

XE 35 - 40 - 45 - 50

Technical data



designed to work



XE 35-40-45-50 Technical data

VDI 2198

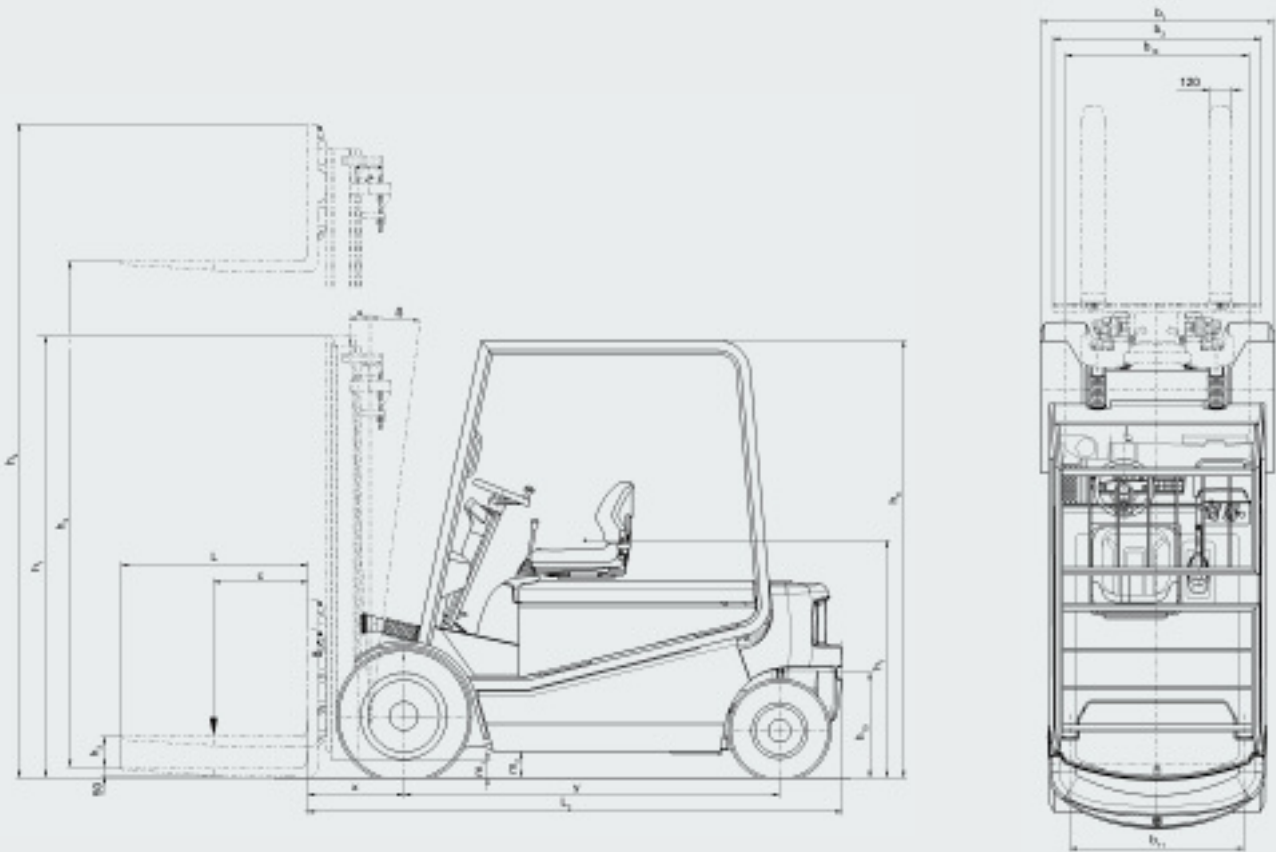
Specification	1.1	Manufacturer		OM PIMESPO	OM PIMESPO	OM PIMESPO	OM PIMESPO	
	1.2	Model designation		XE 35	XE 40	XE 45	XE 50	
	1.3	Type of drive: Electric - Diesel - Petrol - GPL - Network Power (Electric)		Electric	Electric	Electric	Electric	
Weight	1.4	Operation Type: Hand - Stand on - Driver seated		Driver Seated	Driver Seated	Driver Seated	Driver Seated	
	1.5	Load Capacity	Q (t)	3,5	4	4,5	4,9	
	1.6	Load Baricenter Distance	c (mm)	500	500	500	500	
	1.8	Distance from axle centre to fork face	x (mm)	492 ³⁾	492 ³⁾	502 ³⁾	502 ³⁾	
	1.9	Wheel Base	y (mm)	1843	1987	1987	2047	
	2.1	Service Weight	kg	5671	5977	6263	6504	
	2.2	Axle Weight with rated load	front / rear	kg	8567/904	8966/1011	9755/1013	10452/1042
	2.3	Axle Weight without load	front / rear	kg	2899/2772	2964/3013	3026/3242	3039/3465
	Wheels and tyres	3.1	Tyres SE = superelastic - PN = pneus		SE / SE ¹⁾	SE / SE ¹⁾	SE / SE ¹⁾	SE / SE ¹⁾
3.2		Front tyres size		250 - 15 ¹⁾	250-15 ¹⁾	250-15 ¹⁾	28x12,5-15 ¹⁾	
3.3		Rear tyres size		21 x 8 - 9 ¹⁾	21 x 8 - 9 ¹⁾	21 x 8 - 9 ¹⁾	21 x 8 - 9 ¹⁾	
3.5		Tyres number front / rear (x = drive)		2 (4) x / 2	2 (4) x / 2	2 (4) x / 2	2 (4) x / 2	
3.6		Front track width	b10 (mm)	972 - 1241 (twin)	972 - 1241 (twin)	972 - 1241 (twin)	1104 - 1241 (twin)	
3.7		Rear track width	b11 (mm)	920	920	920	920	
Dimensions and overall Sizes		4.1	Lifting assembly tilting	forward/backward	Grad	3°/8°	3°/8°	3°/8°
	4.2	Mast minimum overall height		h1 (mm)	2350	2350	2500	
	4.3	Free height		h2 (mm)	80	80	80	
	4.4	Lift height		h3 (mm)	3300 ²⁾	3300 ²⁾	3400 ²⁾	
	4.5	Mast maximum overall height		h4 (mm)	4170	4170	4350	
	4.7	Overheadguard height		h6 (mm)	2317	2317	2317	
	4.8	Seat Height		h7 (mm)	1259	1259	1259	
	4.12	Drawbar height		h10 (mm)	550	550	550	
	4.19	Overall Length		l1 (mm)	3678	3822	3822	
	4.20	Overall Length including fork arms spessore forche		l2 (mm)	2678	2822	2822	
	4.21	Overall width	b1/b2 (mm)	1196 - 1520 (twin)	1196 - 1520 (twin)	1196 - 1520 (twin)	1394 - 1520 (twin)	
	4.22	Fork arms dimension	s/e/l (mm)	1000/120/50	1000/120/50	1000/130/60	1000/130/60	
	4.23	Fork carriage in compliance with DIN 15173 Classe / Form A, B		3-A	3-A	3-A	3-A	
	4.24	Fork carriage width	b3 (mm)	1190/1520 (twin)	1190/1520 (twin)	1190/1520 (twin)	1190/1520 (twin)	
	4.31	Mast ground clearance (with load)	m1 (mm)	117	117	117	117	
	4.32	Chassis ground clearance (with load) [middle of the chassis]	m2 (mm)	160	160	160	160	
	4.33	Aisle width with pallet 1000x1200 and fork arm pitch 1200	Ast (mm)	4002,5	4142,5	4142,5	4211,5	
	4.34	Aisle width with pallet 800x1200 and fork arm pitch 800	Ast (mm)	4202,5	4342,5	4342,5	4411,5	
	4.35	Turning radius	Wa (mm)	2312	2452	2452	2511	
	4.36	Turning point minimum distance from the truck center line	b13 (mm)	-	-	-	-	
Performance	5.1	Drive speed	with / without load	km/h	14/16	14/16	13/15	
	5.2	Lifting speed	with / without load	m/s	0,33/0,46	0,33/0,46	0,28/0,46	
	5.3	Lowering speed	with / without load	m/s	0,6/0,45	0,6/0,45	0,6/0,45	
	5.5	Drawbar pull tractive effort (S2 60 min)	with / without load	N	3395/4115	3230/4055	3055/3980	
	5.6	Drawbar pull tractive effort (S2 5 min)	with / without load	N	13790/14500	13630/14450	13455/14380	
	5.7	Gradeability (S2 30 min)	with / without load	%	5,5/10	5/9	4,5/9	
	5.8	Maximum gradeability (S2 5 min)	with / without load	%	14/25	13/23	11/21	
	5.9	Acceleration time (10 m)	with / without load	s	5,1/4,6	5,5/4,8	5,7/5	
	5.10	Service brake			Electric/Mechanic	Electric/Mechanic	Electric/Mechanic	
	Engine	6.1	Drive motor, power S2 60 min	kW	15	15	15	15
6.2		Lifting motor, power S3 15%	kW	20	20	20	20	
6.3		Battery in compliance with DIN 43531/35/36 A, B, C, NO		43536 A	43536 A	43536 A	43536 A	
6.4		Voltage, Battery Capacity K5	V / Ah	80/700	80/840	80/840	80/840	
6.5		Battery weight	kg	1872	2178	2178	2178	
Others	6.6	Power consumption according to VDI cycle	kWh/h	-	-	-	-	
	8.2	Service pressure for attachments	bar	170	170	170	170	

1) For alternative tyres see table

2) For alternative masts see table

3) With lateral side shift + 25 mm

Information and data reported here are not intended as binding in any way and refer to standard truck specification.



LIFT MAST SPECIFICATIONS

		Simplex										Duplex						Triplex											
XE 35	Lift Height	h_3	mm	3000	3300	3600	3800	4000	4200	4500	4700	5000	-	3050	3250	3450	3650	3850	4050	-	4550	4850	5300	5600	5900	6350	6650	7100	7550
	Minimum Overall Height	h_1	mm	2200	2350	2500	2600	2700	2800	2950	3050	3200	-	2250	2350	2450	2550	2650	2750	-	2250	2350	2500	2600	2700	2850	2950	3100	3250
	Maximum Overall Height	h_4	mm	3870	4170	4470	4670	4870	5070	5370	5570	5870	-	3900	4100	4300	4500	4700	4900	-	5250	5550	6000	6300	6600	7050	7350	7800	8250
	Free Lift	h_2	mm	80	80	80	80	80	80	80	80	80	-	1400	1500	1600	1700	1800	1900	-	1400	1500	1650	1750	1850	2000	2100	2250	2400
XE 40	Lift Height	h_3	mm	3000	3300	3600	3800	4000	4200	4500	4700	5000	-	3050	3250	3450	3650	3850	4050	-	4550	4850	5300	5600	5900	6350	6650	7100	7550
	Minimum Overall Height	h_1	mm	2200	2350	2500	2600	2700	2800	2950	3050	3200	-	2250	2350	2450	2550	2650	2750	-	2250	2350	2500	2600	2700	2850	2950	3100	3250
	Maximum Overall Height	h_4	mm	3870	4170	4470	4670	4870	5070	5370	5570	5870	-	3900	4100	4300	4500	4700	4900	-	5250	5550	6000	6300	6600	7050	7350	7800	8250
	Free Lift	h_2	mm	80	80	80	80	80	80	80	80	80	-	1400	1500	1600	1700	1800	1900	-	1400	1500	1650	1750	1850	2000	2100	2250	2400
XE 45	Lift Height	h_3	mm	3000	3300	3600	3800	4000	4200	4500	4700	5000	2950	3050	3250	3450	3650	3850	4050	4350	4650	4950	5400	5700	6000	6450	6750	7050	7350
	Minimum Overall Height	h_1	mm	2200	2350	2500	2600	2700	2800	2950	3050	3200	2200	2250	2350	2450	2550	2650	2750	2300	2400	2500	2650	2750	2850	3000	3100	3200	3300
	Maximum Overall Height	h_4	mm	3870	4170	4470	4670	4870	5070	5370	5570	5870	3800	3900	4100	4300	4500	4700	4900	5400	5700	6000	6450	6750	7050	7500	7800	8100	8400
	Free Lift	h_2	mm	80	80	80	80	80	80	80	80	1350	1400	1500	1600	1700	1800	1900	1350	1450	1550	1700	1800	1900	2050	2150	2250	2350	
XE 50	Lift Height	h_3	mm	3000	3100	3400	3700	3900	4100	4300	4600	4800	-	-	-	-	-	-	-	4350	4650	4950	5400	5700	6000	6450	6750	7050	7350
	Minimum Overall Height	h_1	mm	2300	2350	2500	2650	2750	2850	2950	3100	3200	-	-	-	-	-	-	-	2300	2400	2500	2650	2750	2850	3000	3100	3200	3300
	Maximum Overall Height	h_4	mm	3950	4050	4350	4650	4850	5050	5250	5550	5750	-	-	-	-	-	-	-	5400	5700	6000	6450	6750	7050	7500	7800	8100	8400
	Free Lift	h_2	mm	80	80	80	80	80	80	80	80	-	-	-	-	-	-	-	1350	1450	1550	1700	1800	1900	2050	2150	2250	2350	

WHEELS

XE 35		XE 40		XE 45		XE 50	
Front	Rear	Front	Rear	Front	Rear	Front	Rear
Superelastic (SE)							
-	-	-	-	250 - 15 ¹⁾	21 x 8-9	-	-
7.00-15 (twin)	21 x 8-9	7.00-15 (twin)	21 x 8-9	7.00-15 (twin)	21 x 8-9	7.00-15 (twin)	21 x 8-9
Pneumatic (PN)							
250-15/18 p.r.	21x8-9/16 p.r.	250-15/18 p.r.	21x8-9/16 p.r.	-	-	-	-
7.00-15/ 12 p.r.(twin)	21x8-9/16 p.r.	7.00-15/12 p.r.(twin)	21x8-9/16 p.r.	7.00-15/12 p.r.(twin)	21x8-9/16 p.r.	-	-
Cushion (CU)							
645/300-410Z	18x7x12 1/8	645/300-410Z	18x7x12 1/8	645/300-410Z	18x7x12 1/8	-	-

1) 28x12.5-15 with:

Sx with $h_3 > 4000$ mm
 Dx with $h_3 > 4050$ mm
 Tx masts



A **chassis** developed using the latest F.E.M. (Finite Elements Method) calculation methods provides greater rigidity and stability, resulting in a compact truck which improves on the performances of previous trucks but still maintains the residual load capacities.

The front axle with **direct current** separate excited motors gives an excellent torque and power curve.

The wet oil disc brakes are wear and maintenance free; they guarantee a very good braking effectiveness and are also protected from dirt and water infiltrations. To recover energy and increase braking performances, the truck is also provided with an **electric braking system** by accelerator's release.

A completely updated electronic system using MOSFET and CANBUS technology transmits data more quickly and responds more precisely to the controls, rendering the truck more responsive during all functions. In addition, the "check control" system will immediately diagnose any malfunction. Our customer service department can program all the customizable parameters of the machine in accordance with the customer's requirements.

The four-wheel **steering axles** have improved the stability and precision of the truck.

Due to the increased steering angle, thus reducing the turning circle, the forklift has become even more manoeuvrable. The presence of lubricate points allows an easy lubrication of the steering axle, reducing wear and maintenance costs.

The operator cab has been designed to enable all operator movements, as have the MSG20 seat, power-assisted steering, and hydraulic levers to the side of the operator.

A powerful 80V, 20 kW lift motor provides high rates of lift speed. The electronic system optimizes energy consumption, thus improving productivity.

The 80V DIN **batteries** have capacities from 525 to 930 Ah.

The new, optimized profiles of the **masts** and new fork carriage assembly provide improved visibility and torsional rigidity, together with a high residual load capacity and lower maintenance costs. Simplex, Duplex, Triplex with heights up to 7500 mm are available.

Options: the introduction in the price list of many options previously supplied only as special request allows to short the time for offers and to fulfil all customer's needs. Additional hydraulic ways, side shifts, lights, different cab's versions, are some of options available in the price list.

OM PIMESPO's philosophy for all its products is to place safety first when a truck is in operation.

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