

7-Series Forklifts

Pneumatic Diesel and LPG 2.0 to 3.5 ton Series

D20/25/30/33S-7, D35C-7 Euro Phase IIIA/IIIB

G20/25/30/33P-7, G35C-7 (Non-Certi/Tier III)



Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer			Doosan		Doosan		Doosan	
	1.2	Model			D2oS-7		D25S-7		D3oS-7	
	1.3	Drive			diesel		diesel		diesel	
	1.4	Operator type			seated		seated		seated	
	1.5	Load Capacity	Q	kg	2,000		2,500		3,000	
	1.6	Load Center	c	mm	500		500		500	
	1.8	Load Distance: Center of Drive axle to fork	x	mm	480		480		485	
Weight	1.9	Wheelbase	y	mm	1,625		1,625		1,700	
	2.1	Service weight		kg	3,690		4,065		4,565	
	2.2	Axle Loading. loaded. front/rear		kg	4,965/725		5,695/870		6,575/990	
Tyres	2.3	Axle Loading. unloaded. front/rear		kg	1,750/1,940		1,680/2,385		1,870/2,695	
	3.1	Tyres: pneumatic (P). solid (E)			P/E		P/E		P/E	
	3.2	Tyre size. Front			7.00x15-12		7.00x15-12		28x9x15-12	
	3.3	Tyre size. Rear			6.50x10-10		6.50x10-10		6.50x10-10	
	3.5	Wheels. number Front/Rear (x = driven wheels)			2x/2		2x/2		2x/2	
	3.6	Tread. Front	b11	mm	975		975		982	
	3.7	Tread. Rear	b12	mm	1,000		1,000		1,000	
Dimensions	4.1	Tilt of Mast/Fork carriage Forward/Backward	α/β	°	6/10		6/10		6/10	
	4.2	Height. Mast lowered	h1	mm	2,175		2,175		2,165	
	4.3	Free Lift	h2	mm	147		147		152	
	4.4	Lift Height	h3	mm	3,230		3,230		3,230	
	4.5	Height. Mast Extended	h4	mm	4,490		4,490		4,490	
	4.7	Height of Overhead Guard (Cabin)	h6	mm	2,183		2,183		2,183	
	4.8	Height of Seat	h7	mm	1,026		1,026		1,026	
	4.19	Overall Length	l1	mm	3,565		3,630		3,744	
	4.20	Length to Forkface	l2	mm	2,530		2,595		2,700	
	4.21	Overall Width	b1/b2	mm	1,170		1,170		1,197	
	4.22	Fork Dimensions	s/e/l	mm	40x100x1,050		40x100x1,050		45x125x1,050	
	4.23	Fork carriage ISO 2328. class/type A.B			II/A		II/A		III/A	
	4.24	Fork carriage width	b3	mm	1,103		1,103		1,115	
	4.31	Ground Clearance. loaded. below mast	m1	mm	115		115		105	
	4.32	Ground Clearance. center of wheelbase	m2	mm	143		143		143	
	4.34.1	Aisle width for pallets 1.000 x 1.200 crossways	Ast	mm	3,900		3,945		4,050	
	4.34.2	Aisle width for pallets 800 x 1.200 lengthways	Ast	mm	4,100		4,145		4,250	
	4.35	External Turning Radius	Wa	mm	2,220		2,265		2,365	
	4.36	Internal Turning Radius	b13	mm	775		775		761	
Performance data	5.1	Travel Speed. loaded/unloaded		km/h	21/22	19/19.5	21/22	19/19.5	20/21	18/18.5
	5.2	Lift Speed. loaded/unloaded		m/s	0.53/0.58	0.53/0.55	0.52/0.58	0.52/0.55	0.51/0.58	0.50/0.55
	5.3	Lowering Speed. loaded/unloaded		m/s	0.50/0.45	0.51/0.46	0.50/0.45	0.51/0.46	0.50/0.45	0.51/0.46
	5.5	Drawbar pull. loaded/unloaded (@ 1.6km/h)		N	17,540/17,250	17,350/17,130	17,540/17,410	17,160/17,060	18,230/17,850	17,960/17,620
	5.6	Max. Drawbar pull. loaded/unloaded		N	19,580/19,130	20,100/19,780	19,610/19,330	19,920/19,720	20,520/19,880	21,080/20,510
	5.7	Gradeability. loaded/unloaded (@ 1.6km/h)		%	33.0/54.4	33.0/55.0	28.0/48.6	28.2/50.0	25.5/43.5	25.0/43.5
	5.8	Max. Gradeability. loaded/unloaded		%	37.5/62.3	38.5/66.5	30.4/53.3	33.0/60.3	28.8/49.6	29.5/52.0
	5.10	Service Brake			foot/hydraulic		foot/hydraulic		foot/hydraulic	
Combustion Engine	7.1	Engine Manufacturer/ type			Doosan/ D24NAP	YANMAR/ 4TNE94L	Doosan/ D24NAP	YANMAR/ 4TNE94L	Doosan/ D24NAP	YANMAR/ 4TNE94L
	7.2	Engine power according to DIN ISO1585		kW	45.6	35.3	45.6	35.3	45.6	35.3
	7.3	Rated Speed		min-1	2,200	2,200	2,200	2,200	2,200	2,200
	7.3.1	Torque at 1/min		Nm/ rpm	262/1,600	191/1,600	262/1,600	191/1,600	262/1,600	191/1,600
	7.4	Number of Cylinders/Displacement		-/cm3	4/2,392	4/3,319	4/2,392	4/3,319	4/2,392	4/3,319
	7.10	Battery Voltage/normal capacity		V/Ah	12/85		12/85		12/85	
Addition Data	10.1	Operating pressure for attachments		bar	156		156		156	
	10.2	Oil flow for attachments		l/min	60		60		60	
	10.4	Fuel Tank Capacity		l	51		51		51	
	10.7	Sound level at the driver's ear according to EN 12 053		dB(A)	80	84	80	84	80	84

Doosan		Doosan		Doosan	Doosan	Doosan	Doosan	Doosan
D33S-7		D35C-7		G20P-7	G25P-7	G30P-7	G33P-7	G35C-7
diesel		diesel		LPG	LPG	LPG	LPG	LPG
seated		seated		seated	seated	seated	seated	seated
3,250		3,500		2.000	2.500	3.000	3.250	3.500
500		500		500	500	500	500	500
485		495		480	480	485	485	495
1,700		1,700		1.625	1.625	1.700	1.700	1.700
4,750		4,915		3.620	3.990	4.430	4.610	4.800
6,960/1,040		7,355/1,060		4,980/640	5,710/780	6,580/850	6,930/930	7,340/960
1,825/2,925		1,805/3,110		1,750/1,860	1,680/2,310	1,830/2,600	1,820/2,890	1,800/3,000
P/E		P/E		P/E	P/E	P/E	P/E	P/E
28x9x15-12		250x15-18		7.00x15-12	7.00x15-12	28x9x15-12	28x9x15-12	250x15-18
6.50x10-12		6.50x10-12		6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-12	6.50x10-12
2x/2		2x/2		2x/2	2x/2	2x/2	2x/2	2x/2
982		1.026		975	975	982	982	1.026
1,000		1,000		1,000	1,000	1,000	1,000	1,000
6/10		6/10		6/10	6/10	6/10	6/10	6/10
2,165		2.165		2.175	2.175	2.165	2.165	2.165
152		152		147	147	152	152	152
3,230		3,000		3,230	3,230	3,230	3,230	3,230
4,490		4,260		4,490	4,490	4,490	4,490	4,260
2,183		2,183		2,183	2,183	2,183	2,183	2,183
1,026		1,026		1,026	1,026	1,026	1,026	1,026
3,774		3,809		3,565	3,630	3,744	3,744	3,809
2,730		2,765		2,530	2,595	2,700	2,730	2,765
1,197		1,255		1,170	1,170	1,197	1,197	1.255
45x125x1,050		45x125x1,050		40x100x1,050	40x100x1,050	40x100x1,050	40x100x1,050	40x100x1,050
III/A		III/A		II/A	II/A	III/A	III/A	III/A
1,115		1,115		1,103	1,103	1,115	1,115	1,115
105		105		115	115	115	115	115
143		143		143	143	143	143	143
4,080		4,115		3,900	3,945	4,050	4,080	4,115
4,280		4,315		4,100	4,145	4,250	4,280	4,315
2,395		2,420		2,220	2,265	2,365	2,395	2,420
761		761		775	775	761	761	761
20/21	18/18.5	20/21	18.5/19	19/19.5	19/19.5	18/18.5	18/18.5	18.5/19
0.48/0.54	0.49/0.55	0.47/0.54	0.42/0.55	0.57/0.61	0.56/0.61	0.56/0.61	0.55/0.61	0.55/0.61
0.50/0.45	0.51/0.46	0.50/0.45	0.51/0.46	0.51/0.46	0.51/0.46	0.51/0.46	0.51/0.46	0.51/0.46
18,130/17,870	17,870/17,720	17,440/17,220	17,220/17,160	15,810/15,640	15,600/15,570	16,220/16,120	16,120/16,080	15,630/15,550
20,410/19,910	20,990/20,650	19,630/19,130	20,150/19,950	18,260/17,880	18,050/17,810	18,970/18,580	18,870/18,540	18,250/17,850
24.0/41.6	23.5/42.5	22.0/39.1	21.5/40.0	30.5/50.5	25.5/44.0	23.0/40.5	22.0/39.0	20.0/35.5
27.0/47.3	27.5/50.5	24.8/44.2	25.0/47.0	35.5/59.5	30.0/52.0	27.0/48.0	25.5/46.0	23.0/41.5
foot/hydraulic		foot/hydraulic		foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic
Doosan/ D24NAP	YANMAR/ 4TNE94L	Doosan/D24NAP	YANMAR/ 4TNE94L	MITSU/G424P(E)	MITSU/G424P(E)	MITSU/G424P(E)	MITSU/G424P(E)	MITSU/G424P(E)
45.6	35.3	45.6	35.3	48,9	48,9	48,9	48,9	48,9
2,200	2,200	2,200	2,200	2,600	2,600	2,600	2,600	2,600
262/1,600	191/1,600	262/1,600	191/1,600	183/2,000	183/2,000	183/2,000	183/2,000	183/2,000
4/2,392	4/3,319	4/2,392	4/3,319	4/2,351	4/2,351	4/2,351	4/2,351	4/2,351
12/85		12/85		12/65	12/65	12/65	12/65	12/65
156		156		156	156	156	156	156
60		60		60	60	60	60	60
51		51		51	51	51	51	51
80	84	80	84	84	84	84	84	84

MAST SPECIFICATION and RATED CAPACITIES

D20S-7/G20P-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D20S-7/G20N-7/G20P-7								
			With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities				
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
	mm	mm	mm	mm	FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
STD	2,030	1,575	3,290	147	6	10	6	10	6	10	2,000	2,000	2,000
	2,580	1,850	3,840	147	6	10	6	10	6	10	2,000	2,000	2,000
	2,950	2,035	4,210	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,230	2,175	4,490	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,500	2,425	4,765	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,800	2,575	5,065	147	6	10	6	10	6	10	2,000	2,000	2,000
	3,950	2,650	5,215	147	6	10	6	10	6	10	2,000	2,000	2,000
	4,350	2,850	5,615	147	6	10	6	10	6	10	2,000	2,000	2,000
FF	4,960	3,150	6,215	147	6	5	6	10	6	10	1,900	1,925	1,975
	2,580	1,850	3,840	645	6	10	6	10	6	10	2,000	2,000	2,000
	2,950	2,035	4,210	830	6	10	6	10	6	10	2,000	2,000	2,000
	3,230	2,175	4,490	970	6	10	6	10	6	10	2,000	2,000	2,000
FFT	3,600	2,425	4,865	1,220	6	10	6	10	6	10	2,000	2,000	2,000
	3,900	1,900	5,165	695	6	8	6	8	6	8	2,000	2,000	2,000
	4,290	2,035	5,570	830	6	8	6	8	6	8	2,000	2,000	2,000
	4,730	2,175	5,990	970	6	8	6	8	6	8	1,950	1,950	2,000
	4,805	2,200	6,065	995	6	5	6	8	6	8	1,950	1,925	2,000
	5,560	2,525	6,815	1,320	6	3	6	8	6	8	1,650	1,825	1,875
	6,010	2,675	7,265	1,470	6	3	6	8	6	5	1,300	1,750	1,825

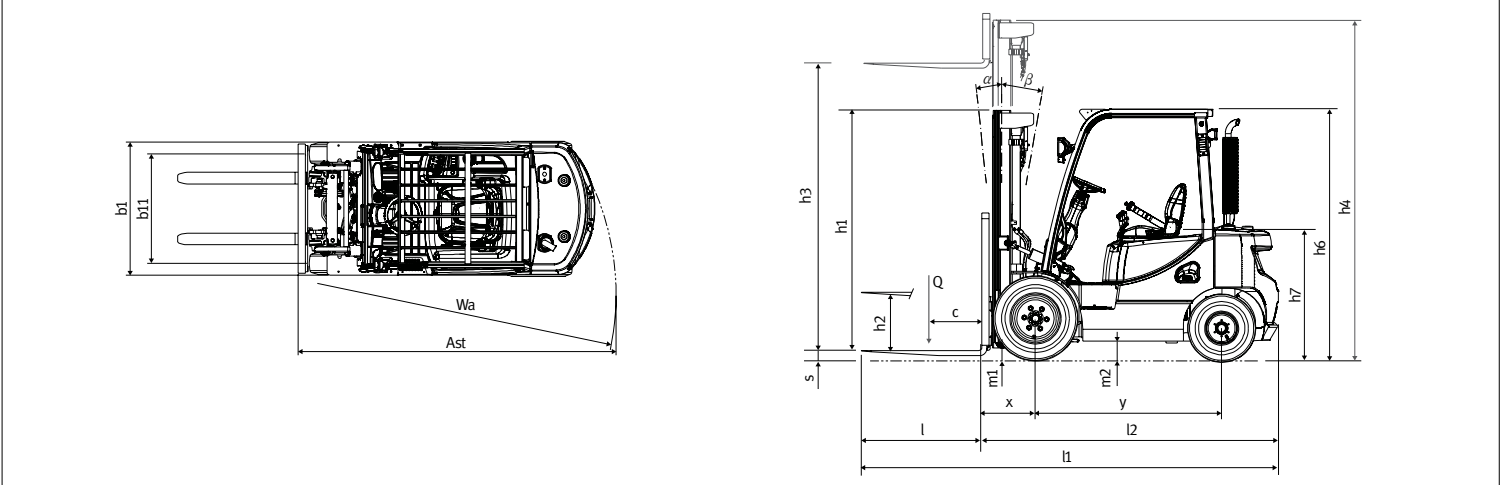
D25S-7/G25N-7/G25P-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D25S-7/G25P-7								
			With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities				
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
	mm	mm	mm	mm	FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
STD	2,030	1,575	3,290	147	6	10	6	10	6	10	2,500	2,500	2,500
	2,580	1,850	3,840	147	6	10	6	10	6	10	2,500	2,500	2,500
	2,950	2,035	4,210	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,230	2,175	4,490	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,500	2,425	4,765	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,800	2,575	5,065	147	6	10	6	10	6	10	2,500	2,500	2,500
	3,950	2,650	5,215	147	6	10	6	10	6	10	2,500	2,500	2,500
	4,350	2,850	5,615	147	6	5	6	10	6	10	2,500	2,500	2,500
	4,960	3,150	6,215	147	6	3	6	10	6	10	2,075	2,450	2,500
	2,580	1,850	3,840	645	6	10	6	10	6	10	2,500	2,500	2,500
	2,950	2,035	4,210	830	6	10	6	10	6	10	2,500	2,500	2,500
FF	3,230	2,175	4,490	970	6	10	6	10	6	10	2,500	2,500	2,500
	3,600	2,425	4,865	1,220	6	10	6	10	6	10	2,500	2,500	2,500
FFT	3,900	1,900	5,165	695	6	8	6	8	6	8	2,500	2,500	2,500
	4,290	2,035	5,570	830	6	5	6	8	6	8	2,500	2,500	2,500
	4,730	2,175	5,990	970	6	3	6	8	6	8	2,450	2,500	2,500
	4,805	2,200	6,065	995	6	3	6	8	6	8	2,350	2,475	2,475
	5,560	2,525	6,815	1,320	6	3	6	8	6	5	1,525	2,325	2,400
	6,010	2,675	7,265	1,470	6	3	6	8	6	3	1,175	2,250	2,300

D30S-7/G30P-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
					D30S-7/G30P-7								
			With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities				
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
	mm	mm	mm	mm	FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
STD	2,030	1,565	3,290	152	6	10	6	10	6	10	3,000	3,000	3,000
	2,580	1,840	3,840	152	6	10	6	10	6	10	3,000	3,000	3,000
	2,950	2,025	4,210	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,230	2,165	4,490	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,500	2,415	4,765	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,800	2,565	5,065	152	6	10	6	10	6	10	3,000	3,000	3,000
	3,950	2,640	5,215	152	6	10	6	10	6	10	3,000	3,000	3,000
	4,350	2,840	5,615	152	6	5	6	10	6	10	3,000	3,000	3,000
	4,960	3,140	6,215	152	6	3	6	10	6	10	2,525	2,900	2,975
	2,580	1,840	3,840	640	6	10	6	10	6	10	3,000	3,000	3,000
	2,950	2,025	4,210	825	6	10	6	10	6	10	3,000	3,000	3,000
FF	3,230	2,165	4,490	965	6	10	6	10	6	10	3,000	3,000	3,000
	3,600	2,415	4,865	1,215	6	10	6	10	6	10	3,000	3,000	3,000
FFT	3,900	1,890	5,165	690	6	8	6	8	6	8	2,900	2,900	2,900
	4,290	2,025	5,570	825	6	8	6	8	6	8	2,900	2,900	2,900
	4,730	2,165	5,990	965	6	3	6	8	6	8	2,900	2,900	2,900
	4,805	2,190	6,065	990	6	3	6	8	6	8	2,825	2,900	2,900
	5,560	2,515	6,815	1,315	6	3	6	8	6	5	1,850	2,750	2,825
	6,010	2,665	7,265	1,465	6	3	6	5	6	3	1,425	2,675	2,750

Note: These load capacities are based on the standard chassis without side shifter.



D33S-7/G33P-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities								
			With Load Backrest	With Load Backrest	D33S-7/G33P-7								
					Tilt Angle						Load Capacities		
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.	Double Pneu	Single Solid
	mm	mm	mm	mm	FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 500mm	LC 500mm
					deg	deg	deg	deg	deg	deg	kg	kg	kg
STD	2,030	1,565	3,290	152	6	10	6	10	6	10	3,250	3,250	3,250
	2,580	1,840	3,840	152	6	10	6	10	6	10	3,250	3,250	3,250
	2,950	2,025	4,210	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,230	2,165	4,490	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,500	2,415	4,765	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,800	2,565	5,065	152	6	10	6	10	6	10	3,250	3,250	3,250
	3,950	2,640	5,215	152	6	10	6	10	6	10	3,175	3,250	3,250
	4,350	2,840	5,615	152	6	5	6	10	6	10	3,175	3,250	3,250
	4,960	3,140	6,215	152	6	3	6	10	6	8	2,450	3,125	3,200
FF	2,580	1,840	3,840	640	6	10	6	10	6	10	3,250	3,250	3,250
	2,950	2,025	4,210	825	6	10	6	10	6	10	3,250	3,250	3,250
	3,230	2,165	4,490	965	6	10	6	10	6	10	3,250	3,250	3,250
	3,600	2,415	4,865	1,215	6	10	6	10	6	10	3,250	3,250	3,250
FFT	3,900	1,890	5,165	690	6	8	6	8	6	8	3,250	3,250	3,250
	4,290	2,025	5,570	825	6	5	6	8	6	8	3,250	3,250	3,250
	4,730	2,165	5,990	965	6	3	6	8	6	8	2,900	3,175	3,250
	5,560	2,515	6,815	1,315	6	3	6	8	6	5	1,750	2,975	3,050
	6,010	2,665	7,265	1,465	6	3	6	5	6	3	1,350	2,875	2,950



 Production Subsidiary

 Sales Subsidiary

 Parts Depot Center

AUTHORIZED DEALER



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