PREMÍA ES

PBP16 - 20N3(R)(E) Series

POWER PALLET TRUCK

1.6 - 2.0 tonnes

DESIGNED TO EXCEL BUILT TO LAST

Developed for non-stop performance in the most challenging environments, PREMiA ES pedestrian power pallet trucks help you go the distance. Thanks to its sealed protective chassis and waterproof components, PREMiA ES is unaffected by dirt, debris, dust, and water, working dependably indoors or out with minimal maintenance.

SPECIFICATIONS

PBP16N3

PBP18N3

PBP20N3

PBP20N3R

PBP20N3E









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BRAKES

- Parking brake Automatically activated when necessary for extra safety on ramps.
- Regenerative braking Extends shift life and gives effective control without brake wear.

DRIVE

- Sealed transmission Shock-resistant, quiet and requires little maintenance.
- Powerful AC drive motor Excellent traction and ramp performance, smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.
- Sensitive Drive System (SDS) An intuitive driver-assist system for increased safety. Performance is managed according to steer angle and the velocity of finger controls.

ELECTRICAL AND CONTROL SYSTEMS

- Programmable controller Acceleration, speed and braking can be adjusted to suit the application and operator's preferences.
- On-board diagnostics and fault memory folder Speed up servicing and help prevent damage.

FORKS AND MAST

- Robust forks Strong welded construction with rounded tips for effortless pallet
- Market-leading lift height of 220mm Ideal for handling on steep ramps, loading docks and uneven surfaces, even when using recycled pallets.
- Tapered forks Access to pallets in racks or block stacks is easier, quicker and safer.

FRAME AND BODY

- Sealed chassis Internal components are protected against water, dirt, dust and debris, reducing downtime and servicing.
- Water-resistant design Water is kept away from key electrical parts for safety and longer part life.
- Two linked castor wheels In addition to the load wheels for added stability. Increases comfort for the driver and safety for the load.
- Low centre of gravity Operation is safer and more stable.
- Operate in low temperatures Can be used down to -10°C noncondensing (+1°C condensing) and with an optional cold store modification down to -35°C operating.





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OPERATOR COMPARTMENT AND CONTROLS

 Choice of two pre-set operating modes (ECO and PRO)

Enabled via key switch to enhance safety, energy efficiency and productivity.

Creep speed function and tiller-up

Operators can easily manoeuvre in confined areas, with speed limited for added safety and control.

 Unique crossbar design Tiller arm and operator's hand are protected.

Ergonomic rubber hand grips Handles are comfortable and easy to hold.

Battery discharge indicator Fitted as standard for battery protection and preventing deep

discharge.

 Low to the ground Ground clearance is only 35mm so there is very low risk of foot trapping.

Spacious platform Suspended foldable platform allows operator to ride in safety and comfort with centre steering. (PBP20N3R)

 Left-handed or right-handed controls

The tiller arm's versatile design allows for operation from either side.

 Easy-to-operate tiller arm Its large buttons mean operators can focus on the task in hand and

Emergency stop Easy and fast stop to power in an emeraency.

STEERING SYSTEM

minimise mistakes

 Ergonomic ErgoSteer tiller head Best-in-class, weather-protected and impact-resistant tiller head with large, easy-to-reach buttons placed at a patented ergonomic distance for reduced fatigue and safer operation. IP65 rated.

 Small turning circle Combine this with the compact

chassis and operation is possible in tight areas allowing for optimised use of warehouse space.

OTHER FEATURES

 RapidAccess features These allow quick and easy entry to all areas for checks and maintenance.

PIN-code access Stops unauthorised truck use and keeps you aware of who's operating at all times. (Option)









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PREMIA ES



OPTIONAL LI-ION BATTERY SYSTEMS

MAKE YOUR FORKLIFT GO EVEN FURTHER



Tried, tested and proven in the field. lead-acid batteries have been the long-standing choice for companies employing electric lift trucks. However, with long charging times, demanding maintenance requirements, the need for extra batteries, and high risk of operator misuse, day-to-day use can be a challenge.

Fortunately, there's a new battery system on the block: Li-ion from Mitsubishi Forklift Trucks.

Designed to meet your business' demands — including multi-shift (24/7) operations — without the need for spare batteries, our high-performance Li-ion battery system is up to 30% more efficient than lead-acid counterparts. Plus, it's virtually error-proof, thanks to its ultra-low-maintenance design which prevents cell damage.

Gas-emission free No need for air ventilation. Exceptional high battery and charger efficiency

State-of-the-art technology delivers up to 30% more power efficiency than lead-acid batteries.

Maintenance-free design

No need for daily checks and water re-fills. This reduces the risk of operators damaging cells and reducing their lifetime. Needs a full charge each week to activate cell balancing.

 No need for spare batteries or charging room

You can save both space and costs in multi-shift applications, maximising profitability.

Quick charge capabilities

Just 15 minutes is all your battery needs to keep your truck going for a few more hours. It only takes 1 to 2 hours to fully charge a completely discharged battery.

Higher sustained voltage

This gives more consistent lifting and driving performance — particularly noticeable towards the end of a shift.

Multiple safety features

This includes circuit protection, deepdischarge and overcharge protection, and individual cell temperature and voltage monitoring.

On-the-go performance and monitoring

The system's integrated monitoring system has an easy-to-read display unit.

Wide choice of battery and charger

The most suitable power supply can be matched to the exact requirements of a specific application.





Li-ion battery option is available in selected regions. Continuing improvement may lead to changes in these specifications

Fully integrated Li-ion battery

Features a sophisticated CANbus communication and an automatic ON/OFF synchronization between battery and truck. Battery level, notifications and alarms are integrated into the truck display, to secure clear and easy overview for the truck operator.



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VDI - PERFORMANCE & DIMENSIONS

| | CHARACTERISTICS | | | | | |
|--------|---|-------|---------|----------------------------|----------------------------|----------------------------|
| 1.1 | Manufacturer | | | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks |
| 1.2 | Manufacturer's model designation | | | PBP16N3 | PBP18N3 | PBP20N3 |
| 1.3 | Power source | | | Battery | Battery | Battery |
| 1.4 | Operator type | | | Pedestrian | Pedestrian | Pedestrian |
| 1.5 | Load capacity | Q | kg | 1600 | 1800 | 2000 |
| 1.6 | Load center distance | С | mm | 600 | 600 | 600 |
| 1.8 | Load wheel axle to fork face (forks lowered) | х | mm | 960 | 960 | 960 |
| 1.9 | Wheelbase | у | mm | 1360 1) | 1425 | 1425 2) |
| | WEIGHT | | | | | |
| 2.1b | Truck weight without load, with maximum battery weight | | kg | 430 | 500 | 500 |
| 2.2 | Axle loadings with nominal load & maximum battery weight, drive / load side | | kg | 745 / 1290 | 805 / 1495 | 840 / 1660 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive / load side | | kg | 340 / 90 | 380 / 120 | 380 / 120 |
| | WHEELS, DRIVE TRAIN | | | | | |
| 3.1 | Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side | | | Vul / Vul | Vul / Vul | Vul / Vul |
| 3.2 | Tyre dimensions, drive side | | mm | 230 x 70 | 230 x 70 | 230 x 70 |
| 3.3 | Tyre dimensions, load side | | mm | 85 x 90 | 85 x 75 | 85 x 75 |
| 3.4 | Castor wheel dimensions (diameter x width) | | mm | 100 x 40 | 100 x 40 | 100 x 40 |
| 3.5 | Number of wheels, load / drive side (x = driven) | | | 2 / 1x + 2 | 4 / 1x + 2 | 4 / 1x + 2 |
| 3.6 | Track width (center of tyres), drive side | b10 | mm | 480 | 480 | 480 |
| 3.7 | Track width (center of tyres), load side | b11 | mm | 375 | 375 | 375 |
| | DIMENSIONS | | | | | |
| 4.4 | Lift height | h3 | mm | 135 | 135 | 135 |
| 4.8 | Seat- or stand height | h7 | mm | | | |
| 4.9 | Height of tiller arm / steering console (min./max.) | h14 | mm | 865 / 1420 | 865 / 1420 | 865 / 1420 |
| 4.15 | Fork height, fully lowered | h13 | mm | 85 | 85 | 85 |
| 4.19 | Overall length | I1 | mm | 1650 3) | 1710 | 1710 ²⁾ |
| 4.20 | Length to fork face | 12 | mm | 500 ³⁾ | 560 | 560 ²⁾ |
| 4.21 | Overall width | b1/b2 | mm | 720 | 720 | 720 |
| 4.22 | Fork dimensions (thickness, width, length) | s/e/l | mm | 55 / 165 / 1150 | 55 / 165 / 1150 | 55 / 165 / 1150 |
| 4.25 | Outside width over forks (minimum / maximum) | b5 | mm | 540 | 540 | 540 |
| 4.32 | Ground clearance at center of wheelbase, (forks lowered) | m2 | mm | 30 | 30 | 30 |
| 4.33c | Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up / down | Ast | mm | 2311 5) | 2352 | 2352 ²⁾ |
| 4.34c | Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up / down | Ast | mm | 2176 5) | 2217 | 2217 2) |
| 4.35 | Turning radius | Wa | mm | 1510 ⁵⁾ | 1551 | 1551 ²⁾ |
| | PERFORMANCE | | | | | |
| 5.1 | Travel speed, with / without load | | km/h | 6.0 / 6.0 | 6.0 / 6.0 | 6.0 / 6.0 |
| 5.2 | Lifting speed, with / without load | | m/s | 0.035 / 0.045 | 0.030 / 0.035 | 0.040 / 0.050 |
| 5.3 | Lowering speed, with / without load | | m/s | 0.050 / 0.050 | 0.060 / 0.042 | 0.050 / 0.060 |
| 5.7 | Gradeability, with / without load | | % | 10.0 / 20.0 | 10.0 / 20.0 | 10.0 / 20.0 |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | | Electric | Electric | Electric |
| | ELECTRIC MOTORS | | | | | |
| 6.1 | Drive motor capacity (60 min. short duty) | | kW | 1.0 | 1.0 | 1.0 |
| 6.2 | Lift motor output at 15% duty factor | | kW | 0.8 | 0.8 | 1.2 |
| 6.4 | Battery voltage/capacity at 5-hour discharge | | V/Ah | 24 / 150-250 ⁶⁾ | 24 / 250 | 24 / 250-375 6) |
| 6.5 | Battery weight | | kg | 151-212 | 212 | 212-288 |
| 6.6a | Energy consumption according to EN16796 | | kWh / h | 0.23 7) | 0.26 | 0.26 |
| | MISCELLANEOUS | | | | | |
| 8.1 | Type of drive control | | | Stepless | 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 LpA | λZ | dB(A) | 64.5 | 64.5 | 64.5 |
| 10.7.2 | Whole-body vibration (EN 13 059:2002) | | | | | |
| 10.7.3 | Hand-arm vibration (EN 13 059:2002) | | | < 2.5 | < 2.5 | < 2.5 |
| | | | | | | |

1) With the 250 Ah battery this dimension increase by 65 mm

2) With the 375 Ah battery this dimension increase by 72 mm

3) With the 250 Ah battery this dimension increase by 60 mm

5) With the 250 Ah battery this dimension increase by 41 mm

6) With the larger batteries several dimensions increase (see notes #1-5)

7) Measured with the 250 Ah battery

Ast = Working aisle width Wa = Turning radius

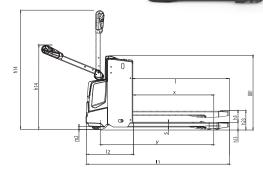
a = Safety clearance (200 mm) l6 = Pallet length

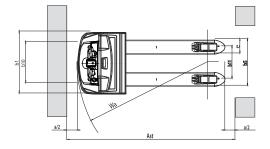


PEDESTRIAN POWER PALLET TRUCK

PBP16/18/20N3

1.6 – 2.0 tonnes





VDI - PERFORMANCE & DIMENSIONS

| | CHARACTERISTICS | | | | |
|--------|---|-------|---------|----------------------------|----------------------------|
| 1.1 | Manufacturer | | | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks |
| 1.2 | Manufacturer's model designation | | | PBP20N3R | PBP20N3E |
| 1.3 | Power source | | | Battery | Battery |
| 1.4 | Operator type | | | Pedestrian | Pedestrian |
| 1.5 | Load capacity | Q | kg | 2000 | 2000 / 700 |
| 1.6 | Load center distance | С | mm | 600 | 600 |
| 1.8 | Load wheel axle to fork face (forks lowered) | х | m m | 960 | 890 |
| 1.9 | Wheelbase | У | mm | 1420 2) | 1425 |
| | WEIGHT | | | | |
| 2.1b | Truck weight without load, with maximum battery weight | | kg | 640 | 585 |
| 2.2 | Axle loadings with nominal load & maximum battery weight, drive / load side | | kg | 950 / 1710 | 815 / 1785 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive / load side | | kg | 505 / 135 | 435 / 150 |
| | WHEELS, DRIVE TRAIN | | | | |
| 3.1 | Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side | | | Vul / Vul | Vul / Vul |
| 3.2 | Tyre dimensions, drive side | | mm | 230 x 70 | 230 x 70 |
| 3.3 | Tyre dimensions, load side | | mm | 85 x 75 | 85 x 75 |
| 3.4 | Castor wheel dimensions (diameter x width) | | mm | 125 x 55 | 100 x 40 |
| 3.5 | Number of wheels, load / drive side (x = driven) | | | 4 / 1x + 2 | 4 / 1x + 2 |
| 3.6 | Track width (center of tyres), drive side | b10 | mm | 480 | 480 |
| 3.7 | Track width (center of tyres), load side | b11 | mm | 375 | 375 |
| | DIMENSIONS | | | | |
| 4.4 | Lift height | h3 | mm | 135 | 135 / 645 |
| 4.8 | Seat- or stand height | h7 | mm | 170 | |
| 4.9 | Height of tiller arm / steering console (min./max.) | h14 | mm | 1155 / 1550 | 865 / 1420 |
| 4.15 | Fork height, fully lowered | h13 | mm | 85 | 90 |
| 4.19 | Overall length | 11 | mm | 1850 / 2345 ²⁾ | 1780 |
| 4.20 | Length to fork face | 12 | mm | 700 / 1195 2) | 630 |
| 4.21 | Overall width | b1/b2 | mm | 720 | 720 |
| 4.22 | Fork dimensions (thickness, width, length) | s/e/l | mm | 55 / 165 / 1150 | 59 / 184 / 1150 |
| 4.25 | Outside width over forks (minimum / maximum) | b5 | mm | 540 | 570 |
| 4.32 | Ground clearance at center of wheelbase, (forks lowered) | m2 | mm | 30 | 30 |
| 4.33c | Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up / down | Ast | mm | 2481 / 2961 ²⁾ | 2370 |
| 4.34c | Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up / down | Ast | mm | 2346 / 2826 2) | 2266 |
| 4.35 | Turning radius | Wa | mm | 1680 / 2160 ²⁾ | 1560 |
| | PERFORMANCE | | | | |
| 5.1 | Travel speed, with / without load | | km/h | 6.0 / 6.0 | 6.0 / 6.0 |
| 5.2 | Lifting speed, with / without load | | m/s | 0.040 / 0.040 | 0.110 / 0.140 |
| 5.3 | Lowering speed, with / without load | | m/s | 0.050 / 0.060 | 0.130 / 0.120 |
| 5.7 | Gradeability, with / without load | | % | 9.0 / 20.0 | 9.0 / 20.0 |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | | Electric | Electric |
| | ELECTRIC MOTORS | | | | |
| 6.1 | Drive motor capacity (60 min. short duty) | | kW | 1.0 | 1.0 |
| 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 / 250-375 6) | 24 / 150 |
| 5.5 | Battery weight | | kg | 212-288 | 151 |
| 6.6a | Energy consumption according to EN16796 | | kWh / h | 0.26 | 0.26 |
| J.04 | MISCELLANEOUS | | | 0.20 | 0.20 |
| 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 LpA | Z | dB(A) | 60.2 | 64.5 |
| 10.7.2 | Whole-body vibration (EN 13 059:2002) | _ | UD(A) | 1.1 | 04.5 |
| 10.7.2 | Hand-arm vibration (EN 13 059:2002) | | | < 2.5 | < 2.5 |
| 0.7.3 | | | | < 2.J | < 2.J |

1) With the 250 Ah battery this dimension increase by 65 mm

2) With the 375 Ah battery this dimension increase by 72 mm

3) With the 250 Ah battery this dimension increase by 60 mm

5) With the 250 Ah battery this dimension increase by 41 mm

6) With the larger batteries several dimensions increase (see notes #1-5)

7) Measured with the 250 Ah battery

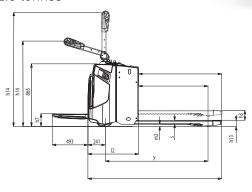
PREMÍA ES

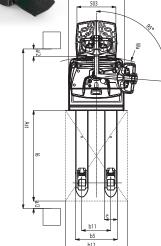
PEDESTRIAN POWER PALLET TRUCK

PBP20N3R

WITH FOLDING PLATFORM

2.0 tonnes



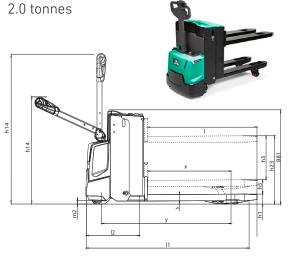


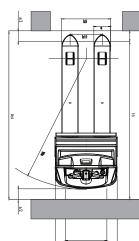
PBP20N3E

Ast = Wa-x+l6+a Ast = Working aisle width Wa = Turning radius

a = Safety clearance (200 mm) l6 = Pallet length

WITH RISING FORKS





STANDARD EQUIPMENT & OPTIONS

| Standard | | | | | |
|--|---------|---------|---------|----------|----------|
| = Option | PBP16N3 | PBP18N3 | PBP20N3 | PBP20N3R | PBP20N3E |
| GENERAL | | | | | |
| Multifunctional display, including hour meter and BDI | • | • | • | • | • |
| Key switch entry | • | • | • | • | • |
| PIN code device log in, 5 codes | • | | • | | |
| Centered long pipe tiller arm (short pipe arm in R model) | • | • | • | • | • |
| Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head | • | • | • | • | • |
| Ergo initial lift, to 735 mm for picking applications etc. | - | - | - | - | • |
| Sideways battery change on rollers, with 250 Ah and 375 Ah battery only (lead-acid) | - | • | • | • | _ |
| Battery changing trolley, for 2 batteries (lead-acid) | - | • | • | • | - |
| Li-ion batteries | • | | • | | |
| ENVIRONMENT | | | | | |
| Continuous use, +5°C to +25°C | • | • | • | • | • |
| Cold store design, 0°C to -35°C | • | • | • | • | |
| Hot operating condition modification, up to +45°C | • | • | • | - | |
| DRIVE AND LIFT CONTROLS | | | | | |
| Tiller up drive | • | • | • | • | • |
| Increased ground clearance +70 mm, incl. rubber strip foot protection | • | | • | - | |
| WHEEL OPTIONS | | | | | |
| Vulkollan® drive wheel | • | • | • | • | • |
| Power friction drive wheel | • | | • | • | |
| Single load wheels Vulkollan® | • | | | | |
| Tandem load wheels Vulkollan® | • | • | • | • | • |
| OTHER OPTIONS | | | | | |
| Load backrest, height 1300 mm (600 mm in E model) | • | • | • | • | |
| Closed pallet entry and exit rollers | | | • | | |
| Special RAL colour | • | • | • | • | |
| Built-in charger 30 A, for lead-acid batteries | | | | | |
| Accessory rack | | | | | |
| List bracket/writing desk, A4 size | • | • | • | • | • |
| Computer rack, 10-16" size | • | • | • | • | |
| Working lights (LED) | • | • | • | • | • |

PREMIA ES

PBP16 - 20N3(R)(E) Series

POWER PALLET TRUCK

1.6 – 2.0 tonnes



PIN code log in



Load backrest

WHEN RELIABILITY IS EVERYTHING...



Number one for reliability... number one for productivity... whatever the conditions.

Compact, efficient and resilient, PREMIA powered pallet trucks meet every need.

Like any product bearing the Mitsubishi Forklift Trucks 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 distributor, 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

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 distributor or when you visit our website www.mitforklift.com

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options.

Specific performance requirements and locally available configurations should be discussed with your distributor.

We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

QUALITY | RELIABILITY | VALUE FOR MONEY

info@mitforklift.com

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THE NUMBER ONE











