

Ready to Perform To Your Applications



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PRESENTED BY

2.0 TON

POWER PALLET TRUCKS





STAND-ON **PBR20N Series**



Mitsubishi PBR20N Series

Powerful, Ergonomic, & Easy to Service The PBR20N is especially designed for horizontal transport of loads up to 2.0 ton, across the longer distances in your warehouse. Stand-on

Designed for Maximum Productiviy



Powerful AC drive motor and state-of-the-art electronics guarantee high productivity with quick acceleration, strong regenerative braking and a high driving speed even with nominal load. Each function can be programmed separately to the application needs and the operator's preference.

- Ergonomic, functional steering console for precise and comfortable manoeuvring.
- A narrow overall chassis width and a fully electronic steering system with limitless 360° steering make the PBR20N highly manoeuvrable.





The ergonomic layout of the controls on the console contributes to smooth and easy operation. The comfortable operator's compartment has a cushioned backrest and suspended floor, an arm rest is optional.

- Standard console display includes warning lights, drive direction indicator, hour meter and battery charge indicator.
- Rounded fork tips ensure smooth pallet handling.

The design of the PBR20N allows easy access to all the main components for fast service and maintenance. The controller with a tilting panel with gas spring for easy battery maintenance built-in diagnostics helps to reduce down time to minimum.



Broad selection of options

- Cold store modifications
- Built-in battery charger
- · Wide variety of fork dimensions
- Pallet entry and exit rollers
- Fork extensions 1450 2100 mm
- Adjustable arm rest
- Choice of drive wheels
- Inverted steering direction



Mitsubishi PBS20N Series

Fast, Efficient, Pallet Transport

For efficient transport of goods over longer distances, look no further than the strong, fast, controllable PBS20N sit-on powered pallet truck. With effortless, precise steering, ergonomic controlls and a comfortably seated operator, the PBSN promises constant productivity through the longest of shifts.



DRIVE

Powerful AC Motor means high drive speed and acceleration – even when loaded – plus smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.

STEERING SYSTEM

- 360° electronic 'fly-by-wire' steering offers precise turning with minimal effort, even at high speeds.
- Progressive steering allows easy manoeuvring at low speeds and steady control when moving fast.



HYDRAULICS

Smooth hydraulics ensure jolt-free fork movement for careful handling of loads.

BRAKES

 Regenerative braking gives effective control, reduced brake wear and longer shift life

Electrical and Control Systems

- Large battery compartment accommodates high-capacity batteries (up to 500 Ah).
- PIN code start-up with driver-specific settings is included as standard to prevent unauthorised or inppropriate use.
- Programmable controller adjusts acceleration, travel speed and braking to suit the application and operator for great versatiltiy.
- Battery roller system is fitted as standard for rapid exchanges.
- Battery discharge indicator and lift cut-out are provided for battery protection.
- Automatic, stepless speed reduction system assures safe, controlled cornering.

Operator's Compartment

- Ergonomic operator comparment with adjustable armrest and carefully positioned controls reduces driver fatigue and increases precision.
- Full-suspension, fully adjustable seat with optional hip restraints and belt keeps driver safe and comfortable through the longest of shifts.
- Load weight indicator is specified as standard to avoid exceeding safe capacity.
- Clear LCD display keeps operator and service engineer fully informed helping to avoid damage and encourage maintenance.
- User-friendly operator menu gives easy-to-follow instructions and allows operator to tune truck to own preference.
- Robust chassis offers exceptional durability and driver protection.
- High-visibility design maximises view of fork tips and working area.
- **High stability** is ensured by low centre of gravity and use of two castor wheels next to the drive wheel in addition to the two load wheels.

Forks

Overhead guard

• List bracket or PC support

· Key switch instead of start/stop button

 Rounded fork tips ensure smooth pallet entry/exit and make it easier to enter the pallet at an angle.



MITSUBISH

SMOILEGILIOUS

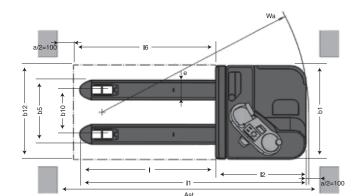
PBR20N

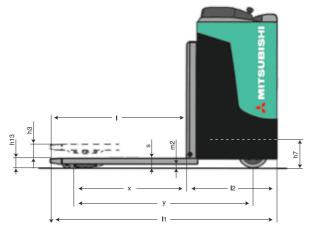
			/A	
Char	acteristics			
1	Manufacturer (abbreviation)			Mitsubishi
2	Manufacturer's model designation			PBR20N
3	Power source: (battery, diesel, LP gas, petrol)			Battery
4	Operator type: pedestrian, (operator)-standing, -seated			Stand-on
5	Load capacity	Q	(kg)	2000
6	Load centre distance	С	(mm)	600
7	Load wheel axle to fork face (forks lowered)	Х	(mm)	961
8	Wheelbase	٧	(mm)	1525
Weig	ht			
9	Truck weight with nominal load & maximum battery weight		kg	2880
10	Axle loadings with nominal load & maximum battery weight, drive/load side		kg	1800 / 1080
11	Axle loadings without load & with maximum battery weight, drive/load side		kg	220 / 660
Whee	els, Drive Train			
12	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/Vul
13	Tyre dimensions, drive side			250 x 100
14	Tyre dimensions, load side			85 x 75
15	Castor wheel dimensions (diameter x width)			150 x 48
16	Number of wheels, drive/load side (x=driven)			1x + 1/4
17	Track width (centre of tyres), drive side	b10	(mm)	375-495
18	Track width (centre of tyres), load side	b11	(mm)	457
	nsions	,		
19	Lift height (see tables)	h3	(mm)	200
20	Seat- or stand height	h7	(mm)	239
21	Height of tiller arm / steering console (min./max.)	h14	,	1365
22	Fork height, fully lowered	h13	(mm)	85
23	Overall length	11	(mm)	1915
24	Length to fork face (includes fork thickness)	12	(mm)	763
25	Overall width	b1/b2	(mm)	790
26	Fork dimensions (thickness, width, length)	s/e/I	(mm)	50/165/1150
27	Outside width over forks (minimum/maximum)	b5	(mm)	540-680
28	Ground clearance at centre of wheelbase (forks lowered)	m2	(mm)	35
29a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)	2396
29b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	(mm)	1989
30a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2416
30b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	As3	(mm)	2189
31	Turning circle radius	Wa	(mm)	1750
Perfo	rmance			
32	Travel speed, with/without load		km/h	8/11
33	Lifting speed, with/without load		m/s	0.03/0.04
34	Lowering speed, with/without load		m/s	0.07/0.02
35	Gradeability, with/without load		%	6/15
36	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric
Elect	ric motors	·		
37	Drive motor capacity (60 min. short duty)		kW	2.2
38	Lift motor output at 15% duty factor		kW	1.2
39	Battery voltage/capacity at 5-hour discharge		V/Ah	24/375-465
40	Battery weight		kg	280-355
Misc	ellaneous		, in the second	
41	Type of drive control			Stepless
42	Noise level, mean value at operator's ear (EN 12053)		dB(A)	67

Continuing improvement may lead to changes in these specifications.

Ast = Wa + R + aAst = Working aisle width Wa = Turning radius a = Safety clearance = 2 x 100 mm

 $R = \sqrt{(16 - x)^2 + (b12 / 2)^2}$





PBS20N

	acteristics			NAME OF THE PARTY
	Manufacturer (abbreviation)			Mitsubishi
2	Manufacturer's model designation			PBS20N
}	Power source: (battery, diesel, LP gas, petrol)			Battery
	Operator type: pedestrian, (operator)-standing, -seated			Sit-on
5	Load capacity	Q	(kg)	2000
i	At load centre	С	(mm)	600
7	Load wheel axle to fork face (forks lowered)	X	(mm)	961
	Wheelbase	l y	(mm)	1674
Veig	ht			
	Truck weight with nominal load & battery		kg	2955
0	Axle loadings with nominal load & battery, drive/load side		kg	1125/1830
1	Axle loadings without load & with battery, drive/load side		kg	735/220
Vhe	els, Drive Train			
2	Tyres: P=Polyurethan, PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/Vul
3	Tyre dimensions, front			85 x 75
4	Tyre dimensions, rear			250 x 100
5	Castor wheel dimensions (diameter x width)			150 x 48
6	Number of wheels, front/rear (x=driven)			1x + 2/4
7	Track width (centre of tyres), load side	b10	(mm)	354-514
8	Track width (centre of tyres), drive side	b11	(mm)	685
	ensions		,	
9	Height with mast lowered (see tables)	h1	(mm)	1335
0	Lift height (see tables)	h3	(mm)	115
1	Seat height or platform height	h7	(mm)	400
2	Fork height, fully lowered	h13	(mm)	85
3	Overall length	11	(mm)	2100
24	Length to fork face (includes fork thickness)	12	(mm)	950
25	Overall width	b1/b2	(mm)	1050
26	Fork dimensions (thickness, width, length)	s /e / I	(mm)	50/165/1150
27	Outside width over forks (minimum/maximum)	b5	(mm)	520-680
8	Ground clearance at centre of wheelbase, with load (forks lowered)	m2	(mm)	35
.o .9a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)	2751
9b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	(mm)	2189
19D 10a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	, ,	2616
	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	ASI As3	(mm)	2389
0b			(mm)	
1 orf	Turning circle radius	Wa	(mm)	1950
	ormance		lana/h	8/11
2	Travel speed, with/without load		km/h	
3	Lifting speed, with/without load		m/s	0.03/0.04
4	Lowering speed, with/without load		m/s	0.07/0.02
5	Gradeability, with/without load		%	6/15
6	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric
_	tric motors		1.34/	0.0
7	Drive motor capacity (60 min. short duty)		kW	2.2
8	Lift motor output at 15% duty factor		kW	1.2
9	Battery voltage/capacity at 5-hour discharge		V/Ah	24/375-465
0	Battery weight		kg	305/395
	ellaneous			
1	Type of drive control			Stepless
2	Noise level, mean value at operator's ear		dB(A)	66

Continuing improvement may lead to changes in these specifications.

 $\begin{array}{ll} \mbox{Ast} &=& \mbox{Working aisle width} \\ \mbox{Ast3} &=& \mbox{Working aisle width (b12 $\le $1000 mm)} \\ \end{array}$

Ast = Wa + $\sqrt{(16 - x)^2 + (b12 / 2)^2 + a}$ Ast3 = Wa + I6 + a

Wa = Turning radius

16 = Pallet lengthx = Load wheel axle to fork face

b12 = Pallet width

a = safety clearance = 2 x 100 mm

h1 Height with mast loweredh2 Standard free lift

h3 Lift height

h4 Height with mast raised

h5 Full free lift

Q Lifting capacity, rated load

c Load centre (distance)

