XD XG 15 - 18 - 20
Technical Data

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VDI 2198

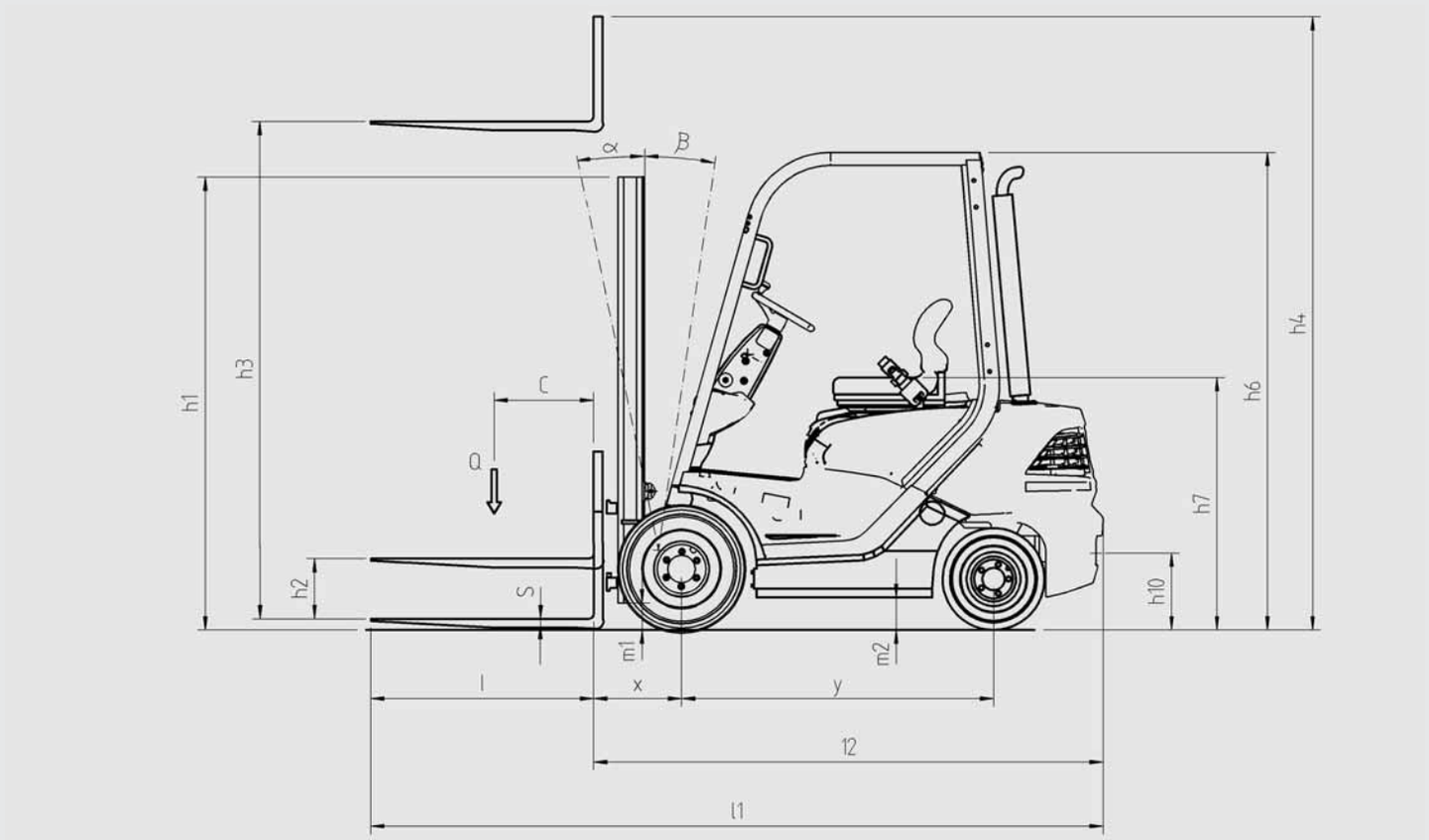
Specification	1.1	Manufacturer		OM	OM	
	1.2	Model designation		XD 15	XD 18	
	1.3	Type of drive: Electric - Diesel - Petrol - GPL - Network Power (Electric)		Diesel	Diesel	
	1.4	Operation Type: Hand - Stand-on - Driver seated		Driver seated	Driver seated	
	1.5	Load Capacity	Q (t)	1,5	1,8	
	1.6	Load Barycenter Distance	c (mm)	500	500	
	1.8	Axle centre to fork face	x (mm)	395 [1)]	400 [1)]	
	1.9	Wheel Base	y (mm)	1400	1400	
Weights	2.1	Service Weight	kg	2580	2810	
	2.2	Axle Weight with Rated Load front / rear	kg	3600 / 480	4100 / 510	
	2.3	Axle Weight without load front / rear	kg	1140 / 1440	1140 / 1670	
Wheels and	3.1	Tyres: SE = Superelastic PN = Pneus		SE / SE [2)]	SE / SE [2)]	
Tyres	3.2	Front Tyres Size		6.50-10	6.50-10	
	3.3	Rear Tyres Size		5.00-8	18 x 7 - 8	
	3.5	Tyres: Number of Front / Rear Tyres (x = drive)		2 x / 2	2 x / 2	
	3.6	Front Track Width	b10 (mm)	955	955	
	3.7	Rear track Width	b11 (mm)	940	910	
Dimensions and	4.1	Mast lift, forward / backward	Grad	3°/ 9° [3)]	3°/ 9° [3)]	
Overall Sizes	4.2	Mast Minimum Overall Height	h1 (mm)	2210	2215	
	4.3	Free Lift	h2 (mm)	150	150	
	4.4	Lift Height	h3 (mm)	3330	3330	
	4.5	Mast Maximum Overall Height	h4 (mm)	3905 [8)]	3978 [8)]	
	4.7	Overhead Guard Height	h6 (mm)	2145 [4)]	2145 [4)]	
	4.8	Seat Height	h7 (mm)	1130	1130	
	4.12	Drawbar Height	h10 (mm)	380	380	
	4.19	Overall Length	l1 (mm)	3190	3225	
	4.20	Overall Length Including Fork Arms	l2 (mm)	1795 [9)]	1800 [9)]	
	4.21	Overall Width	b1/b2 (mm)	1120	1120	
	4.22	Fork Arms Dimensions	s/e/l (mm)	40x80x1000	45x100x1000	
	4.23	Fork Carriage in Compliance with DIN 15173 Class / Form A, B		2-A	2-A	
	4.24	Fork Carriage Width	b3 (mm)	1040 [10)]	1040 [10)]	
	4.31	Mast Ground Clearance (with load)	m1 (mm)	107	102	
	4.32	Chassis Ground Clearance (with load) [middle of the chassis]	m2 (mm)	127	127	
	4.33	Aisle Width with Pallet 1000x1200 and Fork Arms Pitch 1200	Ast (mm)	3582 [11)]	3632 [11)]	
	4.34	Aisle Width with Pallet 800x1200 and Fork Arms Pitch 800	Ast (mm)	3782 [11)]	3832 [11)]	
	4.35	Turning Radius	Wa (mm)	1895	1950	
	4.36	Turning Point Minimum Distance from the Truck Center Line	b13 (mm)	480	480	
Performance	5.1	Drive Speed with / without load	km/h	20,5 / 21	20 / 20,5	
	5.2	Lifting speed with / without load	m/s	0,63 / 0,69	0,65 / 0,69	
	5.3	Lowering speed with / without load	m/s	0,47 / 0,41	0,48 / 0,41	
	5.5	Drawbar Pull Tractive Effort (at 2 km/h) with / without load	N	12250 / 8040 [6)]	12100 / 7990 [6)]	
	5.7	Gradeability (at 2 km/h) with / without load	%	27 /27 [7)] (> 50M.I.) [12)]	25/25 [7)] (48 M.I.) [12)]	
	5.9	Acceleration Time (15 m) with / without load	s	5,0 / 4,4	5,0 / 4,4	
	5.10	Service Brake		Mechanical/hydraulic	Mechanical/hydraulic	
Engine	7.1	Engine Manufacturer / Engine Type		YANMAR [13)]	YANMAR [13)]	
	7.2	Engine Power	kW	34	34	
	7.3	Rated Number of Revolutions	min -1	2450	2450	
	7.4	Cylinder Number / Displacement	cm 3	4/2650	4/2650	
	7.5	Fuel Consumption in compliance with VD-Cycle	l/h	2,7	3,00	
Others	8.1	Drive Control Type		Hydrodynamic Transm.	Hydrodynamic Transm.	
	8.2	Service Pressure for Attachments	bar	160	160	
	8.3	Oil Flow rate for Attachments (max. available)	l/min	40	40	
	8.4	Noise at Operator's Ear	dB (A)	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

1) XD 15: TX GAL 415 mm; XD 18: TX GAL 420 mm; XD 20: TX GAL 432 mm; XD 15-18-20 with S.L.I. +17 mm SX,DX,TX
2) XD 15-18-20 for alternative tyres see table
3) XD 15-18-20 SX,DX >= 4050 mm, 3° / 6°, TX 3° / 6° 3°/6° for all cabs except lexan roof
4) XD 15-18-20 1980 mm variante a richiesta
6) Taction limit forward travelling with f=0,9
7) Taction limit forward travelling with f=0,9; maximum gradeability brake complying with ISO 6292
8) 6 Rollers fork plate: 3973 mm
9) It change as note 1); l2= x+y
10) With lateral side shift 980 mm
11) Without lateral side shift - 17 mm
12) Theorical data
13) Model 4TNE92-POM, stage IIIA

OM	OM	OM	OM	1.1
XD 20	XG 15	XG 18	XG 20	1.2
Diesel	G.P.L.	G.P.L.	G.P.L.	1.3
Driver seated	Driver seated	Driver seated	Driver seated	1.4
2,0	1,5	1,8	2,0	1.5
500	500	500	500	1.6
410 [1)]	395 [1)]	400 [1)]	410 [1)]	1.8
1400	1400	1400	1400	1.9
3200	2750	3020	3170	2.1
4560 / 640	3600 / 480	4100 / 510	4500 / 630	2.2
1255 / 1945	1140 / 1440	1140 / 1670	1200 / 1930	2.3
SE / SE [2)]	SE / SE [2)]	SE / SE [2)]	SE / SE [2)]	3.1
6.50-10	6.50-10	6.50-10	6.50-10	3.2
18 x 7 - 8	5.00-8	18 x 7 - 8	18 x 7 - 8	3.3
2 x / 2	2 x 2	2 x 2	2 x 2	3.5
955	954 [14)]	954	954	3.6
910	890	890	890	3.7
3°/ 9° [3)]	3°/9° [3)]	3°/9° [3)]	3°/9° [3)]	4.1
2270	2210	2215	2270	4.2
150	150	150	150	4.3
3350	3330	3330	3350	4.4
4056	3905 [8)]	3978 [8)]	4056	4.5
2145 [4)]	2145 [4)]	2145 [4)]	2145 [4)]	4.7
1130	1130 [5)]	1130 [5)]	1130 [5)]	4.8
380	380	380	380	4.12
3270	3190	3225	3270	4.19
1810 [9)]	1795 [9)]	1800 [9)]	1810 [9)]	4.20
1120	112013	1120	1120	4.21
45x100x1000	40x80x1000	45x100x1000	45x100x1000	4.22
2-A	2-A	2-A	2-A	4.23
1040 [10)]	1040 [10)]	1040 [10)]	1040 [10)]	4.24
97	107	102	97	4.31
127	127	127	127	4.32
3730	3565 [11)]	3615 [11)]	3730 [1)]	4.33
3930	3765 [1)]	3815 [1)]	3930	4.34
1985	1895	1950	1985	4.35
480	480	480	480	4.36
20 / 20,5	20 / 20,5	20 / 20,5	20 / 20,5	5.1
0,60 / 0,63	0,66 / 0,70	0,64 / 0,70	0,55 /0,60	5.2
0,42 / 0,36	0,47 / 0,41	0,48 / 0,41	0,42 / 0,36	5.3
13500 / 8500 [6)]	12100 / 8100 [6)]	12100 / 8100 [6)]	12000 / 8500 [6)]	5.5
24 / 24,5 [7)] (>45 M.I.) 12)	29 / 24 [7)] (>40 M.I.V) [12)]	25,5 / 22,5 [7)] (>40 M.I.V) [12)]	23,5 / 23 [7)] (40 M.I.V) [12)]	5.7
5,2 / 4,5	4,7 / 4,2	4,9 / 4,3	5,0 / 4,4	5.9
Mechanical/hydraulic	Mechanical/hydraulic	Mechanical/hydraulic	Mechanical/hydraulic	5.10
YANMAR [13)]	NISSAN K 21	NISSAN K 21	NISSAN K 21	7.1
34	33	33	33	7.2
2450	2450	2450	2450	7.3
4/2650	4/2065	4/2065	4/2065	7.4
3,1	2,7 [13)]	2,8 [13)]	3,0 [13)]	7.5
Hydrodynamic Transm.	Hydrodynamic Transm.	Hydrodynamic Transm.	Hydrodynamic Transm.	8.1
160	160	160	160	8.2
45	35	35	40	8.3
81	80	80	80	8.4
-	-	-	-	8.5

1) XG 15:TX GAL 415 mm; XG18: TX GAL 420 mm; XG20 TX GAL 432 mm
XG 15-18-20: with S.L.I. + 17 mm SX,DX,TX
2) XG 15-18-20 for alternative tyres see table
3) XG 15-18-20: SX,DX >= 4050 mm 3°/6°;TX 3°/6°
3°/6° for all cabs except lexan roof
4) XG 15-18-20 1980 mm as option
5) XG 15-18-20 990mm as option, binded to note 4) option
6) XG 15-18-20 Taction limit forward travelling with f=0,9
7) Taction limit forward travelling with f=0,9; maximum gradeability brake complying with ISO 6292
8) 6 Rollers fork plate: 3973 mm
9) It change as note 1); l2= x+y
10) With lateral side shift 980 mm
11) Without lateral side shift - 17 mm
12) Theorical data
13) Consumption VDI 2198 (60 cycles/h) in l/h: XG 15: 5,2; XG 18: 5,4; XG20: 5,8


α
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h1
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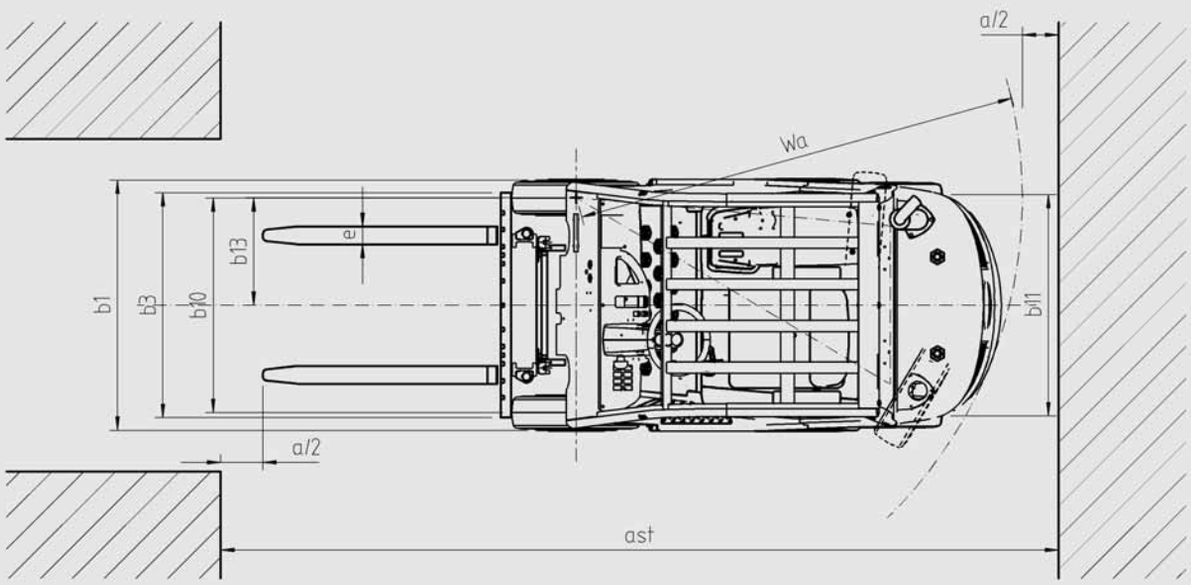
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LIFT MAST SPECIFICATIONS

		Standard (Simplex)					Duplex					Triplex						
XD/XG 15	Lift Height h_3 mm	3330	3630	4030	4530	5030	2875	2975	3275	3575	3975	4170	4470	4770	5220	5770	6370	6970
	Minimum Overall Height h_1 mm	2222	2372	2572	2822	3072	1972	2022	2172	2322	2522	1972	2072	2172	2322	2572	2772	2972
	Maximum Overall Height h_4 mm	3917	4217	4617	5117	5617	3462	3562	3862	4162	4562	4757	5057	5357	5807	6357	6957	7557
	Free Lift h_2 mm	150	150	150	150	150	1312	1362	1512	1662	1862	1312	1412	1512	1662	1912	2112	2312
XD/XG 18	Lift Height h_3 mm	3330	3630	4030	4530	5030	2875	2975	3275	3575	3975	4170	4470	4770	5220	5770	6370	6970
	Minimum Overall Height h_1 mm	2217	2367	2567	2817	3067	1967	2017	2167	2317	2517	1967	2067	2167	2317	2567	2767	2967
	Maximum Overall Height h_4 mm	3980	4280	4680	5180	5680	3550	3650	3950	4250	4650	4845	5145	5445	5895	6445	7045	7645
	Free Lift h_2 mm	150	150	150	150	150	1312	1362	1512	1662	1862	1312	1412	1512	1662	1912	2112	2312
XD/XG 20	Lift Height h_3 mm	3350	3650	4050	4550	5050	-	2970	3270	3570	3970	-	4465	4765	5215	5665	6265	6865
	Minimum Overall Height h_1 mm	2262	2412	2612	2862	3112	-	2012	2162	2312	2512	-	2062	2162	2312	2462	2662	2862
	Maximum Overall Height h_4 mm	4048	4348	4748	5248	5748	-	3648	3948	4248	4648	-	5158	5458	5908	6358	6958	7558
	Free Lift h_2 mm	150	150	150	150	150	-	1445	1595	1745	1945	-	1495	1595	1745	1895	2095	2295

(*) with optional fork carriage (6 rollers)

h4 = h4 + 68 mm (SX)

h4 = h4 + 93 mm (DX-TX)
h2 = h2 - 93 mm (DX-TX)

WHEELS

Type	Pneumatic (PN)	
	Front	Rear
XD/XG 15	6.50-10/14 p.r.	5.00-8/8 p.r.
XD/XG 18	6.50-10/14 p.r.	18x7-8/16 p.r.
XD/XG 20	6.50-10/14 p.r.	18x7-8/16 p.r.

XD XG 15 - 18 - 20
Internal combustion counterbalanced forklift trucks

The new XD/G 15-20 is the latest evolution of OM know-how in designing and building internal combustion forklift trucks.

Each and every detail has been reviewed and enhanced: comfort, productivity, easy servicing, operating costs and pollution levels are the main fields of improvement. The design of the XD/G 15-20 is by Zagato harmonizing together style and full functionality.
The operator's place was completely re-designed to grant the user optimum comfort: it is fully suspended on rubber silentblocks to absorb vibrations (F.S.C. – Full Suspended Cab system); as standard the pedals layout has the integrated forward/reverse selection (as option manual reverse is available), the integrated inching/brake pedal is large and can be used both with left and right foot. The hydrodynamic transmission, perfectly tuned, allows the best precision and smoothness in handling activities.

The standard Grammer MSG 20 seat is able to deaden any vibration to reduce the operator fatique. As option the armrest equipped extra comfort seat MSG 65 by Grammer can be installed as well.
The noise level is kept low by mean of an accurate acoustic insulation system.
All driving commands of XD/G 15-20 range are servo assisted: inching/braking pedal and hydrostatic steering with an effort required lower than 0.5 Kg. The new Yanmar diesel engine, 2.7 liters of displacement is compliant to Stage IIIa requirements of Directive 97/68/CE.
The LPG version is powered by the Nissan K21 engine with a displacement of 2.1 liters. Both powerlines are industrial type and specifically designed for forklift trucks applications.
They grant the right power and torque, environmentally friendly with the lowest fuel consumption of their class. The new XD/G 15-20 range is covered by the OM INTRINSIC SAFETY PROGRAM dedicated to enforce the highest level of safety in any working condition. OMISP includes the Mast Safety System -mast locked when the operator is not seated. The XD/G 15-20 trucks range is in compliance with ISO 3691-1 standards.
Simplex, duplex and triplex masts with heights up to 6900 mm are available.
Options: manual fwd/rev switch, sideshifter, seats, lights, wheels, sooth filter, catalysts, different versions of cabs and many others allow full customization.

OM continually improves products as new technologies and components become available.
OM therefore, reserves the rights to change specifications without prior notice.

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