## MOVE THE WORLD FORW>RD MITSUBISHI HEAVY INDUSTRIES GROUP

ER PALLET TRUCKS

PBP16-20N2(R)(E)/PBP16PD Series

PREMIA

**PREMÍA ES** (1.6 - 2.0 TONS)

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В

WHEN RELIABILITY IS EVERYTHING...



# OVERCOME YOUR OBSTACLES... ACHIEVE OUTSTANDING PERFORMANCE

Whether you are upgrading from a hand pallet truck, doing short shuttle work or looking for a truck prepared to go the distance, there is a **PREMIA** model which will meet your needs.

With **PREMIA ES**, anything is possible – including outdoor operation if that's what you need. It's possible on most models, thanks to high-stability, market-leading lift heights and outstanding ingress protection.

These low-maintenance models feature an easy-to-use tiller arm design, protects otects hands and places everything within easy reach for safe, comfortable, controlled operation.

## FRAME AND BODY

- Sealed chassis offers protection against dirt, dust and other particles to reduce wear (not available on PBP16PD).
- Water-resistant design diverts splashed moisture away from key electrical components, for long truck life (not available on PBP16PD).
- High stability is ensured by use of two linked castor wheels next to the central drive wheel – in addition to the load wheels (not available on PBP16PD).
- · Low centre of gravity adds further stability, for safe operation.

## BRAKES

- Regenerative braking gives effective control, without brake wear, and extends shift life
- Parking brake is automatically activated, when necessary, for extra safety on ramps.

## 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.





### DRIVE

PREMIA

 Powerful AC drive motor is placed above the chassis plate, safeguarding it against the elements (not available on PBP16PD).

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• **Oil-filled, sealed transmission** is shock-resistant, quiet and requires little maintenance (not available on PBP16PD).



#### MAST AND FORKS

- Robust forks with welded construction, and rounded tips for effortless pallet entry, give extra strength and durability.
- Market-leading lift height of 135 mm allows easy handling on steep ramps and loading docks, even with damaged pallets (not available on PBP16PD).



- **Tapered forks** enhance safety, while offering quicker and easier access to pallets in racks or block stacks.
- Rising forks on PBP20N2E place loads at an ergonomic height - maximum 735 mm - for loading & unloading with minimal physical strain.

1-2.0

# WORK WITH GREATER PRODUCTIVITY

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## ELECTRICAL AND CONTROL SYSTEMS

- Programmable controller adjusts acceleration, travel speed and braking to suit the application and operator

   for greater versatility.
- **On-board diagnostics and fault memory folder** speed up servicing and help prevent damage.
- High-efficiency electronic system features waterproof components for maximum reliability – even in moist conditions (not available on PBP16PD).

## **Operator Environment** and Controls

Creep speed function and tiller arm lock bypass maximise safety and control in confined spaces.



Easy-to-operate controls reduce operator fatigue and minimise mistakes to enhance safety.

Unique crossbar design deflects obstacles away from tiller arm and operator's hand, protecting both truck and operator. **Ergonomically shaped rubber hand grips** are comfortable and slip-free, allowing for easy reach of controls (not available on PBP16PD).

PREMIA

Choice of two performance modes via key switch enhances safety, energy efficiency and productivity (not available on PBP16PD).

Spacious, suspended foldable platform on PBP20N2R allows operator to ride in comfort - maximum speed 6 km/h - during occasional longer travel.

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Battery discharge indicator is fitted as standard for battery protection and monitoring of truck use.

**Ground clearance** is only 35 mm – which makes foot trapping very unlikely.

## OTHER FEATURES

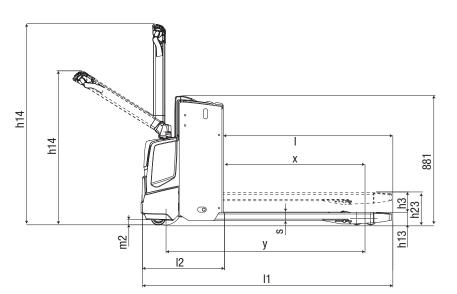
- **RapidAccess features** allow quick and easy entry to all areas for checks and maintenance.
- **PIN-code access** prevents unauthorised use of the truck (PBP16PD only).

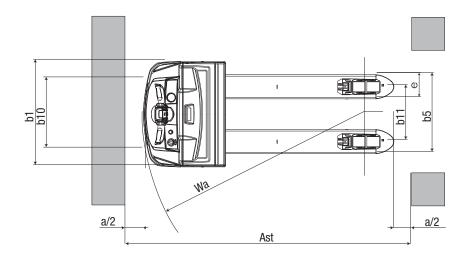
# SPECIFICATIONS

	CHARACTERISTICS			
1	Manufacturer			Mitsubishi Forklift Trucks
2	Manufacturer's model designation			PBP16N2
3	Power source			Battery
4				Pedestrian
	Operator type	0	l i a	
5	Load capacity	Q	kg	1600
6	Load center distance	С	mm	600
7	Load wheel axle to fork face (forks lowered)	х	mm	960
8	Wheelbase	У	mm	1360
	WEIGHT	1		
9	Truck weight without load, with maximum battery weight		kg	431
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	635 / 1396
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	332 / 99
	WHEELS, DRIVE TRAIN			
12	Tyres: $PT = Power Thane$ , $Vul = Vulkollan$ , $P = Polyurethane$ , $N = Nylon$ , $R = Rubber drive / load side$			Vul / Vul
13	Tyre dimensions, drive side		mm	230 x 70
14	Tyre dimensions, load side		mm	85 x 90
15	Castor wheel dimensions (diameter x width)		mm	100 x 40
16	Number of wheels, load / drive side $(x = driven)$			2 + 1x / 2
17	Track width (center of tyres), drive side	b10	mm	480
18	Track width (center of tyres), load side	b11	mm	355 / 375 / 495
	DIMENSIONS			
19	Height with mast lowered	h1	mm	_
20	Lift height	h3	mm	135
21	Height with mast extended	h4	mm	-
22	Initial lift	h5	mm	-
23	Seat- or stand height	h7	mm	-
24	Height of tiller arm / steering console (min./max.)	h14	mm	1050 / 1372
25	Fork height, fully lowered	h13	mm	85
26	Overall length	1	mm	1648
27	Length to fork face	12	mm	498
28	Overall width	b1/b2	mm	720
29	Fork dimensions (thickness, width, length)	s/e/l	mm	55 / 165 / 1150
30	Fork carriage width	b5	mm	520 / 540 / 660
31	Outside width over forks (minimum / maximum)	m2	mm	30
32	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast		1694
33	Working aisle width (Ast) with 1000 X 1200 mm pallets, load lengthwise	Ast	mm	-
			mm	-
34	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	-
35	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	1894
36	Turning radius PERFORMANCE	Wa	mm	1454
27			km/b	60/60
37	Travel speed, with / without load		km/h	6.0 / 6.0
38	Lifting speed, with / without load		m/s	0.035 / 0.045
39	Lowering speed, with / without load		m/s	0.05 / 0.05
40	Gradeability, with / without load		%	10.0 / 20.0
41	Acceleration time (10 metres) with / without load		S	-
42	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric
	ELECTRIC MOTORS	1		
43	Drive motor capacity (60 min. short duty)		kW	1.0
44	Lift motor output at 15% duty factor		kW	0.8
45	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150
46	Battery weight		kg	151
	MISCELLANEOUS			
47	Type of drive control			Stepless
48	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)	-
49	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)	62 / 69 / 0
50	Whole-body vibration (EN 13 059:2002)			-
51	Hand-arm vibration (EN 13 059:2002)			< 2.5
1) W	ith 375Ah battery the I2 dimension increases 72mm			

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## PEDESTRIAN POWER PALLET TRUCKS **PBP16N2, PBP18N2 & PBP20N2 SERIES** 1.6 - 2.0 TONS





Ast = Wa-x+I6+aAst = Working aisle width Wa = Turning radius

a = Safety clearance (200 mm)

I6 = Pallet length

Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
PBP18N2	PBP20N2
Battery	Battery
Pedestrian	Pedestrian
1800	2000
600	600
960	960
1424	1424
502	634
806 / 1496	864 / 1770
381 / 121	475 / 159
Vul / Vul	Vul / Vul
230 x 70	230 x 70
85 x 75	85 x 75
100 x 40	100 x 40
$2 + 1 \times 4$	$2 + 1 \times 4$
480	480
355 / 375 / 495	355 / 375 / 495
_	_
135	135
-	-
-	-
-	-
1050 / 1372	1050 / 1372
85	85
1712	1712
562	562
720	720
55 / 165 / 1150	55 / 165 / 1150
520 / 540 / 660	520 / 540 / 660
30	30
1758	1758
-	-
-	-
1958	1958
1518	1518
6.0 / 6.0	6.0 / 6.0
0.035 / 0.045	0.04 / 0.06
0.05 / 0.05	0.05 / 0.05
10.0 / 20.0	10.0 / 20.0
10.0 / 20.0	10.07 20.0
-	-
Electric	Electric
1.0	1.0
0.8	1.2
24 / 250	24 / 250 - 375 <sup>1)</sup>
212	212-294
Stepless	Stepless
-	-
62 / 69 / 0	65 / 67 / 0
-	-
< 2.5	< 2.5

# **SPECIFICATIONS**

	CHARACTERISTICS				
1	Manufacturer			Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
2	Manufacturer's model designation			PBP16PD	PBP20N2R
3	Power source			Battery	Battery
4	Operator type			Pedestrian	Pedestrian
5	Load capacity	Q	ka	1600 / 800 + 800	2000
6	Load center distance	c	kg	600	600
			mm		
7		Х	mm	990	960
8	Wheelbase	у	mm	1510	1421
0	WEIGHT		ka	200	595
9	Truck weight without load, with maximum battery weight		kg	800	
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	990 / 1410	890 / 1705
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	590 / 210	470 / 125
10	WHEELS, DRIVE TRAIN	1			
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
13	Tyre dimensions, drive side		mm	230 x 70	230 x 70
14	Tyre dimensions, load side		mm	85 x 99	85 x 75
15	Castor wheel dimensions (diameter x width)		mm	140 x 60	125 x 55
	Number of wheels, load / drive side $(x = driven)$			1 x + 1 /4	2 + 1 x / 4
17	Track width (center of tyres), drive side	b10	mm	382	480
18	Track width (center of tyres), load side	b11	mm	355	375
	DIMENSIONS	1			
	Height with mast lowered	h1	mm	1400 / 1550	-
20	Lift height	h3	mm	1700 / 2000	135
21	Height with mast extended	h4	mm	2145 / 2445	-
22	Initial lift	h5	mm	120	-
23	Seat- or stand height	h7	mm	-	172
24	Height of tiller arm / steering console (min./max.)	h14	mm	913 / 1368	1180 / 1350
25	Fork height, fully lowered	h13	mm	90	85
26	Overall length	11	mm	1864	1854 / 2346
27	Length to fork face	12	mm	664	702 / 1195
28	Overall width	b1/b2	mm	660	720
29	Fork dimensions (thickness, width, length)	s/e/l	mm	65 / 185 / 1200	50 / 165 / 1150
30	Fork carriage width	b5	mm	540	540
31	Outside width over forks (minimum / maximum)	m2	mm	25	30
32	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	NA	1920 / 2400
33	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	2532	-
34	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	2290	_
35	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	_	2120 / 2600
36	Turning radius	Wa	mm	1880	1680 / 2160
	PERFORMANCE				
37	Travel speed, with / without load		km/h	5.6 / 6	6.0 / 6.0
	Lifting speed, with / without load		m/s	0.10 / 0.20	0.03 / 0.05
	Lowering speed, with / without load		m/s	0. 12 / 0. 12	0.07 / 0.08
40	Gradeability, with / without load		%	6 / 19	9.0 / 20.0
	Acceleration time (10 metres) with / without load		S	7.94 / 6.76	-
	Service brakes (mechanical / hydraulic / electric / pneumatic)		0	Electric	Electric
	ELECTRIC MOTORS			Liootito	Lioouno
43	Drive motor capacity (60 min. short duty)		kW	1.3	1.0
44	Lift motor output at 15% duty factor		kW	2.35	1.2
44	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150 - 230	24 / 250 - 375 1)
	Battery weight		kg	140 - 215	212-294
-10	MISCELLANEOUS		Ng	140 210	LIL LJT
47	Type of drive control			Stepless	Stepless
47	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)	74.6 +/- 0.7	01001000
	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 m work LpAZ 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)		63 / 78 / 0
	Whole-body vibration (EN 13 059:2002)		аD(А)	_	0.9
50 51	Hand-arm vibration (EN 13 059:2002)			_	< 2.5
JI	nanu ann vioraioll (LIV 15 053.2002)			_	< 2.J

1) With 375Ah battery the I2 dimension increases 72mm

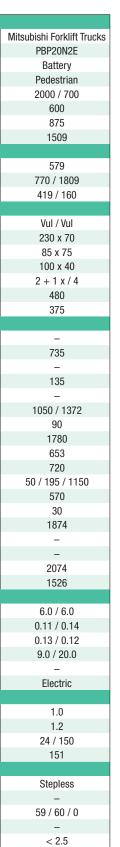
h3+h13 = Lifting height Ast = Wa-x+I6+a

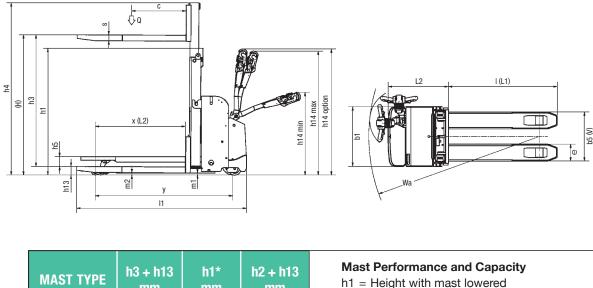
h1 = Lowered mast height h2+h13 = Free lift

Ast = Working aisle width Wa = Turning radius a = Safety clearance (200 mm)

l6 = Pallet length

## PEDESTRIAN DOUBLE PALLET TRUCK PBP16PD 1.6 TONS

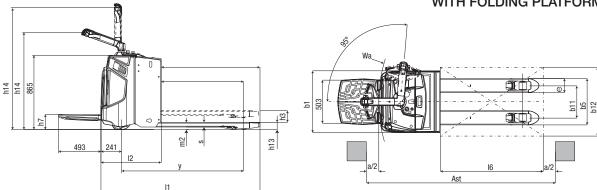




	mm	mm	mm	$h^2 = Standard free lift$
	PBP16	PD		h3 = Lift height h4 = Height with mast raised
	1675	1410	NA	h5 = Full free lift Q = Lifting capacity, rated load
DUPLEX	2090	1560	NA	c = Load centre (distance)

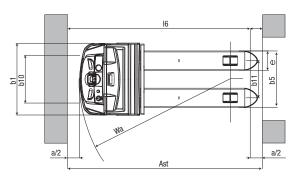
\* h1 closed mast height includes polycarbonate finger protection. Mast height excl. Finger protection is 1343mm / 1493mm.

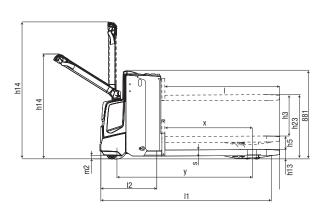




PEDESTRIAN DOUBLE PALLET TRUCKS
PBP20N2E 2.0 TONS







# **STANDARD EQUIPMENT & OPTIONS**

Standard

▲ = Option

GENERAL         Led battery discharge indicator, no hourmeter       Image: Computer indicator, no hourmeter																												
Micro-computer incl. Hour meter and battery indicator with cut out (ATC T4)IIIPIN code log in 100 codesIIIIPIN code log in 4 codesIIIIIPIN code log in 4 codesIIIIIIOffset tiller arm with display and keypadIII<																												
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PEDESTRIAN POWER PALLET AND DOUBLE PALLET TRUCKS **PBP16 – 20N2(R)(E) & PBP16PD Series 1.6 – 2.0 TONS** 

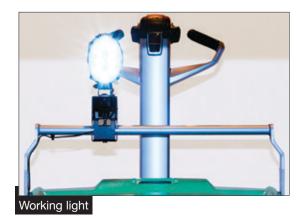




Load backrest



Accessory rack



PBP16PD	PBP20N2R	PBP20N2E
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