

PREMiA EM

PLATFORM DOUBLE PALLET TRUCK

2.0 tonnes

ENGINEERED FOR ACTION...
READY FOR EVERY CHALLENGE

PREMiA EM double pallet truck is built for the most demanding conditions, and will keep going no matter what.

SPECIFICATIONS

PBV20PD



WHEN
RELIABILITY IS
EVERYTHING...

PREMiA EM

PBV20PD Series

PLATFORM DOUBLE PALLET TRUCK

2.0 tonnes



PREMiA EM PBV20PD is ideal for pallet transfer work in logistics terminals and industrial warehouses, as well as for loading and unloading vehicles.

The PBV20PD double pallet handler's powerful performance, coupled with an anti-rollback system, means it's perfect for double-stacking on ramps.

FRAME AND BODY

- **Five-point chassis**
A hydraulic friction force system increase the traction and reduce vibrations and risk of operator fatigue.

DRIVE

- **Powerful, sealed AC motor**
Vulkollan drive wheel ensures long component life.
- **Sealed transmission**
Shock-resistant, quiet and requires little maintenance.
- **Dust-shielded load wheels**
Less maintenance and component replacement required.

FORKS

- **Robust forks**
Strong welded construction with rounded tips for effortless pallet entry.
- **Tapered forks**
Access to pallets in racks or block stacks is easier, quicker and safer.

BRAKES

- **Parking brake**
Automatically activated when necessary for extra safety on ramps.



ELECTRICAL AND CONTROL SYSTEMS

- **New-generation, multi-function controller**
Smooth, quiet control of both drive and lift, with fewer components to maintain.
- **Full programmability**
Adjust acceleration, travel speed, and braking to suit the application and operator.
- **On-board diagnostics and fault memory folder**
Speed up servicing and help prevent damage.
- **Li-ion battery (option)**
Fast charging - removing the need for extra batteries.
- **Electronic power steering (option)**
Smooth, precise control with minimal effort and maximum comfort.
- **Battery discharge indicator**
Fitted as standard for battery protection and preventing deep discharge.

OPERATOR ENVIRONMENT AND CONTROLS

- **PIN-code access**
Stops unauthorised truck use and keeps you aware of who's operating at all times.
- **Easy-to-operate tiller arm**
Its large buttons mean operators can focus on the task in hand and minimise mistakes.
- **Left-handed or right-handed controls**
The tiller arm's versatile design allows for operation from either side.

- **Ultra-low step height**
Operators stay more productive throughout shifts thanks to easy on/off access.
- **Dampened platform**
Operators are protected from knocks and bumps, allowing them to stay in a more natural driving position for greater comfort throughout shifts.
- **Foldable side bars (option)**
These encourage efficient, safe operations by eliminating the need for operators to step off the platform.
- **Ergonomic levers**
Raise and lower loads with ease, even when wearing gloves.
- **Creep speed function and tiller arm lock bypass (option)**
Both help to maximise safety and control in confined spaces.
- **Multifunctional display**
Operators and service engineers are alerted to potential problems, helping to avoid damage and encourage maintenance.

OTHER FEATURES

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

There is more information on **PREMiA EM** on mitforklift.com

For more extensive information please visit our website mitforklift.com



mft2.eu/premiaem



PREMIA EM

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 top 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, it 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.

- **Gas-emission free and space efficient operation**
with no need for air ventilation and/or closed charging room.
- **Exceptional high battery & charger efficiency**
due to state-of-the-art technology, delivers up to 30% more power efficiency than lead-acid batteries.

- **Maintenance free design**
Eliminates the need for daily checks and water re-fills by operator, and reduces the risk of operators damaging cells.
- **No spare batteries and charging room required**
saves space and costs in multi-shift application to maximise profitability.
- **Quick charge capabilities**
mean that just 15 minutes is all your battery needs to keep your truck going a few more hours. (It only takes from 1 hour to fully charge a completely discharged battery.)
- **Higher sustained voltage**
ensures more consistent lifting and driving performance, which is particularly noticeable towards the end of a shift.
- **Active protection componentry**
this continuously monitors the system, highlighting potential issues, including misuse.
- **High safety features include**
Short circuit protection, deep-discharge and overcharge protection, individual cell temperature and voltage monitoring.
- **Wide choice of battery and charger capacities**
The most suitable power supply can be matched to the exact requirements of a specific application.

There is more information on Li-ion on mitforklift.com

For more extensive information please visit our website mitforklift.com



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VDI - PERFORMANCE & DIMENSIONS

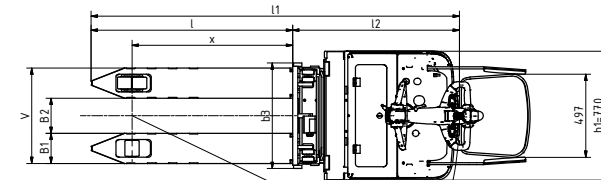
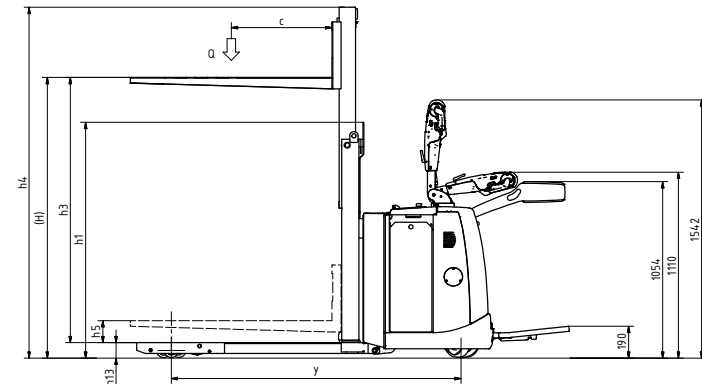
CHARACTERISTICS				
1.1	Manufacturer			Mitsubishi Forklift Trucks
1.2	Manufacturer's model designation			PBV20PD
1.3	Power source			Battery
1.4	Operator type			Pedestrian / stand-on
1.5	Load capacity	Q	kg	2000 / 1000 + 1000
1.6	Load center distance	c	mm	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	982 / 832
1.9	Wheelbase	y	mm	1754 / 1604
WEIGHT				
2.1	Truck weight without load, with maximum battery weight		kg	1270
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1230 / 2040
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	940 / 330
WHEELS, DRIVE TRAIN				
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul
3.2	Tyre dimensions, drive side		mm	230 x 90
3.3	Tyre dimensions, load side		mm	85 x 70
3.4	Castor wheel dimensions (diameter x width)		mm	150 x 60
3.5	Number of wheels, load / drive side (x = driven)			1x+2/4(2)
3.6	Track width (center of tyres), drive side	b10	mm	526
3.7	Track width (center of tyres), load side	b11	mm	390
DIMENSIONS				
4.2a	Height with mast lowered	h1	mm	1410 / 1560
4.4	Lift height	h3	mm	1585 / 2000
4.5	Height with mast extended	h4	mm	2095 / 2395
4.6	Initial lift	h5	mm	120
4.7	Height to top of overhead guard	h6	mm	2287
4.8	Seat- or stand height	h7	mm	165
4.9	Height of tiller arm / steering console (min./max.)	h14	mm	1135 / 1475
4.10	Height of support legs	h8	mm	87
4.15	Fork height, fully lowered	h13	mm	90
4.19	Overall length	l1	mm	2185 / 2571
4.20	Length to fork face	l2	mm	1035
4.21	Overall width	b1/b2	mm	770
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	65 / 180 / 1150,1000
4.24	Fork carriage width	b3	mm	590
4.25	Outside width over forks (minimum / maximum)	b5	mm	570
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	17
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2685 / 3072
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2668 / 3055
4.34d	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	mm	2430 / 2817
4.35	Turning radius	Wa	mm	1030 + x / 1417 + x
PERFORMANCE				
5.1	Travel speed, with / without load		km/h	10 / 10 (12.5)
5.2	Lifting speed, with / without load		m/s	0.20 / 0.32
5.3	Lowering speed, with / without load		m/s	0.39 / 0.24
5.7	Gradeability, with / without load		%	6.5 / 17.2
5.8	Maximum gradeability with / without load		%	14.5 / 27.7
5.9	Acceleration time (10 metres) with / without load		s	6.1 / 4.9
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric
ELECTRIC MOTORS				
6.1	Drive motor capacity (60 min. short duty)		kW	2.2
6.2	Lift motor output at 15% duty factor		kW	3.2
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 220 - 400
6.5	Battery weight		kg	250 - 370
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)	60.1

PREMIA EM

PBV20PD

PLATFORM DOUBLE PALLET TRUCK

2.0 tonnes



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

MAST TYPE	h3 + h13 mm	h1* mm	h2 + h13 mm
PBP20PD			
DUPLIX	1675	1410	NA
	2090	1560	NA

h3+h13 = Lifting height
h1 = Lowered mast height
h2+h13 = Free lift

* h1 closed mast height includes polycarbonate finger protection. Mast height excl. Finger protection is 1343mm / 1493mm.

STANDARD EQUIPMENT & OPTIONS

- = Standard
- = Option

	PBV20PD
GENERAL	
Micro-computer incl. hour meter and battery indicator with cut out (ATC T4)	●
Multifunctional display incl. BDI & hour meter	-
PIN code log in 100 codes	●
PIN code log in 4 codes	-
Foldable platform	●
Fixed platform, rear entry	-
Foldable sidebars	●
Short tiller arm with display and keypad	●
Multifunctional Steering wheel	-
Chill store design, down to 1°C, with rust protected axles	●
Speed regulated lift motor	●
Proportional valve for lowering, controlled by rocker switch on tiller head	●
Proportional valve for lift&lowering,controlled by fingertip levers on tiller head	-
Proportional valve for lift&lowering,controlled by fingertip levers on steering wheel	-
Polyurethane wheels	●
Initial lift	●
Tandem load wheels polyurethane	●
Single load wheel	●
Battery rollers	●
Li-ion batteries	●
ENVIRONMENT	
Cold store design, 0C° to -35C°	●
DRIVE AND LIFT CONTROLS	
Heavy duty tiller Head - with key switch entry	●
Tiller arm - Adjustable in length	●
Tiller up drive	●
WHEEL OPTIONS	
Polyurethane traction and load wheels	●
Power friction traction wheel	●
Non marking drive wheel	●
Anti static drive wheel	●
Pallet entry / exit rollers	●
OTHER OPTIONS	
Driver protected platform rear entry	●
Driver protected platform side entry	●
Power steering	●
Warm environment fan	●
Overhead guard	●
Load backrest low or high	●
Load backrest, h=1300mm	-
Key switch entry	●
12V DC Power Socket	●
Equipment bar	●
Writing desk incl. RAM C holder	●
Equipment bar holder RAM system size C	●
Equipment bar holder RAM system size C, 2 pcs	●
Equipment bar holder RAM size D	●
Working light	-
Increased drive speed with/without load 10/12,5 km/h	●
Prepared for frequent battery change over, BCO	●
Special RAL colour	●

* Li-ion battery option is available in selected regions.

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Overhead guard option

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.

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.

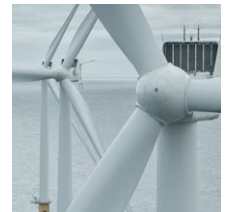
No matter where you are, we are close by – with the capability to meet your needs.

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

info@mitforklift.com

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



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