

XOP2^{ac} XOP3^{ac} Technical Data



XOP2^{ac} XOP3^{ac} Technical Data

VDI 2198

Specification	1.1	Manufacturer		OM	
	1.2	Manufacturer's type designation		XOP2 ^{ac} Mono	
	1.3	Drive: electric, diesel, petrol, fuel gas, mains		Electric	
	1.4	Operator type: hand, with 2 operators, standing, seated, order picker.		Standing	
	1.5	Capacity / Load	Q (t)	1,1	
	1.6	Load centre distance	c (mm)	400 / 600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	298	
	1.9	Distance between axles	y (mm)	1447	
	Weights	2.1	Service weight (including battery)	kg	2600
2.2		Unloaded axle load (front/rear)	kg	845 / 2855	
2.3		Axle loading unladen (front/rear)	kg	1415 / 1185	
Wheels and Tyres	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Vulkollan	
	3.2	Front wheel dimensions	mm	Ø 310 X 125	
	3.3	Rear wheel dimensions	mm	Ø 170 X 152	
	3.5	Wheels: number front/rear (x=driven wheels)		1x / 2	
	3.6	Front tread	b10 (mm)	-	
	3.7	Rear tread	b11 (mm)	700	
	Dimensions and Overall Sizes	4.2	Height, mast lowered	h1 (mm)	2250
4.3		Free lift	h2 (mm)	-	
4.4		Lift	h3 (mm)	1725	
4.5		Height, mast extended	h4 (mm)	4065	
4.7		Height of overhead guard	h6 (mm)	2340	
4.8		Seat height / stand height	h7 (mm)	240	
4.11		Additional lift	h9 (mm)	740	
4.14		Height of elevated platform	h12 (mm)	1965	
4.14.1		Picking height (h12 +1600 mm)	h28 (mm)	4665	
4.15		Lowered fork height	h13 (mm)	65	
4.19		Overall length	l1 (mm)	3180	
4.20		Length to face of forks	l2 (mm)	1982	
4.21		Overall width	b1 /b2(mm)	880 / 900	
4.22		Fork dimensions	s/e/l (mm)	60 / 120 / 1200	
4.23		Fork carriage DIN 15173, Class/type, A/B		Welded forks ⁽⁴⁾	
4.24		Fork carriage plate width	b3 (mm)	660	
4.25		Distance between fork-arms	b5 (mm)	560	
4.27		Width on guide rolls	b6 (mm)	920	
Performance		4.31	Ground clearance, laden, below mast	m1 (mm)	30
		4.32	Ground clearance, centre of wheelbase	m2 (mm)	50
	4.34	Aisle width for pallets 800 x 1200 crossways (b12 x l6)	Ast (mm)	1080 ⁽²⁾	
	4.35	Turning radius	Wa (mm)	1685	
	4.42	Track change aisle for pallets 800 x 1200 (b12 x l6)	Au (mm)	3436	
	5.1	Travel speed (laden/unladen)	km/h	11,0 ⁽¹⁾ / 11,0 ⁽¹⁾	
	5.2	Lifting speed (laden/unladen)	m/s	0,36 / 0,39	
	5.3	Lowering speed (laden/unladen)	m/s	0,35 / 0,35	
	5.9	Acceleration time, laden/unladen	s	7,0 / 7,0	
	5.10	Service brake		Electric	
Engine	6.1	Drive motor, rating KB 60'	kW	4,6	
	6.2	Lift motor, rating 15% ED	kW	11,5	
	6.3	Battery acc. IEC 254 – 2; A, B, C, no		IEC 254-2; A	
	6.4	Voltage / nominal capacity	V / Ah	48 / 420 L	
	6.5	Battery weight (± 5%)	kg	720	
Others	8.1	Drive type		MOSFET	
	8.4	Sound level at the driver's ear	dB (A)	< 68	

The values presented are to be taken as indicative and not binding; they refer to the standard equipment

- 1) Speed according to EN 1726-2
- 2) Min working aisle Ast with cab 900 and truck mechanical guide
- 3) Min working aisle Ast with cab 1200 and truck mechanical guide
- 4) Available with auxiliary lift and Fem adjustable fork
- 5) XOP3 with TX mast 3900 mm only with b₁=b₂= 1380 mm chassis

OM	OM	OM
XOP2 ^{ac} Simplex	XOP3 ^{ac} Simplex	XOP3 ^{ac} Triplex
Electric	Electric	Electric
Standing	Standing	Standing
1,1	1,2	1,2
400 / 600	400 / 600	400 / 600
343	343	388
1447	1557	1557
2700	2950	3150
680 / 3120	780 / 3370	880 / 3470
1360 / 1340	1520 / 1430	1690 / 1540
Vulkollan	Vulkollan	Vulkollan
Ø 310 X 125	Ø 310 X 125	Ø 310 X 125
Ø 170 X 152	Ø 170 X 152	Ø 170 X 152
1x / 2	1x / 2	1x / 2
-	-	-
700	900	900
2250	2250	2250
-	-	-
2825	2825	4390
5165	5165	6730
2340	2340	2340
240	240	240
740	740	740
3065	3065	4630
4665	4665	6230
65	65	65
3227	2937	2982
2027	2137	2182
880 / 900	1180 / 1200	1180 / 1200 ⁽⁵⁾
60 / 120 / 1200	60 / 120 / 800	60 / 120 / 800
Welded forks ⁽⁴⁾	Welded forks ⁽⁴⁾	Welded forks ⁽⁴⁾
660	660	660
560	640	640
920	1375	1375
60	30	30
50	50	50
1080 ⁽²⁾	1380 ⁽³⁾	1380 ⁽³⁾
1685	1795	1795
3480	3590	3633
11,0 ⁽¹⁾ / 11,0 ⁽¹⁾	11,0 ⁽¹⁾ / 11,0 ⁽¹⁾	11,0 ⁽¹⁾ / 11,0 ⁽¹⁾
0,36 / 0,39	0,36 / 0,39	0,36 / 0,39
0,35 / 0,35	0,35 / 0,35	0,35 / 0,35
7,0 / 7,0	7,0 / 7,0	7,0 / 7,0
Electric	Electric	Electric
4,6	4,6	4,6
11,5	11,5	11,5
IEC 254-2; A	IEC 254-2; A	IEC 254-2; A
48 / 420 L	48 / 420 L	48 / 420 L
720	720	720
MOSFET	MOSFET	MOSFET
< 68	< 68	< 68

ROLLERS WIDTH SUBJECT TO CHASSIS WIDTH

XOP2 ^{ac}					XOP3 ^{ac}					
b ₁	880	980	1080		b ₁	1180				1380
b ₂	880	980	1080		b ₂	1180				1380
b ₁₁	700	800	900		b ₁₁	1000				1200
b ₆ min	920	1020	1120		b ₆ min	1220				1420
b ₆ max	1250	1350	1450 (1710)		b ₆ max	1550				2010

LIFT HEIGHTS

XOP2 ^{ac}		Monostadio												
h ₁		3400**	3300	3200	3100	3000	2900**	2800	2700	2600	2500	2450	2350	2250
h ₂₅ *	h ₃ +h ₉ +h ₁₃)	3655	3555	3455	3355	3255	3155	3055	2955	2855	2755	2705	2605	2505
h ₂₄	(h ₃ +h ₉)	3590	3490	3390	3290	3190	3090	2990	2890	2790	2690	2640	2540	2440
h ₃		2850	2750	2650	2550	2450	2350	2250	2150	2050	1950	1900	1800	1700
h ₉		740	740	740	740	740	740	740	740	740	740	740	740	740
h ₁₂	(h ₃ +h ₇)	3090	2990	2890	2790	2690	2590	2490	2390	2290	2190	2140	2040	1940
h ₂₈	(h ₁₂ +1600)	4690	4590	4490	4390	4290	4190	4090	3990	3890	3790	3740	3640	3540
h ₄	(h ₃ +h ₆)	5190	5090	4990	4890	4790	4690	4590	4490	4390	4290	4240	4140	4040

LIFT HEIGHTS

XOP2 ^{ac}		Simplex di serie		Simplex											
h ₁		3400**	2900**	2800	2700	2600	2500	2450**	2350	2250**	2250	2250	2250	2250	
h ₂₅ *	h ₃ +h ₉ +h ₁₃)	5930	4930	4730	4530	4330	4130	4030	3830	3630	3430	3230	3030	2830	
h ₂₄	(h ₃ +h ₉)	5865	4865	4665	4465	4265	4065	3965	3765	3565	3365	3165	2965	2765	
h ₃		5125	4125	3925	3725	3525	3325	3225	3025	2825	2625	2425	2225	2025	
h ₉		740	740	740	740	740	740	740	740	740	740	740	740	740	
h ₁₂	(h ₃ +h ₇)	5365	4365	4165	3965	3765	3565	3465	3265	3065	2865	2665	2465	2265	
h ₂₈	(h ₁₂ +1600)	6965	5965	5765	5565	5365	5165	5065	4865	4665	4465	4265	4065	3865	
h ₄	(h ₃ +h ₆)	7465	6465	6265	6065	5865	5665	5565	5365	5165	4965	4765	4565	4365	

LIFT HEIGHTS

XOP3 ^{ac}		Simplex																									
h ₁		4400*	4300	4200	4100	4000	3900*	3800	3700	3600	3500	3400*	3300	3200	3100	3000	2900*	2800	2700	2600	2500	2450*	2350	2250*	2250	2250	
h ₂₅ *	h ₃ +h ₉ +h ₁₃)	7530	7330	7130	6930	6730	6530	6410	6290	6170	6050	5930	5730	5530	5330	5130	4930	4730	4530	4330	4130	4030	3830	3630	3430	3230	3030
h ₂₄	(h ₃ +h ₉)	7465	7265	7065	6865	6665	6465	6345	6225	6105	5985	5865	5665	5465	5265	5065	4865	4665	4465	4265	4065	3965	3765	3565	3365	3165	2965
h ₃		6725	6525	6325	6125	5925	5725	5605	5485	5365	5245	5125	4925	4725	4525	4325	4125	3925	3725	3525	3325	3225	3025	2825	2625	2425	2225
h ₉		740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740
h ₁₂	(h ₃ +h ₇)	6965	6765	6565	6365	6165	5965	5845	5725	5605	5485	5365	5165	4965	4765	4565	4365	4165	3965	3765	3565	3465	3265	3065	2865	2665	2465
h ₂₈	(h ₁₂ +1600)	8565	8365	8165	7965	7765	7565	7445	7325	7205	7085	6965	6765	6565	6365	6165	5965	5765	5565	5365	5165	5065	4865	4665	4465	4265	4065
h ₄	(h ₃ +h ₆)	9065	8865	8665	8465	8265	8065	7945	7825	7705	7585	7465	7265	7065	6865	6665	6465	6265	6065	5865	5665	5565	5365	5165	4965	4765	4565

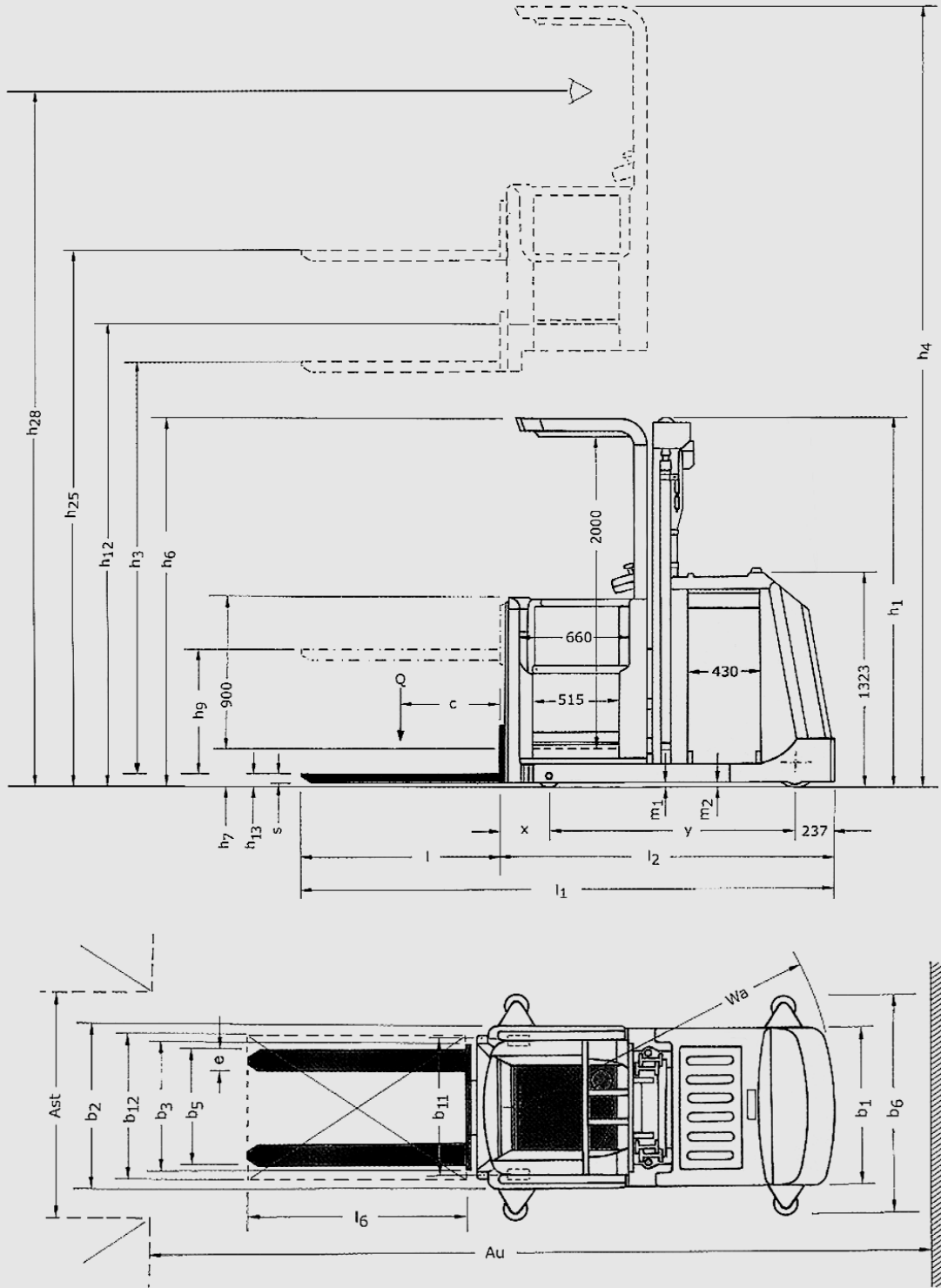
LIFT HEIGHTS

XOP3 ^{ac}		Triplex																													
h ₁		3900*	3800	3700	3600	3500	3400*	3300	3300	3100	3000	2900*	2800	2700	2600	2500	2450*	2350	2250*	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
h ₂₅ *	h ₃ +h ₉ +h ₁₃)	9445	9145	8845	8545	8245	7945	7785	7625	7465	7305	7145	6845	6545	6245	5945	5795	5495	5195	5045	4895	4745	4595	4445	4295	4145	3995	3845	3695	3885	
h ₂₄	(h ₃ +h ₉)	9380	9080	8780	8480	8180	7880	7720	7560	7400	7240	7080	6780	6480	6180	5880	5730	5430	5130	4980	4830	4680	4530	4380	4230	4080	3930	3780	3630	3820	
h ₃		8640	8340	8040	7740	7440	7140	6980	6820	6660	6500	6340	6040	5740	5440	5140	4990	4690	4390	4240	4090	3940	3790	3640	3490	3340	3190	3040	2890	3080	
h ₂		1560	1460	1360	1260	1160	1060	960	860	760	660	560	460	360	260	160	110	10	-	-	-	-	-	-	-	-	-	-	-	-	
h ₉	(h ₃ +h ₇)	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	740	
h ₁₂	(h ₁₂ +1600)	8880	8580	8280	7980	7680	7380	7220	7060	6900	6740	6580	6280	5980	5680	5380	5230	4930	4630	4480	4330	4180	4030	3880	3730	3580	3430	3280	3130	3320	
h ₂₈	(h ₃ +h ₆)	10480	10680	10380	10080	9780	9480	9320	9160	9000	8840	8180	8380	8080	7780	7480	6830	7030	6230	6580	6430	6280	6130	5980	5830	5680	5530	5380	5230	5420	
h ₄		10980	10180	9880	9580	9280	8980	8820	8660	8500	8340	8680	7880	7580	7280	6980	7330	6530	6730	6080	5930	5780	5630	5480	5330	5180	5030	4880	4730	4920	

* h25 value are calculated for trucks with auxiliary lift diventa lift h9= 740mm

** standard version

All different mast (no standard version) are subject to UPA)



XOP2^{ac} XOP3^{ac}

Vertical order pickers



OM XOP2^{ac} e XOP3^{ac} vertical order pickers are compact, powerful vehicles and are capable of picking up h28=10480

Available in two versions: ■ Available in two versions: n with fixed forks, without additional lift additional: ■ with lifting forks with additional lift:

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 8880 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 functions 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.

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 AC 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) XOP2^{ac} - (48V-620) XOP3^{ac} 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: ■ Main and auxiliary handling operation optimized; controls are monitored in real-time ■ 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.

Type of guidance: free circulation, mechanical guide or inductive.

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: The ac pump motor and 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.

Technical data are given as an indication.

OM Carrelli Elevatori reserves the right to modify them without notice.

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