MITSUBISHI FORKLIFT TRUCKS

VELIA EM

SECOND LEVEL ORDER PICKERS

OPBL10P Series 1.0 TON

Ready to Perform
To Your Applications

www.mitforklift.com.sg

FMIT0149 (09/18)

PRESENTED BY :

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 Mitsubishi forklift truck dealers. Mitsubishi Forklift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

MITSUBISHI FORKLIFT TRUCKS

EXTRAORDINARY PERFORMANCE

Take its **ultra-low step height.** At just **160 mm**, it's up to **45% lower** than some competitors. But, more than that, it significantly reduces your operator's efforts, as well as the risk of slips, trips and falls.

And then there's **VELiA EM's wide entry. At 603 mm wide**, it can accommodate drivers of all sizes in comfort.

Frame and Body

- **MaxVision** (option not standard) mast and overhead guard maximises operator field of vision for increased productivity and safety.
- **Robust design** ensures smooth, stable ride and excellent picking performance.
- **Wraparound steel bumper** increases durability and operator protection.

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.
- **ECO mode** reduces energy consumption – without compromising on performance.
- **High-speed option increases speed from 9 to 12 km/hr.**

Powerful AC Motor

Electrical Control Systems

- **Performance setting** – including pre-set modes – allows instant programming without special tools.
- **On-board diagnostics and fault memory folder** keep operator and service engineer aware of any problems, speed up servicing and help prevent damage.

GET THE JOB DONE WITH GREATER PRODUCTIVITY

MaxPro side-access gates with automatic sensors

(standard with EasyLift design and optional with 1200 mm lift without EasyLift design) prevent unsafe use of truck with gates open at heights above 1200 mm.

Easy-access Opera tor's Compartment

OPERATOR ENVIRONMENT & CONTROLS

- **Class-leading step height (just 160 mm) offers** easy on/off access to keep operators alert and productive throughout shifts.
- **Easy-access operator's compartment** is spacious and features widest entry (603 mm) in its class for faster mounting and dismounting.
- **EasyLift design** (standard with 1800 mm model and optional with 1200 mm model) allows operators to raise/lower the pallet to comfortable heights during picking and retrieving, reducing the risk of back strain.
- **High-visibility cabin** maximises forward views for reduced damage risk, while increasing operator comfort and efficiency.
- **Operator Presence Sensor** covers a wide area – allowing for free operator movement, while eliminating a common trip hazard.
- **Super-grip floor** is non-slip ensuring operators are safe, for confident operations.

EasyLift Design

Rapid battery access

Robust battery rollers

- **PIN-code access** for up to 100 users is possible – preventing unauthorised use.
- **Battery discharge indicator** keeps operators aware of battery discharge levels – ensuring high-efficiency operations and long battery life.
- **Easy-access storage compartments** ensure pickers have everything they need to work productively within easy reach.
- **Ergonomic steering wheel** offers smooth controlled movement to keep operators alert and operations precise.

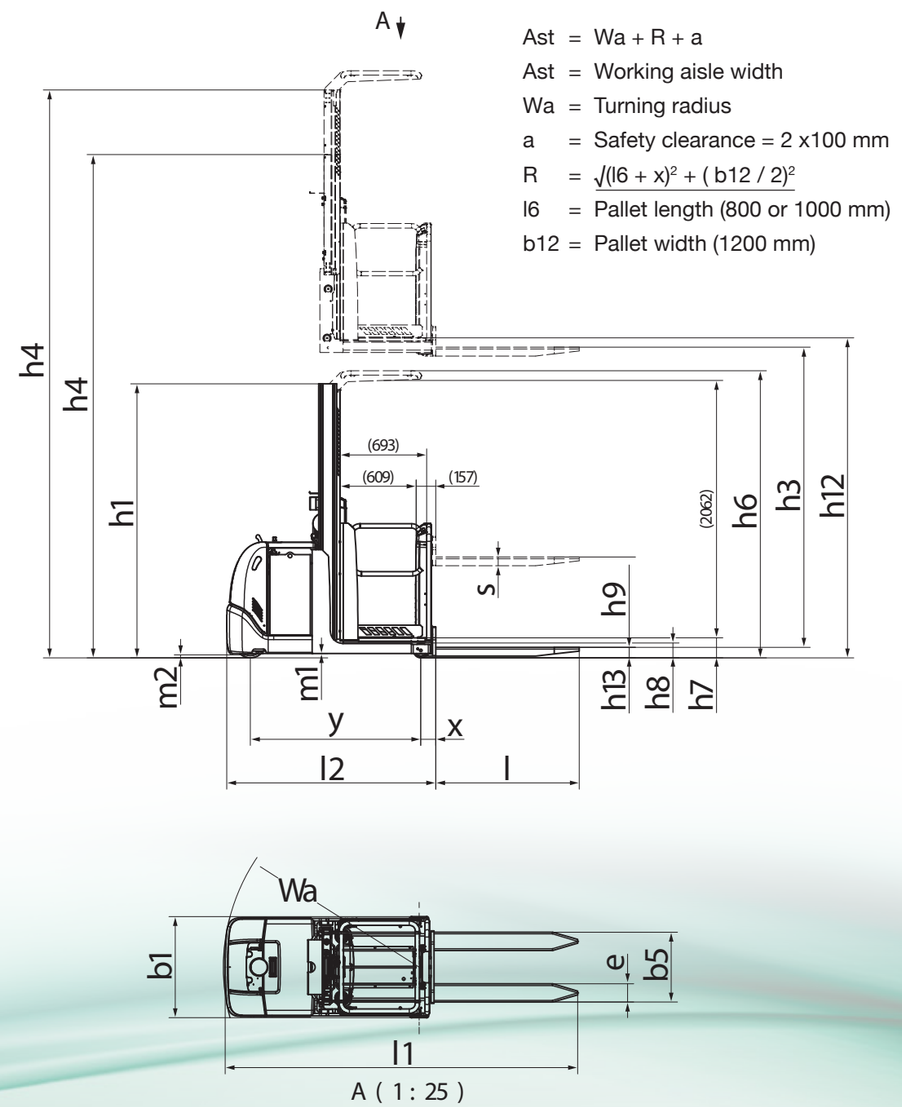
OTHER FEATURES

- **Rapid battery access** reduces time needed for daily checks and maintenance – for maximum uptime.
- **Robust battery rollers** speed up changeovers – ensuring pickers can focus on their job.

VDI
PERFORMANCE & DIMENSIONS

	Characteristics			without EasyLift	with EasyLift
1.1	Manufacturer			Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation			OPBL10P	OPBL10P
1.3	Power source: (battery, diesel, LP gas, petrol)			Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated			Stand-on	Stand-on
1.5	Load capacity[1]	Q	kg	1000	1000
1.6	Load center distance	c	mm	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	100	120
1.9	Wheelbase	y	mm	1371	1371
	Weight				
2.1a	Truck weight with load, with minimum battery weight		kg	2450	2600
2.2a	Axle loadings with nominal load & minimum battery weight, drive/load side		kg	430 / 2020	440 / 2160
2.3a	Axle loadings without load & with minimum battery weight, drive/load side		kg	950 / 500	950 / 650
	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	250 × 105	250 × 105
3.3	Tyre dimensions, load side		mm	120 × 115	120 × 115
3.5	Number of wheels, load/drive side (x=driven)			2 / 1x	2 / 1x
3.7	Track width (center of tyres), load side	b11	mm	674	674
	Dimensions				
4.2	Height with mast lowered	h1	mm	1630	2196
4.4	Lift height (without h9)	h3	mm	1040	1640
4.5	Height with mast extended	h4	mm	2670	3790
4.7	Height to top of overhead guard	h6	mm	2300	2300
4.8	Seat- or stand height	h7	mm	160-1200	160-1800
4.10	Height of support legs	h8	mm	115	115
4.11	Supplementary lift	h9	mm	-	723
4.14	Platform height, raised	h12	mm	1200	1800
4.15	Fork height, fully lowered	h13	mm	90	90
4.19	Overall length	l1	mm	2805	2825
4.20	Length to fork face	l2	mm	1655	1675
4.21	Overall width	b1	mm	810	810
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	70 / 147 / 1150	70 / 147 / 1150
4.25	Outside width over forks (minimum/maximum)			450-700	450-700
4.32	Ground clearance at center of wheelbase (forks lowered)	m2	mm	35	35
4.33a	Aisle width for pallets 1000 × 1200 (l6 × b12) crossways	Ast	mm	Platform/load width + 90	mm clearance each side
4.34a	Aisle width for pallets 800 × 1200 (b12 × l6) lenghtways	Ast	mm	3131	3150
4.35	Turning radius	Wa	mm	1570	1570
4.41	Transfer aisle width (pallet 1000 × 1200mm lenghtwise & 200 mm clearance)		mm	Platform/load width + 90	mm clearance each side
	Performance				
5.1	Travel speed, with / without load		km/h	9 / 9	9 / 9
5.2	Lifting speed, with / without load		m/s	0.12 / 0.20	0.11 / 0.19
5.3	Lowering speed, with / without load		m/s	0.25 / 0.23	0.24 / 0.22
5.8	Max gradeability, with / without load		%	10.2	10.2
5.9	Acceleration time (over 10 m), with / without load		s	5.6 / 4.9	5.5 / 4.8
5.10	Service brake			Regenerative / electrical	Regenerative / electrical
	Electric motors				
6.1	Drive motor capacity (60 min. short duty)		kW	Mahle 2,7	Mahle 2,7
6.2	Lift motor output at 15% duty factor		kW	2,2 (5%)	2,2 (5%)
6.3	Battery according to DIN 43531/35/36, A, B, C, no			BS	BS
6.4	Battery voltage / rated capacity (5 h)		V/Ah	24 / 486-600	24 / 486-600
6.5	Battery weight (± 5%)		kg	Min 450	Min 450
6.6	Energy consumption according to VDI cycle		kWh/h	n/a	n/a
	Miscellaneous				
8.1	Type of drive control			AC Traction	AC Traction
8.4b	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)	57	57

[1] If adjustable forks, then load capacity is max 900 kg on LC 600 mm



Ast = Wa + R + a
Ast = Working aisle width
Wa = Turning radius
a = Safety clearance = 2 x100 mm
R = $\sqrt{(l6 + x)^2 + (b12 / 2)^2}$
l6 = Pallet length (800 or 1000 mm)
b12 = Pallet width (1200 mm)

MAST PERFORMANCE & CAPACITIES

Battery Dimensions

LOAD DERATION – Q KG **OPBL10P WITH EASYLIFT (Stroke EasyLift 720 mm)** Load deration based on load evenly spread along the forks						
h4 mm	**h3 mm**	**h5 mm**	**h mm**	**D mm**	Fixed forks	Adjustable forks
					Q kg	Q kg
Platform floor height	**Closed mast height**	**Mast height extended**	**Fork height**	**Load center distance**	**Max capacity**	**Max capacity**
1800	2196	3790 (pillars)	**H4 - 70 + 720 = 2450**	400-600	1000	-
				400-500	1000	1000
				600	1000	900

LOAD DERATION – Q KG **OPBL10P** Load deration based on load evenly spread along the forks							
h4 mm	**h3 mm**	**h5 mm**	**h mm**	**D mm**	**No EasyLift Fixed forks**	**With EasyLift** (Stroke EasyLift 720 mm)	
						Fixed forks	Adjustable forks
Platform floor height	**Closed mast height**	**Mast height extended**	**Fork height**	**Load center distance**	**Max capacity**	**Max capacity**	**Max capacity**
1200	1630 (pillars)	2670	**H4 - 70 = 1130** No EasyLift	400-600	1000	-	-
			H4 - 70 + 720 = 1850 With EasyLift	400-600	-	1000	n/a
				400-500	-	1000	1000
				80	-	1000	900

STANDARD EQUIPMENT & OPTIONS

	OPBL10P without EasyLift	OPBL10P with EasyLift
General		
Micro-computer incl. Hour meter and battery indicator	●	●
PIN code log in, 100 codes	●	●
Key switch entry	○	○
Drive and lift controls on mast side	●	●
Operators presence sensor in floor	●	●
Cornering control	●	●
MaxPro gates	○	●
Warning light	●	●
Battery on steel rollers	●	●
Environment		
Chill store design, with rust protected axles	●	●
Cold store modification (-35°C)	○	○
Drive, lift controls		
EasyLift	○	●
Extra buttons for EasyLift (mast side)	○	○
Walk beside, drive buttons and EasyLift buttons	○	○
Computer equipment		
Operator and vehicle management	○	○
Safety		
MaxPro side access gates	○	●
MaxVision overhead guard	○	○
Gate interlock, <1200 mm platform height	○	○
Gate open audiable warning, >415 mm platform lift	○	○
Other		
Increased drive speed, 12 km/h	○	○
Easy view display with steering wheel indicator	○	○
Mini steering wheel	○	○
Key switch entry	○	○
Light in cabin (racks)	○	○
Light in cabin (interior)	○	○
Radio with MP3	○	○
Converter 24-12 V, 8 A, 96 W outlet	○	○
12 V / 8 A DC power socket	○	○
Equipment holder, RAM system, Size C	○	○
Foldable driver's cushion	○	○
Converter 24-12 V, 8 A, 96 W outlet	○	○
Comfort fan for driver	○	○
Extra storage in platform	○	○
Fire extinguisher	○	○

● Standard ○ Option