SPECIFICATIONS

PREMiA ES

PBP16 - 20N3 Series

POWER PALLET TRUCK

1.6 - 2.0 tons

DESIGNED TO EXCEL
BUILT TO LAST

Developed for non-stop performance in some of 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 designed to fight the elements such as dirt, debris, dust, and water, working dependably indoors or out with minimal maintenance.

SPECIFICATIONS

PBP16N3
PBP18N3
PBP20N3

WHEN RELIABILITY IS EVERYTHING...

PREMIA ES

PBP16 - 20N3 Series

POWER PALLET TRUCK

1.6 – 2.0 tons

BRAKES

- **Parking brake**
  Automatically activated when necessary 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 less maintenance requirements.
- **Sensitive Drive System (SDS)**
  An intuitive driver-assist system for increased awareness. Performance is managed according to steer angle and the velocity of foot and finger controls.

ELECTRICAL AND CONTROL SYSTEMS

- **Programmable controller**
  Speeds up servicing and helps to prevent damage.
- **On-board diagnostics and fault memory folder**
  Both help to optimize control in confined spaces.

FORKS AND MAST

- **Robust forks**
  Strong welded construction with rounded tips for effortless pallet entry.
- **Market-leading lift height of 220mm**
  Capable of 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 quicker and easier.

PREMIA ES

PBP16 - 20N3 Series

POWER PALLET TRUCK

1.6 – 2.0 tons

FRAME AND BODY

- **Sealed chassis**
  Internal components are protected against water, dirt, dust and debris, helping to reduce downtime and servicing.
- **Water-resistant design**
  Water is kept away from key electrical parts for truck protection and durability.
- **Two linked castor wheels**
  In addition to the load wheels for added stability. Helps to increase comfort for the driver and protection for the load.
- **Low center of gravity**
  Operation is smooth and stable.
- **Operate in low temperatures**
  Can be used for cold storage applications in temperatures as low as -10 °C with sealed components to help protect against condensation.

OPERATOR COMPARTMENT AND CONTROLS

- **Choice of two pre-set operating modes (ECO and PRO)**
  Enabled via key switch to enhance energy efficiency and productivity.
- **Creep speed function and tiller arm lock bypass**
  Both help to enhance control in confined spaces.
- **Ergonomic rubber hand grips**
  Handles are comfortable and easy to hold.
- **Battery discharge indicator**
  Fitted as standard for battery protection to help prevent deep discharge.
- **Low to the ground**
  Ground clearance is only 35mm.
- **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 at hand.
- **Emergency stop**
  Fast and easy to engage.

STEERING SYSTEM

- **Ergonomic ErgoSteer tiller head**
  Excellently designed, weather-protected and impact-resistant tiller head with large, easy-to-reach buttons placed at a patented ergonomic distance to help reduce fatigue. It is also IP65 rated.
- **Small turning radius**
  Combine this with the compact chassis and operation is possible in tight areas allowing for optimized use of warehouse space.

OTHER FEATURES

- **RapidAccess features**
  These allow quick and easy entry to all areas for checks and maintenance.
- **PIN-code access**
  Helps to prevent unauthorized truck use and keeps you aware of who's operating at all times. (Option)

VDI - PERFORMANCE & DIMENSIONS

	CHARACTERISTICS			Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
1.1	Manufacturer			PBP16N3	PBP18N3	PBP20N3
1.2	Manufacturer's model designation			Battery	Battery	Battery
1.3	Power source			Pedestrian	Pedestrian	Pedestrian
1.4	Operator type			1600	1800	2000
1.5	Load capacity	Q	kg	600	600	600
1.6	Load center distance	c	mm	960	960	960
1.8	Load wheel axle to fork face (forks lowered)	x	mm	1360	1425	1425
1.9	Wheelbase	y	mm			
	WEIGHT					
2.1	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	Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul
3.2	Tire dimensions, drive side		mm	230 × 70	230 × 70	230 × 70
3.3	Tire dimensions, load side		mm	85 × 90	85 × 75	85 × 75
3.4	Castor wheel dimensions (diameter x width)		mm	100 × 40	100 × 40	100 × 40
3.5	Number of wheels, load / drive side (x = driven)			2 + 1x / 2	2 + 1 x / 4	2 + 1 x / 4
3.6	Track width (center of tires), drive side	b10	mm	480	480	480
3.7	Track width (center of tires), load side	b11	mm	375	375	375
	DIMENSIONS					
4.4	Lift height	h3	mm	135	135	135
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	1710	1710
4.20	Length to fork face	l2	mm	500	560	560
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	2339	2475	2472
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2176	2281	2281
4.35	Turning radius	Wa	mm	1510	1551	1551
	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	0.04 / 0.05
5.3	Lowering speed, with / without load		m/s	0.05 / 0.05	0.06 / 0.042	0.05 / 0.06
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	24 / 250	24 / 250 - 375 [1]
6.5	Battery weight		kg	150	210	210
	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	64	64
10.7.1	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
10.7.3	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	< 2.5

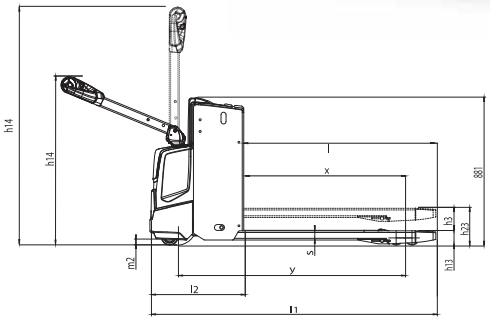
1) With 375Ah battery the l2 dimension increases 72 mm

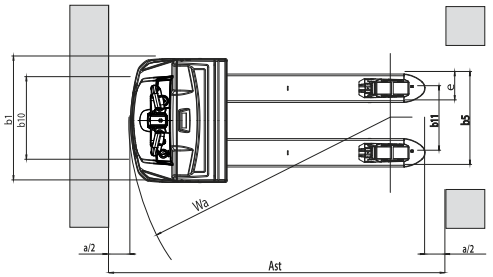
PREMÍA ES

PEDESTRIAN POWER PALLET TRUCK

PBP16 /18 / 20N3

1.6 – 2.0 tons





Ast = Wa-x+l6+a
Ast = Working aisle width
Wa = Turning radius
a = Minimum recommended passing distance (200 mm)
l6 = Pallet length

Continuing improvement may lead to changes in these specifications

STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

	PBP16N3	PBP18N3	PBP20N3
GENERAL			
LED battery discharge indicator, no hourmeter	●	●	●
PIN code log in 4 codes	●	●	●
Single or tandem load wheels Polyurethane	●	●	●
Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head	●	●	●
ENVIRONMENT			
Cold store design, 0C° to -35C°	●	●	●
Hot operating condition modification, >30C°	●	●	●
DRIVE AND LIFT CONTROLS			
Tiller up drive	●	●	●
WHEEL OPTIONS			
Polyurethan traction and load wheels	●	●	●
Power friction traction wheel	●	●	●
Tandem Polyurethan load wheels	●	●	●
Single Polyurethan load wheels	●	●	●
OTHER OPTIONS			
Key switch	●	●	●
Load backrest	●	●	●
Pallet entry and exit rollers	●	●	●
Special RAL color	●	●	●
Built-in charger 30A	●	●	●
Sideways battery change, 250Ah and 375Ah battery only	–	●	●
Battery changing device	–	●	●
Accessory rack	●	●	●
Working light	●	●	●

PREMIA ES

PBP16 - 20N3 Series

POWER PALLET TRUCK

1.6 – 2.0 tons

PIN code log in

Load backrest

Continuing improvement may lead to changes in these specifications

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.

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 authorized 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 organization of Mitsubishi Forklift Trucks.

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

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tires, 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.

WESM2238 (08/22) © 2022 MLE

MITSUBISHI FORKLIFT TRUCKS