

# XE 35 - 40 - 45 - 50

## Technical Data



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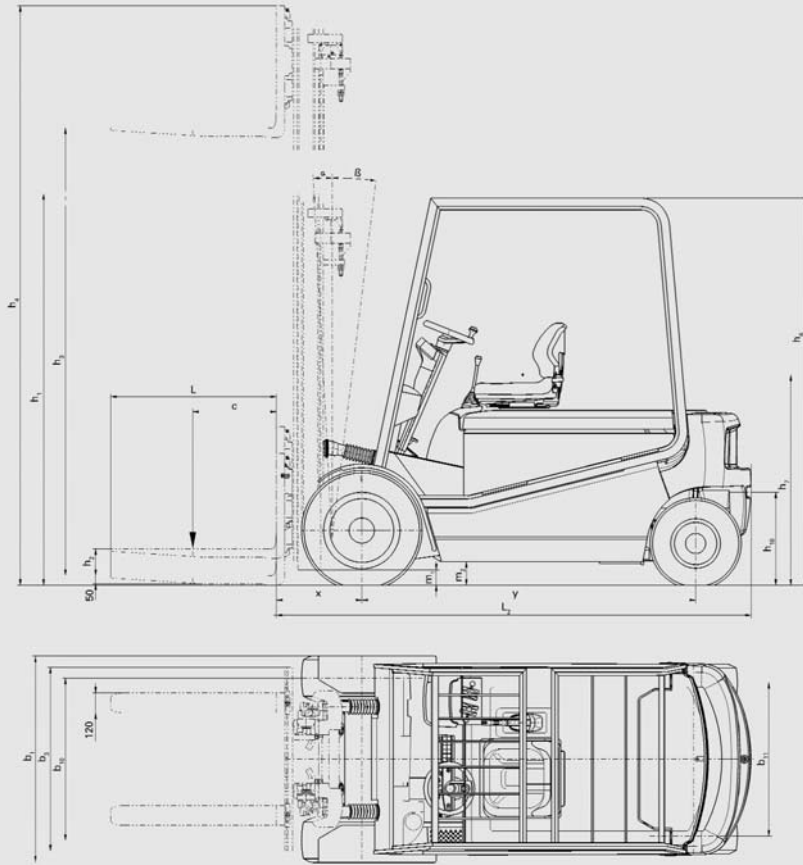
VDI 2198

Specification	1.1	Manufacturer		OM	OM	OM	OM	
	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	
	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 <sup>0)</sup>	4 <sup>0)</sup>	4,5 <sup>0)</sup>	4,9 <sup>0)</sup>	
	1.6	Load Baricenter Distance	c (mm)	500	500	500	500	
	1.8	Distance from axle centre to fork face	x (mm)	492 <sup>3)</sup>	492 <sup>3)</sup>	502 <sup>3)</sup>	502 <sup>3)</sup>	
	1.9	Wheel Base	y (mm)	1843	1987	1987	2047	
Weights	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 <sup>1)</sup>	SE / SE <sup>1)</sup>	SE / SE <sup>1)</sup>	SE / SE <sup>1)</sup>	
	3.2	Front tyres size		250 - 15 <sup>1)</sup>	250-15 <sup>1)</sup>	250-15 <sup>1)4)</sup>	28x12,5-15 <sup>1)</sup>	
	3.3	Rear tyres size		21 x 8 - 9 <sup>1)</sup>	21 x 8 - 9 <sup>1)</sup>	21 x 8 - 9 <sup>1)</sup>	21 x 8 - 9 <sup>1)</sup>	
	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 - 1118 (twin) <sup>5)</sup>	972 - 1118 (twin) <sup>5)</sup>	972 - 1118 (twin) <sup>5)</sup>	1104 - 1118 (twin) <sup>7)</sup>	
	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	2350	2500
	4.3	Free height		h2 (mm)	80	80	80	80
	4.4	Lift height		h3 (mm)	3300 <sup>2)</sup>	3300 <sup>2)</sup>	3300 <sup>2)</sup>	3400 <sup>2)</sup>
	4.5	Mast maximum overall height		h4 (mm)	4170	4170	4170	4350
	4.7	Overheadguard height		h6 (mm)	2317	2317	2317	2317
	4.8	Seat Height		h7 (mm)	1259	1259	1259	1259
	4.12	Drawbar height		h10 (mm)	550	550	550	550
	4.19	Overall Length		l1 (mm)	3678	3822	3822	3882
	4.20	Overall Length including fork arms spessore forche		l2 (mm)	2678	2822	2822	2882
	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	13/15
	5.2	Lifting speed	with / without load	m/s	0,33/0,46	0,33/0,46	0,28/0,46	0,26/0,39
	5.3	Lowering speed	with / without load	m/s	0,6/0,45	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	2849/3877
	5.6	Drawbar pull tractive effort (S2 5 min)	with / without load	N	13790/14500	13630/14450	13455/14380	13249/14277
	5.7	Gradeability (S2 30 min)	with / without load	%	5,5/10	5/9	4,5/9	4/8
	5.8	Maximum gradeability (S2 5 min)	with / without load	%	14/25	13/23	11/21	11/21
Engine	5.9	Acceleration time (10 m)	with / without load	s	5,1/4,6	5,5/4,8	5,7/5	6/5,2
	5.10	Service brake			Electric/Mechanic	Electric/Mechanic	Electric/Mechanic	Electric/Mechanic
	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
Others	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
	6.6	Power consumption according to VDI cycle		kWh/h	-	-	-	-
	8.2	Service pressure for attachments		bar	170	170	170	170
	8.3	Oil range for equipment (max available)		l/min	-	-	-	-
	8.4	Sound level at drivers ear		dB (A)	74	74	74	74
	8.5	Towing hook, model/type din			-	-	-	-

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

0) The actual load capacity is in accordance with the position of the load centre distance, the type of lift, lifting height, tyres and any equipment  
 1) For alternative wheels see the attached table  
 2) For all lift mast see the attached table  
 3) With integral sideshift + 25 mm  
 4) The front wheel SE for XE 45 become 28 x 12,5 - 5 for: SX with h3 > 4000mm, DX with h3 > 4050mm, TX with all lift h3  
 5) Front carriage 1062mm for SEG: SX with 4200 ≤ h3 ≤ 5000, for all TX Front carriage 1118mm for SEG: for all SX and DX front carriage 1241mm for SEG: for all TX

front carriage 1062mm for PNS: SX with 4200 ≤ h3 ≤ 5000, for all TX front carriage 1241mm for PNG: for all SX, DX and TX front carriage. 1034mm for CU: for all SX and DX front carriage. 1080mm for CU: for all TX  
 6) front carriage 1104mm for SES: SX with 4200 ≤ h3 ≤ 5000, for all TX front carriage 1118mm for SEG: all SX and DX front carriage. 1241mm for SEG: all TX front carriage 1241mm for SEG: all SX, DX and TX front carriage 1034mm for CU: for all SX and DX front carriage 1080mm for CU: all TX  
 7) front carriage 1118mm for SEG: all SX front carriage 1241mm for SEG: all TX



## LIFT MAST SPECIFICATIONS

		Standard (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	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	80	-	-	-	-	-	-	-	1350	1450	1550	1700	1800	1900	2050	2150	2250	2350

## WHEELS

Type	SE=superelastic		PNS=pneumatic		CU=cushion	
	Front	Rear	Front	Rear	Front	Rear
XE 35	7.00 - 15 (twin)	21 x 8 - 9	250 - 15/18 p.r.	21x8 - 9/16 p.r.	645/300 - 410Z	18x7x12 1/8
	-	-	7.00 - 15/ 12 p.r. (twin)	21x8 - 9/16 p.r.	-	-
XE 40	7.00 - 15 (twin)	21 x 8 - 9	250 - 15/18 p.r.	21x8 - 9/16 p.r.	645/300 - 410Z	18x7x12 1/8
	-	-	7.00 - 15/12 p.r. (twin)	21x8 - 9/16 p.r.	-	-
XE 45	7.00 - 15 (twin)	21 x 8 - 9	7.00 - 15/12 p.r. (twin)	21x8 - 9/16 p.r.	645/300 - 410Z	18x7x12 1/8
XE 50	7.00 - 15 (twin)	21 x 8 - 9	-	-	-	-



## XE 35 - 40 - 45 - 50 Counterbalanced fork lift truck



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.

**Technical data are given as an indication.**  
**OM Carrelli Elevatori reserves the right to modify them without notice.**



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