

## 7 Series Pneumatic LP Forklifts

4,000 lb to 7,000 lb Capacity

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

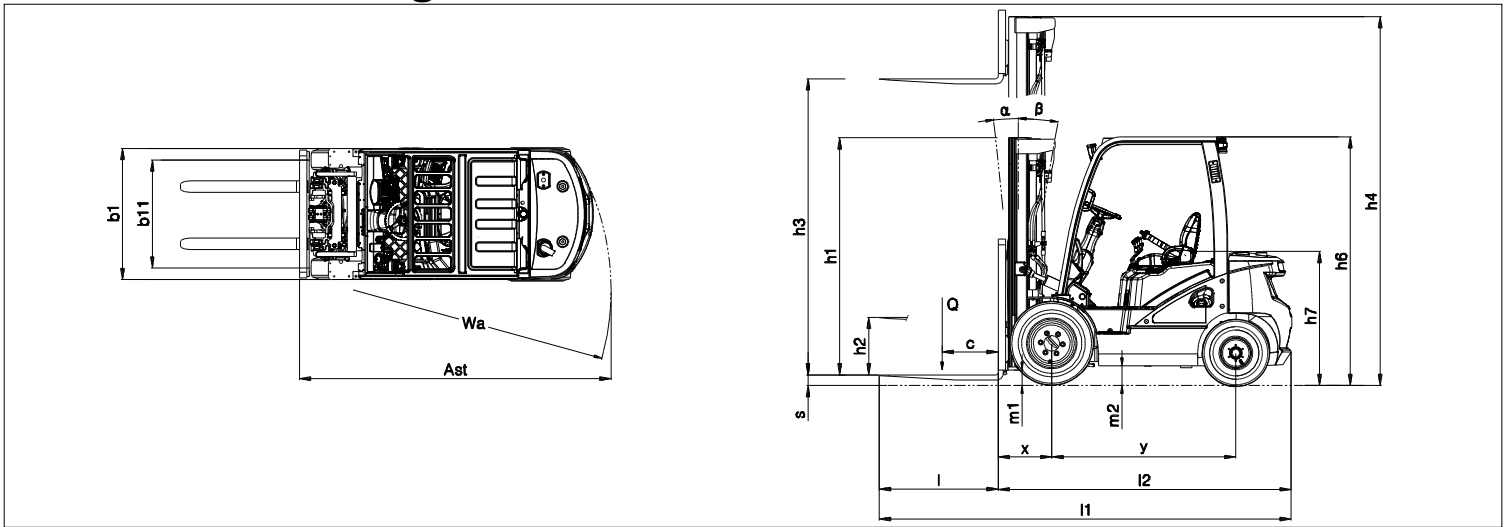


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# Technical Specifications

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			Seated	Seated	Seated	Seated	Seated
	1.5	Load Capacity	Q	lb(kg)	4,000 (2,000)	5,000 (2,500)	6,000 (3,000)	6,500 (3,250)	7,000 (3,500)
	1.6	Load Center	c	in(mm)	24 (500)	24 (500)	24 (500)	24 (500)	24 (500)
	1.8	Load Distance: Center of Driveaxle to fork	x	in(mm)	18.9 (480)	18.9 (480)	19.1 (485)	19.1 (485)	19.5 (495)
	1.9	Wheelbase	y	in(mm)	64.0 (1625)	64.0 (1625)	66.9 (1700)	66.9 (1700)	66.9 (1700)
Weight	2.1	Service weight			8,015 (3,635)	8,840 (4,010)	9,945 (4,510)	10,395 (4,715)	10,585 (4,800)
	2.2	Axle Loading, Laden Front/Rear			10,835/1,590 (4,915/720)	12,445/1,905 (5,645/865)	14,385/2,130 (6,525/965)	15,275/2,280 (6,930/1,035)	16,160/2,135 (7,330/970)
	2.3	Axle Loading, Unladen Front/Rear			3,805/4,210 (1,725/1,910)	3,615/5,225 (1,640/2,370)	4,080/5,865 (1,850/2,660)	4,000/6,395 (1,815/2,900)	3,970/6,615 (1,800/3,000)
Tires	3.1	Tires: pneumatic (P), cushion (C)			P	P	P	P	P
	3.2	Tire size, Front			7.00x15-12	7.00x15-12	28x9x15-12	28x9x15-12	250x15-18
	3.3	Tire size, Rear			6.50x10-10	6.50x10-10	6.50x10-10	6.50x10-12	6.50x10-12
	3.5	Wheels, number F/R (x = driven wheels)			2x/2	2x/2	2x/2	2x/2	2x/2
	3.6	Tread, Front	b11	in(mm)	38.4 (975)	38.4 (975)	38.7 (982)	38.7 (982)	40.4 (1,026)
	3.7	Tread, Rear	b12	in(mm)	39.37 (1,000)	39.37 (1,000)	39.37 (1,000)	39.37 (1,000)	39.37 (1,000)
	4.1	Tilt of Mast/Fork carriage Forward/Backward	α/β	°	6/10	6/10	6/10	6/10	6/10
Dimensions	4.2	Height, Mast lowered	h1	in(mm)	85.6 (2,175)	85.6 (2,175)	85.2 (2,165)	85.2 (2,165)	85.2 (2,165)
	4.3	Free Lift	h2	in(mm)	5.98 (152)	5.98 (152)	5.98 (152)	5.98 (152)	5.98 (152)
	4.4	Lift	h3	in(mm)	127 (3,230)	127 (3,230)	127 (3,230)	127 (3,230)	118 (3,000)
	4.5	Height, Mast Extended	h4	in(mm)	177 (4,490)	177 (4,490)	177 (4,490)	177 (4,490)	168 (4,260)
	4.7	Height of Overhead Guard (Cabin)	h6	in(mm)	85.9 (2,183)	85.9 (2,183)	85.9 (2,183)	85.9 (2,183)	85.9 (2,183)
	4.8	Height of Seat	h7	in(mm)	40.4 (1,026)	40.4 (1,026)	40.4 (1,026)	40.4 (1,026)	40.4 (1,026)
	4.19	Overall Length	l1	in(mm)	140 (3,565)	143 (3,630)	147 (3,744)	149 (3,774)	150 (3,809)
	4.20	Length to Forkface	l2	in(mm)	99.6 (2,530)	102 (2,595)	106 (2,700)	107 (2,730)	109 (2,765)
	4.21	Overall Width	b1/b2	in(mm)	46.1 (1,170)	46.1 (1,170)	47.1 (1,197)	47.1 (1,197)	48.2 (1,255)
	4.22	Fork Dimensions	s/e/l	in(mm)	1.57x3.94x41.3 (40x100x1,050)	1.57x3.94x41.3 (40x100x1,050)	1.77x4.92x41.3 (45x125x1,050)	1.77x4.92x41.3 (45x125x1,050)	1.77x4.92x41.3 (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	in(mm)	43.4 (1,103)	43.4 (1,103)	43.9 (1,115)	43.9 (1,115)	43.9 (1,115)
	4.31	Ground Clearance, loaded, below mast	m1	in(mm)	4.53 (115)	4.53 (115)	4.13 (105)	4.13 (105)	4.13 (105)
	4.32	Ground Clearance, center of wheelbase	m2	in(mm)	5.63 (143)	5.63 (143)	5.63 (143)	5.63 (143)	5.63 (143)
	4.34.1	Aisle 90 degree stacking	Ast	in(mm)	154 (3,905)	155.5 (3,950)	159.5 (4,050)	160.5 (4,080)	162 (4,115)
	4.35	Turning Radius	Wa	in(mm)	87.4 (2,220)	89.2 (2,265)	93.1 (2,365)	94.3 (2,395)	95.3 (2,420)
	4.36	Internal Turning Radius	b13	in(mm)	30.5 (775)	30.5 (775)	30.6 (761)	30.6 (761)	30.6 (761)
Performance	5.1	Travel Speed, Loaded/Unloaded		mph (km/h)	12/12.5 (19/20)	12/12.5 (19/20)	11/12 (18/19)	11/12 (18/19)	11/12 (18/19)
	5.2	Lift Speed, Loaded/Unloaded		fpm(m/s)	108/112 (0.55/0.57)	105/112 (0.54/0.57)	102/112 (0.52/0.57)	105/116 (0.54/0.59)	104/116 (0.53/0.59)
	5.3	Lowering Speed, Loaded/Unloaded		fpm(m/s)	100/90 (0.51/0.46)	100/90 (0.51/0.46)	100/90 (0.51/0.46)	100/90 (0.51/0.46)	100/90 (0.51/0.46)
	5.5	Drawbar pull, L/U (@ 1.6km/h)		lb(N)	4,155/4,090 (18,480/18,195)	4,105/4,075 (18,265/18,125)	4,280/4,225 (19,035/18,795)	4,255/4,215 (18,935/18,750)	4,135/4,075 (18,385/18,140)
	5.6	Max. Drawbar pull, Loaded/Unloaded		lb(N)	4,740/4,620 (21,075/20,560)	4,690/4,610 (20,860/20,500)	4,935/4,810 (21,950/21,400)	4,910/4,800 (21,850/21,355)	4,755/4,625 (21,160/20,570)
	5.7	Gradeability, L/U (@ 1.6km/h)		%	36/-	30.5/-	27.5/-	25.5/-	23.5/-
	5.8	Max. Gradeability, Loaded/Unloaded		%	42/-	35/-	32/-	30/-	27/-
	5.10	Service/Parking Brake			foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic
Engine	7.1	Engine Manufacturer/Model			GCT/K25	GCT/K25	GCT/K25	GCT/K25	GCT/K25
	7.2	Engine power (DIN ISO1585)		hp(kW)	62.7(46.8)	62.7(46.8)	62.7(46.8)	62.7(46.8)	62.7(46.8)
	7.3	Rated Speed		rpm	2,600	2,600	2,600	2,600	2,600
	7.3.1	Torque at 1,700 1/min		ft•lbs(N•m)	140(190)	140(190)	140(190)	140(190)	140(190)
	7.4	Number of Cylinders/Displacement		cc	4/2,488	4/2,488	4/2,488	4/2,488	4/2,488
	7.1	Battery Voltage/normal capacity		V/Ah	12/50	12/50	12/50	12/50	12/50
Add. Info	10.1	Operating pressure for attachments		psi(bar)	2,260 (156)	2,260 (156)	2,260 (156)	2,260 (156)	2,260 (156)
	10.2	Oil volume for attachments		gpm(l/min)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)
	10.4	Fuel Tank Capacity		gal(l)	13.8 (51)	13.8 (51)	13.8 (51)	13.8 (51)	13.8 (51)
	10.7	Sound level at th driver's ear		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											
					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					
	in	in	in	in	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80	62	177	6	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	102	73	188	6	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	116	80	199	6	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	127	86	205	6	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	138	95	221	6	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	150	101	245	25	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	156	104	151	33	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	171	112	166	38	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
195	124	177	48	6	5	6	10	6	10	1,900	3,750	1,925	3,900	1,975	4,000	
FF	102	73	151	25	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	116	80	166	33	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	127	86	177	38	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
	142	95	192	48	6	10	6	10	6	10	2,000	4,000	2,000	4,000	2,000	4,000
FFT	154	74	203	26	6	8	6	8	6	8	2,000	4,000	2,000	4,000	2,000	4,000
	169	79	219	32	6	8	6	8	6	8	2,000	4,000	2,000	4,000	2,000	4,000
	186	85	236	37	6	8	6	8	6	8	1,950	3,950	1,950	3,950	2,000	4,000
	219	98	268	51	6	5	6	8	6	8	1,950	3,950	1,925	3,950	2,000	4,000
	237	104	286	57	6	3	6	8	6	8	1,650	3,650	1,825	3,700	1,875	3,850
	256	114	306	66	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											
					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					
	in	in	in	in	deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80	62	130	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	102	73	151	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	116	80	166	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	127	86	177	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	138	95	188	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	150	101	199	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	156	104	205	6	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	171	112	221	6	6	5	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
195	124	245	6	6	3	6	10	6	10	2,075	4,600	2,450	4,950	2,500	5,000	
FF	102	73	151	25	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	116	80	166	33	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	127	86	177	38	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
	142	95	192	48	6	10	6	10	6	10	2,500	5,000	2,500	5,000	2,500	5,000
FFT	154	74	203	26	6	8	6	8	6	8	2,500	5,000	2,500	5,000	2,500	5,000
	169	79	219	32	6	5	6	8	6	8	2,500	5,000	2,500	5,000	2,500	5,000
	186	85	236	37	6	3	6	8	6	8	2,450	5,000	2,500	5,000	2,500	5,000
	219	98	268	51	6	3	6	8	6	8	2,350	5,000	2,475	5,000	2,475	5,000
	237	104	286	57	6	3	6	8	6	8	1,525	3,400	2,325	4,750	2,400	4,850
	256	114	306	66	6	3	6	8	6	5	1,175	2,600	2,250	4,550	2,300	4,700

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

Product and specifications are subject to improvement and change without notice.

Performance data and dimensions are nominal and subject to tolerances.

**G30N-7**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities												
					G30N-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						
						deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80	62	130	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	102	72	151	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	116	80	166	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	127	85	177	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	138	95	188	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	150	101	199	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	156	104	205	6	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	171	112	221	6	6	5	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
195	124	245	6	6	3	6	10	6	10	2,525	5,550	2,900	5,850	2,975	6,000		
FF	102	72	151	25	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	116	80	166	32	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	127	85	177	38	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
	142	95	192	48	6	10	6	10	6	10	3,000	6,000	3,000	6,000	3,000	6,000	
FFT	154	74	203	27	6	8	6	8	6	8	2,900	6,000	2,900	6,000	2,900	6,000	
	169	80	219	32	6	8	6	8	6	8	2,900	6,000	2,900	6,000	2,900	6,000	
	186	85	236	38	6	3	6	8	6	8	2,900	5,950	2,900	6,000	2,900	6,000	
	219	99	268	52	6	3	6	8	6	5	2,825	5,950	2,900	5,950	2,900	6,000	
	237	105	286	58	6	3	6	8	6	5	1,850	4,050	2,750	5,600	2,825	5,750	
					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												
					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	LC24in						
						deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	80	62	130	6	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	102	72	151	6	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	116	80	166	6	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	127	85	177	6	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	138	95	188	6	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	150	101	199	6	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	156	104	205	6	6	10	6	10	6	10	3,175	6,500	3,250	6,500	3,250	6,500	
	171	112	221	6	6	5	6	10	6	10	3,175	6,500	3,250	6,500	3,250	6,500	
195	124	245	6	6	3	6	10	6	8	2,450	5,400	3,125	6,350	3,200	6,500		
FF	102	72	151	25	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	116	80	166	32	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	127	85	177	38	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
	142	95	192	48	6	10	6	10	6	10	3,250	6,500	3,250	6,500	3,250	6,500	
FFT	154	74	203	27	6	8	6	8	6	8	3,250	6,500	3,250	6,500	3,250	6,500	
	169	80	219	32	6	8	6	8	6	8	3,250	6,500	3,250	6,500	3,250	6,500	
	186	85	236	38	6	3	6	8	6	8	2,900	6,300	3,175	6,450	3,250	6,500	
	219	99	268	52	6	3	6	8	6	5	1,750	3,950	2,975	6,050	3,050	6,200	
	237	105	286	58	6	3	6	5	6	3	1,350	3,050	2,875	5,850	2,950	6,050	
					6	3	6	5	6	3							

**G35NC-7**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities												
					G35NC-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						
						deg	deg	deg	deg	deg	deg	kg	lb	kg	lb	kg	lb
STD	71	62	120	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	93	72	142	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	107	80	157	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	118	85	168	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	138	95	187	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	144	101	194	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	150	104	199	6	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	166	112	215	6	6	8	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
189	124	239	6	6	3	6	8	6	8	3,250	6,650	3,275	6,650	3,375	6,850		
FF	93	72	142	25	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	107	80	157	32	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	118	85	168	38	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
	138	95	187	48	6	10	6	10	6	10	3,500	7,000	3,500	7,000	3,500	7,000	
FFT	140	74	190	27	6	8	6	8	6	8	3,400	7,000	3,400	7,000	3,400	7,000	
	156	80	206	32	6	8	6	8	6	8	3,400	7,000	3,400	7,000	3,400	7,000	
	172	85	222	38	6	5	6	8	6	8	3,375	6,850	3,375	6,850	3,400	7,000	
	190	92	240	45	6	3	6	8	6	8	3,250	6,600	3,250	6,650	3,350	6,800	
	205	99	255	52	6	3	6	8	6	5	2,600	5,800	3,150	6,450	3,250	6,600	
	223	105	272	58	6	3	6	8	6	3	1,975	4,450	3,050	6,200	3,150	6,400	

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