

# XD XG 15 - 18 - 20

## Technical Data



# XD XG 15 - 18 - 20 Technical Data

VDI 2198

Specification			OM	OM		
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 <sup>0)</sup>	1,8 <sup>0)</sup>		
1.6	Load Barycenter Distance	c (mm)	500	500		
1.8	Axle centre to fork face	x (mm)	395 <sup>1)</sup>	400 <sup>1)</sup>		
1.9	Wheel Base	y (mm)	1400	1400		
Weights	2.1	Service Weight	kg	2610	2870	
	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 Tyres	3.1	Tyres: SE = Superelastic PN = Pneus		SE / SE <sup>2)</sup>	SE / SE <sup>2)</sup>	
	3.2	Front Tyres Size		6.00-9	21 x 8 - 9	
	3.3	Rear Tyres Size		5.00-8	18 x 7 - 8	
	3.5	Tyres: Number of Front / Rear Tyres (x = drive)		2 (4) x 2	2 (4) x 2	
	3.6	Front Track Width	b10 (mm)	900-1090 (twin)	950-1090 (twin)	
Dimensions and Overall Sizes	3.7	Rear track Width	b11 (mm)	890	890	
	4.1	Mast lift, forward / backward	Grad	3° / 9° <sup>3)</sup>	3° / 9° <sup>3)</sup>	
	4.2	Mast Minimum Overall Height	h1 (mm)	2210	2210	
	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 <sup>4)</sup>	3973 <sup>4)</sup>	
	4.7	Overhead Guard Height	h6 (mm)	2095 <sup>4)</sup>	2095 <sup>4)</sup>	
	4.8	Seat Height	h7 (mm)	1030 <sup>5)</sup>	1030 <sup>5)</sup>	
	4.12	Drawbar Height	h10 (mm)	-	-	
	4.19	Overall Length	l1 (mm)	3180	3235	
	4.20	Overall Length Including Fork Arms	l2 (mm)	1795 <sup>9)</sup>	1800 <sup>9)</sup>	
	4.21	Overall Width	b1/b2 (mm)	1060-1450 (twin)	1150-1450 (twin)	
	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 <sup>10)</sup>	1040 <sup>10)</sup>	
	4.31	Mast Ground Clearance (with load)	m1 (mm)	95	95	
	4.32	Chassis Ground Clearance (with load) [middle of the chassis]	m2 (mm)	130	130	
	4.33	Aisle Width with Pallet 1000x1200 and Fork Arms Pitch 1200	Ast (mm)	3582 <sup>11)</sup>	3632 <sup>11)</sup>	
	4.34	Aisle Width with Pallet 800x1200 and Fork Arms Pitch 800	Ast (mm)	3782 <sup>11)</sup>	3832 <sup>11)</sup>	
	4.35	Turning Radius	Wa (mm)	1965	2010	
4.36	Turning Point Minimum Distance from the Truck Center Line	b13 (mm)	-	-		
Performance	5.1	Drive Speed with / without load	km/h	18,5 / 19	18,5 / 19	
	5.2	Lifting speed with / without load	m/s	0,66 / 0,68	0,66 / 0,68	
	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	11340/8040 <sup>6)</sup>	11300/7990 <sup>6)</sup>	
	5.7	Gradeability (at 2 km/h) with / without load	%	28 / 28 <sup>7)</sup> (> 50 M.I.) <sup>12)</sup>	25/25 <sup>7)</sup> (48 M.I.) <sup>12)</sup>	
	5.9	Acceleration Time (15 m) with / without load	s	4,6 / 4,2	4,6 / 4,2	
	5.10	Service Brake		Mechanical/hydraulic	Mechanical/hydraulic	
	Engine	7.1	Engine Manufacturer / Engine Type		LOMBARDINI LDW 2204/B4	LOMBARDINI LDW 2204/B4
		7.2	Engine Power	kW	32	32
		7.3	Rated Number of Revolutions	min -1	2500	2500
7.4		Cylinder Number / Displacement	cm 3	4/2199	4/2199	
7.5		Fuel Consumption in compliance with VD-Cycle	l/h	2,7	2,85	
Others	8.1	Drive Control Type		Hydrodynamic Transm.	Hydrodynamic Transm.	
	8.2	Service Pressure for Attachments	bar	170	200	
	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

0) The effective capacities are a function of the position of the centre of gravity of the load, the type of lift, the lifting height, the tyres and any fittings

1) XD/XG 15: TX GAL 415 mm;  
XD/XG 18: TX GAL 420 mm;

XD/XG 20: TX GAL 432 mm;  
XD/XG 15-18-20 con S.L.I. +17 mm SX, DX, TX  
2) XD/XG 15-18-20 for alternative tyres see table  
3) XD/XG 15-18-20 SX, DX ≥ 4000 mm, 3° / 6°, TX 3° / 6°  
4) XD/XG 15-18-20 1980 mm optional

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 <sup>0)</sup>	1,5 <sup>0)</sup>	1,8 <sup>0)</sup>	2,0 <sup>0)</sup>	1.5
500	500	500	500	1.6
410 <sup>1)</sup>	395 <sup>1)</sup>	400 <sup>1)</sup>	410 <sup>1)</sup>	1.8
1400	1400	1400	1400	1.9
3125	2750	3020	3170	2.1
4500 / 630	3600 / 480	4100 / 510	4500 / 630	2.2
1200 / 1930	1140 / 1440	1140 / 1670	1200 / 1930	2.3
SE / SE <sup>2)</sup>	SE / SE <sup>2)</sup>	SE / SE <sup>2)</sup>	SE / SE <sup>2)</sup>	3.1
21 x 8 - 9	6.00-9 <sup>13)</sup>	21 x 8 - 9	21 x 8 - 9	3.2
18 x 7 - 8	5.00-8	18 x 7 - 8	18 x 7 - 8	3.3
2 (4) x 2	2 (4) x 2	2 (4) x 2	2 (4) x 2	3.5
950-1090 (twin)	900-1090 (twin) <sup>15)</sup>	950-1090 (twin)	950-1090 (twin)	3.6
890	890	890	890	3.7
3° / 9° <sup>3)</sup>	3°/9° <sup>3)</sup>	3°/9° <sup>3)</sup>	3°/9° <sup>3)</sup>	4.1
2260	2210	2210	2260	4.2
150	150	150	150	4.3
3350	3330	3330	3350	4.4
4046	3905 <sup>8)</sup>	3973 <sup>8)</sup>	4046	4.5
2095 <sup>4)</sup>	2095 <sup>4)</sup>	2095 <sup>4)</sup>	2095 <sup>4)</sup>	4.7
1030 <sup>5)</sup>	1030 <sup>5)</sup>	1030 <sup>5)</sup>	1030 <sup>5)</sup>	4.8
-	-	-	-	4.12
3295	3180	3235	3295	4.19
1810 <sup>9)</sup>	1795 <sup>9)</sup>	1800 <sup>9)</sup>	1810 <sup>9)</sup>	4.20
1150-1450 (twin)	1060-1450 (twin) <sup>14)</sup>	1150-1450 (twin)	1150-1450 (twin)	4.21
45x100x1000	40x80x1000	45x100x1000	45x100x1000	4.22
2-A	2-A	2-A	2-A	4.23
1040 <sup>10)</sup>	1040 <sup>10)</sup>	1040 <sup>10)</sup>	1040 <sup>10)</sup>	4.24
95	95	95	95	4.31
130	130	130	130	4.32
3730	3582 <sup>11)</sup>	3632 <sup>11)</sup>	3665 <sup>1)</sup>	4.33
3930	3795 <sup>1)</sup>	3845 <sup>1)</sup>	3730	4.34
2112	1965	2010	2112	4.35
-	-	-	-	4.36
18,5 / 19	18.5/19	18.5/19	18.5/19	5.1
0,67/0,69	0,62/0,64	0,62/0,64	0,62/0,64	5.2
0,42 / 0,36	0,47 / 0,41	0,48 / 0,41	0,42 / 0,36	5.3
11160/8270 <sup>6)</sup>	11850/8275 <sup>6)</sup>	12450/8200 <sup>6)</sup>	12610/8075 <sup>6)</sup>	5.5
22/24 <sup>7)</sup> (45,5 M.I.) <sup>12)</sup>	28,5/31 <sup>7)</sup> (> 40 M.I.V) <sup>12)</sup>	26/28 <sup>7)</sup> (> 40 M.I.V) <sup>12)</sup>	25/26 <sup>7)</sup> (> 40 M.I.V) <sup>12)</sup>	5.7
4,8 / 4,3	4,7 / 4,3	4,7 / 4,3	4,8 / 4,3	5.9
Mechanical/hydraulic	Mechanical/hydraulic	Mechanical/hydraulic	Mechanical/hydraulic	5.10
LOMBARDINI LDW 2204/B4	PSI-GM/3.0 L	PSI-GM/3.0 L	PSI-GM/3.0 L	7.1
32	37	37	37	7.2
2500	2300	2300	2300	7.3
4/2199	4/2967	4/2967	4/2967	7.4
3,1	6,9	7,1	7,5	7.5
Hydrodynamic Transm.	Hydrodynamic Transm.	Hydrodynamic Transm.	Hydrodynamic Transm.	8.1
185	165	190	180	8.2
45	40	40	45	8.3
81	80	80	80	8.4
-	-	-	-	8.5

5) 990 mm optional with optional in note 4)

6) Traction limit forward travelling with f=0,9

7) Traction limit forward travelling with f=0,9;  
maximum gradeability brake complying with ISO 6292

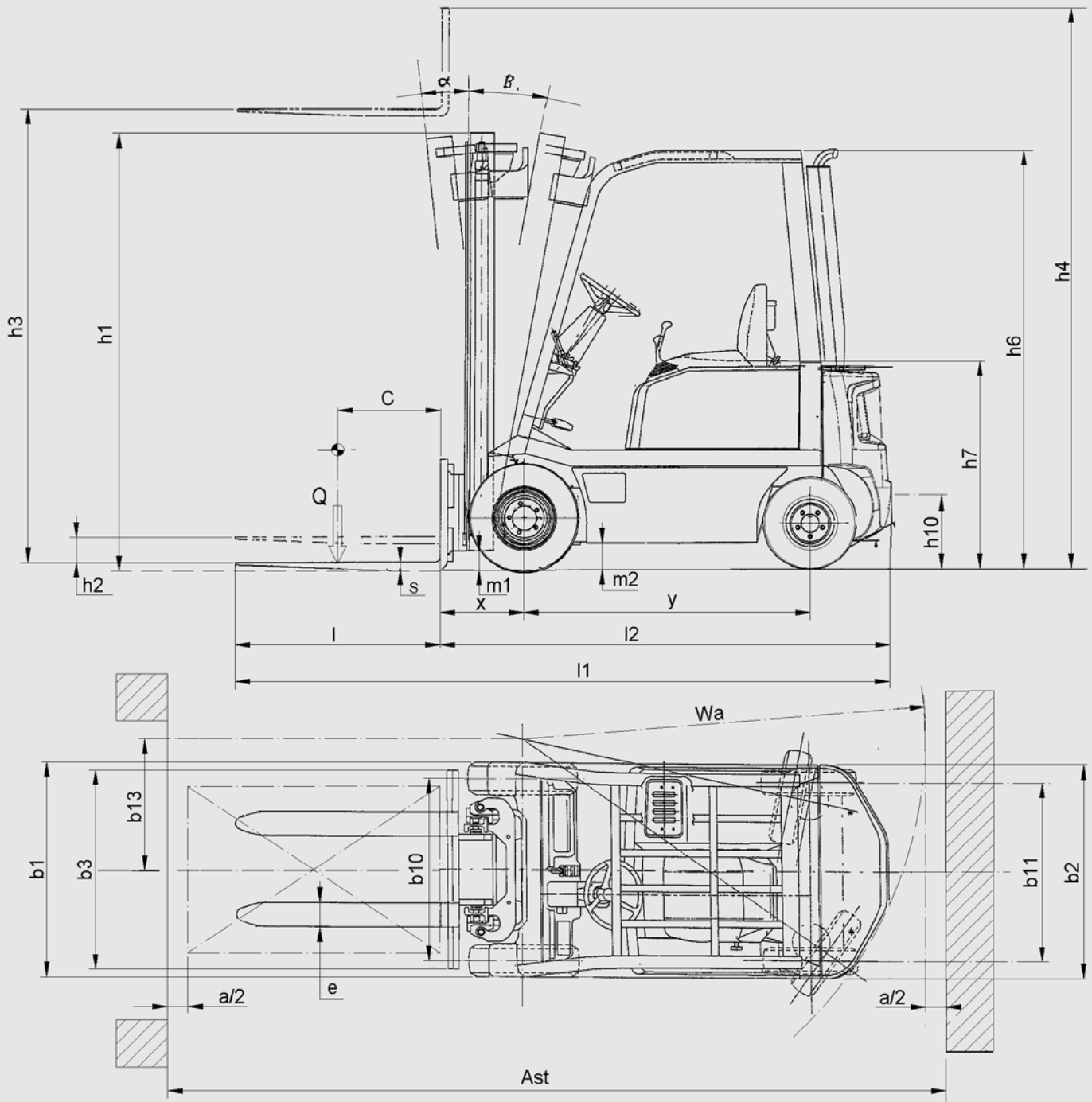
8) 6 Rollers fork plate: 3973 mm

9) It change as note 1); l2= x+y

10)With lateral side shift 980 mm

11)Without lateral side shift - 17 mm

12)Theoretical data



## LIFT MAST SPECIFICATIONS

			Simplex					Duplex GAL				Triplex GAL					
XD/XG 15	Lift Height	$h_3$ mm	3330	3630	4030	4530	5030	2975	3275	3575	3975	4470	4770	5220	5770	6370	6970
	Minimum Overall Height	$h_1$ mm	2210	2360	2560	2810	3060	1960	2110	2260	2460	2010	2110	2260	2510	2710	2910
	Maximum Overall Height	$h_4$ mm	3905	4205	4605	5105	5605	3550	3850	4150	4550	5045	5345	5795	6345	6945	7545
	Free Lift	$h_2$ mm	150	150	150	150	150	1405	1555	1705	1905	1455	1555	1705	1955	2155	2355
XD/XG 18	Lift Height	$h_3$ mm	3330	3630	4030	4530	5030	2975	3275	3575	3975	4470	4770	5220	5770	6370	6970
	Minimum Overall Height	$h_1$ mm	2210	2360	2560	2810	3060	2010	2160	2310	2510	2060	2160	2310	2560	2760	2960
	Maximum Overall Height	$h_4$ mm	3973	4273	4673	5173	5673	3643	3943	4243	4643	5138	5438	5888	6438	7038	7638
	Free Lift	$h_2$ mm	150	150	150	150	150	1362	1512	1662	1862	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	2260	2410	2610	2860	3110	2010	2160	2310	2510	2060	2160	2310	2460	2660	2860
	Maximum Overall Height	$h_4$ mm	4046	4346	4746	5246	5746	3646	3946	4246	4646	5156	5456	5906	6356	6956	7556
	Free Lift	$h_2$ mm	150	150	150	150	150	1445	1595	1745	1945	1495	1595	1745	1895	2095	2295

## WHEELS

Type	Superelastiche (SE)		Pneumatiche (PN)	
	Front	Rear	Front	Rear
XD/XG 15	6.00-9	5.00-8	6.00 - 9/12 p.r.	5.00 - 8/8 p.r.
	6.00-9 (twin)	5.00-8	6.00 - 9/12 p.r. (twin)	5.00 - 8/8 p.r.
	21 x 8 - 9 *	18 x 7 - 8*	-	-
XD/XG 18	21 x 8 - 9	18 x 7 - 8	21x8 - 9/16 p.r.	18x7 - 8/16 p.r.
	6.00-9 (twin)	18 x 7 - 8	6.00 - 9/12 p.r. (twin)	18x7 - 8/16 p.r.
XD/XG 20	21 x 8 - 9	18 x 7 - 8	21x8 - 9/16 p.r.	18x7 - 8/16 p.r.
	6.00 - 9 (twin)	18 x 7 - 8	6.00 - 9/12 p.r. (twin)	18x7 - 8/16 p.r.

Mandatory for XG 15 with wheels superelastic and TX mast

## XD XG 15 - 18 - 20



The most advanced F.E.M. (Finite Elements Method) calculation methods have resulted in a new, optimized **chassis** with increased torsional strength.

The **operator cab** is completely suspended. The F.S.C. – **Full Suspended Cab** reduces vibrations to a minimum, and together with the acoustic insulation system, reduces noise levels. The MSG12 seat, the hydraulic levers, located next to the operator, and the foot pedals are arranged in automotive layout. The excellent visibility all contributes to a comfortable, ergonomic working posture for the operator. Steering is instinctive, reducing fatigue, and ultimately leading to improved performance.

The **hydraulic steering** and customized **steering wheel** with proportional diameter make steering light and accurate, requiring less than 0.5 kg of effort.

The new **Lombardini Diesel engine** and the **LPG GM engine** provide optimum amount of power and torque with lower emissions. Meeting the Stage II requirements of Directive 97/68/CE, the engines have been designed specifically for use on forklift trucks, and as such, require less maintenance and less fuel.

The new **transmission** equipped with a supermodulated distributor provides the right amount of power to the wheels. The power-assisted braking guarantees fail-safe braking in all working conditions and requires minimal effort. The hydrodynamic transmission with torque converter is ideal for loading and unloading and transportation over long distances.

The inching system allows the truck to manoeuvre and approach with lifting at top speed, thus providing a high degree of flexibility and versatility in different working conditions.

The optimized profiles of the **mast** and the new fork carriage assembly allow for excellent visibility and a high residual load capacity. Simplex, duplex and triplex masts with heights up to 6980 mm are available. The rear axle with a sandwich structure facilitates wider steering angles and a smaller turning radii enabling the truck to work in narrower aisles.

**Options:** low overhead guard for container entry, fabric and heated seat, work lights, rotating beacon, road lighting, audible reverse alarm, 4-way hydraulic valve, spark arrester, exhaust purifier, oil bath air filter, catalyzers, 6 roller carriage, integral side shift, rear view mirror, mesh overhead guard, load restrainer, pneumatic tyres, alternative fork lengths. Wide range of alternative lift heights simplex, duplex and triplex masts.

**Technical data are given as an indication.**

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



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