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.sg**

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.

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FMIT0189(11/2022)











MOVE THE WORLD FORW→RD MITSUBISHI

MITSUBISHI HEAVY INDUSTRIES GROUP

PREMIA ES (1.6 - 2.0 TONS)









· Sealed transmission Shock-resistant, quiet and requires little maintenance. Powerful AC drive motor

DRIVE

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 foot and finger controls.

SYSTEMS

- Programmable controller Speed up servicing and help prevent damage.
- · On-board diagnostics and fault memory folder Both help to maximise safety and control in confined spaces.
- · Combi controller lift system Speed-regulated lift motor and regulated electrical valve for lifting and lowering.

ELECTRICAL & CONTROL

FRAME & BODY

PBP16-20N3(R)(E) Series

- 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
- Operation is safer and more stable. · Operate in low temperatures

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 (rated to IP54), **PREMIA ES** is unaffected by dirt, debris, dust,

and water, working dependably indoors or out with minimal maintenance.

Can be used for cold storage applications in temperatures as low as -10°C with sealed components impervious to condensation.

· Low centre of gravity

PREMIA ES POWER PALLET TRUCK



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

BRAKES



- · 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.

FORKS & MAST

• 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

STEERING SYSTEM

OPERATOR COMPARTMENT & 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 arm lock bypass Both help to maximise safety and control in confined
- 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

Combine this with the compact chassis and

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

> Its large buttons mean operators can focus on the task in hand and minimise mistakes.

Multi-function display Shows truck mode, status and drive speeds using easy to read icons, as well as error codes.

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



PREMIA ES POWER PALLET TRUCK

PBP16-20N3(R)(E)



BUILT TO LAST



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)



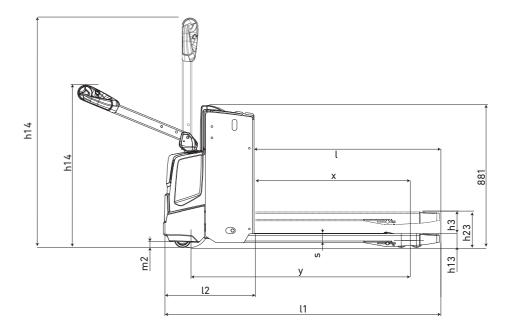
SPECIFICATION

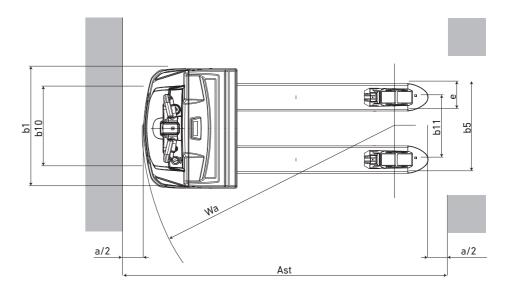
	CHARACTERISTICS					I		
1	Manufacturer			MITSUBISHI FORKLIFT TRUCKS				
2	Manufacturer's model designation			PBP16N3	PBP18N3	PBP20N3		
3	Power source			Battery	Battery	Battery		
4	Operator type			Pedestrian	Pedestrian	Pedestrian		
5	Load capacity	Q	kg	1600	1800	2000		
6	Load center distance	С	mm	600	600	600		
7	Load wheel axle to fork face (forks lowered)	x	mm	960	960	960		
8	Wheelbase	у	mm	1360	1425	1425		
	WEIGHT							
9	Truck weight without load, with maximum battery weight		kg	430	500	500		
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	745 / 1290	805 / 1495	840 / 1660		
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	340 / 90	380 / 120	380 / 120		
	WHEELS, DRIVE TRAIN			ı				
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul		
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70	230 × 70		
14	Tyre dimensions, load side		mm	85 × 90	85 × 75	85 × 75		
15	Castor wheel dimensions (diameter x width)		mm	100 × 40	100 × 40	100 × 40		
16	Number of wheels, load / drive side (x = driven)			2 + 1x / 2	2 + 1 x / 4	2 + 1 x / 4		
17	Track width (center of tyres), drive side	b10	mm	480	480	480		
18	Track width (center of tyres), load side	b11	mm	375	375	375		
	DIMENSIONS							
19	Height with mast lowered	h1	mm	-	-	-		
20	Lift height	h3	mm	135	135	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	865 / 1420	865 / 1420	865 / 1420		
25	Fork height, fully lowered	h13	mm	85	85	85		
26	Overall length	l1	mm	1650	1710	1710		
27	Length to fork face	l2	mm	500	560	560		
28	Overall width	b1/b2	mm	720	720	720		
29	Fork dimensions (thickness, width, length)	s/e/l	mm	55 / 165 / 1150	55 / 165 / 1150	55 / 165 / 1150		
30	Outside width over forks (minimum / maximum)	b5	mm	540	540	540		
31	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	30	30	30		
32	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2339	2475	2472		
33	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	_	_	_		
34	Working aisle width (Ast3) with 800 x 1200 mm patters, load lengthwise	Ast3	mm	_	_	_		
-	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise,							
35	platform up/down	Ast	mm	2176	2281	2281		
36	Turning radius	Wa	mm	1510	1551	1551		
	PERFORMANCE							
37	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0		
38	Lifting speed, with / without load		m/s	0.035 / 0.045	0.030 / 0.035	0.04 / 0.05		
39	Lowering speed, with / without load		m/s	0.05 / 0.05	0.06 / 0.042	0.05 / 0.06		
40	Gradeability, with / without load		%	10.0 / 20.0	10.0 / 20.0	10.0 / 20.0		
41	Acceleration time (10 metres) with / without load		S	- Flastria	- Flantsia	- Flastnia		
42	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric		
//2	ELECTRIC MOTORS Prive mater appoint (40 min. short duty)		Iz\A/	1.0	1.0	1.0		
43	Drive motor capacity (60 min. short duty) Lift motor output at 15% duty factor		kW kW	1.0	1.0 0.8	1.0 1.2		
45	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150	24 / 250	24 / 250 - 375 1)		
46	Battery weight		kg	150	24 / 250	24 / 250 - 375 **		
70	MISCELLANEOUS		ı Ng	130	210	210		
47	Type of drive control			Stepless	Stepless	Stepless		
	Level of noise at the ear level of the driver according to		dD(A)	·		·		
48	EN 12 053:2001 and EN ISO 4871 in work LpAZ		dB(A)	64	64	64		
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)	66 / 70	66 / 70	66 / 70		
50	Whole-body vibration (EN 13 059:2002)			_	_	_		
51	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	< 2.5		
	1) With 375Ah battery the l2 dimension increases 72 mm			- 2.0	- 2.0	- 2.0		

1) With 375Ah battery the l2 dimension increases 72 mm

PREMIA ES PEDESTRIAN POWER PALLET TRUCK

PBP16 /18 / 20N3





Ast = Wa-x+l6+a

Ast = Working aisle width

Wa = Turning radius

a = Safety clearance (200 mm)

l6 = Pallet length

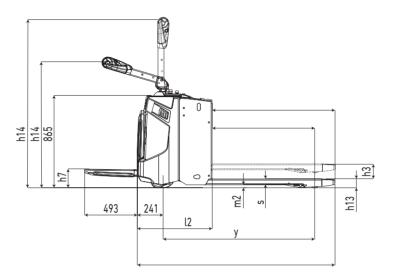
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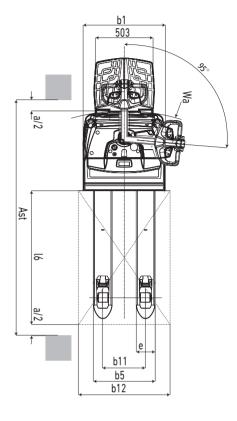
	CHARACTERISTICS					
1	Manufacturer			MITSUBISHI FORKLIFT TRUCKS		
2	Manufacturer's model designation			PBP20N3R	PBP20N3E	
3	Power source			Battery	Battery	
4	Operator type			Pedestrian	Pedestrian	
5	Load capacity	Q	kg	2000	2000 / 700	
6	Load center distance	c	mm	600	600	
7	Load wheel axle to fork face (forks lowered)	x	mm	960	890	
8	Wheelbase	У	mm	1420	1425	
	WEIGHT					
9	Truck weight without load, with maximum battery weight		kg	640	585	
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	950 / 1710	435 / 150	
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	505/ 135	420 / 160	
	WHEELS, DRIVE TRAIN					
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane,			Vul / Vul	Vul / Vul	
	N = Nylon, R = Rubber drive / load side					
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70	
14	Tyre dimensions, load side		mm	85 × 75	85 × 75	
15	Castor wheel dimensions (diameter x width)		mm	125 × 55	100 × 40	
16	Number of wheels, load / drive side (x = driven)			2 + 1x / 4	2 + 1 x / 4	
17	Track width (center of tyres), drive side	b10	mm	480	480	
18	Track width (center of tyres), load side	b11	mm	375	375	
	DIMENSIONS					
19	Height with mast lowered	h1	mm	-	-	
20	Lift height	h3	mm	135	135 / 645	
21	Height with mast extended	h4	mm	-	-	
22	Initial lift	h5	mm	-	-	
23	Seat- or stand height	h7	mm	170	-	
24	Height of tiller arm / steering console (min./max.)	h14	mm	135	135 / 645	
25	Fork height, fully lowered	h13	mm	85	85	
26	Overall length	l1	mm	1850 / 2345	1780	
27	Length to fork face	12	mm	700 / 1195	630	
28	Overall width	b1/b2	mm	720	720	
29	Fork dimensions (thickness, width, length)	s/e/l	mm	50 / 165 / 1150	59 / 184 / 1150	
30	Outside width over forks (minimum / maximum)	b5	mm	540	570	
31	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	30	30	
32	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2504 / 2984	2365	
33	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	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,	Ast	mm	2416 / 2896	2275	
	platform up/down					
36	Turning radius	Wa	mm	1680 / 2160	1560	
27	PERFORMANCE		James (Ib	(0//0	40440	
37	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0	
38	Lifting speed, with / without load Lowering speed, with / without load		m/s	0.04 / 0.04	0.11 / 0.14	
			m/s	0.05 / 0.06	0.13/ 0.12	
40	Gradeability, with / without load Acceleration time (10 metres) with / without load		%	9.0 / 20.0	9.0 / 20.0	
41	Service brakes (mechanical / hydraulic / electric / pneumatic)		S	- Electric	- Electric	
42	ELECTRIC MOTORS			Electric	Electric	
43	Drive motor capacity (60 min. short duty)		kW	1.0	1.0	
44	Lift motor capacity (so min. snort duty)		kW	1.2	1.2	
45	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 250 - 375 1)	24 / 150	
46	Battery weight		kg	212-294	151	
40	MISCELLANEOUS		кy	212-2/4	131	
47	Type of drive control			Stepless	Stepless	
	Level of noise at the ear level of the driver according to		IB(1)			
48	EN 12 053:2001 and EN ISO 4871 in work LpAZ		dB(A)	60	64	
49	Level of noise at the ear level of the driver according to		dB(A)	63 / 65	66 / 70	
	EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ					
50	Whole-body vibration (EN 13 059:2002)			0.9	- 2 E	
51	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	

¹⁾ With 375Ah battery the l2 dimension increases 72 mm

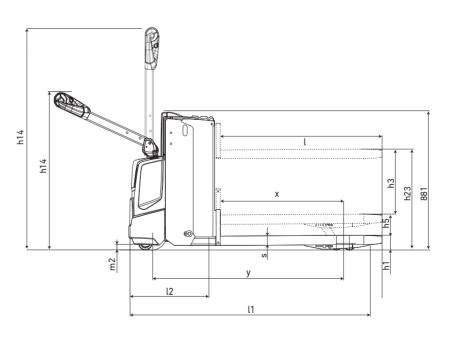


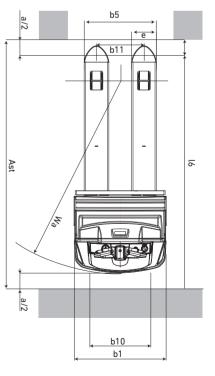
PBP20N3R WITH FOLDING PLATFORM





PBP20N3E WITH RISING FORKS





Ast = Wa-x+l6+a

Ast = Working aisle width

Wa = Turning radius

a = Safety clearance (200 mm)

l6 = Pallet length

Mitsubishi Forklift Trucks 9

STANDARD EQUIPMENT & OPTIONS

		1	10			
	• = Standard o = Option	PBP16N3	PBP18N3	PBP20N3	PBP20N3R	PBP20N3E
	GENERAL					
	LED discharge indicator, no hour meter	•	•	•	•	•
	Micro-computer incl. hour meter and battery indicator with cut out	-	-	-	-	-
	PIN code login 99 codes	-	-	-	-	-
	PIN code login 4 codes	0	0	0	0	0
	Offset tiller arm	-	-	-	-	-
	Chill store design, down to -10°C, with rust-protected axles	-	-	-	-	-
	Speed regulated lifting and proportional valve for lowering, controlled by rocker switch on tiller head.	-	-	-	-	-
	Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head	•	•	•	•	•
	Polyurethane drive wheel or rubber	-	-	-	-	-
	Initial lift	-	-	-	-	•
	Single or tandem load wheels polyurethan	•	•	•	•	•
7	ENVIRONMENT					
f	Cold store design, 0°C to -35°C	0	0	0	0	0
Į,	Hot operating condition modification, >30°C	0	0	0	0	0
	DRIVE AND LIFT CONTROLS					
	Tiller up drive	0	0	0	0	0
	WHEEL OPTIONS					
	Polyurethane traction and load wheels	•	•	•	•	•
	Power friction traction wheel	0	0	0	0	0
	Tandem Polyurethan load wheels	0	•	•	•	•
	Single Polyurethan load wheels	0	•	•	•	•
	Non-marking drive wheeel	-	-	_	-	_
	Anti-static drive wheel	-	-	-	-	-
	OTHER OPTIONS					
1	Rubber foot protection	-	_	-	-	-
	Diselectric band	-	-	-	-	-
	Key switch	•	•	•	•	•
	Capacity 2000kg on straddles	-	-	-	-	-
	Piezo buzzer instead of standard horn	-	_	_	-	-
	Load backrest	0	0	0	0	0
	Pallet entry and exit rollers	0	0	0	0	0
	Special RAL colour	0	0	0	0	0
	Inbuilt charger 30A	0	0	0	0	0
	Sideways battery change, 250Ah and 375Ah battery only	-	0	0	0	-
	Battery changing device	-	0	0	0	_
	Accessory rack	0	0	0	0	0
	Working light	0	0	0	0	0
	Multi function display	-	-	-	-	-
	Battery creep	-	_	_	-	-
	Battery level audible warning	-	-	-	-	-
	Service alarm	_	_	_	_	_
	Automatic log off	_	_	_	-	-
	Revert to low speed at log off	_	_	_	_	_
	The second secon			-		

