

PREMIA EM

Platform Power Pallet & Double Pallet Handler
AC Power • 2.0 – 2.5 tonnes

PBV20N2
PBV20ND
PBF25N2

Engineered for action... and ready for every challenge

Sealed, protected, and specifically designed for low maintenance needs in every system, PREMIA EM platform power pallet trucks are built to cope with the most demanding of conditions. In spite of uneven ground, splashing water, dust and rough treatment, they just keep on working. With intuitive handling via the simple-to-use tiller arm, from the safety and comfort of the ergonomic platform, your operator is always secure, confident and in full control.

Both standard (PBV20N2) and heavy duty (PBF25N2) models are available to meet different needs. The PBF25N2 is designed to withstand non-stop, intensive use, over longer distances, with the heaviest loads. It will reach a top speed of 8.5 km/h (optional 12km/h). The standard PBV20N2 is ideal for pallet transfer work in logistics terminals and industrial warehouses, as well as loading and unloading vehicles. There is also an ingenious double pallet model (PBV20ND) which can handle two pallets at once. Ideal for loading and unloading double-deck stacked pallets.

Frame and body

- **Closed chassis** offers protection against dirt, dust and other particles to reduce wear.
- **High stability** is ensured by use of two castor wheels – next to the central drive wheel – in addition to the two load wheels.
- **RapidAccess features** allow quick and easy entry to all areas for checks and maintenance.

Forks

- **High-strength forks** offer durable, welded construction with rounded tips for easy pallet entry.
- **Market-leading lift height** of 135 mm allows easy handling on steep ramps and loading docks, even with damaged pallets. (PBV20N2 /PBF25N2 only.)
- **Compact duplex mast** offers two lift heights (1600 and 2000 mm), with maximum load capacity 2000 kg (or 1000 kg on each pair of forks), and gives optimal forward visibility. (PBV20ND only.)

Drive

- **Powerful, sealed motor** and Vulkollan drive wheel ensure long component life.
- **Oil-filled, sealed transmission** is shock-resistant, quiet and requires little maintenance.
- **Floating drive unit** reduces vibration, for greater operator comfort and lower maintenance requirements.
- **Dust-shielded load wheels** require less maintenance and replacement of components.



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Characteristics				
1.1	Manufacturer (abbreviation)		Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		PBV20N2	PBV20ND
1.3	Power source (battery, diesel, LP gas, petrol)		Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Pedestrian / stand-on	Pedestrian / stand-on
1.5	Load capacity	Q (kg)	2000	1600 / 1000+1000
1.6	Load centre distance	c (mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	960	946
1.9	Wheelbase	y (mm)	1421	1553
Weight				
2.1	Truck weight with maximum battery weight	(kg)	660	1270 (2)
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side	(kg)	950 / 1710	1270 / 2000 (2)
2.3	Axle loadings without load & with maximum battery weight, drive/load side	(kg)	535 / 125	920 / 350 (2)
Wheels, Drive Train				
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		Vul/Vul	Vul/Vul
3.2	Tyre dimensions, drive side	(mm)	85 × 75	85 × 75
3.3	Tyre dimensions, load side	(mm)	230 × 70	230 × 70
3.4	Castor wheel dimensions (diameter × width)	(mm)	125 × 55	150 × 50
3.5	Number of the wheels drive/load side (x=driven)		2+1x/4	2+1x/4
3.6	Track width (centre of tyres), drive side	b10 (mm)	480	570
3.7	Track width (centre of tyres), load side	b11 (mm)	375	385
Dimensions				
4.4	Lift height	h3 (mm)	135	1600 / 2000
4.8	Seat or stand height	h7 (mm)	177	145
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)	1180 / 1350	1141/1341
4.15	Fork height, fully lowered	h13 (mm)	85	92
4.19	Overall length, platform up/down	l1 (mm)	1852 (3) / 2346 (3)	2037 / 2493
4.20	Length to fork face, platform up/down	l2 (mm)	702 (3) / 1195 (3)	887 / 1343
4.21	Overall width	b1/b2 (mm)	720	790
4.22	Fork dimensions (thickness, width, length)	s/e/l (mm)	55 / 165 / 1150	56 / 185 / 1150
4.25	Outside width over forks	b5 (mm)	540	570
4.32	Ground clearance, centre of wheelbase (forks lowered)	m2 (mm)	30	25
4.33	Working aisle width (Ast) with 1000 x1200 mm pallet, load crosswise, platform up/down	Ast (mm)	1920 (3) / 2400 (3)	2104 / 2543
4.34	Working aisle width (Ast) with 800 x1200 mm pallet, load lengthwise, platform up/down	Ast (mm)	2120 (3) / 2600 (3)	2304 / 2743
4.35	Turning circle radius	Wa (mm)	1680 (3) / 2160 (3)	1850 / 2289
Performance				
5.1	Travel speed, with/without load	(km/h)	9.0 / 9.0 (12.0) (1)	8.5 / 8.5
5.2	Lifting speed, with/without load	(m/s)	0.035 / 0.05	0.15 / 0.22
5.3	Lowering speed, with/without load	(m/s)	0.045 / 0.05	0.26 / 0.21
5.7	Gradeability, with/without load	(%)	9 / 25	7 / 15
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric
Electric motors				
6.1	Drive motor capacity (60 min. short duty)	(kW)	2.3	2.0
6.2	Lift motor output at 15% duty factor	(kW)	1.2 (10%)	2.2 (10%)
6.4	Battery voltage/capacity at 5-hour discharge	(V/Ah)	24 / 250-375 (3)	24 / 375
6.5	Battery weight	(kg)	212-294	315
Miscellaneous				
8.1	Type of drive control		Stepless	Stepless
	Noise level, mean value at operators ear (EN12053)	dB(A)	66	68

Continuing improvement may lead to changes in these specifications.

(1) Optional: higher travel speed (12 km/h) with loads up to 600 kg (2) D2000 (3) With 375Ah battery the l2 dimension increases 72mm (4) With 500Ah battery the l2 dimension increases 72mm

PREMIA EM

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.

Ast = Working aisle width

Ast3 = Working aisle width (b12 < 1000 mm)

Ast = $Wa + \sqrt{(\ell - x)^2 + (b12 / 2)^2} + a$

Ast3 = $Wa + \ell - x + a$

Wa = Turning radius

ℓ = Pallet length

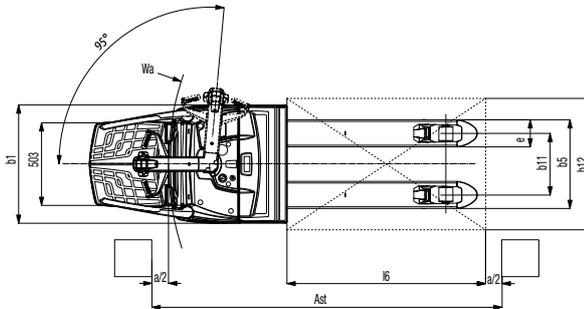
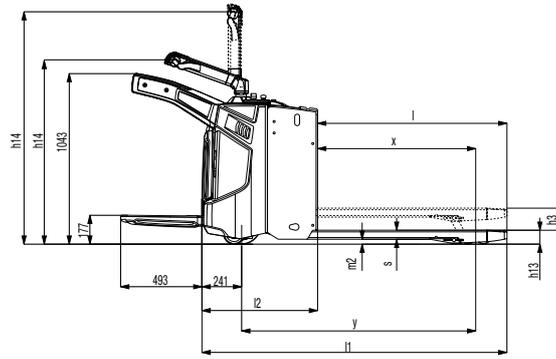
x = Load wheel axle to fork face

b12 = Pallet width

a = Safety clearance = 2 x 100 mm

	Mitsubishi
	PBF25N2
	Battery
	Pedestrian / stand-on
	2500
	600
	960
	1501
	787
	1155 / 2144
	640 / 147
	Vul/Vul
	85 x 75
	230 x 70
	125 x 55
	4/1x+2
	480
	375
	135
	170
	1143/1290
	85
	2277 (4)
	1127 (4)
	720
	55 / 165 / 1150
	540
	29
	2395 (4)
	2595 (4)
	2155 (4)
	9.0 / 12.0
	0.03 / 0.05
	0.07 / 0.08
	9 / 20
	Electric
	2.3
	1.2
	24 / 375-500 (4)
	291-380
	Stepless
	65

PBV20N2

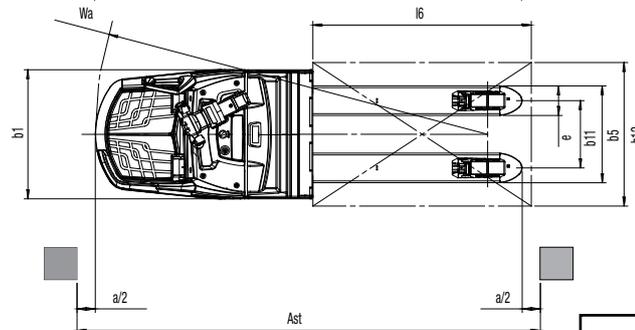
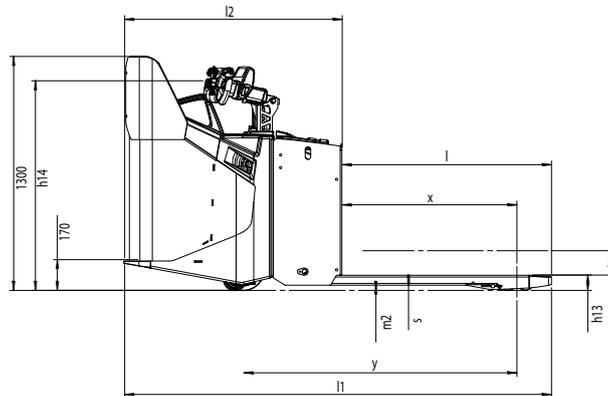


Side-stance operating position (PBF25N2 only)

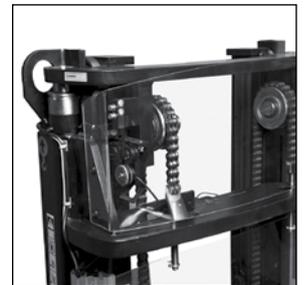


Easy service access

PBF25N2



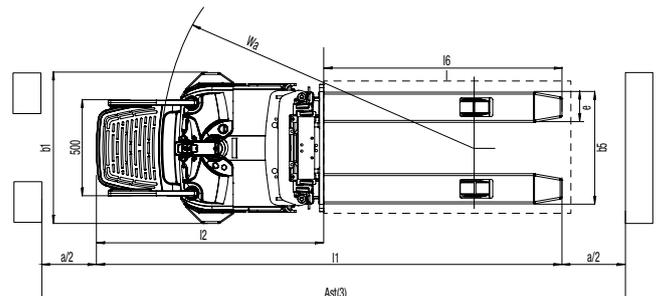
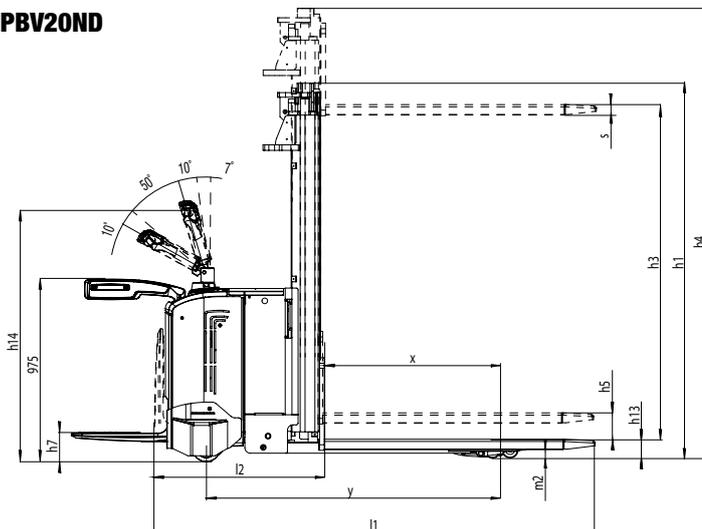
Weather-resistant sealed chassis



Compact duplex mast

PBV20ND				
Mast type	h3+h13 mm	h1* mm	h4* mm	h2+h13 mm
Duplex	1600	1371	2101	(155)
	2000	1571	2501	(155)

PBV20ND





High-positioned cushioned sidebars



Large suspended platform



Market-leading lifting height

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, without brake wear, and extends shift life.
- **Parking brake** is automatically activated, when necessary, for extra safety on ramps.

Hydraulics

- **Rapid lift and lowering speeds** improve productivity.

Electrical and control systems

- **New generation, multi-function controller** governs both drive and lift for smooth, quiet control with fewer components to maintain.
- **Full programmability** allows adjustment of 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.
- **Waterproof wiring and connectors** combine with closed battery compartment and channelling of splashed water to prevent system failure and corrosion.

- **Versatile battery compartment** accommodates DIN and BS size batteries with a variety of capacities for maximum compatibility with user's equipment needs. (PBV20N2 and PBF25N2 only.)

- **High capacity batteries** deliver 375Ah as standard and up to 500Ah on PBF25N2 to extend shifts.

Operator environment and controls

- **Large, suspended platform** stays down for easier access and – together with high-positioned, cushioned sidebars – provides a safe, ergonomic standing position.
- **High-grip rubber matting** prevents slips and gives cushioned support.
- **Choice of performance modes** via key switch enhances safety, energy efficiency and productivity (PBV20N2 and PBF25N2 only.)
- **Optional ergonomic levers** allow operators to raise and lower loads with ease – even when wearing gloves.
- **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.

- **Maxius steering wheel** offers the ultimate in ergonomics, comfort and design, with all operating controls easily in reach. (PBF25N2 only.)

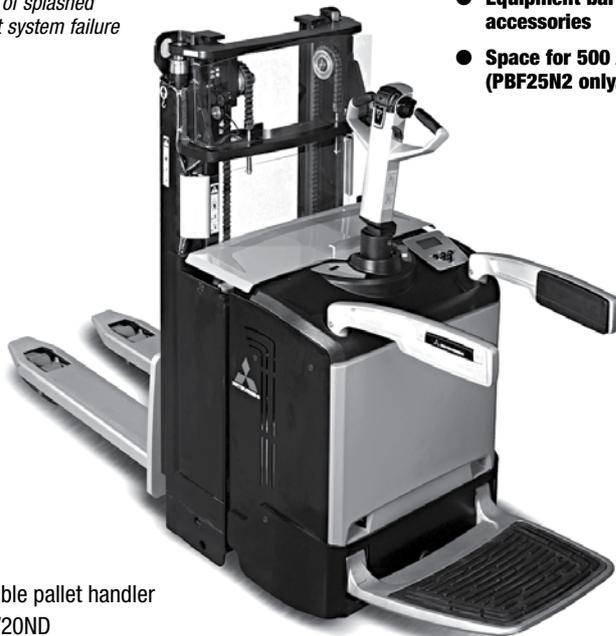
- **Side-stance operating position** requires minimal upper body and neck movement, reducing operator strain. (PBF25N2 only.)

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

- **Multifunctional display** alerts operators and service engineers to potential problems – helping to avoid damage and encourage maintenance.

Options include:

- **PIN-code device** instead of key switch
- **Higher travel speed** - 12 km/h - with loads up to 600 kg
- **Cold storage modification** (class III, -35°C)
- **Wide variety of fork dimensions**
- **Customer name/logo/artwork** on side panels
- **Load backrest**
- **Choice of drive and load wheels** for different applications
- **Pallet entry and exit rollers**
- **Large lifting/lowering levers**
- **Equipment bar** for mounting accessories
- **Space for 500 Ah battery** (PBF25N2 only.)



Double pallet handler
PBV20ND

When
reliability
is **everything**

Like any product bearing the Mitsubishi name, our materials handling equipment benefits from the huge resources and cutting-edge technology of one of the world's largest corporations. So when we promise you **quality, reliability** and **value for money**, you know it's a guarantee we have the power to deliver.

Every model in our comprehensive, award-winning range of forklift trucks and warehouse equipment is built to a high specification and is designed to keep on working for you... day after day... year after year... whatever the job... whatever the conditions.

To ensure your truck stays in constant productive action, we have a network of local dealers – hand-picked for their commitment to customer care... and backed up by the Mitsubishi Forklift Trucks organisation. No matter where you are, we have a dealer close by – ready and willing to meet your needs.

That friendly local service covers everything from identifying the perfect model and configuration for your application to providing competitive, flexible finance and maintenance packages, unbeatable warranties, long and short term hire, and highly responsive field service and repairs... as well as the industry's quickest and most reliable parts supply.

Only Mitsubishi can give you this combination of global engineering excellence and outstanding local support... only Mitsubishi offers you such a quality product at such an affordable price... and only Mitsubishi places reliability as high as you do in its priorities. Contact us now and see what we can do for you.

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