



# TECHNICAL SPECIFICATIONS

## 4 Wheels Electric Forklift Trucks

BC15S / BC18S-5 / BC20SC-5

3,000lb to 4,000lb Capacity

**PRO5**  
SERIES



# 3,000/3,500/4,000 lb Capacities

## 4 Wheel Electric Forklift Trucks

### MAIN VEHICLE SPECIFICATIONS

CHARACTERISTICS	1	Manufacturer			DOOSAN	DOOSAN	DOOSAN	
	2	Model			BC15S-5	BC18S-5	BC20SC-5	
	3	Load Capacity	at rated load center	lb(kg)	3,000(1,500)	3,500(1,750)	4,000(2,000)	
	4	Load Center		in(mm)	24 (500)	24 (500)	24 (500)	
	5	Power type			AC Electric	AC Electric	AC Electric	
	6	Operator type			Driver seated	Driver seated	Driver seated	
	7	Tire type	P:Pnu, E:Solid Soft, C: Cush		C	C	C	
	8	Wheels (x=Driven)			x 2 / 2	x 2 / 2	x 2 / 2	
DIMENSIONS	9	Max. Fork Height	with STD 2-stage mast	in(mm)	130 (3,300)	130 (3,300)	130 (3,300)	
	10	Free Lift		in(mm)	5.1(130)	5.1(130)	5.3(135)	
	12	Fork Carriage	ISO Class		II	II	II	
	13	Forks	Thickness x Width x Length	in(mm)	1.4X4X41 (35X100X1,050)	1.4X4X41 (35X100X1,050)	1.5X4X41 (40X100X1,050)	
			Fork Spacing(Min x Max)	in(mm)	9.4X35.6 (240X905)	9.4X35.6 (240X905)	9.4X35.6 (240X905)	
	14	Tilt of Mast	Forward/Backward	deg	6 / 8	6 / 8	6 / 8	
	15	Overall Dimensions	Length to Fork Face	in(mm)	76.1 (1,933)	77.7 (1,973)	79.9 (2,028)	
			Overall Width	in(mm)	37.2 (945)	37.2 (945)	39.0 (991)	
			Mast Lowered Height	in(mm)	83.9 (2,130)	83.9 (2,130)	83.9 (2,130)	
			Mast Extended Height	in(mm)	171.1 (4,345)	171.1 (4,345)	171.1 (4,345)	
			Overhead Guard Height	in(mm)	86.8 (2,207)	86.8 (2,207)	86.8 (2,207)	
			Seat Height	in(mm)	44.7 (1,135)	44.7 (1,135)	44.7 (1,135)	
	21	Turning Radius	Minimum outside	in(mm)	69.3 (1,760)	70.0 (1,778)	71.2 (1,808)	
	22	Load Moment Center		in(mm)	15.5 (394)	15.5 (394)	15.7 (399)	
23	Aisle 90 degree stacking(add load length & clearance)		in(mm)	84.8 (2,154)	85.5 (2,172)	86.9 (2,207)		
PERFORMANCE	24	Travel Speed	Loaded/Unloaded	36V	mph(km/h)	8.7 / 9.3(14.0 / 15.0)	8.7 / 9.3(14.0 / 15.0)	8.7 / 9.3(14.0 / 15.0)
			Loaded/Unloaded	48V	mph(km/h)	10.6 / 10.6(17.0 / 17.0)	10.6 / 10.6(17.0 / 17.0)	10.6 / 10.6(17.0 / 17.0)
	25	Lifting Speed	Loaded/Unloaded	36V	fpm(mm/s)	73 / 108(370 / 550)	69 / 108(340 / 550)	63 / 108(320 / 550)
			Loaded/Unloaded	48V	fpm(mm/s)	79 / 118(400 / 600)	79 / 118(400 / 600)	79 / 118(400 / 600)
	26	Lowering Speed	Loaded/Unloaded		fpm(mm/s)	98.4 / 88.6(500 / 450)	98.4 / 88.6(500 / 450)	98.4 / 88.6(500 / 450)
	28	Max. drawbar pull	Loaded (5 min. rating)		lb(kg)	1,360 (630)	1,360 (630)	1,360 (630)
30	Max. gradeability	Loaded (5 min. rating)		(%)	14	13	12	
WEIGHT	32	Total Service Weight	with minimum weight of battery	lb(kg)	6,989 (3,170)	7,385 (3,350)	7,870 (3,570)	
	33	Axle Load at Loaded	Front/Rear	lb(kg)	8,575 / 1,410(3,890 / 640)	9,413 / 1,477(4,270 / 670)	10,168 / 1,693(4,612 / 768)	
	34	Axle Load at Unloaded	Front/Rear	lb(kg)	3,097 / 3,891(1,405 / 1,765)	3,009 / 4,376(1,365 / 1,985)	2,877 / 4,993(1,305 / 2,265)	
CHASSIS	35	Tires	Number of wheels(F/R)		2 / 2	2 / 2	2 / 2	
			Size, Front		18X6X12.1	18X6X12.1	18X7X12.12	
			Size, Rear		14X5X10	14X5X10	14X5X10	
	38	Wheel Base	Distance	in(mm)	48.0 (1,220)	48.0 (1,220)	48.0 (1,220)	
	39	Tread Width	Front	in(mm)	31(787)	31(787)	32(813)	
			Rear	in(mm)	31(787)	31(787)	31(787)	
	40	Ground Clearance	at the lowest point	in(mm)	2.7 (68)	2.7 (68)	2.7 (68)	
	41		at center of wheelbase	in(mm)	3.1 (80)	3.1 (80)	3.1 (80)	
	42	Brakes	Service		Shoe / ODB	Shoe / ODB	Shoe / ODB	
			43	Parking		Hand / Mech	Hand / Mech	Hand / Mech
POWER TRAIN	45	Battery	Type		lead-acid	lead-acid	lead-acid	
			Max. Capacity (5 Hours)	36V	AH	740	740	740
				48V	AH	585	585	585
			Battery compartment sizes(WxLxH)	in(mm)	36.2X27.6X25.8(920x702x655)	36.2X27.6X25.8(920x702x655)	36.2X27.6X25.8(920x702x655)	
	Weight(Minimum)	36V	lb(kg)	1,874 (850)	1,874 (850)	1,874 (850)		
		48V	lb(kg)	1,874 (850)	1,874 (850)	1,874 (850)		
	47	Electric Motors	Drive motor(1 HR Rating)	36V	HP(kW)	13.4 (10)	13.4 (10)	13.4 (10)
				48V	HP(kW)	13.4 (10)	13.4 (10)	13.4 (10)
			Hyd. Motor(15% Duty)	36V	HP(kW)	16.1 (12)	16.1 (12)	16.1 (12)
				48V	HP(kW)	16.1 (12)	16.1 (12)	16.1 (12)
54	Control Type	with electric drive			MOSFET Inverter	MOSFET Inverter	MOSFET Inverter	
57	Relief Pressure	System	psi(bar)	2,880(198.4)	2,880(198.4)	3,125(215.3)		
		Attachment	psi(bar)	2,250(155)	2,250(155)	2,250(155)		
	Noise Level	Leq		dB	68	68	68	

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.

**BC15S**

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities					
									BC15S					
									Tilt Angle		Load Capacities			
											Narrow Tire		Wide Tire	
FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in									
	mm	in	mm	in	mm	in	mm	in	deg	deg	kg	lb	kg	lb
STD	3000	118	1980	78	4045	159	130	5	6	8	1500	3000	1500	3000
	3300	130	2130	84	4345	171	130	5	6	8	1500	3000	1500	3000
	3500	138	2230	88	4545	179	130	5	6	8	1500	3000	1500	3000
	3700	146	2330	92	4745	187	130	5	6	8	1500	3000	1500	3000
	4000	157	2530	100	5045	199	130	5	6	8	1500	3000	1500	3000
	4500	177	2780	109	5545	218	130	5	6	8	1300	3000	1500	3000
FF	2700	106	1830	72	3745	147	825	32	6	5	1500	3000	1500	3000
	3000	118	1980	78	4045	159	975	38	6	5	1500	3000	1500	3000
	3300	130	2130	84	4345	171	1125	44	6	5	1500	3000	1500	3000
FFT	4000	157	1860	73	5050	199	855	34	6	5	1500	3000	1500	3000
	4500	177	2025	80	5545	218	1020	40	6	5	1500	3000	1500	3000
	4750	187	2110	83	5795	228	1105	44	6	5	1450	2850	1450	2850
	5000	197	2225	88	6045	238	1220	48	6	5	1300	2850	1450	2850
	5500	217	2460	97	6550	258	1455	57	6	5	850	2000	1350	2750
	6000	236	2625	103	7045	277	1620	64	6	5	600	1300	1100	2450

**BC18S**

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities					
									BC18S					
									Tilt Angle		Load Capacities			
											Narrow Tire		Wide Tire	
FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in									
	mm	in	mm	in	mm	in	mm	in	deg	deg	kg	lb	kg	lb
STD	3000	118	1980	78	4045	159	130	5	6	8	1750	3500	1750	3500
	3300	130	2130	84	4345	171	130	5	6	8	1750	3500	1750	3500
	3500	138	2230	88	4545	179	130	5	6	8	1750	3500	1750	3500
	3700	146	2330	92	4745	187	130	5	6	8	1750	3500	1750	3500
	4000	157	2530	100	5045	199	130	5	6	8	1700	3400	1700	3400
	4500	177	2780	109	5545	218	130	5	6	8	1300	2950	1650	3250
FF	2700	106	1830	72	3745	147	825	32	6	5	1750	3500	1750	3500
	3000	118	1980	78	4045	159	975	38	6	5	1750	3500	1750	3500
	3300	130	2130	84	4345	171	1125	44	6	5	1750	3500	1750	3500
FFT	4000	157	1860	73	5050	199	855	34	6	5	1700	3400	1700	3400
	4500	177	2025	80	5545	218	1020	40	6	5	1600	3250	1600	3250
	4750	187	2110	83	5795	228	1105	44	6	5	1550	3150	1600	3150
	5000	197	2225	88	6045	238	1220	48	6	5	1300	2950	1550	3150
	5500	217	2460	97	6550	258	1455	57	6	5	850	1950	1450	2950
	6000	236	2625	103	7045	277	1620	64	6	3	800	1850	1400	2800

**BC20SC**

Mast type	Maximum Fork Height		Maximum Lowered Height		Fully Extended Height		Free Lift		Rated Load Capacities					
									BC20SC					
									Tilt Angle		Load Capacities			
											Narrow Tire		Wide Tire	
FWD	BWD	LC 500mm	LC 24in	LC 500mm	LC 24in									
	mm	in	mm	in	mm	in	mm	in	deg	deg	kg	lb	kg	lb
STD	3000	118	1980	78	4050	159	135	5	6	8	2000	4000	2000	4000
	3300	130	2130	84	4350	171	135	5	6	8	2000	4000	2000	4000
	3500	138	2230	88	4550	179	135	5	6	8	2000	4000	2000	4000
	3700	146	2330	92	4750	187	135	5	6	8	2000	4000	2000	4000
	4000	157	2530	100	5050	199	135	5	6	8	1950	3850	1950	3850
	4500	177	2780	109	5550	219	135	5	6	8	1450	3300	1850	3750
FF	2700	106	1830	72	3750	148	825	32	6	5	2000	4000	2000	4000
	3000	118	1980	78	4050	159	975	38	6	5	2000	4000	2000	4000
	3300	130	2130	84	4350	171	1125	44	6	5	2000	4000	2000	4000
FFT	4000	157	1860	73	5055	199	855	34	6	5	1900	3850	1900	3850
	4500	177	2025	80	5550	219	1020	40	6	5	1800	3650	1850	3650
	4750	187	2110	83	5800	228	1105	44	6	5	1750	3550	1800	3650
	5000	197	2225	88	6050	238	1220	48	6	5	1450	3300	1750	3550
	5500	217	2460	97	6555	258	1455	57	6	3	1300	3000	1650	3400
	6000	236	2625	103	7050	278	1620	64	6	3	900	2000	1200	2750



# PRO5 SERIES



BC15S / BC18S-5 / BC20SC-5  
3,000lb(1,500kg) to 4,000lb(2,000kg)  
36/48 VOLT  
Cushion Tire

## Full Product Line

Doosan offers a full line of lift trucks from 3,000lb(1,500kg) to 36,000lb(16,000kg) pounds to fill all your material handling needs. Contact your dealer for specific information on our various models and configurations.

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