XD 40 - 45 - 50
Technical Data

XD 40 - 45 - 50 Technical Data

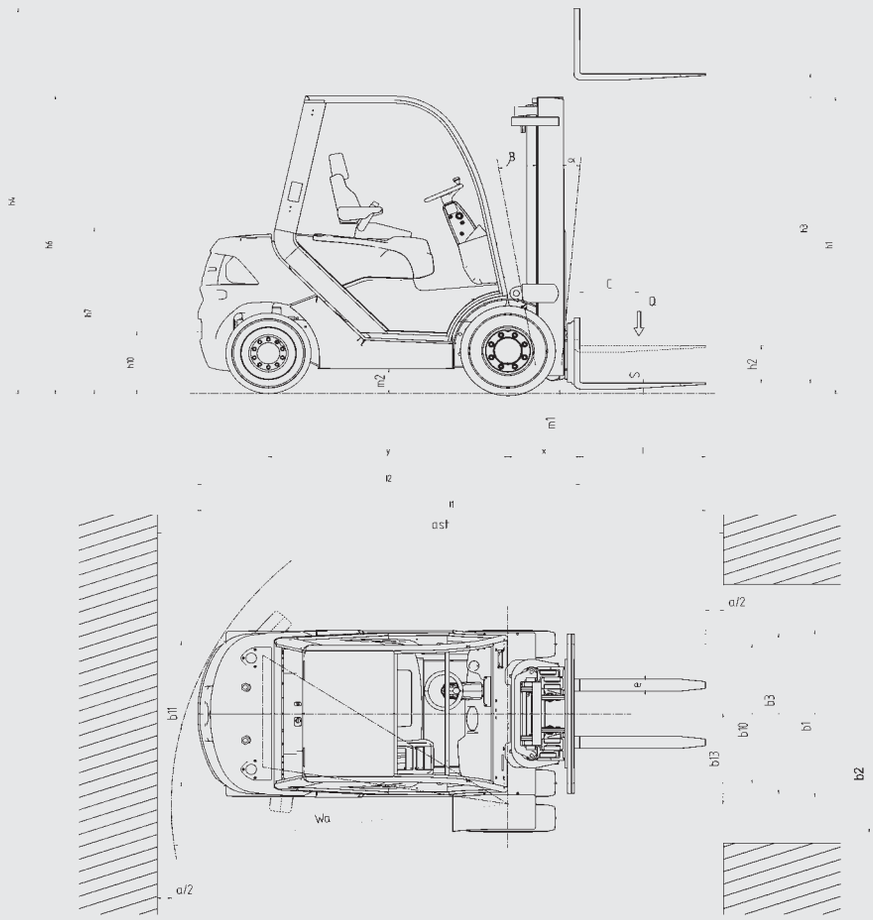
VDI 2198

Specification	1.1	Manufacturer		OM	OM	OM
	1.2	Model designation		XD 40	XD 45	XD 50
	1.3	Type of drive: Electric - Diesel - Petrol - GPL - Network Power (Electric)		Diesel	Diesel	Diesel
	1.4	Operation Type: Hand - Stand-on - Driver seated		Driver seated	Driver seated	Driver seated
	1.5	Load Capacity	Q (t)	4,0 [0)]	4,5 [0)]	4,999 [0)]
	1.6	Load Barycenter Distance	c (mm)	500	500	500
	1.8	Axle centre to fork face	x (mm)	480 [11)]	480 [11)]	480 [11)]
	1.9	Wheel Base	y (mm)	1830	1830	2000
Weights	2.1	Service Weight	kg	5840/6030 (twin)	6175/6365 (twin)	6510/6700 (twin)
	2.2	Axle Weight with Rated Load front / rear	kg	8745/1095	9450/1225	10310/1200
	2.3	Axle Weight without load front / rear	kg	2485/3355	2350/3825	2605/3905
Wheels and	3.1	Tyres: SE = Superelastic PN = Pneus		SE / SE [1)]	SE / SE [1)]	SE / SE [1)]
Tyres	3.2	Front Tyres Size		250 - 15 [1)]	250 - 15 [1)]	28x12.5 - 15 [1)]
	3.3	Rear Tyres Size		7.00-12 [1)]	7.00-12 [1)]	7.00-12 [1)]
	3.5	Tyres: Number of Front / Rear Tyres (x = drive)		2 (4) x 2	2 (4) x 2	2 (4) x 2
	3.6	Front Track Width	b_{10} (mm)	1125 [3)] -1406 (twin)	1125 [3)] -1406 (twin)	1135-1406 (twin)
	3.7	Rear track Width	b_{11} (mm)	1167	1167	1167
Dimensions and	4.1	Mast lift, forward / backward	Grad	5°/10° [2)]	5°/10° [2)]	5°/10° [2)]
Overall Sizes	4.2	Mast Minimum Overall Height	h_1 (mm)	2415	2415	2400
	4.3	Free Lift	h_2 (mm)	150 [10)]	150 [10)]	150 [10)]
	4.4	Lift Height	h_3 (mm)	3300	3300	3300
	4.5	Mast Maximum Overall Height	h_4 (mm)	4035 [9)]	4035 [9)]	4020 [9)]
	4.7	Overhead Guard Height	h_6 (mm)	2416	2416	2396
	4.8	Seat Height	h_7 (mm)	1300	1300	1280
	4.12	Drawbar Height	h_{10} (mm)	545	545	525
	4.19	Overall Length	l_1 (mm)	3790	3850	3960
	4.20	Overall Length Including Fork Arms	l_2 (mm)	2790	2850	2960
	4.21	Overall Width	b_1 /b_2 (mm)	1350/1914 (twin)	1350/1914 (twin)	1427/1914 (twin)
	4.22	Fork Arms Dimensions	s/e/l (mm)	1000/120/50	1000/130/60	1000/130/60
	4.23	Fork Carriage in Compliance with DIN 15173 Class / Form A, B		III-A	III-A	III-A
	4.24	Fork Carriage Width	b_3 (mm)	1350/1760 (twin)	1350/1760 (twin)	1350/1760 (twin)
	4.31	Mast Ground Clearance (with load)	m_1 (mm)	139	139	122
	4.32	Chassis Ground Clearance (with load) [middle of the chassis]	m_2 (mm)	194	194	186
	4.33	Aisle Width with Pallet 1000x1200 and Fork Arms Pitch 1200	A_{st} (mm)	4243	4283	4392
	4.34	Aisle Width with Pallet 800x1200 and Fork Arms Pitch 800	A_{st} (mm)	4443	4483	4592
	4.35	Turning Radius	W_a (mm)	2473	2513	2472
	4.36	Turning Point Minimum Distance from the Truck Center Line	b_{13} (mm)	700	700	700
Performance	5.1	Drive Speed with / without load	km/h	25/ 25,5	24,5 / 25	24,5 / 25
	5.2	Lifting speed with / without load	m/s	0,55/0,60	0,48/0,52	0,48/0,52
	5.3	Lowering speed with / without load	m/s	0,49/0,43	0,49/0,43	0,49/0,43
	5.5	Drawbar Pull Tractive Effort (at 2 km/h) with / without load	N	27000 / 13500 [4)]	27000 / 13000 [4)]	26500 / 15000 [4)]
	5.7	Gradeability (at 2 km/h) with / without load	%	28 / 24 [5)] -(45 M.I.V.) [6)]	26/20,5 [5)]-(41M.I.V.) [6)]	24 / 22 [5)]-(42M.I.V.) [6)]
	5.9	Acceleration Time (15 m) with / without load	s	4,7 / 4,3 [7)]	5,1 / 4,5 [7)]	5,2 / 4,5 [7)]
	5.10	Service Brake		Mechanical/Hydraulic	Mechanical/Hydraulic	Mechanical/Hydraulic
Engine	7.1	Engine Manufacturer / Engine Type		Iveco - NEF [8)]	Iveco - NEF [8)]	Iveco - NEF [8)]
	7.2	Engine Power in compliance with ISO 1585	kW	60	60	60
	7.3	Rated Number of Revolutions	min^{-1}	2200	2200	2200
	7.4	Cylinder Number / Displacement	cm^3	4/4500	4/4500	4/4500
	7.5	Fuel Consumption in compliance with VD-Cycle	l/h	5,6	6,0	6,5
Others	8.1	Drive Control Type		Hydrodynamic Transm.	Hydrodynamic Transm.	Hydrodynamic Transm.
	8.2	Service Pressure for Attachments	bar	0-200	0-200	0-200
	8.3	Oil Flow rate for Attachments (max. available)	l/min	80	80	80
	8.4	Noise at Operator's Ear	dB (A)	81	81	81
	8.5	Drawbar, model / type DIN		-	-	-

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

For alternative forklift details see the attached specification tables.

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) 5° /6° with TX lift
3) The front wheel track becomes 1135 mm with 28 x 12.5 - 15 of 50 q tyres
4) Values on the limit of adherence in forward gear with f=0.9
5) On the limit of adherence in forward gear with f=0.9; maximum gradient parking according to ISO 6292
6) Theoretical statistics
7) From the moment in which the forklift moves (in first gear)
8) Motor abbreviation number: F4GE0404B*D6
9) With a 6 rollers plate h4 increases by 150 mm for the SX, DX e TX
10) with a 6 rollers plate h2 decreases by 150 mm for the DX and TX (no variation for the SX)
11) For 40-45 e 50q: SX with integral sideshift x = 523mm; DX without integral sideshift x = 488mm, with integral sideshift x = 525mm; TX without integral sideshift x = 480mm, with integral sideshift x = 517mm



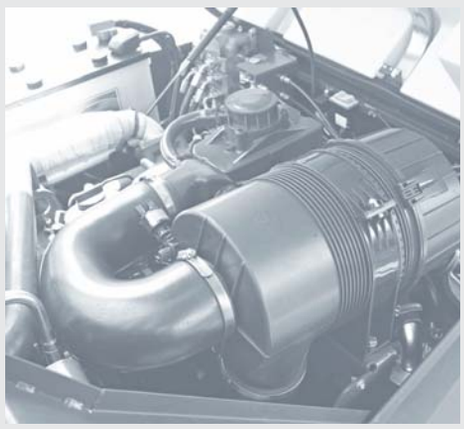
LIFT MAST SPECIFICATIONS

				Simplex										Duplex					Triplex									
XD 40	Lift Height	h_3	mm	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	3300	3600	3900	4200	4500	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500
	Minimum Overall Height	h_1	mm	2415	2565	2615	2865	3015	3165	3365	3515	3715	3865	2415	2565	2715	2865	3015	2415	2415	2515	2615	2715	2865	2965	3065	3215	3315	3415
	Maximum Overall Height	h_4	mm	4035	4335	4635	4935	5235	5535	5865	6165	6615	6815	4152	4452	4752	5052	5352	5285	5585	5885	6185	6485	6785	7085	7385	7685	7985	8285
	Free Lift	h_2	mm	150	150	150	150	150	150	150	150	150	150	1630	1780	1930	2080	2230	1630	1630	1730	1830	1930	2080	2180	2280	2430	2530	2630
XD 45	Lift Height	h_3	mm	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	3300	3600	3900	4200	4500	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500
	Minimum Overall Height	h_1	mm	2415	2565	2615	2865	3015	3165	3365	3515	3715	3865	2415	2565	2715	2865	3015	2415	2415	2515	2615	2715	2865	2965	3065	3215	3315	3415
	Maximum Overall Height	h_4	mm	4035	4335	4635	4935	5235	5535	5865	6165	6615	6815	4152	4452	4752	5052	5352	5285	5585	5885	6185	6485	6785	7085	7385	7685	7985	8285
	Free Lift	h_2	mm	150	150	150	150	150	150	150	150	150	150	1630	1780	1930	2080	2230	1630	1630	1730	1830	1930	2080	2180	2280	2430	2530	2630
XD 50	Lift Height	h_3	mm	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	3300	3600	3900	4200	4500	4500	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500
	Minimum Overall Height	h_1	mm	2400	2550	2600	2850	3000	3150	3350	3500	3700	3850	2400	2550	2700	2850	3000	2400	2400	2500	2600	2700	2850	2950	3050	3200	3300	3400
	Maximum Overall Height	h_4	mm	4020	4320	4620	4920	5220	5520	5850	6150	6600	6800	4137	4437	4737	5037	5337	5270	5570	5870	6170	6470	6770	7070	7370	7670	7970	8270
	Free Lift	h_2	mm	150	150	150	150	150	150	150	150	150	150	1630	1780	1930	2080	2230	1630	1630	1730	1830	1930	2080	2180	2280	2430	2530	2630

WHEELS

Type	Superelastic (SE)		Pneumatic (PN)	
	Front	Rear	Front	Rear
XD 40	28 x 12,5 -15	7.00 - 12	250 -15/18 p.r.	7.00x12/16 p.r.
	250 -15 (twin)	7.00 - 12	250-15/18 p.r (twin)	7.00x12/16 p.r.
XD 45	28 x 12,5 -15	7.00 - 12	250-15/18 p.r.	7.00x12/16 p.r.
	250 -15 (twin)	7.00 - 12	250-15/18 p.r (twin)	7.00x12/16 p.r.
XD 50	-	-	28x12,5 - 15 24 p.r.	7.00x12/16 p.r.
	250 -15 (twin)	7.00 - 12	250-15/18 p.r (twin)	7.00x12/16 p.r.

XD 40 - 45 - 50



This forklift has been designed for heavy work, and is suitable for several uses, distinguished by its sturdiness, reliability and top-class versatility.

The **operators protection module** is completely suspended. The F.S.C. - **Full Suspended Cab** system reduces vibration to a minimum and, together with an acoustic insulation system, reduces noise level. The MSG20 seat, the hydraulic levers situated at the side of the operator, the pedals in the same position as they are in a car and the perfect visibility mean that the driver has a comfortable ergonomic working position, making it easy to drive, reducing fatigue and improving performance.

The **chassis** has been designed by means of a CAD-3D system using the F.E.M (Finite Elements Methods) calculation method which enables more torsional rigidity. Better stability is also ensured against bending and double trace welding. The modular structure gives excellent access to all the internal components.

The new Iveco Diesel **motor** from the NEF series, conforming to the stage II - 97/68/CE Directive, guarantees high performance and is characterised by reduction in maintenance and by low fuel consumption. It guarantees 60 Kw of power at 2200 revs and 320 Nm at 1400 revs of torque The new hydrodynamic **transmission** with torque converter is ideal for use both in loading – unloading goods and in transporting along long aisles. The **oil bath disc brakes** guarantee excellent braking capacity even in the most difficult driving conditions. The inching system, which ensures precision in approach manoeuvring by giving maximum lifting speed available at the same time, gives the truck flexibility and adaptability in various work conditions.

The **hydro-drive** is a personalised steering wheel of small dimensions guaranteeing light and more precise steering. The effort required is improved and is under 0.5 Kg.

The new **steering axle** obtained by fusion, means, thanks to the compact structure, a wider steering angle, and a smaller turning circle and smaller work aisles Greasers positioned in contact points mean excellent maintenance with reduction in time and costs.

The new **lifting mast** with optimised profiles together with the new fork holder plates guarantee perfect visibility and high residual carrying capacity. High speed lifting means less time taken for movement of goods and therefore lower running costs. Simplex, Duplex and Triplex masts are available, with lifting capacity of up to 7500 mm.

Options: ■ Manual reverse gear, ■ MSG85 seats, ■ Fabric seats, ■ Heated fabric seating, ■ Work lighting, ■ Flashing beacon, ■ Complete lighting system approved for road use, ■ No-trace tyres, ■ Catalytic converters, ■ Particulate filters, ■ Integral sideshift, ■ Preparation for dusty environments, ■ Raised driving position. ■ Various versions of operator protection cabin, air-conditioning and many other options mean a large range for personalisation.

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

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.om-mh.com

80102 10 - 2006