XOP2
Vertical order pickers

OM-PIMESPO XOP2 vertical order pickers are compact, powerful vehicles and are capable of picking up to 6000mm.

Available in two versions:

- **with fixed forks, without additional lift additional:** two robustly welded forks on the operator platform allow direct access onto the order picking pallet order picking.
- **with lifting forks with additional lift:** thanks to the additional lift during picking it is possible to carry the pallet at operator height.

Specifications
- Overall chassis width: 880 - 980 - 880 980 - 1080 mm
- Operator platform: width 900 - 1000 1100 - 1200 - 1300 - 1400 mm
- Operator platform height: up to 4365 mm

Driver's cabin
The ergonomics of the driver's cabin guarantee excellent performance. The suspension of the driver's cabin and the floor of the cabin absorb bumps and rocking which may occur while being driven, or during lifting or lowering. An ample padded backrest offers a relaxing driving position. The low position of the rise and the protection bars on three sides increase the level of safety. A control panel with generously dimensioned controls means fast and safe operation. The control panel can either be used on the column side or on the side of the load. This gives the operator excellent visibility over the picking area or over the driving direction. The control panel has an integrated display which informs the driver of all the funcions of the truck. By means of keys it is possible to see and select hours worked, heights, wheel position, battery level, as well as other information for the operators and other workers. Another instrument control panel allows the activation of special functions and the lighting fixed onto the driver's protection roof.
The neon lighting tubes for illumination can be activated individually, with the beam of light directed towards shelving, forks or for illuminating the cabin.
Integrated object cupboards are housed in the internal trimmings, with stationary holder shelf, space for bottles, cans or tools. A transparent plastic sheet fixed to the column between the column masts, protects the operator from draughts and engine noise. A cable lowering device is integrated into the operator´s protection roof. Furthermore, the open structure of the protective roof gives free upward visibility.

Chassis
The chassis is an extremely rigid steel structure. The engine is protected by a sheet-steel cover which is lifted by gas struts.
The battery cover is metal.

Drive
The drive motor mounted vertically forms a single drive unit with the transmission, the magnetic brake and the drive wheel.
The order picker can be fitted with guide rolls, which are useful in narrow aisles.

Battery
DIN 48V - 420 Ah or 560 Ah battery.
Ability to change the battery from both sides, by means of a fork lift truck or roller.
The flat battery indicator is connected with a lift stop device.

MasterDrive control
- The easy to see controls offer excellent reliability and a high standard of safety, guaranteeing good function performance
- Fast, safe picking operations thanks to the combined horizontal travel movement and of the cabin lift (diagonal motion along the aisle)
- Energy recovery for extending operating time
- Height registering system
- Differentiated forward and reverse speeds which can be regulated for each gear
- Simultaneous movements such as gears and lift, are possible even outside the
- The deadman pedal and the two-hand control protect all movements of gears and lifting
- An integrated diagnostics and service interface makes configuration and setting parameters easy with the service laptop
- Permanent error code memory
- Visualization of error codes

Steering
The standard fit electric steering always takes the wheel to a central position on ignition. The order picker is easily and precisely manoeuvrable.

Steering override
Mechanical and inductive steering without contact.
In mechanical steering mode straight-line steering of the order picker drive wheel is assured automatically.

Masts
The compact construction of the column guarantees stability and torsional rigidity even at elevated heights, guaranteeing increased safety.
The excellent visibility through the column and at the sides offers good visibility.

Hydraulic system
All hydraulic movements are optimized by start/stop ramps and by the proportional valve damping technology during the movement of loads.

Brakes
The regenerative braking system is automatically activated when the butterfly switch is released. The activation of the start switch in the opposite direction in the same way produces sensitive and smooth braking.
Cross-current braking on one side reinforces the braking action and on the other recovers energy. The system of split braking operates almost without wear: the mechanical brake stops the order picker in rest mode and in the case of an emergency stop.

Additional equipment
- Automatic braking at the end of the aisle
- Lifting limits
- Mechanical and inductive drive
- Controls on column and/or on loading side
- Lighting adjustable towards shelving, on the pallet or inside the cabin
- Ventilator in the protective overhead guard operator
- Data terminal for the transfer of information to printer and scanner
- Additional lifting of the forks
- Chassis in various widths
- Operator's protective overhead guard in different heights
- Writing area with document holder
- Feed attachment on operator´s protective overhead guard for external users
- Operator's protective overhead guard in Makrolon
- Roller for side battery changing
- Set of cables for interchangeable battery
- Padding for side barrier
- Equipped for refrigerator units
- Covering for load side with storage and inter-changeable rear padding
- Special equipment available on request

The technical specifications quoted are given as an indication. OMPIMESPO reserves the right to modify them without warning

OM Carrelli Elevatori S.p.A.
Viale A. De Gasperi, 7
I-20020 Lainate (MI)
Tel.: +39(02)937 65-1
Fax: +39(02)937 65-450
www.ompimespo.com

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XOP2
Technical data

designed to work

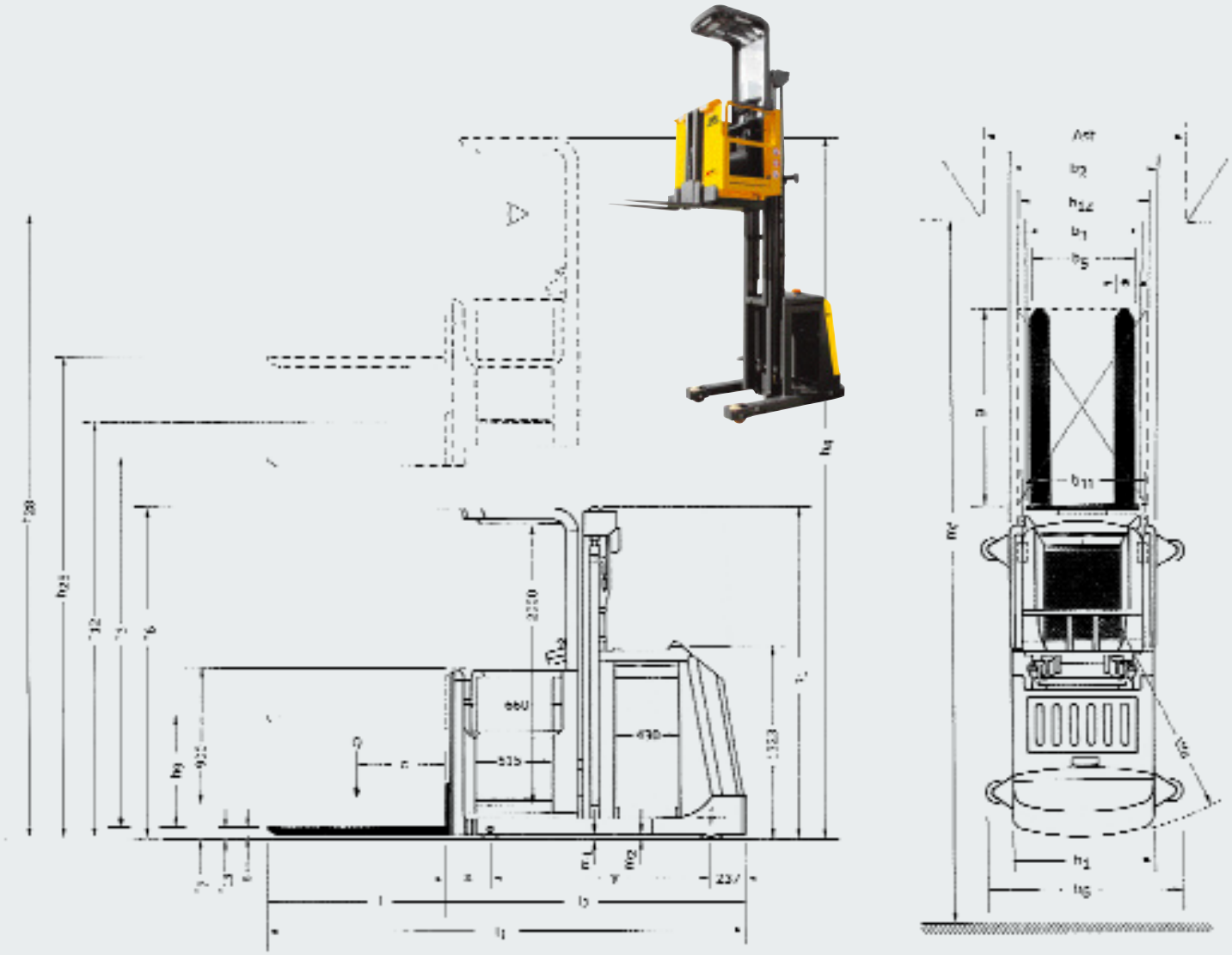
OM PIMESPO

XOP2 - Technical data

VDI 2198

Specifications	1.1	**Manufacturer**		OM PIMESPO	OM PIMESPO
	1.2	**Manufacturer's type designation**		XOP2 Mono	XOP3 Simplex
	1.3	**Drive: electric, diesel, petrol, fuel gas, mains**		Electric	Electric
	1.4	**Operator type: hand, with 2 operators, standing, seated, order picker.**		Standing	Standing
	1.5	**Capacity / Load**	Q (t)	1.1	1.1
	1.6	**Load centre distance**	c (mm)	400 / 600	400 / 600
	1.8	**Load distance, centre of drive axle to fork**	x (mm)	298	343
	1.9	**Distance between axles**	y (mm)	1447	1447
Weights	2.1	**Service weight (including battery)**	kg	2600	2700
	2.2	**Unloaded axle load (front/rear)**	kg	845 / 2855	680 / 3120
	2.3	**Axle loading unladen (front/rear)**	kg	1415 / 1185	1360 / 1340
Wheels and tyres	3.1	**Tyres: solid rubber, superelastic, pneumatic, polyurethane**		Vulkollan	Vulkollan
	3.2	**Front wheel dimensions**	mm	Ø 310 X 125	Ø 310 X 125
	3.3	**Rear wheel dimensions**	mm	Ø 170 X 152	Ø 170 X 152
	3.5	**Wheels: number front/rear (x=driven wheels)**		1x / 2	1x / 2
	3.6	**Front tread**	b10 (mm)	-	-
	3.7	**Rear tread**	b11 (mm)	700	700
Overall dimensions	4.2	**Height, mast lowered**	h1 (mm)	2250	2250
	4.4	**Lift**	h3 (mm)	1725	2825
	4.5	**Height, mast extended**	h4 (mm)	4065	5165
	4.7	**Height of overhead guard**	h6 (mm)	2340	2340
	4.8	**Seat height / stand height**	h7 (mm)	240	240
	4.11	**Additional lift**	h9 (mm)	740	740
	4.14	**Height of elevated platform**	h12 (mm)	1965	3065
	4.14.1	**Picking height (h12 +1600 mm)**	h28 (mm)	4665	4665
	4.15	**Lowered fork height**	h13 (mm)	65	65
	4.19	**Overall length**	l1 (mm)	3180	3227
	4.20	**Length to face of forks**	l2 (mm)	1982	2027
	4.21	**Overall width**	b1 /b2(mm)	880 / 900	880 / 900
	4.22	**Fork dimensions**	s/e/l (mm)	60 / 120 / 1200	60 / 120 / 1200
	4.23	**Fork carriage DIN 15173, Class/type, A/B**		Welded forks	Welded forks
	4.24	**Fork carriage plate width**	b3 (mm)	660	660
	4.25	**Distance between fork-arms**	b5 (mm)	560	560
	4.27	**Width on guide rolls**	b6 (mm)	920	920
	4.31	**Ground clearance, laden, below mast**	m1 (mm)	30	60
	4.32	**Ground clearance, centre of wheelbase**	m2 (mm)	50	50
	4.34	**Aisle width for pallets 800 x 1200 crossways (b12 x l6)**	Ast (mm)	1080	1080
	4.35	**Turning radius**	Wa (mm)	1685	1685
	4.42	**Track change aisle for pallets 800 x 1200 (b12 x l6)**	Au (mm)	3435	3480
Performance	5.1	**Travel speed (laden/unladen)**	km/h	11.0 (1) / 11.0 (1)	11.0 (1) / 11.0 (1)
	5.2	**Lifting speed (laden/unladen)**	m/s	0.30 / 0.39	0.30 / 0.39
	5.3	**Lowering speed (laden/unladen)**	m/s	0.35 / 0.35	0.35 / 0.35
	5.9	**Acceleration time, laden/unladen**	s	7.0 / 7.0	7.0 / 7.0
	5.10	**Service brake**		Electric	Electric
Electric motor	6.1	**Drive motor, rating KB 60'**	kW	3.4	3.4
	6.2	**Lift motor, rating 15% ED**	kW	7.0	7.0
	6.3	**Battery acc. IEC 254 – 2; A, B, C, no**		IEC 254-2; A	IEC 254-2; A
	6.4	**Voltage / nominal capacity**	V / Ah	48 / 420 L	48 / 420 L
	6.5	**Battery weight (± 5%)**	kg	720	720
Other	8.1	**Drive type**		MOSFET	MOSFET
	8.4	**Sound level at the driver's ear**	dB (A)	< 68	< 68

(1) Speed according to EN 1726-2



Lift heights: Simplex masts

h_1	h_{25} ($h_3+h_9+h_{13}$)	h_{24} (h_3+h_9)	h_3	h_2	h_{12} (h_3+h_7)	h_{28} ($h_{12}+1600$)	h_4 (h_3+h_6)
2900	4930	4865	4125	740	4365	5965	6465
2800	4730	4665	3925	740	4165	5765	6265
2700	4530	4465	3725	740	3965	5565	6065
2600	4330	4265	3525	740	3765	5365	5865
2500	4130	4065	3325	740	3565	5165	5665
2450	4030	3965	3225	740	3465	5065	5565
2350	3830	3765	3025	740	3265	4865	5365
2250	3630	3565	2825	740	3065	4665	5165
2250	3430	3365	2625	740	2865	4465	4965
2250	3230	3165	2425	740	2665	4265	4765
2250	3030	2965	2225	740	2465	4065	4565

Lift heights: Single stage masts

h_1	h_{25} ($h_3+h_9+h_{13}$)	h_{24} (h_3+h_9)	h_3	h_2	h_{12} (h_3+h_7)	h_{28} ($h_{12}+1600$)	h_4 (h_3+h_6)
3400	3655	3590	2850	740	3090	4690	5190
3300	3555	3490	2750	740	2990	4590	5090
3200	3455	3390	2650	740	2890	4490	4990
3100	3355	3290	2550	740	2790	4390	4890
3000	3255	3190	2450	740	2690	4290	4790
2900	3155	3090	2350	740	2590	4190	4690
2800	3055	2990	2250	740	2490	4090	4590
2700	2955	2890	2150	740	2390	3990	4490
2600	2855	2790	2050	740	2290	3890	4390
2500	2755	2690	1950	740	2190	3790	4290
2450	2705	2640	1900	740	2140	3740	4240
2350	2605	2540	1800	740	2040	3640	4140
2250	2505	2440	1700	740	1940	3540	4040