MOVE THE WORLD FORWARD MITSUBISHI HEAVY INDUSTRIES GROUP

PREMIA EX

PBR20-30N2 Series

STAND-IN POWER PALLET

2.0 - 3.0 tonnes

POWERFUL PERFORMANCE EXCEPTIONAL ERGONOMICS

For horizontal transport over medium-to-long distances, ensure your operators have the comfort and safety benefits of a stand-in power pallet. The ergonomic controls, comfortable operator compartment, and easy entry and exit make longer shifts stress-free and far less fatiguing for the driver.

SPECIFICATIONS

PBR20N2
PBR30N2

WHEN RELIABILITY IS EVERYTHING...

MITSUBISHI FORKLIFT TRUCKS

PREMiA EX

PBR20-30N2 Series

STAND-IN POWER PALLET

2.0 – 3.0 tonnes

The stand-in power pallet design contains the operator completely within the truck, keeping them protected by the chassis. The stand-in concept also allows for a highly compact footprint. Along with the incredibly tight turning circle, this makes narrower aisle layouts much more feasible.

Engineered for optimum efficiency, with high acceleration and fast travel speeds, PREMiA EX offers operators consistently smooth, stable performance. And with straightforward servicing and legendary Mitsubishi Forklift Trucks reliability, PREMiA EX will keep downtime to a minimum.

BRAKES

- **High-efficiency regenerative braking**
  This gives more effective control and reduces brake wear.

DRIVE

- **Powerful AC drive motor**
  High torque for greater efficiency. No carbon brushes mean lower servicing requirements.
- **Intelligent Cornering System**
  The truck senses the angle of a turn and reduces speed early for maximum stability and accurate, positive cornering.
- **Standard speed can be increased to 12km/h**
  Higher productivity is available if needed. (Option)

ELECTRICAL AND CONTROL SYSTEMS

- **Built-in Li-ion battery**
  Fast opportune charging removes the need for extra batteries and allows 24/7 operation. (Junior chassis only) (Option)
- **Combi controller lift system**
  Fingertip control for speed regulated lifting and proportional valve for lowering.

FORKS

- **Tapered and angled fork tips**
  Access to pallets is easier, quicker and safer.

FRAME AND BODY

- **Robust chassis**
  Built for intensive operations, with great inherent strength and high residual capacities.
- **Strong battery lock**
  Simple and safe. Battery lock can only be unlocked when battery plug is disconnected. Battery plug can only be reconnected if battery is locked.
- **Excellent ground clearance**
  Easy and safe handling on loading docks and ramps.
- **RapidAccess features**
  These allow quick and easy entry to all areas for checks and maintenance.
- **Waterproof wiring and connectors**
  Sealed compartment prevents system failure and corrosion from water and dust.

OPERATOR COMPARTMENT AND CONTROLS

- **Optical Presence Sensor**
  This locks all movement of the truck and its mast if the operator is not present. Driver can lift foot slightly without brakes automatically engaging, reducing muscle stress.
- **Plenty of storage space**
  Storage for on-board essentials, putting clipboard, mobile phone, drinks bottle and pen all within easy reach.
- **Ultra-low step height**
  Operators stay more productive throughout shifts thanks to easy on/off access.
- **Ergo Forks Trailing Control**
  When working with forks trailing, an additional speed control allows an operator to stand in a more comfortable and ergonomic forward-facing position while travelling. (Option)

STEERING SYSTEM

- **Fully adjustable steering wheel**
  Height and distance are ergonomically adjustable to reduce strain and lower risk of RSI.
- **360-degree steering**
  The operator can keep the truck in constant motion - saving seconds on every turn. (Option)
- **Dynamic Power Steering**
  Smooth, precise control with minimum effort offering maximum comfort and stability at top speed.

For more information on PREMiA EX please visit our website

mft2.eu/premiaexpbs

PREMIA EX

AVAILABLE LI-ION SYSTEMS

MAKE YOUR FORKLIFT GO EVEN FURTHER

Tried, tested and proven in the field, lead-acid batteries have been the long-standing top choice for companies employing electric lift trucks. However, with long charging times, demanding maintenance requirements, the need for extra batteries and high risk of operator misuse, it can be a challenge. Fortunately, there's a new battery system on the block: Li-ion from Mitsubishi Forklift Trucks.

Designed to meet your business' demands - including multi-shift (24/7) operations - without the need for spare batteries, our high-performance Li-ion battery system is up to 30% more efficient than lead-acid counterparts. Plus, it's virtually error-proof, thanks to its ultra-low-maintenance design.

- **Gas-emission free and space efficient operation**
  with no need for air ventilation and/or closed charging room.
- **Exceptional high battery & charger efficiency**
  due to state-of-the-art technology, delivers up to 30% more power efficiency than lead-acid batteries.
- **Maintenance free design**
  eliminates the need for daily checks and water re-fills by operator, and reduces the risk of operators damaging cells.
- **No spare batteries and charging room required**
  saves space and costs in multi-shift application to maximise profitability.
- **Quick charge capabilities**
  mean that just 15 minutes is all your battery needs to keep your truck going a few more hours. (It only takes from 1 hour to fully charge a completely discharged battery.)
- **Higher sustained voltage**
  ensures more consistent lifting and driving performance, which is particularly noticeable towards the end of a shift.
- **Active protection componentry**
  continuously monitors the system, highlighting potential issues, including misuse.
- **High safety features include**
  circuit protection, deep-discharge and overcharge protection, individual cell temperature and voltage monitoring.
- **On-the-go performance and monitoring**
  is possible thanks to the system's integrated monitoring system with easy-to-read display unit.
- **Wide choice of battery and charger capacities**
  so the most suitable power supply can be matched to the exact requirements of a specific application.

THE MOST COST-EFFECTIVE SOLUTION

When you factor in the extensive lifetime, no need for maintenance, higher power efficiency, and up to 30% savings, a Li-ion battery is most often the choice that saves money and offers peace of mind.

For more information on Li-ion please visit our website

mft2.eu/lion

VDI - PERFORMANCE & DIMENSIONS

	CHARACTERISTICS				
1.1	Manufacturer			Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
1.2	Manufacturer's model designation			PBR20N2	PBR30N2
1.3	Power source			Battery	Battery
1.4	Operator type			Stand-in	Stand-in
1.5	Load capacity	Q	kg	2000	3000
1.6	Load center distance	c	mm	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	975	975
1.9	Wheelbase	y	mm	1547 [1]	1547 [1]
	WEIGHT				
2.1b	Truck weight without load, with maximum battery weight		kg	985	1095
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1140 / 1845	1390 / 2705
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	770 / 215	825 / 270
	WHEELS, DRIVE TRAIN				
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side		mm	250 × 105	250 × 105
3.3	Tyre dimensions, load side		mm	85 x 70	85 x 70
3.4	Castor wheel dimensions (diameter x width)		mm	150 x 55	150 x 55
3.5	Number of wheels, load / drive side (x = driven)			1 × + 2/ 4	1 × + 2 / 4
3.6	Track width (center of tyres), drive side	b10	mm	662	662
3.7	Track width (center of tyres), load side	b11	mm	385	385
	DIMENSIONS				
4.4	Lift height	h3	mm	135	135
4.7	Height to top of overhead guard	h6	mm	2310 opt	2310 opt
4.8	Seat- or stand height	h7	mm	230	230
4.15	Fork height, fully lowered	h13	mm	88	88
4.19	Overall length	l1	mm	1923 [1]	1923 [1]
4.20	Length to fork face	l2	mm	773 [1]	773 [1]
4.21	Overall width	b1/b2	mm	940	940
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	60 / 175 / 1150	60 / 175 / 1150
4.25	Outside width over forks (minimum / maximum)	b5	mm	560	560
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	25	25
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	2381 [2]	2381 [2]
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	1997	1997
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	2397 [3]	2397 [3]
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	2192	2192
4.35	Turning radius	Wa	mm	1705 [4]	1705 [4]
	PERFORMANCE				
5.1	Travel speed, with / without load		km/h	10.0 / 10.0	9.0 / 9.0
5.2	Lifting speed, with / without load		m/s	0.07 / 0.09	0.06 / 0.10
5.3	Lowering speed, with / without load		m/s	0.12 / 0.09	0.10 / 0.07
5.7	Gradeability, with / without load		%	6.0 / 15.0	6.0 / 15.0
5.8	Maximum gradeability with / without load		%	14 / 28.4	11 / 28.4
5.9	Acceleration time (10 metres) with / without load		s	7.0 / 6.0	7.5 / 6.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
	ELECTRIC MOTORS				
6.1	Drive motor capacity (60 min. short duty)		kW	2.7	2.7
6.2	Lift motor output at 15% duty factor		kW	2.2 (5%)	2.2 (5%)
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 375-775	24 / 375-775
6.5	Battery weight		kg	330 - 610	330 - 610
6.6b	Energy consumption according to VDI 60 cycle		kWh/h	0.449	0.567
	MISCELLANEOUS				
8.1	Type of drive control			AC	AC
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)	63.9	64.1
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)	68.3 / 64.9 / 47.4	68.3 / 65.9 / 47.4

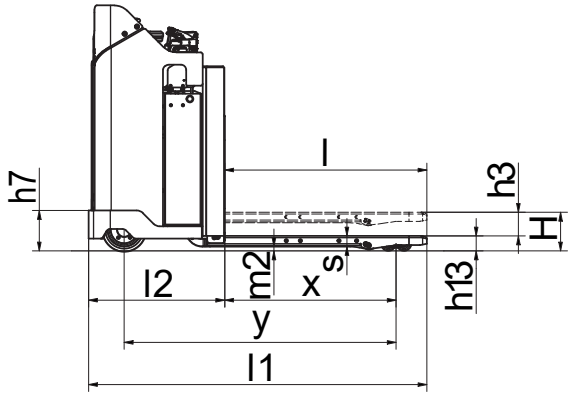
1) When Senior/BC775 then add 104 mm
2) 2482 mm SN/BC775
3) 2498 mm SN/BC775
4) 1806 mm SN/BC775

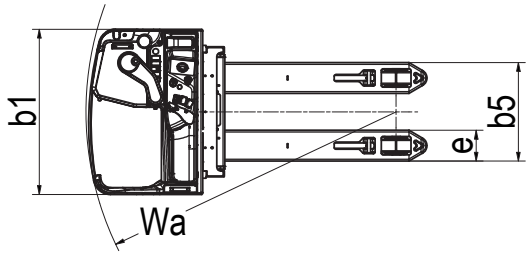
PREMIA EX

PBR20 - 30N2

STAND-IN POWER PALLET

2.0 - 3.0 tonnes





Ast = Working aisle width
Ast3 = Working aisle width (b12 <1000 mm)
Ast = Wa + $\sqrt{(l6 - x)^2 + (b12 / 2)^2}$ + a
Ast3 = Wa + l6 -x +a

Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b12 = Pallet width
a = Safety clearance = 2 x 100 mm

STANDARD EQUIPMENT & OPTIONS

PREMIA EX

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● = Standard
● = Option

	PBR20N2	PBR30N2
GENERAL		
Standard display incl. hour meter and battery indicator	●	●
Key switch entry	●	●
Electric power steering	●	●
Speed regulated lift motor and proportional valve for lowering	●	●
Tandem load wheels Vulkollan	●	●
Adjustable armrest	●	●
Adjustable steering wheel	●	●
Storage compartment under armrest	●	●
Writing desk with paper clip	●	●
Battery rollers	●	●
Chill store design, down to -10°C	●	●
POWER SOURCE		
Li-ion batteries*	●	●
Lead acid batteries	●	●
ENVIRONMENT		
Cold store design, 0C° to -30C°	●	●
DRIVE, LIFT CONTROLS		
Height adjustable steering wheel	●	●
Fingertip controls for lifting/lowering	●	●
WHEEL OPTIONS		
Vulkollan	●	●
Tractothan	●	●
Super grip	●	●
OTHER OPTIONS		
Ergo Forks Trailing Control	●	●
360-degree steering	●	●
Multifunction display incl. BDI & hour meter, PIN code login(100 codes) and graphic icons	●	●
Foldable seat	●	●
Load backrest	●	●
Key switch entry (in combination with multifunctionn display)	●	●
Overhead guard	●	●
Panoramic ProVision roof	●	●
12V DC Power Socket	●	●
5 V USB socket	●	●
Accessory rack	●	●
Writing desk incl. RAM C holder	●	●
Accessory rack holder RAM system size C	●	●
Accessory rack holder RAM system size C, 2 pcs	●	●
Accessory rack holder RAM size D	●	●
Working lights LED	●	●
Increased drive speed	●	●
Special RAL colour	●	●

* Li-ion battery option is available in selected regions.

Adjustable armrest and steering wheel

Storage compartment under armrest

Multifunction display

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.

Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

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

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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CESM2161 (03/22)

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MITSUBISHI FORKLIFT TRUCKS