



TECHNICAL SPECIFICATIONS

Cushion Forklift Trucks

GC35S / GC40S / GC45S-5 & GC50C / GC55C-5

7,000lb to 12,000lb Capacity

PRO5
SERIES



7,000/8,000/10,000/11,000/12,000 lb Capacities

Engine Powered Forklift Trucks

Cushion Tire

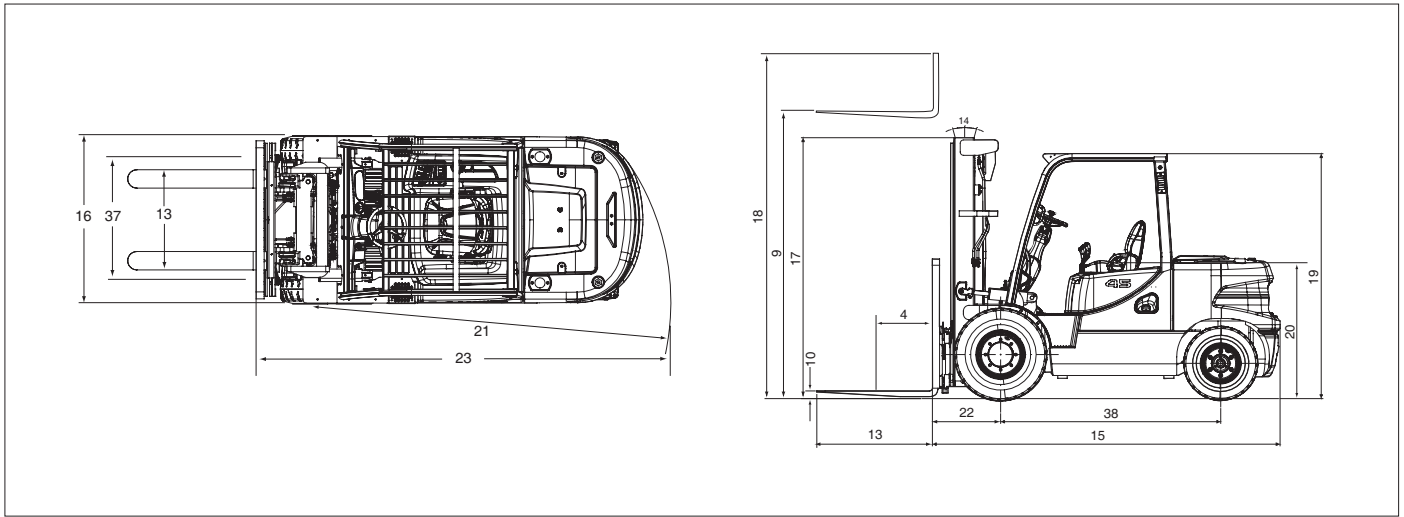
MAIN VEHICLE SPECIFICATIONS

CHARACTERISTICS				DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	
	1	2	3	4	5	6	7	8	
1	Manufacture			DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	
2	Model			GC35S-5	GC40S-5	GC45S-5	GC50C-5	GC55C-5	
3	Load Capacity	at rated load center	lb(kg)	7,000(3,500)	8,000(4,000)	10,000(4,500)	11,000(5,000)	12,000(5,500)	
4	Load Center		in(mm)	24(500)	24(500)	24(600)	24(600)	24(600)	
5	Power type	Elec, Diesel, LPG, Gasoline		LPG	LPG	LPG	LPG	LPG	
6	Operator type			Driver-seated	Driver-seated	Driver-seated	Driver-seated	Driver-seated	
7	Tire type	P:Pnu, E:Solid Soft, C: Cush		C	C	C	C	C	
8	Wheels (x=Driven)	Front / Rear		x 2 / 2	x 2 / 2	x 2 / 2	x 2 / 2	x 2 / 2	
9	Max. Fork Height	with STD 2-stage mast	in(mm)	113.4(2,880)	113.4(2,880)	113.4(2,880)	103.5(2,630)	103.5(2,630)	
10	Free Lift		in(mm)	6.3(160)	6.3(160)	6.3(160)	6.3(160)	6.3(160)	
12	Fork Carriage	ISO Class		III	III	IV	IV	IV	
13	Forks	Length x Width x Thickness	in(mm)	48.0x5.9x2.0 (1,220x150x50)	48.0x5.9x2.0 (1,220x150x50)	48.0x5.9x2.0 (1,220x150x50)	48.0x5.9x2.0 (1,220x150x50)	48.0x5.9x2.0 (1,220x150x50)	
		Fork Spacing(Min x Max)	in(mm)	12.2(310)/42.6(1,082)	12.2(310)/42.6(1,082)	13.4(340)/50.8(1,290)	13.4(340)/50.8(1,290)	13.4(340)/50.8(1,290)	
14	Tilt of Mast	Forward / Backward	deg	5 / 6	5 / 6	5 / 6	5 / 6	5 / 6	
15		Length to Fork Face	in(mm)	105.6(2,682)	105.7(2,686)	111.3(2,828)	113.3(2,878)	118.5(3,010)	
16	Overall Dimensions	Overall Width	in(mm)	50.0(1,270)	50.0(1,270)	55.9(1,420)	55.9(1,420)	55.9(1,420)	
		Mast Lowered Height	in(mm)	84.1(2,135)	84.1(2,135)	86.0(2,185)	86.0(2,185)	86.0(2,185)	
		Mast Extended Height	in(mm)	162.0(4,115)	162.0(4,115)	169.9(4,315)	160.0(4,065)	160.0(4,065)	
		Overhead Guard Height	in(mm)	84.8(2,155)	84.8(2,155)	84.8(2,155)	84.8(2,155)	84.8(2,155)	
		Seat Height	in(mm)	44.3(1,125)	44.3(1,125)	44.3(1,125)	44.3(1,125)	44.3(1,125)	
19		Turning Radius	Minimum outside	in(mm)	92.9(2,360)	94.5(2,400)	99.6(2,530)	101.6(2,580)	
20		Load Moment Center		in(mm)	19.9(505)	19.9(505)	19.9(505)	20.3(515)	
21		Aisle 90 degree stacking(add load length & clearance)		in(mm)	112.8(2,865)	114.4(2,905)	119.5(3,035)	121.9(3,095)	
22	PERFORMANCE	Travel Speed	Loaded / Unloaded	mph(km/h)	11.2 / 11.8 (18 / 19)	11.2 / 11.8 (18 / 19)	11.2 / 11.8 (18 / 19)	11.2 / 11.8 (18 / 19)	11.2 / 11.8 (18 / 19)
		Lifting Speed	Loaded / Unloaded	fpm(mm/s)	98.4 / 108.3 (500 / 550)	94.5 / 108.3 (480 / 550)	94.5 / 98.4 (480 / 500)	88.6 / 98.4 (450 / 500)	88.6 / 98.4 (450 / 500)
		Lowering Speed	Loaded / Unloaded	fpm(mm/s)	104.3 / 88.6 (530 / 450)	98.4 / 88.6 (500 / 450)	98.4 / 86.6 (500 / 440)	94.5 / 86.6 (480 / 440)	94.5 / 86.6 (480 / 440)
		Max. drawbar pull	Loaded at 1.0 mph (1.6km / h)	lb(kg)	5,340(2,422)	5,212(2,346)	5,578(2,530)	5,816(2,638)	5,944(2,696)
23		Max. gradeability	Loaded at 1.0 mph (1.7km / h)	%	27	24	23	22	
24		Total Service Weight, Unloaded		lb(kg)	12,059(5,470)	12,897(5,850)	14,330(6,500)	15,410(6,990)	16,182(7,340)
25	WEIGHT	Axle Load	Loaded, Front / Rear	lb(kg)	17,571 / 2,205 (7,970 / 1,000)	19,158 / 2,557 (8,690 / 1,160)	21,550 / 2,701 (9,775 / 1,225)	23,435 / 2,998 (10,630 / 1,360)	24,998 / 3,329 (11,330 / 1,510)
			Unloaded, Front / Rear	lb(kg)	4,916 / 7,143 (2,230 / 3,240)	4,696 / 8,201 (2,130 / 3,720)	5,501 / 8,830 (2,495 / 4,005)	5,556 / 9,844 (2,520 / 4,470)	5,291 / 10,891 (2,400 / 4,940)
26									
27									
28	CHASSIS	Wheel Base	Distance	in(mm)	64.2(1,630)	64.2(1,630)	70.5(1,790)	70.5(1,790)	70.5(1,790)
		Tread Width	Front / Rear	in(mm)	41.0 / 41.1 (1,042 / 1,044)	41.0 / 41.1 (1,042 / 1,044)	43.9 / 41.1 (1,116 / 1,044)	43.9 / 41.1 (1,116 / 1,044)	43.9 / 41.1 (1,116 / 1,044)
		Ground Clearance	Loaded at the lowest point	in(mm)	5.1(130)	5.1(130)	5.1(130)	5.1(130)	5.1(130)
			Loaded at center of wheelbase	in(mm)	5.1(130)	5.1(130)	5.1(130)	5.1(130)	5.1(130)
		Brakes	Service	foot / hyd	foot / hyd	foot / hyd	foot / hyd	foot / hyd	foot / hyd
43		Parking	hand / mech	hand / mech	hand / mech	hand / mech	hand / mech	hand / mech	
44		Battery	Voltage / Ampere	V/AH	12 / 75	12 / 75	12 / 75	12 / 75	
45	POWER TRAIN	Engine	Manufacturer / Model		G643E	G643E	G643E	G643E	G643E
			Rated Power(DIN)	HP/rpm	94 / 2,500	94 / 2,500	94 / 2,500	94 / 2,500	94 / 2,500
		kW/rpm		70 / 2,500	70 / 2,500	70 / 2,500	70 / 2,500	70 / 2,500	
		lb_ft/rpm		224 / 1,500	224 / 1,500	224 / 1,500	224 / 1,500	224 / 1,500	
		kg_m/rpm		31 / 1,500	31 / 1,500	31 / 1,500	31 / 1,500	31 / 1,500	
		Cylinders / Displacements	CC	6 / 4,294	6 / 4,294	6 / 4,294	6 / 4,294	6 / 4,294	
			Type	powershift	powershift	powershift	powershift	powershift	
55		Transmission	Number of Speed (Fwd / Rev)		2 / 2	2 / 2	2 / 2	2 / 2	
56		Hydraulic Pressure	System	psi(bar)	2,755(190)	3,045(210)	3,045(210)	3,045(210)	3,335(230)
			Attachment	psi(bar)	2,030(140)	2,030(140)	2,030(140)	2,030(140)	2,030(140)

Note: Specification values quoted in this specification sheet has been rounded. Performance may vary due to operation conditions.

Products and specifications are subject to improvement and change without prior notices.

DIMENSIONAL DRAWING



MAST SPECIFICATIONS and RATED CAPACITIES

GC35S-5

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities			
					With Load Backrest		With Load Backrest		GC35S-5			
									Tilt Angle		Load Capacities	
					Narrow		Narrow		FWD	BWD	LC500mm	LC24in
								deg	deg	kg	lb	
STD	3000	118.1	2195	86.4	4265	167.9	160	6.3	5	6	3,500	7,000
	3300	129.9	2345	92.3	4565	179.7	160	6.3	5	6	3,500	7,000
	3650	143.7	2520	99.2	4915	193.5	160	6.3	5	6	3,500	7,000
	4000	157.5	2845	112.0	5265	207.3	160	6.3	5	6	3,500	7,000
	4250	167.3	2970	116.9	5515	217.1	160	6.3	5	6	3,450	7,000
	4850	190.9	3420	134.6	6115	240.7	160	6.3	5	6	3,275	6,650
FF	3000	118.1	2175	85.6	4250	167.3	975	38.4	5	6	3,500	7,000
FFT	4000	157.5	2060	81.1	5265	207.3	860	33.9	5	6	3,375	6,850
	4250	167.3	2145	84.4	5530	217.7	945	37.2	5	6	3,325	6,750
	4700	185.0	2295	90.4	5980	235.4	1095	43.1	5	6	3,200	6,500
	5150	202.8	2445	96.3	6430	253.1	1245	49.0	5	6	3,100	6,300
	5600	220.5	2595	102.2	6880	270.9	1395	54.9	5	6	2,975	6,100
	6050	238.2	2745	108.1	7330	288.6	1545	60.8	5	6	2,775	5,850

GC40S-5

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities			
					With Load Backrest		With Load Backrest		GC40S-5			
									Tilt Angle		Load Capacities	
					Narrow		Narrow		FWD	BWD	LC500mm	LC24in
								deg	deg	kg	lb	
STD	3000	118.1	2195	86.4	4265	167.9	160	6.3	5	6	4,000	8,000
	3300	129.9	2345	92.3	4565	179.7	160	6.3	5	6	4,000	8,000
	3650	143.7	2520	99.2	4915	193.5	160	6.3	5	6	4,000	8,000
	4000	157.5	2845	112.0	5265	207.3	160	6.3	5	6	4,000	8,000
	4250	167.3	2970	116.9	5515	217.1	160	6.3	5	6	3,950	8,000
	4850	190.9	3420	134.6	6115	240.7	160	6.3	5	6	3,700	7,550
FF	3000	118.1	2175	85.6	4250	167.3	975	38.4	5	6	4,000	8,000
FFT	4000	157.5	2060	81.1	5265	207.3	860	33.9	5	6	3,900	7,900
	4250	167.3	2145	84.4	5530	217.7	945	37.2	5	6	3,825	7,800
	4700	185.0	2295	90.4	5980	235.4	1095	43.1	5	6	3,700	7,500
	5150	202.8	2445	96.3	6430	253.1	1245	49.0	5	6	3,575	7,300
	5600	220.5	2595	102.2	6880	270.9	1395	54.9	5	6	3,450	7,050
	6050	238.2	2745	108.1	7330	288.6	1545	60.8	5	6	2,675	6,050

GC45S-5

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities					
					GC45S-5		With Load Backrest		With Load Backrest		Tilt Angle		Load Capacities	
					Narrow						Narrow			
					FWD	BWD	LC600mm	LC24in						
	mm	in	mm	in	mm	in	mm	in	deg	deg	kg	lb		
STD	3000	118.1	2195	86.4	4415	173.8	160	6.3	5	6	4,500	10,000		
	3300	129.9	2345	92.3	4715	185.6	160	6.3	5	6	4,500	10,000		
	3650	143.7	2520	99.2	5065	199.4	160	6.3	5	6	4,500	10,000		
	4000	157.5	2845	112.0	5415	213.2	160	6.3	5	6	4,500	10,000		
	4250	167.3	2970	116.9	5665	223.0	160	6.3	5	6	4,500	10,000		
	4850	190.9	3420	134.6	6265	246.7	160	6.3	5	6	4,375	9,550		
FF	3000	118.1	2175	85.6	4400	173.2	825	32.5	5	6	4,500	10,000		
FFT	4000	157.5	2055	80.9	5415	213.2	705	27.8	5	6	4,500	9,850		
	4250	167.3	2145	84.4	5680	223.6	795	31.3	5	6	4,425	9,700		
	4700	185.0	2295	90.4	6130	241.3	945	37.2	5	6	4,275	9,400		
	5150	202.8	2445	96.3	6580	259.1	1095	43.1	5	6	4,150	9,100		
	5600	220.5	2595	102.2	7030	276.8	1245	49.0	5	6	4,025	8,800		
	6050	238.2	2745	108.1	7480	294.5	1395	54.9	5	6	3,900	8,550		

GC50C-5

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities					
					GC50C-5		With Load Backrest		With Load Backrest		Tilt Angle		Load Capacities	
					Narrow						Narrow			
					FWD	BWD	LC600mm	LC24in						
	mm	in	mm	in	mm	in	mm	in	deg	deg	kg	lb		
STD	2750	108.3	2195	86.4	4165	164.0	170	6.7	5	6	5,000	11,000		
	3050	120.1	2345	92.3	4465	175.8	170	6.7	5	6	5,000	11,000		
	3400	133.9	2520	99.2	4815	189.6	170	6.7	5	6	5,000	11,000		
	3750	147.6	2845	112.0	5165	203.3	170	6.7	5	6	5,000	11,000		
	4000	157.5	2970	116.9	5415	213.2	170	6.7	5	6	5,000	11,000		
	4600	181.1	3420	134.6	6015	236.8	170	6.7	5	6	4,950	10,850		
FF	2875	113.2	2175	85.6	4275	168.3	835	32.9	5	6	5,000	11,000		
FFT	3875	152.6	2055	80.9	5290	208.3	715	28.1	5	6	5,000	11,000		
	4125	162.4	2145	84.4	5555	218.7	805	31.7	5	6	4,975	10,900		
	4575	180.1	2295	90.4	6005	236.4	955	37.6	5	6	4,825	10,550		
	5025	197.8	2445	96.3	6455	254.1	1105	43.5	5	6	4,675	10,250		
	5475	215.6	2595	102.2	6905	271.8	1255	49.4	5	6	4,525	9,900		
	5925	233.3	2745	108.1	7355	289.6	1405	55.3	5	6	4,400	9,600		

GC55C-5

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities					
					GC55C-5		With Load Backrest		With Load Backrest		Tilt Angle		Load Capacities	
					Narrow						Narrow			
					FWD	BWD	LC600mm	LC24in						
	mm	in	mm	in	mm	in	mm	in	deg	deg	kg	lb		
STD	2750	108.3	2195	86.4	4165	164.0	170	6.7	5	6	5,500	12,100		
	3050	120.1	2345	92.3	4465	175.8	170	6.7	5	6	5,500	12,100		
	3400	133.9	2520	99.2	4815	189.6	170	6.7	5	6	5,500	12,100		
	3750	147.6	2845	112.0	5165	203.3	170	6.7	5	6	5,500	12,100		
	4000	157.5	2970	116.9	5415	213.2	170	6.7	5	6	5,500	12,100		
	4600	181.1	3420	134.6	6015	236.8	170	6.7	5	6	5,400	11,800		
FF	2875	113.2	2175	85.6	4275	168.3	835	32.9	5	6	5,500	12,100		
FFT	3875	152.6	2055	80.9	5290	208.3	715	28.1	5	6	5,500	12,100		
	4125	162.4	2145	84.4	5555	218.7	805	31.7	5	6	5,425	11,850		
	4575	180.1	2295	90.4	6005	236.4	955	37.6	5	6	5,250	11,500		
	5025	197.8	2445	96.3	6455	254.1	1105	43.5	5	6	5,100	11,150		
	5475	215.6	2595	102.2	6905	271.8	1255	49.4	5	6	4,950	10,850		
	5925	233.3	2745	108.1	7355	289.6	1405	55.3	5	6	4,800	10,500		



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