

PREMiA **ES**

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



**WHEN
RELIABILITY IS
EVERYTHING...**

PBP16 - 20N3(R)(E) Series

POWER PALLET TRUCK

1.6 – 2.0 tonnes

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 entry.
- 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 non-condensing (+1°C condensing) and with an optional cold store modification down to -35°C operating.



For more information on PREMiA ES please visit our website



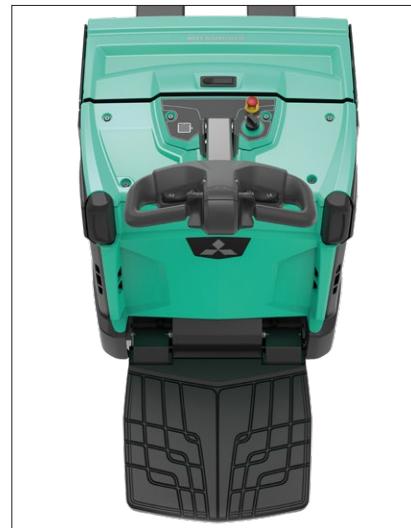
PREMiA **ES**

PBP16 - 20N3(R)(E) Series POWER PALLET TRUCK

1.6 – 2.0 tonnes

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 drive**
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 minimise mistakes.

Emergency stop

Easy and fast stop to power in an emergency.

STEERING SYSTEM

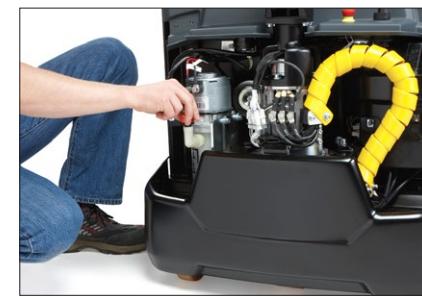
- Ergonomic ErgoSteer tiller head**
Best-in-class, weather-protected and impact-resistant tiller head with large, easy-to-reach buttons placed at a patented ergonomic distance for reduced fatigue and safer operation. IP65 rated.

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)



For more information on PREMiA ES please visit our website



mft2.eu/premiae



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.



Li-ion battery option is available in selected regions.

Continuing improvement may lead to changes in these specifications

- 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, deep-discharge 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 capacities**

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



Clean Li-ion batteries are ideal for sensitive environments such as those in the food or packaging industries.

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.

For more information on Li-ion please visit our website



mft2.eu/lion

VDI - PERFORMANCE & DIMENSIONS

CHARACTERISTICS			
1.1	Manufacturer	Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
1.2	Manufacturer's model designation	PBP16N3	PBP18N3
1.3	Power source	Battery	Battery
1.4	Operator type	Pedestrian	Pedestrian
1.5	Load capacity	Q kg	1600 1800 2000
1.6	Load center distance	c mm	600 600 600
1.8	Load wheel axle to fork face (forks lowered)	x mm	960 960 960
1.9	Wheelbase	y 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
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	l1 mm	1650 ³⁾ 1710 1710 ²⁾
4.20	Length to fork face	l2 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 LpAZ	dB(A)	64.5 64.5 64.5
10.7.2	Whole-body vibration (EN 13 059:2002)		< 2.5
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 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

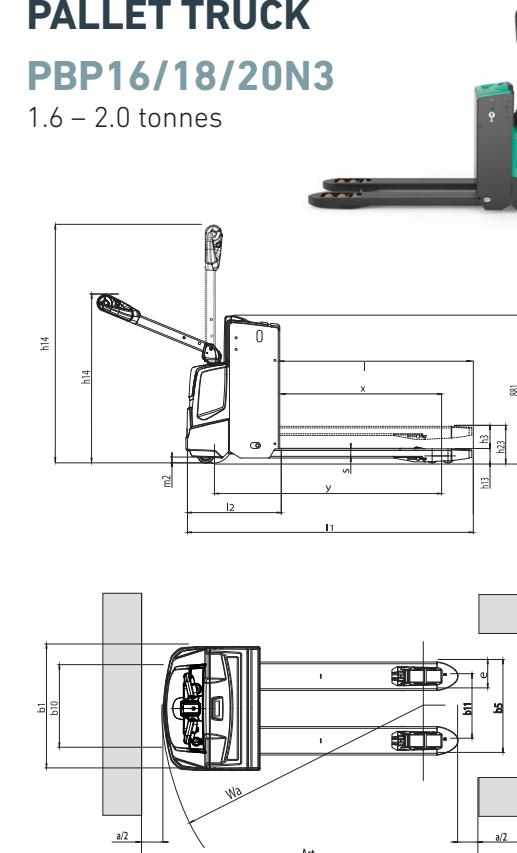
6) With the larger batteries several dimensions increase (see notes #1-5)

7) Measured with the 250 Ah battery

PREMIA ES

PEDESTRIAN POWER PALLET TRUCK

PBP16/18/20N3
1.6 – 2.0 tonnes

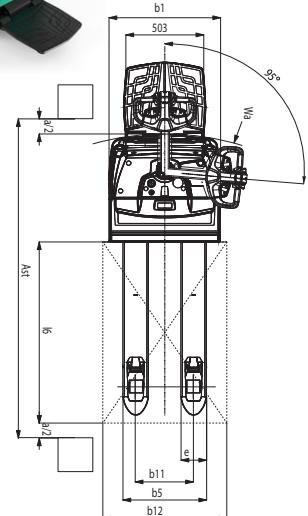


VDI - PERFORMANCE & DIMENSIONS

CHARACTERISTICS			Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
1.1	Manufacturer		PBP20N3R	PBP20N3E
1.2	Manufacturer's model designation		Battery	Battery
1.3	Power source		Pedestrian	Pedestrian
1.4	Operator type			
1.5	Load capacity	Q	2000	2000 / 700
1.6	Load center distance	c	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	960	890
1.9	Wheelbase	y	1420 ²⁾	1425
WEIGHT				
2.1b	Truck weight without load, with maximum battery weight		kg	640
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	950 / 1710
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	505 / 135
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
3.3	Tyre dimensions, load side		mm	85 x 75
3.4	Castor wheel dimensions (diameter x width)		mm	125 x 55
3.5	Number of wheels, load / drive side (x = driven)			4 / 1x + 2
3.6	Track width (center of tyres), drive side	b10	mm	480
3.7	Track width (center of tyres), load side	b11	mm	375
DIMENSIONS				
4.4	Lift height	h3	mm	135
4.8	Seat- or stand height	h7	mm	170
4.9	Height of tiller arm / steering console (min./max.)	h14	mm	1155 / 1550
4.15	Fork height, fully lowered	h13	mm	85
4.19	Overall length	l1	mm	1850 / 2345 ²⁾
4.20	Length to fork face	l2	mm	700 / 1195 ²⁾
4.21	Overall width	b1/b2	mm	720
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	55 / 165 / 1150
4.25	Outside width over forks (minimum / maximum)	b5	mm	540
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	30
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up / down	Ast	mm	2481 / 2961 ²⁾
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up / down	Ast	mm	2346 / 2826 ²⁾
4.35	Turning radius	Wa	mm	1680 / 2160 ²⁾
PERFORMANCE				
5.1	Travel speed, with / without load		km/h	6.0 / 6.0
5.2	Lifting speed, with / without load		m/s	0.040 / 0.040
5.3	Lowering speed, with / without load		m/s	0.050 / 0.060
5.7	Gradeability, with / without load		%	9.0 / 20.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric
ELECTRIC MOTORS				
6.1	Drive motor capacity (60 min. short duty)		kW	1.0
6.2	Lift motor output at 15% duty factor		kW	1.2
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 250-375 ⁶⁾
6.5	Battery weight		kg	212-288
6.6a	Energy consumption according to EN16796		kWh / h	0.26
MISCELLANEOUS				
8.1	Type of drive control			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)		60.2
10.7.2	Whole-body vibration (EN 13 059:2002)			1.1
10.7.3	Hand-arm vibration (EN 13 059:2002)			< 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				
4) With the 250 Ah battery this dimension increase by 41 mm				
5) With the larger batteries several dimensions increase (see notes #1-5)				
6) With the larger batteries several dimensions increase (see notes #1-5)				
7) Measured with the 250 Ah battery				

PREMIA ES

PEDESTRIAN POWER PALLET TRUCK PBP20N3R

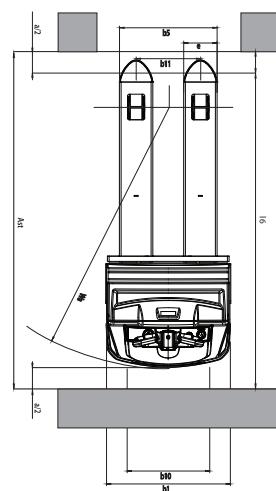


2.0 tonnes

PBP20N3E

WITH RISING FORKS

2.0 tonnes



STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

GENERAL

Multifunctional display, including hour meter and BDI

	PBP16N3	PBP18N3	PBP20N3	PBP20N3R	PBP20N3E
--	---------	---------	---------	----------	----------

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...



PREMIA
THE NUMBER ONE

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

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

Mitsubishi Logisnext Europe B.V.
Hefbrugweg 77, 1332 AM Almere
The Netherlands
Tel: +31 (0)36 5494 411



mft2.eu/fb



mft2.eu/apps



mft2.eu/youtube

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 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 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

WESM2542 (02/25) © 2025 MLE



 **MITSUBISHI**
FORKLIFT TRUCKS