

# PBP13-20M(R) Series

Pedestrian Power Pallet • AC Power • 1.3 – 2.0 tonnes

PBP13M  
PBP16M  
PBP20M  
PBP20MR

## Power, flexibility and control at your fingertips

This series starts with the PBP13M, which is ideal for anyone upgrading from a hand pallet truck. It is light enough to use on mezzanine floors, while its high stability allows it to operate on uneven surfaces in stores, warehouses and loading docks. The standard specification includes two maintenance-free gel/AGM batteries and an inbuilt charger. For heavier duties, the series offers three larger models. These versatile trucks will make light work of transporting loads over shuttle distances up to 20 metres, as well as loading and unloading lorries.

The PBP16M is a compact machine, ideal for use in confined situations such as small retail operations and stores. Like the PBP13M, it is small enough to be transported on a lorry for use at a load's destination. Its extra power accommodates heavier loads and longer shifts. The PBP20M has been developed for more intensive use and has a greater lift capacity. It can be deployed in larger retail operations but its dimensions are still suitable for use in small stores. The foldable platform of the PBP20MR enables the operator to ride on the truck for occasional longer travel distances. In all four models the state-of-the-art, simple-to-use tiller arm design protects hands and places everything within easy reach for safe, comfortable, controlled operation.

### Frame and body

- **High stability** is ensured by use of two castor wheels – next to the drive wheel – in addition to the two load wheels.
- **Low centre of gravity** adds further stability, for safe operation.
- **Robust construction** offers exceptional durability in all working conditions.
- **High-visibility design** maximises view of fork tips and working area.

### Forks

- **Robust fork construction** especially on 2.0 tonne models, with welded construction and upturned tips for easy pallet entry, gives extra strength and durability.
- **Tapered fork tips** ensure smooth pallet entry and exit and make it easier to enter the pallet at an angle.



# PBP13-20M(R) Series

## Pedestrian Power Pallet

### AC Power • 1.3 – 2.0 tonnes

Characteristics						
1.1	Manufacturer (abbreviation)		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		PBP13M	PBP16M	PBP20M	PBP20MR
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Pedestrian	Pedestrian	Pedestrian	Pedestrian/Stand-on
1.5	Load capacity	Q (kg)	1300	1600	2000	2000
1.6	Load centre distance	c (mm)	600	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	959	959	963	963
1.9	Wheelbase	y (mm)	1173	1294	1370	1370
Weight						
2.1	Truck weight with nominal load & maximum battery weight	kg	1500	1950	2475	2505
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side	kg	943/557	1245/705	1600/875	1600/905
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg	160/40	250/100	360/115	390/115
Wheels, Drive Train						
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		PT/PT	Vul/Vul	Vul/Vul	Vul/Vul
3.2	Tyre dimensions, drive side	(mm)	230x70	230x70	230x70	230x70
3.3	Tyre dimensions, load side	(mm)	85x90	85x90	85x75	85x75
3.4	Castor wheel dimensions (diameter x width)	(mm)	100x40	100x40	100x40	100x40
3.5	Number of wheels, drive/load side (x=driven)		2+1x/2	2+1x/2	2+1x/4	2+1x/4
3.6	Track width (centre of tyres), drive side	b10 (mm)	490	490	505	505
3.7	Track width (centre of tyres), load side	b11 (mm)	370	390	370	370
Dimensions						
4.4	Lift height (see tables)	h3 (mm)	115	115	115	115
4.8	Seat height	h7 (mm)	-	-	-	145
4.9	Height of tiller arm / steering console (min./max.)	h14 (mm)	861/1305	861/1305	920/1355	889/1207
4.15	Fork height, fully lowered	h13 (mm)	85	85	85	85
4.19	Overall length	l1 (mm)	1506	1627	1750	1855/2305
4.20	Length to fork face (includes fork thickness)	l2 (mm)	356	477	600	705/1155
4.21	Overall width	b1/b2 (mm)	700	700	700	706
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50/150/1150	50/150/1150	50/165/1150	50/165/1150
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	520	540	540	540
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	35	35	35	35
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)	1997	2110	2204	2314/2764
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)	1591	1704	1801	1906/2356
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2105	2218	2317	2422/2872
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)	1791	1904	2001	2108/2556
4.35	Turning circle radius	Wa (mm)	1350	1463	1564	1669/2119
4.36	Minimum distance between centres of rotation	b13 (mm)	2017	2130	2229	2334/2784
4.37	Truck length over load legs	l7 (mm)	1350	1463	1564	1669/2119
Performance						
5.1	Travel speed, with/without load	km/h	5.8/6.0	5.8/6.0	5.8/6.0	5.8/6.0
5.2	Lifting speed, with/without load	m/s	0.039/0.052	0.03/0.046	0.03/0.046	0.03/0.046
5.3	Lowering speed, with/without load	m/s	0.070/0.022	0.065/0.022	0.065/0.022	0.065/0.022
5.7	Gradeability, with/without load	%	10.0/20.0	8.0/20.0	10.0/20.0	10.0/20.0
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Magn. brake	Magn. brake	Magn. brake	Magn. brake
Electric motors						
6.1	Drive motor capacity (60 min. short duty)	kW	0.6	0.6	0.8	0.8
6.2	Lift motor output at 15% duty factor	kW	1.0	1.0	1.0	1.0
6.4	Battery voltage/capacity at 5-hour discharge	V /Ah	2x12 / 35,48	24/120,160	24/180,240	24/180,240
6.5	Battery weight	kg	30	122,145	170,200	170,200
Miscellaneous						
8.1	Type of drive control		Stepless	Stepless	Stepless	Stepless

Continuing improvement may lead to changes in these specifications.  
 (1) Options: Higher travel speed – 12 km/h with loads up to 600 kg.



Ergonomic tiller arm

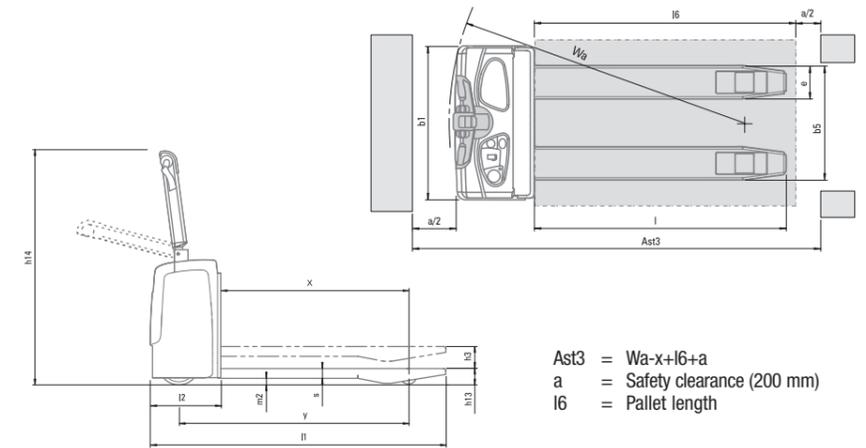


Powerful AC motor

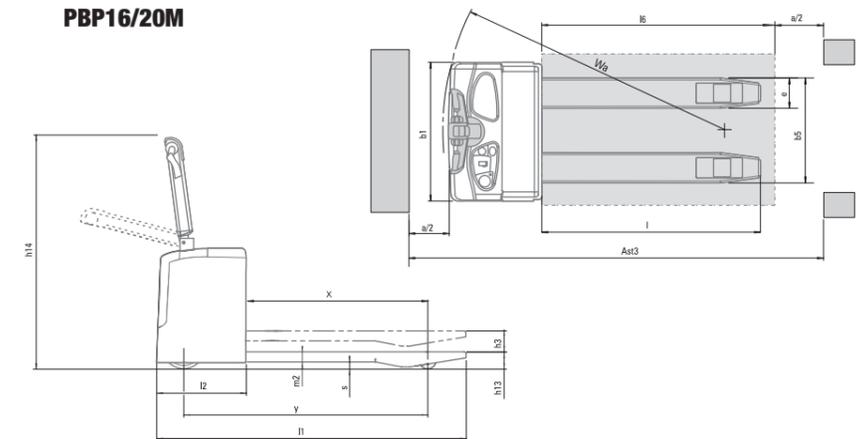


Tapered & upturned fork tips

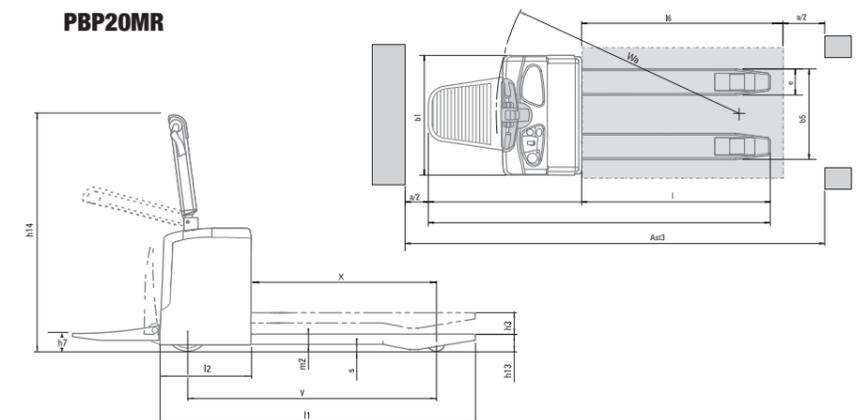
#### PBP13M



#### PBP16/20M



#### PBP20MR





Platform on PBP20MR



Optional inbuilt charger



Clear display

## Drive

- **AC drive motor** means high power for excellent traction and ramp performance, as well as smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.
- **Steering system**
- **State-of-the-art tiller arm** offers the ultimate in ergonomic design, comfort and safety.
- **Small turning circle** together with compact chassis and excellent visibility means exceptional manoeuvrability.

## Brakes

- **Regenerative braking** gives effective control, reduced brake wear and longer shift life.
- **Parking brake** is automatically activated, when necessary, for extra safety on ramps.

## Electrical and control systems

- **Programmable controller** adjusts acceleration, travel speed and braking to suit the application and operator – for great versatility.
- **On-board diagnostics and fault memory folder** speed up servicing and help prevent damage.

## Operator environment and controls

- **Creep speed function and tiller arm lock bypass** are included as standard for maximum safety and control in confined spaces.
- **Crossbar shape** deflects obstacles away from tiller arm and operator's hand, for protection of both truck and operator.
- **Easy-to-operate controls** reduce fatigue and increase safety by helping to prevent the operator from making mistakes.
- **Aluminium tiller arm shaft** is light but very strong and is shorter in the PBP20MR to allow for operation from the platform.
- **Rubber hand grips** are comfortable, slip-free and ergonomically shaped for easy reach of controls.
- **Removable main switch** can be used like a key, to prevent unauthorised use of truck.
- **Clear display** alerts operators and service engineers to potential problems – helping to avoid damage and encourage maintenance.
- **Battery discharge indicator and hour meter** are fitted as standard for battery protection and monitoring of truck use.
- **Ground clearance** is only 35 mm – which makes foot trapping very unlikely.
- **Large platform** on PBP20MR has high-grip rubber matting, to prevent slips, and allows operator to ride – at low speed – during occasional longer travel.

## Other features

- **Rapid access features** give quick and easy entry to all areas for checks and maintenance.

## Options

- **Choice of drive and load wheels for different applications**
- **Inbuilt charger**
- **Battery charger set for installation in a lorry**
- **Pallet entry and exit rollers**
- **Wide variety of fork dimensions**
- **Cold store modification (class III, -35°C)**
- **Moisture resistance modification**
- **Battery changing device**
- **Load backrest**



when  
**reliability**  
is **everything**

Developed for outstanding performance and genuine value for money, the awardwinning\* range of Mitsubishi forklift trucks and warehouse equipment is built to a higher specification to maximize productivity and ensure utter reliability... whatever the application.

It's what you'd expect from one of the world's largest corporations whose companies are at the leading edge of technologies where performance, quality and dependability can never be compromised.

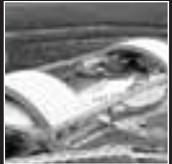
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\* Mitsubishi Forklift Trucks has won **four** separate Fork Lift Truck Association Annual Awards for Excellence covering the areas of **Ergonomics**, the **Environment** and **Innovation**.



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