | | kg | 355-493 | 355-493 |
| 6.6a | Energy consumption according to EN 16796 | | kWh/h | 0.37 | 0.4 |
| | MISCELLANEOUS | | | | |
| 8.1 | Type of drive control | | | Stepless | Stepless |
| 10.7 | 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) | 62 3) | 62 3) |
| 10.7.1 | Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ | | dB(A) | 73 / 62 / - 3) | 73 / 62 / - 3) |
| 10.7.2 | Whole-body vibration (EN 13 059:2002) | | | 0.6 | 0.6 |
| 10.7.3 | Hand-arm vibration (EN 13 059:2002) | | | <2.5 | <2.5 |
| | | | | | |

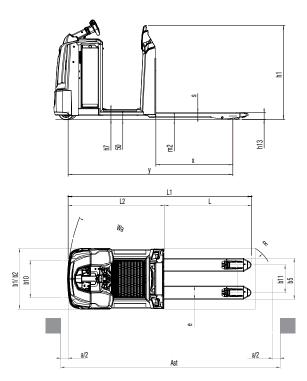
- 1) Forks 540 × 1150, battery 620 Ah
- 2) Forks 540 × 1150/ lift 1200mm, battery 620 Ah
- 3) Inaccuracy of 4 dB(A)
- 4) Fork carriage length 2375 mm
- 5) With 620Ah battery + 100mm

VELÍA ES LOW LEVEL ORDER PICKERS

OPB20N2 / 25N2

STANDARD MODEL 2.0 - 2.5 tons





Ast = Wa - x + 16 + 200

Ast = Working aisle width

Wa = Turning radius

a = Safety clearance = 2 ×100 mm

 $R = \sqrt{(16 + x)^2 + (b12 / 2)^2}$

l6 = Pallet length (800 or 1000 mm)

b12 = Pallet width (1200 mm)

VDI - PERFORMANCE & DIMENSIONS

| | CHARACTERISTICS | | | | |
|--------|---|-------|-------|---------------------------|---------------------|
| 1.1 | Manufacturer | | | Mitsubishi | Mitsubishi |
| 1.2 | Manufacturer's model designation | | | OPB20N2P | OPB25N2P |
| 1.3 | Power source | | | Battery | Battery |
| 1.4 | Operator type | | | Stand-on | Stand-on |
| 1.5 | Load capacity | Q | kg | 2000 | 2500 |
| 1.6 | Load center distance | С | mm | 600 | 600 |
| 1.8 | Load wheel axle to fork face (forks lowered) | х | mm | 960 | 960 |
| 1.9 | Wheelbase | у | mm | 2054 5) | 2054 5) |
| | WEIGHT | | | | |
| 2.1 | Truck weight without load, with maximum battery weight | | kg | 1215 1) | 1215 1) |
| 2.2 | Axle loadings with nominal load & maximum battery weight, drive/load side | | kg | 1130 / 2085 | 1223 / 2492 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive/load side | | kg | 913 / 302 | 913 / 302 |
| | WHEELS, DRIVE TRAIN | | | | |
| 3.1 | Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side | | | Vul/ Vul | Vul/ Vul |
| 3.2 | Tire dimensions, drive side | | mm | ø250 | ø250 |
| 3.3 | Tire dimensions, load side | | mm | ø85 | ø85 |
| 3.4 | Castor wheel dimensions (diameter × width) | | mm | ø180 × 65 | ø180 × 65 |
| 3.5 | Number of wheels, load/drive side (x=driven) | | | 4 / 1x1 | 4 / 1x1 |
| 3.6 | Track width (center of tires), drive side | b10 | mm | 494 | 494 |
| 3.7 | Track width (center of tires), load side | b11 | mm | 365 | 365 |
| | DIMENSIONS | | | | |
| 4.2a | Height with mast lowered | h1 | mm | 1394 / 2244 | 1394 / 2244 |
| 4.4 | Lift height | h3 | mm | 135 | 135 |
| 4.5 | Height with mast extended | h4 | mm | - | - |
| 4.8 | Seat- or stand height | h7 | mm | 150 | 150 |
| 4.14 | Platform height, raised | h12 | mm | 1000 | 1000 |
| 4.15 | Fork height, fully lowered | h13 | mm | 85 | 85 |
| 4.19 | Overall length | l1 | mm | 2421 5) | 2421 5) |
| 4.20 | Length to fork face | Ι2 | mm | 1271 5) | 1271 5) |
| 4.21 | Overall width | b1/b2 | mm | 800 | 800 |
| 4.22 | Fork dimensions (thickness, width, length) | s/e/l | mm | 60 / 175 / 900-3600 | 60 / 175 / 900-3600 |
| 4.25 | Outside width over forks (minimum / maximum) | b5 | mm | 480 / 660 | 480 / 660 |
| 4.32 | Ground clearance at center of wheelbase, (forks lowered) | m2 | mm | 25 | 25 |
| 4.34a | Working aisle width (Ast) with 800 × 1200 mm pallets, load lengthwise | Ast | mm | 2898 5) | 2898 5) |
| 4.35 | Turning radius | Wa | mm | 2231 5) | 2231 5) |
| | PERFORMANCE | | | | |
| 5.1 | Travel speed, with / without load | | km/h | 9.0 / 9.0 (opt 9 / 13) 6) | 9.0 / 13.0 6) |
| 5.2 | Lifting speed, with / without load | | m/s | 0.04 / 0.05 | 0.03 / 0.05 |
| 5.3 | Lowering speed, with / without load | | m/s | 0.05 / 0.03 | 0.05 / 0.03 |
| 5.7 | Gradeability, with / without load | | % | 7 / 15 | 7 / 15 |
| 5.10 | Service brake | | | Electric | Electric |
| | ELECTRIC MOTORS | | | | |
| 6.1 | Drive motor capacity (60 min. short duty) | | kW | 2.6 | 2.6 |
| 6.2 | Lift motor output at 15% duty factor | | kW | 2.2 | 2.2 |
| 6.4 | Battery voltage/capacity at 5-hour discharge | | V/Ah | 24 / 465-620 | 24 / 465-620 |
| 6.5 | Battery weight | | kg | 355-493 | 355-493 |
| 6.6a | Energy consumption according to EN 16796 | | kWh/h | 0.37 | 0.4 |
| | MISCELLANEOUS | | | | |
| 8.1 | Type of drive control | | | Stepless | Stepless |
| 10.7 | 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) | 62 3) | 62 3) |
| 10.7.1 | Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ | | dB(A) | 73 / 62 / - 3) | 73 / 62 / - 3) |
| 10.7.2 | Whole-body vibration (EN 13 059:2002) | | | 0.6 | 0.6 |
| 10.7.3 | Hand-arm vibration (EN 13 059:2002) | | | <2.5 | <2.5 |

- 1) Forks 540 × 1150, battery 620 Ah
- 2) Forks 540 × 1150/ lift 1200mm, battery 620 Ah
- 3) Inaccuracy of 4 dB(A)
- 4) Fork carriage length 2375 mm
- 5) With 620Ah battery + 100mm

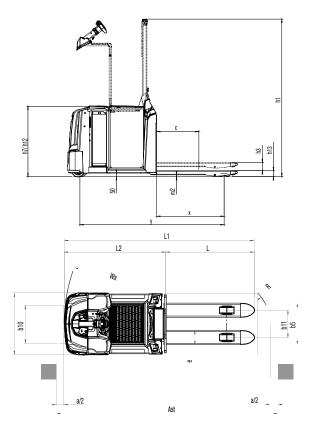
VELÍA ES LOW LEVEL ORDER PICKERS

OPB20N2P / 25N2P

RISING PLATFORM MODEL

2.0 - 2.5 tons





Ast = Wa - x + 16 + 200

Ast = Working aisle width

Wa = Turning radius

a = Safety clearance = 2 ×100 mm

 $R = \sqrt{(16 + x)^2 + (b12 / 2)^2}$

l6 = Pallet length (800 or 1000 mm)

b12 = Pallet width (1200 mm)

VDI - PERFORMANCE & DIMENSIONS

| CHARACTERISTICS Manufacturer Mitsubishi | Mitsubishi OPB12N2FP Battery Stand-on 1200 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416 Vul / Vul ø250 |
|--|--|
| 1.2 Manufacturer's model designation OPB12NZF 1.3 Power source Sattery 1.4 Operator type Stand-on 1.5 Load capacity Q kg 1200 1.6 Load center distance C mm 600 1.8 Load wheel axle to fork face (forks lowered) x mm 785 1.9 Wheelbase y mm 1929 5) | OPB12N2FP Battery Stand-on 1200 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416 Vul / Vul |
| 1.3 Power source Battery Stand-on 1.4 Operator type Stand-on 1.5 Load capacity Q kg 1200 1.6 Load center distance c mm 600 600 1.8 Load wheel axle to fork face (forks lowered) x mm 785 | Battery Stand-on 1200 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416 Vul / Vul |
| 1.4 Operator type Stand-on 1.5 Load capacity Q kg 1200 1.6 Load center distance c mm 600 1.8 Load wheel axle to fork face (forks lowered) x mm 785 1.9 Wheelbase y mm 1929 5) WEIGHT 2.1 Truck weight without load, with maximum battery weight, drive/load side kg 1220 2) 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side kg 972 / 1448 2.3 Axle loadings without load & with maximum battery weight, drive/load side kg 853 / 367 WHEELS, DRIVE TRAIN 3.1 Tires dimensions, drive side mm ø85 3.2 Tire dimensions, load side mm ø85 3.3 Tire dimensions, load side mm ø85 3.4 Castor wheel dimensions (diameter × width) mm ø85 3.5 Number of wheels, load/drive side (x=driven) 4 / 1x1 3.6 Track width (center of tires), drive side </td <td>Stand-on 1200 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416</td> | Stand-on 1200 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416 |
| 1.5 Load capacity Q kg 1200 1.6 Load center distance c mm 600 1.8 Load wheel axle to fork face (forks lowered) x mm 785 1.9 Wheelbase y mm 1929 5) WEIGHT 2.1 Truck weight without load, with maximum battery weight, drive/load side kg 1220 2) 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side kg 972 / 1448 2.3 Axle loadings without load & with maximum battery weight, drive/load side kg 853 / 367 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side Vul / Vul 3.2 Tire dimensions, drive side mm ø250 3.3 Tire dimensions, load side mm ø85 3.4 Castor wheel dimensions (diameter × width) mm ø180 x 65 3.5 Number of wheels, load/drive side (x=driven) 4/1x1 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 765 / 111 | 1200 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416 |
| 1.6 Load center distance 1.8 Load wheel axle to fork face (forks lowered) 2.7 Wheelbase 2.1 Truck weight without load, with maximum battery weight without load & maximum battery weight, drive/load side 2.3 Axle loadings with nominal load & maximum battery weight, drive/load side 2.3 Axle loadings without load & with maximum battery weight, drive/load side 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side 3.2 Tire dimensions, drive side 3.3 Tire dimensions, load side 3.4 Castor wheel dimensions (diameter × width) 3.5 Number of wheels, load/drive side (x=driven) 3.6 Track width (center of tires), drive side 3.7 Track width (center of tires), drive side 3.8 Height with mast lowered 4.1 Lift height 4.2 Height with mast lowered 4.2 Seat- or stand height 4.3 Seat- or stand height 4.14 Platform height, raised C mm 600 807 808 707 809 809 809 809 8 | 600 785 1929 5) 1356 2) 1059 / 1497 940 / 416 Vul / Vul |
| 1.8 Load wheel axle to fork face (forks lowered) 1.9 Wheelbase WEIGHT 2.1 Truck weight without load, with maximum battery weight 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side 2.3 Axle loadings without load & with maximum battery weight, drive/load side WHEELS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side 3.2 Tire dimensions, drive side 3.3 Tire dimensions, load side 3.4 Castor wheel dimensions (diameter × width) 3.5 Number of wheels, load/drive side (x=driven) 3.6 Track width (center of tires), drive side 3.7 Track width (center of tires), drive side 4.14 Lift height 4.5 Height with mast lowered 4.8 Seat- or stand height 4.14 Platform height, raised Kg 972 / 1448 8 kg 972 / 1448 8 year or stand height 1220 2) 8 kg 972 / 1448 8 kg 972 / 1448 8 year or stand height 1220 2) 8 cm | 785 1929 5) 1356 2) 1059 / 1497 940 / 416 Vul / Vul |
| 1.9 Wheelbase y mm 1929 5) WEIGHT 2.1 Truck weight without load, with maximum battery weight 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side kg 972 / 1448 2.3 Axle loadings without load & with maximum battery weight, drive/load side kg 853 / 367 WHEELS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side mm ø250 3.3 Tire dimensions, drive side mm ø250 3.4 Castor wheel dimensions (diameter × width) mm ø185 3.4 Castor wheel dimensions (diameter × width) mm ø180 × 65 3.5 Number of wheels, load/drive side (x=driven) 4 / 1x1 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 355 DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised | 1929 5) 1356 2) 1059 / 1497 940 / 416 Vul / Vul |
| ### Seat- or stand height 2.1 Truck weight without load, with maximum battery weight 1220 2 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side kg 972 / 1448 2.3 Axle loadings without load & with maximum battery weight, drive/load side kg 853 / 367 ### WHEELS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side mm ø250 3.2 Tire dimensions, drive side mm ø250 3.3 Tire dimensions, load side mm ø85 3.4 Castor wheel dimensions (diameter × width) mm ø180 × 65 3.5 Number of wheels, load/drive side (x=driven) 4 / 1x1 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 355 ### DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | 1356 2) 1059 / 1497 940 / 416 Vul / Vul |
| 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side 2.3 Axle loadings without load & with maximum battery weight, drive/load side WHEELS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side 3.2 Tire dimensions, drive side 3.3 Tire dimensions, load side 3.4 Castor wheel dimensions (diameter × width) 3.5 Number of wheels, load/drive side (x=driven) 3.6 Track width (center of tires), drive side 3.7 Track width (center of tires), load side DIMENSIONS 4.2a Height with mast lowered 4.5 Height with mast extended 4.5 Seat- or stand height 4.6 Seat- or stand height 4.14 Platform height, raised Myul /Vul 8.5 853 / 367 Vul /Vul 8.6250 mm ø85 mm ø85 ø85 4.14 Platform height, raised | 1059 / 1497 940 / 416 Vul / Vul |
| 2.2 Axle loadings with nominal load & maximum battery weight, drive/load side 2.3 Axle loadings without load & with maximum battery weight, drive/load side WHEELS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side 3.2 Tire dimensions, drive side 3.3 Tire dimensions, load side 3.4 Castor wheel dimensions (diameter × width) 3.5 Number of wheels, load/drive side (x=driven) 3.6 Track width (center of tires), drive side 3.7 Track width (center of tires), load side DIMENSIONS 4.2a Height with mast lowered 4.1a Lift height 4.5 Height with mast extended 4.8 Seat- or stand height 4.14 Platform height, raised MU / Vul 488 853 / 367 Vul / Vul 865 863 / 367 Vul / Vul 862 / 500 863 / 367 Vul / Vul 862 / 500 863 / 367 Vul / Vul 862 / 500 863 / 367 Vul / Vul 862 / 500 863 / 367 Vul / Vul 864 / 500 865 / 30 | 1059 / 1497 940 / 416 Vul / Vul |
| 2.3 Axle loadings without load & with maximum battery weight, drive/load side WHELLS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side 3.2 Tire dimensions, drive side 3.3 Tire dimensions, load side 3.4 Castor wheel dimensions (diameter × width) 3.5 Number of wheels, load/drive side (x=driven) 3.6 Track width (center of tires), drive side 3.7 Track width (center of tires), load side DIMENSIONS 4.2a Height with mast lowered 4.5 Height with mast extended 4.8 Seat- or stand height 4.14 Platform height, raised Kul / Vul / Vul Vul / Vul Vul / Vul Vul / Vul Ø85 Vul / Vul Ø85 Vul / Vul Ø85 Nm Ø85 Ø85 Ava Pathom of tires on the standard of the standard | 940 / 416 Vul / Vul |
| WHEELS, DRIVE TRAIN 3.1 Tires: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side Tire dimensions, drive side mm ø85 mm mm mm mm mm mm mm | Vul / Vul |
| 3.2 Tire dimensions, drive side mm ø250 3.3 Tire dimensions, load side mm ø85 3.4 Castor wheel dimensions (diameter × width) mm ø180 × 65 3.5 Number of wheels, load/drive side (x=driven) 4 / 1x1 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 355 DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | |
| 3.2 Tire dimensions, drive side mm ø250 3.3 Tire dimensions, load side mm ø85 3.4 Castor wheel dimensions (diameter × width) mm ø180 × 65 3.5 Number of wheels, load/drive side (x=driven) 4 / 1x1 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 355 DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | |
| 3.4 Castor wheel dimensions (diameter × width) 3.5 Number of wheels, load/drive side (x=driven) 3.6 Track width (center of tires), drive side 3.7 Track width (center of tires), load side DIMENSIONS | |
| 3.5 Number of wheels, load/drive side (x=driven) 4 / 1x1 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 355 DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | ø85 |
| 3.6 Track width (center of tires), drive side b10 mm 494 3.7 Track width (center of tires), load side b11 mm 355 DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | ø180 × 65 |
| 3.7 Track width (center of tires), load side b11 mm 355 DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | 4 / 1x1 |
| DIMENSIONS 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | 494 |
| 4.2a Height with mast lowered h1 mm 1173 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | 355 |
| 4.4 Lift height h3 mm 765 / 1115 4.5 Height with mast extended h4 mm 1275 / 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | |
| 4.5 Height with mast extended h4 mm 1275, 1625 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | 1394 / 2244 |
| 4.8 Seat- or stand height h7 mm 123 4.14 Platform height, raised h12 mm - | 765 / 1115 |
| 4.14 Platform height, raised h12 mm - | 1275 / 1625 |
| | 150 |
| | 1000 |
| 4.15 Fork height, fully lowered h13 mm 85 | 85 |
| 4.19 Overall length I1 mm 2471 5) | 2471 5) |
| 4.20 Length to fork face 12 mm 1321 5) | 1321 5) |
| 4.21 Overall width b1/b2 mm 800 | 800 |
| 4.22 Fork dimensions (thickness, width, length) S/e/l mm 56 / 186 / 950-148 | 50 56 / 186 / 950-1450 |
| 4.25 Outside width over forks (minimum / maximum) b5 mm 540 / 570 | 540 / 570 |
| 4.32 Ground clearance at center of wheelbase, (forks lowered) m2 mm 25 | 25 |
| 4.34a Working aisle width (Ast) with 800 × 1200 mm pallets, load lengthwise Ast mm 2881 5) | 2881 5) |
| 4.35 Turning radius Wa mm 2106 5) | 2106 5) |
| PERFORMANCE | |
| |)7) 9.0 / 9.0 (opt 9 / 13) 7) |
| 5.2 Lifting speed, with / without load m/s 0.20 / 0.41 | 0.20 / 0.41 |
| 5.3 Lowering speed, with / without load m/s 0.30 / 0.36 | 0.30 / 0.36 |
| 5.7 Gradeability, with / without load % 7 / 15 | 7 / 15 |
| 5.10 Service brake Electric | Electric |
| ELECTRIC MOTORS | |
| 6.1 Drive motor capacity (60 min. short duty) kW 2.6 | 2.6 |
| 6.2 Lift motor output at 15% duty factor kW 2.2 | 2.2 |
| 6.4 Battery voltage/capacity at 5-hour discharge V/Ah 24 / 465-620 | 24 / 465-620 |
| 6.5 Battery weight kg 355-493 | 355-493 |
| 6.6a Energy consumption according to EN 16796 kWh/h 0.37 | 0.37 |
| MISCELLANEOUS | |
| 8.1 Type of drive control Stepless | Stepless |
| 10.7 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) 62 3) | (2.2) |
| 10.7.1 Level of noise at the ear level of the griver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73 / 62 / - 3) | 62 3) |
| 10.7.2 Whole-body vibration (EN 13 059:2002) 0.6 | 73 / 62 / - 3) |
| 10.7.3 Hand-arm vibration (EN 13 059:2002) <2.5 | |

- 1) Forks 540 × 1150, battery 620 Ah
- 2) Forks 540 × 1150/ lift 1200mm, battery 620 Ah
- 3) Inaccuracy of 4 dB(A)
- 4) Fork carriage length 2375 mm
- 5) With 620Ah battery + 100mm

Ast = Wa - x + 16 + 200

Ast = Working aisle width

Wa = Turning radius

- a = Safety clearance = 2 ×100 mm
- $R = \sqrt{(16 + x)^2 + (b12 / 2)^2}$
- l6 = Pallet length (800 or 1000 mm)
- b12 = Pallet width (1200 mm)



LOW LEVEL ORDER PICKERS

OPB12N2F

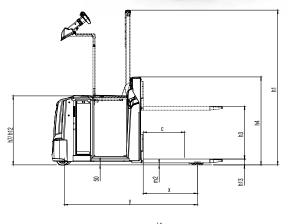
RISING FORKS MODEL 1.2 tons

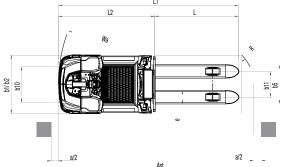


OPB12N2FP

RISING FORKS AND RISING PLATFORM MODEL 1.2 tons







STANDARD EQUIPMENT & OPTIONS

| ● = Standard | | | | | | |
|--|---------|---------|----------|----------|----------|-----------|
| = Option | OPB20N2 | OPB25N2 | OPB20N2P | OPB25N2P | OPB12N2F | OPB12N2FP |
| GENERAL | | | | | | |
| Multifunctional steering wheel (electric 200°) | • | • | • | • | • | • |
| Power ON/OFF by Key switch | • | • | • | • | • | • |
| Hourmeter & BDI | • | • | • | • | • | • |
| ECO/PRO mode | • | • | • | • | • | • |
| Drive speed reduction in curves | • | • | • | • | • | • |
| Maximum drive speed adjusted according to load weight | • | • | • | • | • | • |
| Floor mat acting as dead man's pedal | • | • | • | • | • | • |
| Crane battery change | • | • | • | • | • | • |
| Polyurethane wheels | • | • | • | • | • | • |
| Tandem load wheels polyurethane | • | • | • | • | • | • |
| Suspended operator's platform | • | • | • | • | • | • |
| Simultaneously driving and lifting the forks | • | • | • | • | • | • |
| Hill hold | • | • | • | • | • | • |
| Automatic parking brake | • | • | • | • | • | • |
| Lifting driver's platform, h=1000 mm (OPB20N2/25N2P, 20N2XP, 12N2FP) | _ | _ | • | • | _ | • |
| Lift height (h3 + h13) 220 mm (OPB20N2/25N2, OPB12N2FP) | • | • | • | • | _ | _ |
| Lift height (h3 + h13) 850 mm (OPB12N2F, OPB12N2FP) | _ | _ | _ | _ | • | • |
| Lift height (h3 + h13) 855 mm (OPB20N2X/25N2XP) | _ | _ | _ | _ | _ | • |
| Simultaneous driving and lifting the driver's platform | _ | _ | • | • | _ | • |
| Drive speed reduction when platform raised (4 km/h) | _ | _ | • | • | _ | • |
| Drive speed reduction when forks raised (lift height > 300 mm) | _ | _ | _ | _ | • | • |
| ENVIRONMENT | | | | | | |
| Cold store design, 0C° to -35C° | | | | | | |
| DRIVE, LIFT CONTROLS | | | | | | |
| Walk beside drive button in backrest, FWD/BWD | | | | | | |
| Buttons for lift / lower on sides of backrest | | • | | | | |
| SAFETY | | | | | | |
| Blue point safety light towards driving direction (forks trailing) | | | | | | |
| Red point safety light towards driving direction (forks trailing) | • | • | • | • | • | • |
| Driving light towards driving direction (forks trailing) | | | | | | |
| Warning strobe, yellow | | | | | | |
| Drive alarm (programmable) | | | | | | |
| Fire extinguisher | • | • | • | | • | • |
| WHEEL OPTIONS | | | | | | |
| Polyurethane traction and load wheels | • | • | • | • | • | • |
| Power friction traction wheel | | • | • | | • | • |
| OUTLOOK | | | | | | |
| Special RAL color on front machinery steel cover | • | • | • | • | • | • |



Multifunctional steering wheel with optional color display.



Optional walk beside drive button and buttons for lift / lower in backrest



Fire extinguisher



Optional blue point safety light.



LOW LEVEL ORDER PICKERS

1.2-2.5 tons



STANDARD EQUIPMENT & OPTIONS

| = Standard = Option | OPB20N2 | OPB25N2 | OPB20N2P | OPB25N2P | OPB12N2F | OPB12N2FP |
|--|----------|-----------|------------|------------|-----------|------------|
| OTHER OPTIONS | OI DZONZ | 01 023112 | 01 0201121 | 01 B231121 | OI DIZNZI | OI DIZNZII |
| High drive speed 13 km/h (without load) | • | _ | • | _ | • | • |
| PIN code access with BDI display | | | | | • | |
| PIN code access with color display | | • | | | • | |
| Color display without PIN code access | | | | | | |
| Walk beside drive button in backrest, FWD / BWD | • | • | • | • | | • |
| Buttons for lift/lower on sides of backrest | • | • | • | • | • | |
| Accessory rail in front | | | _ | _ | | _ |
| Picking tray, for OPB20/25N2P, OPBN2XP and OPB12N2FP models only. Max. 50 kg | _ | | • | | | |
| Scanner holder | _ | | | | - | |
| Equipment holder (RAM mountings) | | | | | | |
| Wrapping holder | | | | | | |
| Load backrest | | | • | | | |
| Rear grab handle on backrest | | | _ | _ | _ | _ |
| Foot switch for lowering the driver's platform | _ | _ | • | | _ | |
| Sideways battery change | | | | | | |
| Clipboard, A4 | | | • | | | |
| Front storage boxes | • | • | _ | _ | | _ |
| Storage folder on bottom of the platform | • | • | _ | _ | • | _ |
| Entry and exit rollers for crosswise pallet handling | • | • | • | • | _ | _ |
| Back cushion, tiltable to seat position for back & feet rest. Adjustable in height | • | | _ | _ | • | _ |
| Power supply, 12 V | • | • | • | • | • | • |
| Power supply, USB 5 V | | • | • | • | • | |
| Heavy duty front nylon strip covered bumper | | • | • | • | • | • |
| Raised front guard plate | • | • | • | • | • | • |
| Load Weight Indicator +/- 50kg | • | • | • | • | • | • |



LOW LEVEL ORDER PICKERS

1.2-2.5 tons





Multifunctional steering wheel with optional color display.



Optional walk beside drive button and buttons for lift / lower in backrest



Fire extinguisher



Optional blue point safety light.

WHEN RELIABILITY IS EVERYTHING...



THE FRONT RUNNER

With a name that reflects the speed of its work, VELiA is always ahead of the pack — thanks to award-winning productivity and ergonomics. Swift, versatile and maneuverable, there is a VELiA order picker to meet every need.

Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you quality, reliability and value for money, you know it's a guarantee we have the power to deliver.

That's why every model in our award winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

No matter where you are, we are close by – with the capability to meet your needs.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website www.mitforklift.com

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tires, floor or surface conditions, applications or operating environment. Trucks may be shown with nonstandard options. Specific performance requirements and locally available configurations should be discussed with your distributor of Mitsubishi forklift trucks. We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

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