

MOVE THE WORLD FORWARD  MITSUBISHI
HEAVY
INDUSTRIES
GROUP

VANTIA (3.0 - 5.0 TONS)



TOW TRUCKS

TBR30-50N2 Series

WHEN
RELIABILITY IS
EVERYTHING...

 **MITSUBISHI**
FORKLIFT TRUCKS

HARNESS THE POWER...

MAXIMISE YOUR POTENTIAL

When it comes to pulling power, nothing quite compares to our **VANTIa** range of tow tractors. Strong, yet super smart and precise, it's the tow tractor you need to get the job done... wherever and whatever that job may be.

OPERATOR ENVIRONMENT AND CONTROLS

- **Flying start technology** shortens acceleration time for ultimate picking productivity.
- **Super-grip floor** is non-slip ensuring operators are safe, for confident operations.
- **Triple-suspension floating floor** with sideways dampening and advanced cushioning, reduces micro-vibrations for exceptional operator comfort.
- **Perfectly-angled footrest** ensures optimal positioning of foot and ankle for drivers of all heights.
- **Easy-access platform** features low step height and chamfered edges – minimising trip hazards for easy on/ off access.
- **Next generation Maxius steering wheel** absorbs vibrations and shocks to ensure class-leading ergonomics.
- **Optional clear colour display** alerts operators and service engineers to potential problems: avoiding damage, while enhancing safety and encouraging good maintenance.
- **Automatic tow coupling (optional)** immediately locks the truck and trailer once they are positioned, while an additional manual decoupling option enables release without leaving the operator compartment.
- **Manual tow coupling** with versatile and adjustable pin for fast and easy trailer handling.

BRAKES

- **Automatic speed reduction** at corners improves safety.
- **Regenerative braking** gives effective control, with no brake wear, and extends shift life.



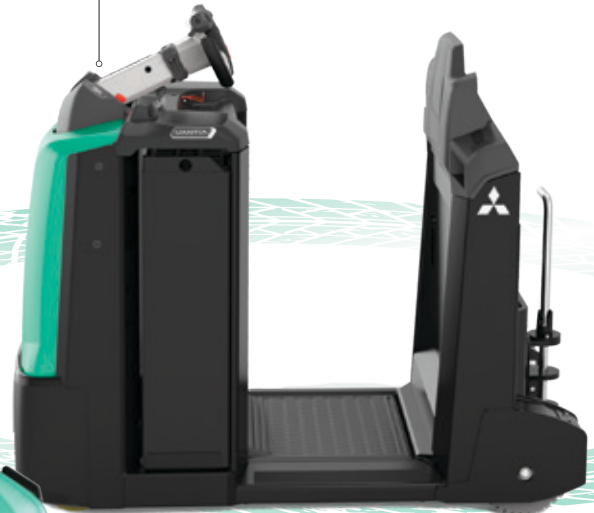
ELECTRICAL AND CONTROL SYSTEMS

- **Full electronic steering** with no steering wheel kickback gives precise control for optimum productivity, efficiency and safety.



STEERING SYSTEM

- **Advanced electric steering** allows precise control at all speeds, with automatic speed reduction in curves and automatic drive wheel centering.
- **Small turning circle** together with responsive steering and compact chassis results in exceptional manoeuvrability.



DRIVE

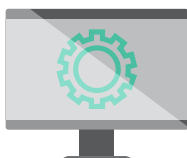
- **Class-leading energy efficiency** (14% lower than nearest competitor) ensures running costs are kept to a minimum.
- **Powerful drive motor** provides excellent traction and adjustable acceleration, deceleration and brake force, for smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.
- **Sensitive Drive System (SDS)** senses faster or slower operator control movements and adjusts truck performance accordingly, contributing to safety and driver performance.
- **Adaptive steering system** ensures truck performance matches operator needs – whether travelling in reverse or at speed – for calm, smooth and precise operations.

FRAME AND BODY

- **Robust design** benefits from extensive testing - including safety certification - for lower service costs and enhanced safety.

OTHER FEATURES

- **Rapid access features** give quick and easy entry to all areas for checks and maintenance.
- **600 hour service interval** reduces downtime and service costs.

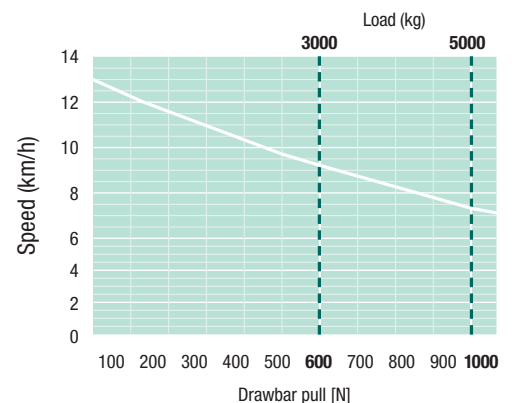


SPECIFICATIONS

CHARACTERISTICS					
1	Manufacturer		Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks	
2	Manufacturer's model designation		TBR30N2	TBR50N2	
3	Power source		Battery	Battery	
4	Operator type		Stand-on	Stand-on	
5	Load capacity	Q	kg	3000	5000
6	Rated drawbar pull	F	(N)	600	1000
7	Wheelbase	y	mm	1120	1120
WEIGHT					
8	Truck weight without load, with maximum battery weight		kg	1106	1106
9	Axle loadings without load & with maximum battery weight, drive / load side		kg	616 / 490	616 / 490
WHEELS, DRIVE TRAIN					
10	Tyres: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive / load side			Vul/ Vul	Vul/ Vul
11	Tyre dimensions, drive side		mm	ø250	ø250
12	Tyre dimensions, load side		mm	ø250	ø250
13	Number of wheels, load/drive side (x=driven)			2/ 1x	2/ 1x
14	Track width (center of tyres), load side	b11	mm	650	650
DIMENSIONS					
15	Height	h1	mm	1173	1173
16	Seat- or stand height	h7	mm	123	123
17	Coupling height	h10	mm	155 ¹⁾	155 ¹⁾
18	Overall length	l1	mm	1450	1450
19	Overall width	b1/b2	mm	800	800
20	Outside width over forks (minimum/maximum)	b5	mm	794	794
21	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	50	50
22	Turning radius	Wa	mm	1306	1306
PERFORMANCE					
23	Travel speed, with/without load		km/h	9.0 / 13.0 ²⁾	7.0 / 13.0 ²⁾
24	Maximum drawbar pull with/without load		N	–	–
25	Gradeability, with/without load		%	6 / 15	4 / 15
26	Service brake			Electric	Electric
ELECTRIC MOTORS					
27	Drive motor capacity (60 min. short duty)		kW	2.6	2.6
28	Battery voltage/capacity at 5-hour discharge		V/Ah	24/ 465-620	24/ 465-620
29	Battery weight		kg	366 - 493	366 - 493
30	Energy consumption according to EN 16796		kWh/h	0.92	1.23
MISCELLANEOUS					
31	Type of drive control			Stepless	Stepless
32	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)	69	69
33	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)	73 / - / -	73 / - / -
34	Whole-body vibration (EN 13 059:2002)			0.9	0.9
35	Hand-arm vibration (EN 13 059:2002)			–	–
36	Towing coupling design / DIN type, ref.			–	–

1) Other coupling heights available

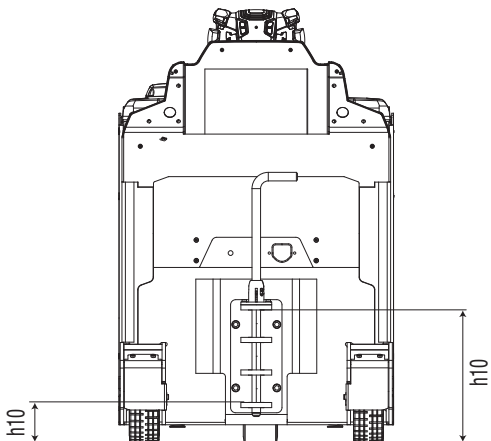
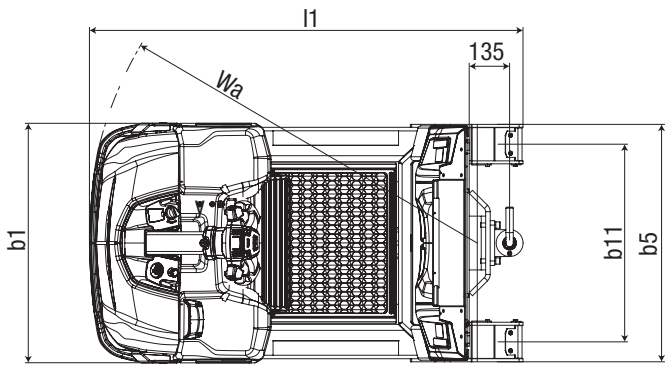
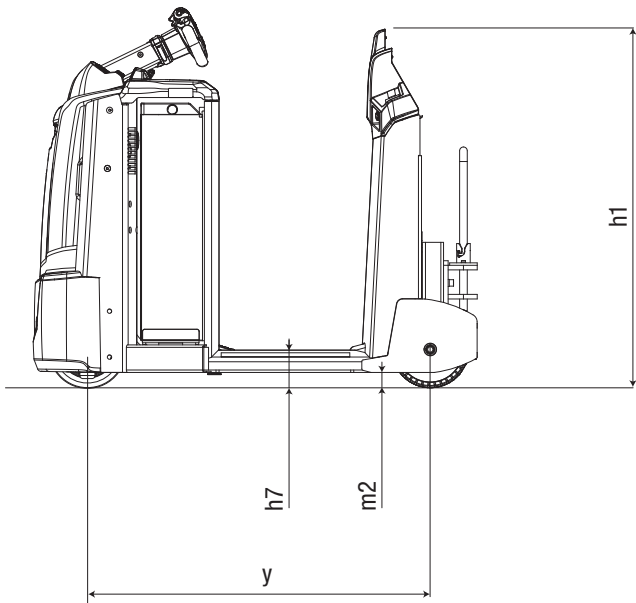
2) See drive speed chart



Continuing improvement may lead to changes in these specifications.

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TBR30 / 50N2

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STANDARD EQUIPMENT & OPTIONS

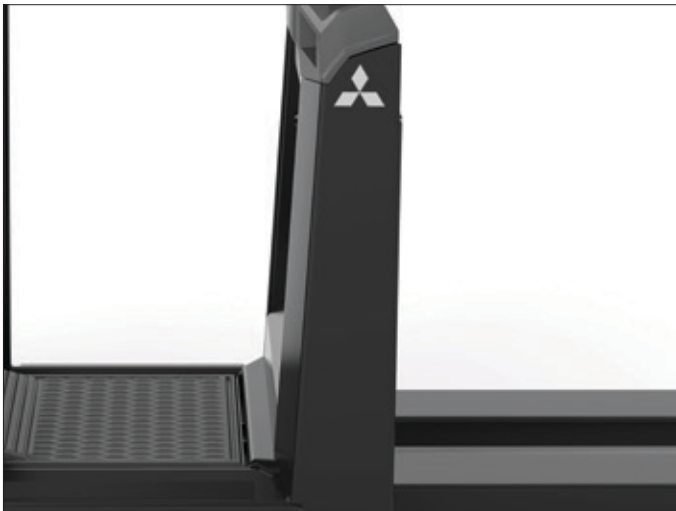
● = Standard

▲ = Option

	TBR30N2	TBR50N2
GENERAL		
Multifunctional steering wheel (electric 200°)	●	●
Power ON/OFF by Key switch	●	●
Hourmeter and BDI	●	●
ECO/PRO mode	●	●
High drive speed 13 km/h (without load)	●	●
Drive speed reduction in curves	●	●
Maximum drive speed adjusted according to load weight	●	●
Floor mat acting as dead man's pedal	●	●
Crane battery change	●	●
Polyurethane wheels	●	●
Suspended operator's platform	●	●
Hill hold	●	●
Automatic parking brake	●	●
POWER SOURCE		
Lead-acid battery	▲	▲
TRAILER COUPLING		
Manually operated plug coupling, pin diameter 25 mm	●	●
Manually operated plug coupling, pin diameter 22 mm	▲	▲
Automatic coupling, pin diameter 25 mm	▲	▲
Automatic coupling with ergonomic unlocking handle, pin diameter 25 mm	▲	▲
TRAILER INTERFACE		
Electrical 4-pin Trailer socket connection of trailer	▲	▲
Electrical 7-pin Trailer socket connection of trailer	▲	▲
Auxiliary hydraulics for hydraulic coupling of trailer	▲	▲
ENVIRONMENT		
Cold store design, 0°C to -35°C	▲	▲
DRIVE CONTROLS		
Walk beside drive button in backrest, FWD/BWD	▲	▲
SAFETY		
Blue point safety light towards driving direction (forks trailing)	▲	▲
Driving light towards driving direction (forks trailing)	▲	▲
Rear working light	▲	▲
Wide rear view mirrors	▲	▲
Warning strobe, yellow	▲	▲
Drive alarm (programmable)	▲	▲
Fire extinguisher	▲	▲
WHEEL OPTIONS		
Polyurethane traction and load wheels	●	●
Power friction traction wheel	▲	▲
Solid rubber traction wheel	▲	▲
Treaded Super-Elastic rear wheels	▲	▲
Solid rubber rear wheels	▲	▲
OUTLOOK		
Special RAL colour on front machinery steel cover	▲	▲
OTHER OPTIONS		
PIN code access with BDI display	▲	▲
PIN code access with colour display	▲	▲
Colour display without PIN code access	▲	▲
Accessory rail in front	▲	▲
Scanner holder	▲	▲
Equipment holder (RAM mountings)	▲	▲
Wrapping holder	▲	▲
Rear grab handle on backrest	▲	▲
Sideways battery change	▲	▲
Clipboard, A4	▲	▲
Front storage boxes	▲	▲
Storage folder on bottom of the platform	▲	▲
Back cushion, tiltable to seat position for back and feet rest. Adjustable in height.	▲	▲
Power supply, 12 V	▲	▲
Power supply, USB 5 V	▲	▲
Heavy duty front nylon strip covered bumper	▲	▲
Raised front guard plate	▲	▲

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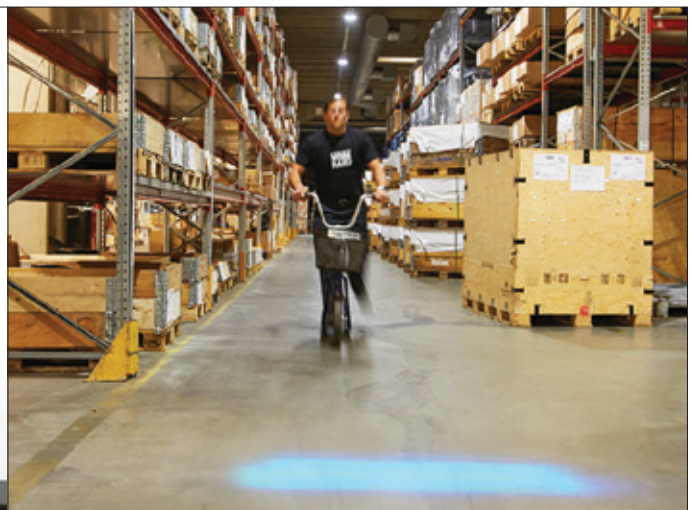
Multifunctional steering wheel.



Automatic coupling with ergonomic unlocking handle.



Suspended operator's platform.



Blue point safety light towards driving direction (forks trailing).



Manually operated trailer coupling.



Fire extinguisher.

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.sg

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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