

PBV20-25N(H) Series

Platform Power Pallet • AC Power • **2.0 – 2.5 tonnes**

**PBV20N
PBV25NH**

Step up to higher productivity

These compact but sturdy platform power pallet trucks deliver high productivity within a wide range of complex and demanding applications. Thanks to the AC technology of their drive motors, maintenance requirements are minimal while power, control, comfort and energy efficiency are high. The state-of-the-art, simple-to-use tiller arm design protects hands and places everything within easy reach for safe, comfortable, controlled operation.

Both standard (PBV20N) and heavy duty (PBV25NH) models are available to meet different needs. The PBV25NH is designed to withstand non-stop, intensive use, over longer distances, with the heaviest loads. It will reach a top speed of 8 km/h. The standard PBV20N is ideal for pallet transfer work - involving distances over 50 m - in logistics terminals, industrial warehouses and other business premises, as well as loading and unloading vehicles.

Frame and body

- **Robust construction** offers exceptional durability in all working conditions.
- **Low centre of gravity** means stable, safe operation.
- **High-visibility design** maximises view of fork tips and working area.

Forks

- **Reinforced forks** - on PBV25NH - give extra strength to cope with intense work and heavy loads.
- **Tapered forks** ensure smooth pallet entry and exit.



PBV20-25N(H) Series

Platform Power Pallet

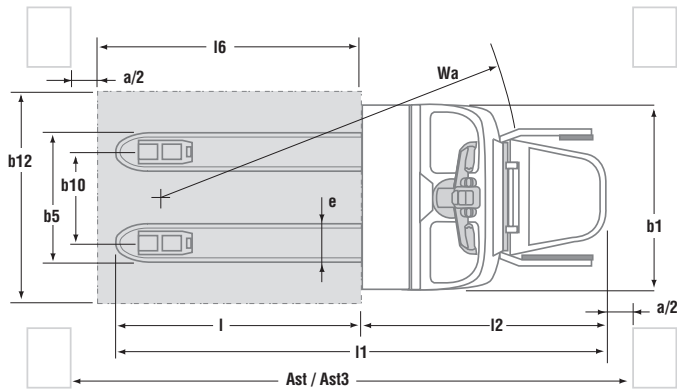
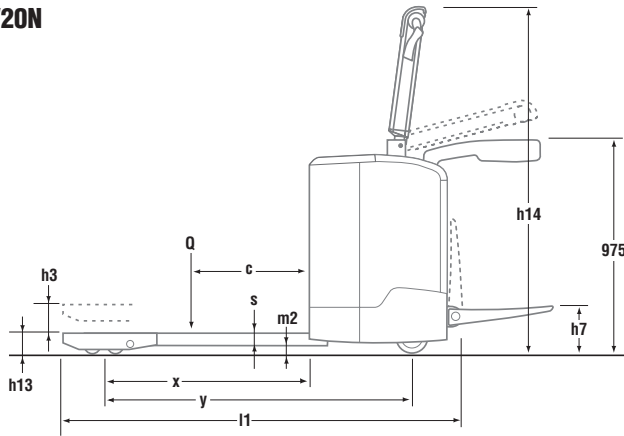
AC Power • 2.0 – 2.5 tonnes

Characteristics				
1.1	Manufacturer (abbreviation)		Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		PBV20N	PBV25NH
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	2500
1.6	At load centre	c (mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	960	980
1.9	Wheelbase	y (mm)	1385	1528
Weight				
2.1	Truck weight with nominal load & battery	kg	2742	3468
2.2	Axle loadings with nominal load & battery, drive/load side	kg	1053/1689	1214/2254
2.3	Axle loadings without load & with battery, drive/load side	kg	600/142	752/216
Wheels, Drive Train				
3.1	Tyres: P=Polyurethan, PT=Power Thane, Vul=Vulkollan, drive/load side		Vul/Vul	Vul/Vul
3.2	Tyre dimensions, front		85x75	85x90
3.3	Tyre dimensions, rear		230x70	230x105
3.4	Castor wheel dimensions (diameter x width)		150x50	150x50
3.5	Number of wheels, front/rear (x=driven)		2+1x/4	2+1x/4
3.6	Track width (centre of tyres), load side	b10 (mm)	385	365
3.7	Track width (centre of tyres), drive side	b11 (mm)	550	550
Dimensions				
4.4	Lift height (see tables)	h3 (mm)	115	135
4.8	Seat height or platform height	h7 (mm)	145	145
4.9	Height of tiller arm (min./max.)	h14 (mm)	1157/1349	1157/1349
4.15	Fork height, fully lowered	h13 (mm)	85	85
4.19	Overall length	l1 (mm)	1839/2295	1962/2417
4.20	Length to fork face (includes fork thickness)	l2 (mm)	689/1145	812/1267
4.21	Overall width	b1/b2 (mm)	790	790
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50/165/1150	60/185/1150
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	550	550
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)	35	25
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise, platform up/down	Ast (mm)	2350/2784	2485/2921
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)	1911/2345	2031/2467
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2335/2771	2466/2904
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)	2109/2545	2229/2667
4.35	Turning circle radius	Wa (mm)	1669/2105	1809/2247
Performance				
5.1	Travel speed, with/without load	km/h	9,0/9,0 (12,0)1	8,0/8,0 (12,0)1
5.2	Lifting speed, with/without load	m/s	0,027/0,038	0,027/0,035
5.3	Lowering speed, with/without load	m/s	0,052/0,029	0,076/0,041
5.7	Gradeability, with/without load	%	10,0/20,0	9,0/20,0
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric
Electric motors				
6.1	Drive motor capacity (60 min. short duty)	kW	2.0	2.0
6.2	Lift motor output at 15% duty factor	kW	1,0 (10%)	1,2 (10%)
6.4	Battery voltage/capacity at 5-hour discharge	V /Ah	24/270-375	24/375-500
6.5	Battery weight	kg	240-295	315-390
Miscellaneous				
8.1	Type of drive control		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.

PBV20N



- Ast = Working aisle width
- Ast3 = Working aisle width ($b12 \leq 1000$ mm)
- $Ast = Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
- $Ast3 = Wa + l6 + a$
- Wa = Turning radius
- l6 = Pallet length
- x = Load wheel axle to fork face
- b12 = Pallet width
- a = Safety clearance = 2 x 100 mm



Ergonomic tiller arm



Built-in charger



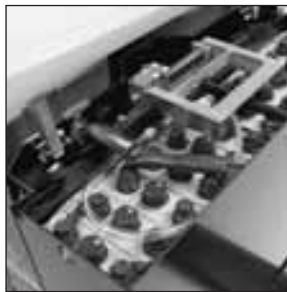
Large suspended platform



Creep speed function



Cushioned sidebars



High-capacity batteries



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.
- **Load sensing system** optimises drive wheel pressure on floor as load increases, to deliver outstanding traction and ramp performance.
- **High-capacity ventilation equipment** – on PBV25NH – allows non-stop use without overheating the drive unit and electrical systems, even in environments with high temperatures.
- **Floating drive unit** reduces vibration, for greater operator comfort and lower maintenance requirements.
- **Wider drive wheel** – on PBV25NH – means less wear and better grip.

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** means effective control and reduced brake wear.
- **Automatic braking** improves safety and control on ramps.

Electrical and control systems

- **Programmable controller** adjusts acceleration, travel speed and braking to suit the application and driver – for great versatility.
- **On-board diagnostics and fault memory folder** speed up servicing and help prevent damage.
- **High-capacity batteries** – 270-375 Ah standard and 375-500 Ah for PBV25NH – extend shifts.
- **Battery rollers and fast battery lock** – standard on PBV25NH – ensure rapid changeovers.

Operator environment and controls

- **Creep speed function and tiller arm lock bypass** are included as standard for maximum control and safety.
- **Large 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 comfort.
- **Clear display** alerts operators and service engineers to potential problems - helping to avoid damage and encourage maintenance.

Other features

- **Long service interval** reduces downtime and maintenance bills.
- **Rapid Access features** give quick and easy entry to all areas for checks and maintenance.
- **Dust-shielded load wheels** require less maintenance and replacement of components.

Options

- **Electric steering**
- **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)
- **Fixed platform with backrest or fixed side rests.**
- **Rollers for easy pallet entry**
- **Wide variety of fork dimensions**



Fixed platform option

when
reliability
is **everything**

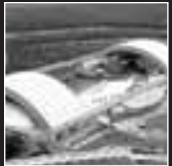
Developed for outstanding performance and genuine value for money, the awardwinning* range of Mitsubishi forklift trucks and warehouse equipment is built to a higher specification to maximize productivity and ensure utter reliability... whatever the application.

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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NOTE: 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. Mitsubishi follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.