

VELIA EM

SECOND LEVEL ORDER PICKERS

OPBL10P Series 1.0 TON



MITSUBISHI
FORKLIFT TRUCKS

EXTRAORDINARY

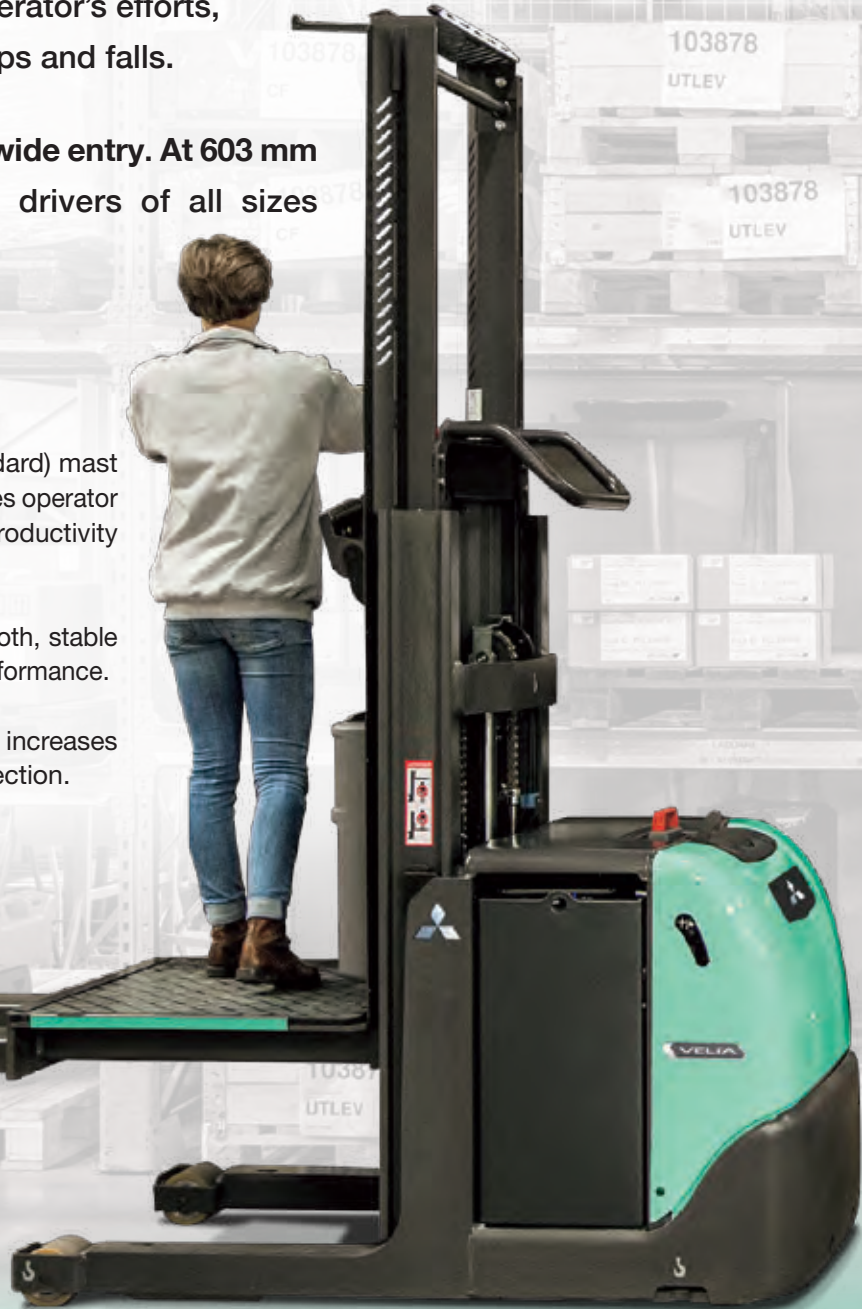
PERFORMANCE

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.



VARY PERFORMANCE



✓ 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

GREATER PRODUCTION



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.

Easy-access Opera



WITH ACTIVITY

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.

Operator's Compartment

- **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.

Robust battery rollers

Rapid battery access



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.

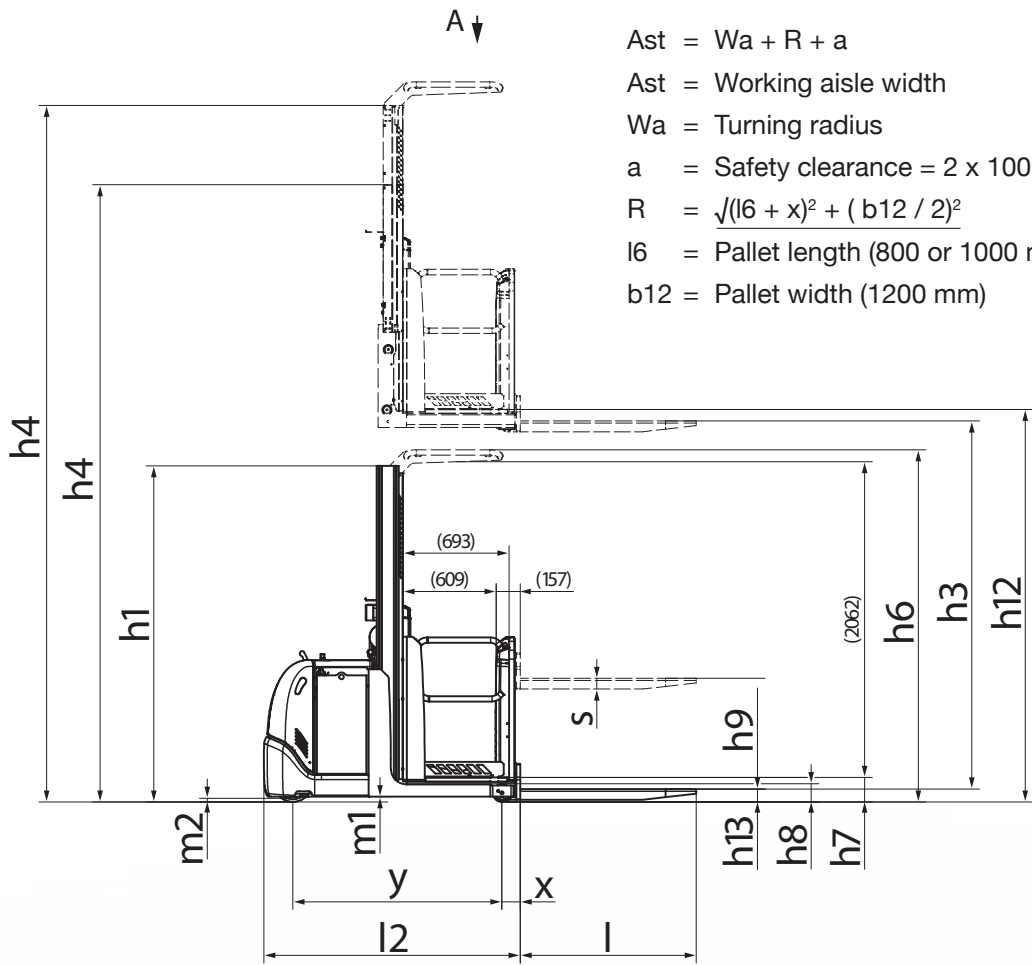
Characteristics			without EasyLift
1.1	Manufacturer		Mitsubishi
1.2	Manufacturer's model designation		OPBL10P
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Stand-on
1.5	Load capacity ¹	Q kg	1000
1.6	Load center distance	c mm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

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

VDI

PERFORMANCE & DIMENSIONS

with EasyLift
Mitsubishi
OPBL10P
Battery
Stand-on
1000
600
120
1371
2600
440 / 2160
950 / 650
Vul / Vul
250 × 105
120 × 115
2 / 1x
674
2196
1640
3790
2300
160-1800
115
723
1800
90
2825
1675
810
70 / 147 / 1150
450-700
35
mm clearance each side
3150
1570
mm clearance each side
9 / 9
0.11 / 0.19
0.24 / 0.22
10.2
5.5 / 4.8
Regenerative / electrical
Mahle 2,7
2,2 (5%)
BS
24 / 486-600
Min 450
n/a
AC Traction
57



$$Ast = Wa + R + a$$

Ast = Working aisle width

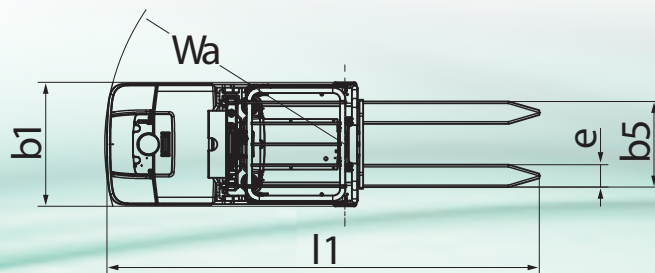
Wa = Turning radius

a = Safety clearance = 2 x 100 mm

$$R = \sqrt{(l6 + x)^2 + (b12 / 2)^2}$$

l6 = Pallet length (800 or 1000 mm)

b12 = Pallet width (1200 mm)



A (1 : 25)

MAST

PERFORMANCE



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

& CAPACITIES



LOAD DERATION – Q KG OPBL10P

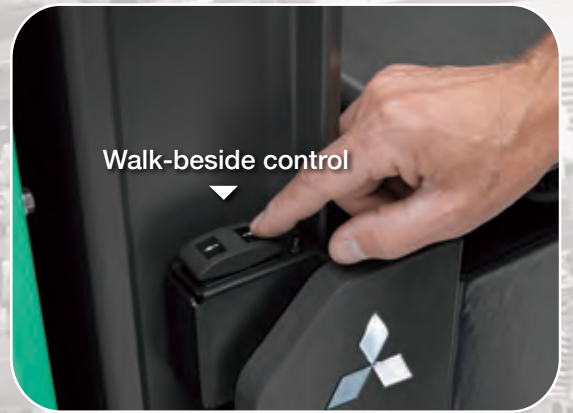
Load deration based on load evenly spread along the forks

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 EQUIP

	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 audible 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	●	●

MENT & OPTIONS





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To Your Applications*

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