



Doosan Infracore  
Forklifts

# TECHNICAL SPECIFICATIONS

## Pneumatic Forklift Trucks

D35S / D40S / D45S-5 & D50C / D55C-5

D40SC / D45SC / D50SC-5 / D55SC-5

G35S / G40S / G45S-5 & G50C / G55C-5

G40SC / G45SC / G50SC-5 / G55SC-5

3,500kg to 5,500kg Capacity

**PRO5**  
SERIES

NEW

EPA Tier-3 &  
Stage-3A



# 3,500/4,000/4,500/5,000 /5,500kg Capacities

## Engine Powered Forklift Trucks Pneumatic Tire

### MAIN VEHICLE SPECIFICATIONS

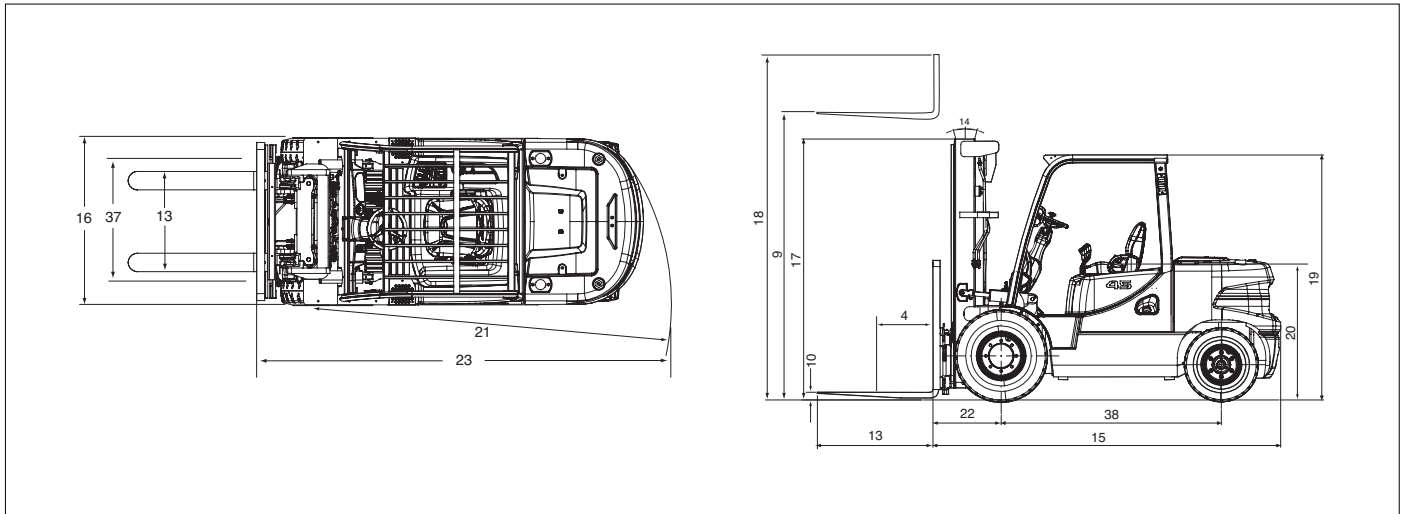
CHARACTERISTICS	1	Manufacture			DOOSAN	DOOSAN	DOOSAN	DOOSAN				
	2	Model			D35S-5	D40S-5	D45S-5	D50C-5				
	3	Load Capacity	at rated load center	kg	3,500	4,000	4,500	5,000				
	4	Load Center		mm	600	600	600	600				
	5	Power type	Elec, Diesel, LPG, Gasoline		Diesel	Diesel	Diesel	Diesel				
	6	Operator type			Driver-seated	Driver-seated	Driver-seated	Driver-seated				
	7	Tire type	P:Pnu, E:Solid Soft, C: Cush		P	P	P	P				
	8	Wheels (x=Driven)	Front / Rear		x 2 / 2	x 2 / 2	x 2 / 2	x 2 / 2				
DIMENSIONS	9	Max. Fork Height	with STD 2-stage mast	mm	3,000	3,000	3,000	3,000		3,050		
	10	Free Lift		mm	160	160	160	160		170		
	12	Fork Carriage	ISO Class		III	III	IV	IV				
	13	Forks	Length x Width x Thickness	mm	1,050 x 150 x 50	1,050 x 150 x 50	1,200 x 150x50	1,200 x 150x60				
			Fork Spacing(Min x Max)	mm	310 x 1,182	310 x 1,182	340 x 1,290	340 x 1,290				
	14	Tilt of Mast	Forward / Backward	deg	8 / 10	8 / 10	8 / 10	8 / 10				
	15	Overall Dimensions	Length to Fork Face	mm	3,100	3,151	3,265	3,300				
			Overall Width	mm	1,372	1,451	1,451	1,451				
			Mast Lowered Height	mm	2,225	2,230	2,230	2,380				
			Mast Extended Height	mm	4,265	4,270	4,420	4,470				
			Overhead Guard Height	mm	2,225	2,230	2,230	2,230				
	19	Seat Height	mm	1,248	1,255	1,255	1,255					
	21	Turning Radius	Minimum outside	mm	2,770	2,820	2,865	2,930				
	22	Load Moment Center		mm	561	561	561	571				
	23	Aisle 90 degree stacking(add load length & clearance)		mm	3,331	3,381	3,426	3,501				
PERFORMANCE	24	Travel Speed	Loaded / Unloaded	km/h	24 / 25	24 / 25	24 / 25	24 / 25				
	25	Lifting Speed	Loaded / Unloaded	mm/s	520 / 540	540 / 575	520 / 540	535 / 575	520 / 540	530 / 575	470 / 540	525 / 575
	26	Lowering Speed	Loaded / Unloaded	mm/s	480 / 450	480 / 450	480 / 450	480 / 450				
	28	Max. drawbar pull	Loaded at 1.0 mph (1.6km / h)	kg	3,470	3,470	3,450	3,410	3,470	3,430	3,450	3,410
	30	Max. gradeability	Loaded at 1.0 mph (1.6km / h)	%	38	40	35	35.5	32	35	30	30.5
	WEIGHT	32	Total Service Weight, Unloaded		kg	5,790	5,760	6,180	6,100	6,550	6,540	7,050
33		Axle Load	Loaded, Front / Rear	kg	8,215 / 1,075	8,100 / 1,160	8,980 / 1,200	8,810 / 1,290	9,800 / 1,250	9,690 / 1,350	10,680 / 1,370	10,530 / 1,490
			Unloaded, Front / Rear	kg	2,685 / 3,105	2,565 / 3,195	2,660 / 3,520	2,490 / 3,610	2,810 / 3,740	2,700 / 3,840	2,890 / 4,160	2,740 / 4,280
34												
CHASSIS	35		Number of wheels(F / R)		2 / 2	2 / 2	2 / 2	2 / 2				
	36	Tires	Size, Front		8.25 x 15-14	300 x 15-18	300 x 15-18	300 x 15-18				
			Size, Rear		7.00 x 12-12	7.00 x 12-12	7.00 x 12-12	7.00 x 12-14				
	38	Wheel Base	Distance	mm	2,000	2,000	2,100	2,100				
	39	Tread Width	Front / Rear	mm	1,138 / 1,115	1,153 / 1,115	1,153 / 1,115	1,153 / 1,115				
	40	Ground Clearance	Loaded at the lowest point	mm	160	160	160	160				
			Loaded at center of wheelbase	mm	205	205	205	205				
42	Brakes	Service		shoe / disc	shoe / disc	shoe / disc	shoe / disc					
		Parking		ratchet	ratchet	ratchet	ratchet					
45	Battery	Voltage / Ampere	V/AH	24 / 75	24 / 75	24 / 75	24 / 75					
POWER TRAIN	49	Engine	Model		DB58S	D439E	DB58S	D439E	DB58S	D439E	DB58S	D439E
			Rated Power(DIN)	HP/rpm	92 / 2,200	92 / 2,300	92 / 2,200	92 / 2,300	92 / 2,200	92 / 2,300	92 / 2,200	92 / 2,300
				kW/rpm	68 / 2,200	68 / 2,300	68 / 2,200	68 / 2,300	68 / 2,200	68 / 2,300	68 / 2,200	68 / 2,300
			Maximum Torque	N-m/rpm	324 / 1,600	324 / 1,600	324 / 1,600	324 / 1,600	324 / 1,600	324 / 1,600	324 / 1,600	324 / 1,600
	52	Cylinders / Displacements	CC	6 / 5,785	4 / 3,900	6 / 5,785	4 / 3,900	6 / 5,785	4 / 3,900	6 / 5,785	4 / 3,900	
55	Transmission	Type		powershift	powershift	powershift	powershift					
		Number of Speed (Fwd / Rev)		2 / 2	2 / 2	2 / 2	2 / 2					
57	Hydraulic Pressure	System	bar	190	190	210	210					
		Attachment	bar	140	140	140	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

### D/G35S-5, D/G40SC-5

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities							
					D,G35S-5, D,G40SC-5							
			With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities			
					Single Pneu.		Double Pneu.		Single Pneu.		Double Pneu.	
FWD	BWD	FWD	BWD	LC500mm	LC600mm	LC500mm	LC600mm					
	mm	mm	mm	mm	deg	deg	deg	deg	kg	kg	kg	kg
STD	3000	2225	4265	160	8	10	8	10	4000	3655	4000	3655
	3300	2375	4565	160	8	10	8	10	4000	3655	4000	3655
	3650	2550	4915	160	8	10	8	10	4000	3655	4000	3655
	4000	2875	5265	160	8	10	8	10	4000	3655	4000	3655
	4250	3000	5515	160	8	10	8	10	4000	3655	4000	3655
FF	4850	3450	6115	160	8	8	8	10	3850	3520	3875	3545
	3000	2205	4250	1005	8	10	8	10	4000	3660	4000	3660
FFT	4000	2090	5265	890	8	8	8	8	3975	3645	4000	3670
	4250	2175	5530	975	8	8	8	8	3900	3575	3950	3625
	4700	2325	5980	1125	8	8	8	8	3775	3465	3800	3485
	5150	2475	6430	1275	8	5	8	8	3650	3350	3675	3370
	5600	2625	6880	1425	8	3	8	8	3525	3235	3550	3255
	6050	2775	7330	1575	8	3	8	5	3075	2820	3450	3165

### D/G40S-5, D/G45SC-5

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities							
					D,G40S-5, D,G45SC-5							
			With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities			
					Single Pneu.		Double Pneu.		Single Pneu.		Double Pneu.	
FWD	BWD	FWD	BWD	LC500mm	LC600mm	LC500mm	LC600mm					
	mm	mm	mm	mm	deg	deg	deg	deg	kg	kg	kg	kg
STD	3000	2230	4270	160	8	10	8	10	4500	4115	4500	4115
	3300	2380	4570	160	8	10	8	10	4500	4115	4500	4115
	3650	2555	4920	160	8	10	8	10	4500	4115	4500	4115
	4000	2880	5270	160	8	10	8	10	4500	4115	4500	4115
	4250	3005	5520	160	8	10	8	10	4500	4115	4500	4115
FF	4850	3455	6120	160	8	8	8	10	4400	4025	4425	4045
	3000	2210	4255	1010	8	10	8	10	4500	4115	4500	4115
FFT	4000	2090	5270	890	8	8	8	8	4500	4125	4500	4125
	4250	2180	5535	980	8	8	8	8	4475	4105	4500	4125
	4700	2330	5985	1130	8	8	8	8	4325	3965	4350	3990
	5150	2480	6435	1280	8	5	8	5	4175	3830	4225	3875
	5600	2630	6885	1430	8	3	8	3	4050	3715	4075	3740
	6050	2780	7335	1580	8	3	8	3	3800	3485	3750	3440

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

**D/G45S-5, D/G50SC-5**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities									
					D,G45S-5, D,G50SC-5									
					With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities			
							Single Pneu.		Double Pneu.		Single Pneu.		Double Pneu.	
FWD	BWD	FWD	BWD	LC500mm	LC600mm	LC500mm	LC600mm							
	mm	mm	mm	mm	deg	deg	deg	deg	kg	kg	kg	kg		
STD	3000	2230	4420	160	8	10	8	10	5000	4570	5000	4570		
	3300	2380	4720	160	8	10	8	10	5000	4570	5000	4570		
	3650	2555	5070	160	8	10	8	10	5000	4570	5000	4570		
	4000	2880	5420	160	8	10	8	10	5000	4570	5000	4570		
	4250	3005	5670	160	8	10	8	10	5000	4570	5000	4570		
	4850	3455	6270	160	8	5	8	10	4900	4480	4700	4295		
FF	3000	2210	4400	860	8	10	8	10	5000	4575	5000	4575		
FFT	4000	2090	5415	740	8	8	8	8	5000	4585	5000	4585		
	4250	2180	5680	830	8	8	8	8	4975	4565	5000	4585		
	4700	2330	6130	980	8	8	8	8	4800	4400	4850	4450		
	5150	2480	6580	1130	8	3	8	8	4650	4265	4525	4150		
	5600	2630	7030	1280	8	3	8	5	4500	4125	4125	3785		
	6050	2780	7480	1430	8	3	8	3	3575	3280	3575	3280		

**D/G50S-5, D/G55SC-5**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities									
					D,G50S-5, D,G55SC-5									
					With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities			
							Single Pneu.		Double Pneu.		Single Pneu.		Double Pneu.	
FWD	BWD	FWD	BWD	LC500mm	LC600mm	LC500mm	LC600mm							
	mm	mm	mm	mm	deg	deg	deg	deg	kg	kg	kg	kg		
STD	2750	2230	4170	170	8	10	8	10	5500	5030	5500	5030		
	3050	2380	4470	170	8	10	8	10	5500	5030	5500	5030		
	3400	2555	4820	170	8	10	8	10	5500	5030	5500	5030		
	3750	2880	5170	170	8	10	8	10	5500	5030	5500	5030		
	4000	3005	5420	170	8	10	8	10	5500	5030	5500	5030		
	4600	3455	6020	170	8	8	8	10	5500	5030	5125	4690		
FF	2875	2210	4275	870	8	10	8	10	5500	5035	5500	5035		
FFT	3875	2090	5290	750	8	8	8	8	5500	5050	5500	5050		
	4125	2180	5555	840	8	8	8	8	5500	5050	5500	5050		
	4575	2330	6005	990	8	8	8	8	5375	4935	5425	4980		
	5025	2480	6455	1140	8	5	8	8	5200	4775	4600	4220		
	5475	2630	6905	1290	8	3	8	5	4650	4270	4200	3855		
	5925	2780	7355	1440	8	3	8	5	3625	3330	3275	3005		

**D/G55C-5 (COMPACT)**

Mast type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Rated Load Capacities									
					D,G55C-5 (COMPACT)									
					With Load Backrest	With Load Backrest	Tilt Angle				Load Capacities			
							Single Pneu.		Double Pneu.		Single Pneu.		Double Pneu.	
FWD	BWD	FWD	BWD	LC500mm	LC500mm	LC500mm	LC500mm							
	mm	mm	mm	mm	deg	deg	deg	deg	kg	kg	kg	kg		
STD	2750	2230	4170	170	8	10	8	10	5500		5500			
	3050	2380	4470	170	8	10	8	10	5500		5500			
	3400	2555	4820	170	8	10	8	10	5500		5500			
	3750	2880	5170	170	8	10	8	10	5500		5500			
	4000	3005	5420	170	8	10	8	10	5500		5500			
	4600	3455	6020	170	8	8	8	10	5400		4900			
FF	2875	2210	4275	870	8	10	8	10	5500		5500			
FFT	3875	2090	5290	750	8	8	8	8	5500		5500			
	4125	2180	5555	840	8	8	8	8	5500		5500			
	4575	2330	6005	990	8	8	8	8	5500		5500			
	5025	2480	6455	1140	8	5	8	8	5150		4425			
	5475	2630	6905	1290	8	3	8	5	4500		4050			
	5925	2780	7355	1440	8	3	8	5	3500		3125			

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

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Forklifts

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