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7 Series Forklifts

Pneumatic LP 2.0 to 3.5 ton Series

G20N/G25N/G30N/G33N-7, G35NC-7

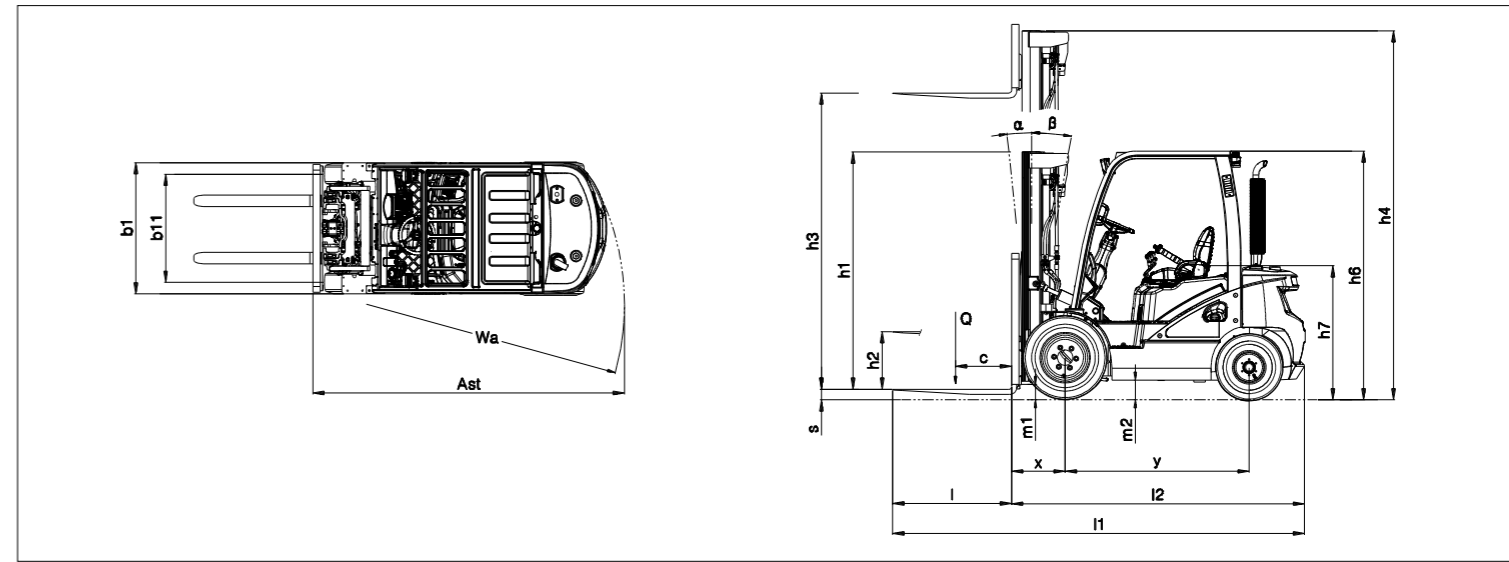


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Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer			Doosan	Doosan	Doosan	Doosan	Doosan
	1.2	Model designation			G20N-7	G25N-7	G30N-7	G33N-7	G35NC-7
	1.3	Drive: Diesel, Gasoline, LP			LP	LP	LP	LP	LP
	1.4	Operator type: Hand, Pedestrian, Standing, Seated, Order-picker			Seated	Seated	Seated	Seated	Seated
	1.5	Load Capacity	Q	kg	2,000	2,500	3,000	3,250	3,500
	1.6	Load Center	c	mm	500	500	500	500	500
	1.8	Load Distance: Center of Driveaxle to fork	x	mm	480	480	485	485	495
	1.9	Wheelbase	y	mm	1,625	1,625	1,700	1,700	1,700
	Weight	2.1	Service weight		kg	3,635	4,010	4,510	4,715
2.2		Axle Loading, Laden Front/Rear		kg	4,915/720	5,645/865	6,525/965	6,930/1,035	7,330/970
2.3		Axle Loading, Unladen Front/Rear		kg	1,725/1,910	1,640/2,370	1,850/2,660	1,815/2,900	1,800/3,000
Tyres	3.1	Tyres: pneumatic (P), superelastic (SE), cushion (C)			P	P	P	P	P
	3.2	Tyre size, Front			7.00x15-12	7.00x15-12	28x9x15-12	28x9x15-12	250x15-18
	3.3	Tyre size, Rear			6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-12	6.50x10-12
	3.5	Wheels, number Front/Rear (x = driven wheels)			2/2	2/2	2/2	2/2	2/2
	3.6	Tread, Front	b11	mm	975	975	982	982	1,026
	3.7	Tread, Rear	b12	mm	1,000	1,000	1,000	1,000	1,000
	Dimensions	4.1	Tilt of Mast/Fork carriage Forward/Backward	α/β	°	6/10	6/10	6/10	6/10
4.2		Height, Mast lowered	h1	mm	2,175	2,175	2,165	2,165	2,165
4.3		Free Lift	h2	mm	152	152	152	152	152
4.4		Lift	h3	mm	3,230	3,230	3,230	3,230	3,000
4.5		Height, Mast Extended	h4	mm	4,490	4,490	4,490	4,490	4,260
4.7		Height of Overhead Guard(Cabin)	h6	mm	2,183	2,183	2,183	2,183	2,183
4.8		Height of Seat	h7	mm	1,026	1,026	1,026	1,026	1,026
4.19		Overall Length	l1	mm	3,565	3,630	3,744	3,774	3,809
4.20		Length to Forkface	l2	mm	2,530	2,595	2,700	2,730	2,765
4.21		Overall Width	b1/b2	mm	1,170	1,170	1,197	1,197	1,255
4.22		Fork Dimensions	s/e/l	mm	45x100x1,000	45x100x1,000	45x125x1,050	45x125x1,050	45x125x1,050
4.23		Fork carriage ISO 2328, class/type A,B			II/A	II/A	III/A	III/A	III/A
4.24		Fork carriage width	b3	mm	1,103	1,103	1,115	1,115	1,115
4.31		Ground Clearance, laden, below mast	m1	mm	115	115	105	105	105
4.32		Ground Clearance, center of wheelbase	m2	mm	143	143	143	143	143
4.34.1		Aisle width for pallets 1,000 x 1,200 crossways	Ast	mm	3,905	3,950	4,050	4,080	4,115
4.34.2		Aisle width for pallets 800 x 1,200 crossways	Ast	mm	4,105	4,150	4,250	4,280	4,315
4.35		Turning Radius	Wa	mm	2,220	2,265	2,365	2,395	2,420
4.36	Internal Turning Radius	b13	mm	775	775	761	761	761	
Performance data	5.1	Travel Speed, Laden/Unladen		km/h	19/20	19/20	18/19	18/19	18/19
	5.2	Lift Speed, Laden/Unladen		m/s	0.55/0.57	0.54/0.57	0.52/0.57	0.54/0.59	0.53/0.59
	5.3	Lowering Speed, Laden/Unladen		m/s	0.51/0.46	0.51/0.46	0.51/0.46	0.51/0.46	0.51/0.46
	5.5	Drawbar pull, Laden/Unladen(@ 1.6km/h)		N	18,480/18,195	18,265/18,125	19,035/18,795	18,935/18,750	18,385/18,140
	5.6	Max. Drawbar pull, Laden/Unladen		N	21,075/20,560	20,860/20,500	21,950/21,400	21,850/21,355	21,160/20,570
	5.7	Gradeability, Laden/Unladen(@ 1.6km/h)		%	36/-	30.5/-	27.5/-	25.5/-	23.5/-
	5.8	Max. Gradeability, Laden/Unladen		%	42/-	35/-	32/-	30/-	27/-
5.10	Service Brake			foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	
Combustion Engine	7.1	Engine Manufacturer/type			GCT/K25	GCT/K25	GCT/K25	GCT/K25	GCT/K25
	7.2	Engine power according to DIN ISO1585		kW	46.8	46.8	46.8	46.8	46.8
	7.3	Rated Speed		min-1	2,600	2,600	2,600	2,600	2,600
	7.3.1	Torque at 1/min		N•m	190/1,700	190/1,700	190/1,700	190/1,700	190/1,700
	7.4	Number of Cylinders/Displacement		-/cm ³	4/2,488	4/2,488	4/2,488	4/2,488	4/2,488
7.10	Battery Voltage/normal capacity		V/Ah	12/50	12/50	12/50	12/50	12/50	
Addition Data	10.1	Operating pressure for attachments		bar	156	156	156	156	156
	10.2	Oil volume for attachments		l/min	60	60	60	60	60
	10.4	Fuel Tank Capacity		l	51	51	51	51	51
	10.7	Sound level at th driver's ear according to EN 12 053		dB(A)	84	84	84	84	84

Dimensional Drawing



Mast Specification and Rated Capacities

G20N-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities												
					G20N-7												
					Tilt Angle						Load Capacities						
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu		Single Solid		
FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in						
												kg	lb	kg	lb	kg	lb
STD	2,030	1,575	3,290	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	2,580	1,850	3,840	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	2,950	2,035	4,210	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	3,230	2,175	4,490	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	3,500	2,425	4,765	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	3,800	2,575	5,065	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	3,950	2,650	5,215	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	4,350	2,850	5,615	147	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
FF	4,960	3,150	6,215	147	6	5	6	10	6	10	1,900	3,750	1,925	3,900	1,975	4,000	
	2,580	1,850	3,840	645	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	2,950	2,035	4,210	830	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	3,230	2,175	4,490	970	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
FFT	3,600	2,425	4,865	1,220	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000	
	3,900	1,875	5,165	670	6	8	6	8	6	8	2,000	4,000	2,000	4,000	2,000	4,000	
	4,290	2,015	5,570	805	6	8	6	8	6	8	2,000	4,000	2,000	4,000	2,000	4,000	
	4,730	2,150	5,990	945	6	8	6	8	6	8	1,950	3,950	1,950	3,950	2,000	4,000	
	4,805	2,175	6,065	970	6	5	6	8	6	8	1,950	3,950	1,925	3,950	2,000	4,000	
	5,560	2,500	6,815	1,295	6	3	6	8	6	8	1,650	3,650	1,825	3,700	1,875	3,850	
6,010	2,650	7,265	1,445	6	3	6	8	6	5	1,300	2,900	1,750	3,550	1,825	3,700		

G25N-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities												
					G25N-7												
					Tilt Angle						Load Capacities						
					Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu		Single Solid		
FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in						
												kg	lb	kg	lb	kg	lb
STD	2,030	1,575	3,290	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	2,580	1,850	3,840	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	2,950	2,035	4,210	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	3,230	2,175	4,490	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	3,500	2,425	4,765	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	3,800	2,575	5,065	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	3,950	2,650	5,215	147	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	4,350	2,850	5,615	147	6	5	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
FF	4,960	3,150	6,215	147	6	3	6	10	6	10	2,075	4,600	2,450	4,950	2,500	5,000	
	2,580	1,850	3,840	645	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	2,950	2,035	4,210	830	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	3,230	2,175	4,490	970	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
FFT	3,600	2,425	4,865	1,220	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000	
	3,900	1,875	5,165	670	6	8	6	8	6	8	2,500	5,000	2,500	5,000	2,500	5,000	
	4,290	2,015	5,570	805	6	8	6	8	6	8	2,500	5,000	2,500	5,000	2,500	5,000	
	4,730	2,150	5,990	945	6	3	6	8	6	8	2,450	5,000	2,500	5,000	2,500	5,000	
	4,805	2,175	6,065	970	6	3	6	8	6	8	2,350	5,000	2,475	5,000	2,47		

G30N-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					G30N-7											
					With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities					
							Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu	
FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in					
mm	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	2,030	1,565	3,290	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	2,580	1,840	3,840	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	2,950	2,025	4,210	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	3,230	2,175	4,490	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	3,500	2,415	4,765	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	3,800	2,565	5,065	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	3,950	2,640	5,215	152	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	4,350	2,840	5,615	152	6	5	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	4,960	3,140	6,215	152	6	3	6	10	6	10	2,525	5,550	2,900	5,850	2,975	6,000
FF	2,580	1,840	3,840	640	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	2,950	2,025	4,210	825	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	3,230	2,165	4,490	965	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
	3,600	2,415	4,865	1,215	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000
FFT	3,900	1,890	5,165	690	6	8	6	8	6	8	2,900	6,000	2,900	6,000	2,900	6,000
	4,290	2,025	5,570	825	6	8	6	8	6	8	2,900	6,000	2,900	6,000	2,900	6,000
	4,730	2,165	5,990	965	6	3	6	8	6	8	2,900	5,950	2,900	6,000	2,900	6,000
	4,805	2,190	6,065	990	6	3	6	8	6	8	2,825	5,950	2,900	5,950	2,900	6,000
	5,560	2,515	6,815	1,315	6	3	6	8	6	5	1,850	4,050	2,750	5,600	2,825	5,750
	6,010	2,665	7,265	1,465	6	3	6	5	6	3	1,425	3,200	2,675	5,450	2,750	5,600

G33N-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					G33N-7											
					With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities					
							Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu	
FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in					
mm	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	2,030	1,565	3,290	152	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	2,580	1,840	3,840	152	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	2,950	2,025	4,210	152	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	3,230	2,165	4,490	152	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	3,500	2,415	4,765	152	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	3,800	2,565	5,065	152	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	3,950	2,640	5,215	152	6	10	6	10	6	10	3,175	6,500	3,250	6,500	3,250	6,500
	4,350	2,840	5,615	152	6	5	6	10	6	10	3,175	6,500	3,250	6,500	3,250	6,500
	4,960	3,140	6,215	152	6	3	6	10	6	8	2,450	5,400	3,125	6,350	3,200	6,500
FF	2,580	1,840	3,840	640	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	2,950	2,025	4,210	825	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	3,230	2,165	4,490	965	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
	3,600	2,415	4,865	1,215	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500
FFT	3,900	1,890	5,165	690	6	8	6	8	6	8	3,250	6,500	3,250	6,500	3,250	6,500
	4,290	2,025	5,570	825	6	8	6	8	6	8	3,250	6,500	3,250	6,500	3,250	6,500
	4,730	2,165	5,990	965	6	3	6	8	6	8	2,900	6,300	3,175	6,450	3,250	6,500
	5,560	2,515	6,815	1,315	6	3	6	8	6	5	1,750	3,950	2,975	6,050	3,050	6,200
	6,010	2,665	7,265	1,465	6	3	6	5	6	3	1,350	3,050	2,875	5,850	2,950	6,050

G35NC-7

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities											
					G35NC-7											
					With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities					
							Single Pneu.		Double Pneu		Single Solid		Single Pneu.		Double Pneu	
FWD	BWD	FWD	BWD	FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in	LC 500mm	LC 24in					
mm	mm	mm	mm	mm	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	1,800	1,565	3,290	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	2,350	1,840	3,610	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	2,720	2,025	3,980	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	3,000	2,165	4,260	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	3,495	2,415	4,760	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	3,655	2,565	4,915	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	3,805	2,640	5,065	152	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	4,205	2,840	5,465	152	6	8	6	10	6	10	3,425	6,950	3,425	6,950	3,500	7,000
	4,805	3,140	6,065	152	6	3	6	8	6	8	3,250	6,650	3,275	6,650	3,375	6,850
FF	2,350	1,840	3,610	640	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	2,720	2,025	3,980	825	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	3,000	2,165	4,260	965	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
	3,495	2,415	4,755	1,215	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000
FFT	3,555	1,890	4,815	690	6	8	6	8	6	8	3,400	7,000	3,400	7,000	3,400	7,000
	3,960	2,025	5,220	825	6	8	6	8	6	8	3,400	7,000	3,400	7,000	3,400	7,000
	4,380	2,165	5,640	965	6	5	6	8	6	8	3,375	6,850	3,375	6,850	3,400	7,000
	4,820	2,335	6,085	1,135	6	3	6	8	6	8	3,250	6,600	3,250	6,650	3,350	6,800
	5,205	2,515	6,465	1,315	6	3	6	8	6	5	2,600	5,800	3,150	6,450	3,250	6,600
	5,655	2,665	6,915	1,465	6	3	6	8	6	3	1,975	4,450	3,050	6,200	3,150	6,400

Mast Specifications & Rated Capacities are based on standard chassis with pneumatic tire and without side shifter.