

# 4,000/5,000/6,000/6,500 lb. Capacities

## 4 Wheel Electric Forklift Trucks

### Pneumatic Models, 48V-AC

#### MAIN VEHICLE SPECIFICATIONS

				DOOSAN	DOOSAN	DOOSAN	DOOSAN	
CHARACTERISTICS	1	Manufacturer		DOOSAN	DOOSAN	DOOSAN	DOOSAN	
	2	Model		B20S-5	B25S-5	B30S-5	B32S-5	
	3	Load Capacity	at rated load center	lb(kg)	4000(2000)	5000(2500)	6000(3000)	6400(3200)
	4	Load Center		in(mm)	24(500)	24(500)	24(500)	24(500)
	5	Power Type			AC electric	AC electric	AC electric	AC electric
	6	Operator Type			driver seated	driver seated	driver seated	driver seated
	7	Tire Type	P: Pneu, E: Solid Soft, C: Cush		P, E	P, E	P, E	P, E
	8	Wheels (x=Driven)			x 2 / 2	x 2 / 2	x 2 / 2	x 2 / 2
DIMENSIONS	9	Max. Fork Height	with STD 2-stage mast	in(mm)	127(3230)	127(3230)	127(3230)	127(3230)
	10	Free Lift		in(mm)	5.8(147)	5.8(147)	6.0(152)	6.0(152)
	12	Fork Carriage	ISO Class		II	II	III	III
	13	Forks	Length x Width x Thickness	in(mm)	41.3 x 3.9 x 1.6 (1050 x 100 x 40)	41.3 x 3.9 x 1.6 (1050 x 100 x 40)	41.3 x 3.9 x 1.6 (1050 x 100 x 40)	41.3 x 4.9 x 1.8 (1050 x 125 x 45)
			Fork Spacing(Min x Max)	in(mm)	10.8 x 40.7 (275 x 1035)	10.8 x 40.7 (275 x 1035)	11.3 x 41.1 (286 x 1044)	11.3 x 41.1 (286 x 1044)
	14	Tilt of Mast	Forward/Backward	deg	6 / 10	6 / 10	6 / 10	6 / 10
	15	Overall Dimensions	Length to Fork Face	in(mm)	86.5 (2196)	87.6 (2226)	93.6 (2377)	94.8 (2407)
			Overall Width	in(mm)	47.2 (1200)	47.2 (1200)	47.2 (1200)	47.2 (1200)
			Mast Lowered Height	in(mm)	84.3 (2140)	84.3 (2140)	84.3 (2140)	84.3 (2140)
			Mast Extended Height	in(mm)	176.4 (4480)	176.4 (4480)	176.4 (4480)	176.4 (4480)
			Overhead Guard Height	in(mm)	87.4 (2220)	87.4 (2220)	87.4 (2220)	87.4 (2220)
	19	Seat Height		in(mm)	43.2 (1098)	43.2 (1098)	43.2 (1098)	43.2 (1098)
	21	Turning Radius	Minimum outside	in(mm)	80.3 (2040)	81.1 (2060)	86.2 (2190)	87.4 (2220)
	22	Load Moment Center		in(mm)	15.9 (405)	15.9 (405)	16.1 (411)	16.1 (411)
	23	Aisle 90 degree stacking(add load length & clearance)		in(mm)	96.2(2445)	97(2465)	102.3(2601)	103.5(2631)
PERFORMANCE	24	Travel Speed	Loaded/Unloaded	mph(km/h)	11.2 / 11.2 (18.0 / 18.0)	11.2 / 11.2 (18.0 / 18.0)	11.2 / 11.2 (18.0 / 18.0)	11.2 / 11.2 (18.0 / 18.0)
	25	Lifting Speed	Loaded/Unloaded	fpm(mm/s)	86.6 / 118 (440 / 600)	76.8 / 118 (390 / 600)	66.9 / 118 (340 / 600)	63.0 / 118 (320 / 600)
	26	Lowering Speed	Loaded/Unloaded	fpm(mm/s)	98.4 / 91 (500 / 460)	98.4 / 91 (500 / 460)	98.4 / 91 (500 / 460)	98.4 / 91 (500 / 460)
	28	Max. drawbar pull	Loaded/Unloaded(5 min. rating)	lb(kg)	3572 / 2690 (1620 / 1220)	3505 / 2624 (1590 / 1190)	3197 / 2425 (1450 / 1100)	3175 / 2425 (1440 / 1100)
	30	Max. gradeability	Loaded/Unloaded(5 min. rating)	%	28.0 / 32.0	24.5 / 28.5	19.0 / 23.0	18.0 / 22.0
	32	Total Service Weight	with minimum weight of battery	lb(kg)	8796 (3990)	9700 (4400)	10516(4770)	10869 (4930)
WEIGHT	33	Axle Load , Loaded	Front / Rear	lb(kg)	11444 / 1762 (5191 / 799)	13181 / 2030 (5979 / 921)	15113 / 2017 (6855 / 915)	15730 / 2194 (7135 / 995)
	34	Axle Load , Unloaded	Front / Rear	lb(kg)	4169 / 4628 (1891 / 2099)	4087 / 5613 (1854 / 2546)	4612 / 5904 (2092 / 2678)	4528 / 6341 (2054 / 2876)
CHASSIS	35		Number of wheels (F/R)		2/2	2/2	2/2	2/2
	36	Tires	Size , Front		23 x 10 -12	23 x 10 -12	23 x 10 -12	23 x 10 -12
			Size , Rear		18 x 7 - 8	18 x 7 - 8	18 x 7 - 8	18 x 7 - 8
	38	Wheel Base	Distance	in(mm)	55.1 (1400)	55.1 (1400)	61.0 (1550)	61.0 (1550)
	39	Tread Width	Front	in(mm)	37.4 (950)	37.4 (950)	37.4 (950)	37.4 (950)
			Rear	in(mm)	39.3(998)	39.3(998)	39.3(998)	39.3(998)
	40	Ground Clearance	at the lowest point	in(mm)	4.3 (110)	4.3 (110)	4.3 (110)	4.3 (110)
			at center of wheelbase	in(mm)	4.9 (125)	4.9 (125)	4.9 (125)	4.9 (125)
	42	Brakes	Service		foot / hydraulic	foot / hydraulic	foot / hydraulic	foot / hydraulic
			Parking		hand / mech	hand / mech	hand / mech	hand / mech
POWER TRAIN	45	Battery	Type		lead-acid	lead-acid	lead-acid	lead-acid
			Capacity (5 Hours Rating)	V / AH	48 / 715	48 / 800	48 / 850	48 / 850
			Max. Capacity ( 5 Hours Rating)	V / AH	48 / 1050	48 / 1050	48 / 1200	48 / 1200
			Battery compartment sizes(W x L x H)	in(mm)	40.7 x 35.2 x 20.8 (1036 x 896 x 530)		40.7 x 41.1 x 20.8 (1036 x 1046 x 530)	
		Weight (Minimum)	lb(kg)	2425 (1110)	2690 (1220)	3175 (1440)	3175 (1440)	
	47	Electric Motors	Drive motor(1 HR Rating)	hp(kW)	21.5 (16.0)	21.5 (16.0)	21.5 (16.0)	21.5 (16.0)
			Hydraulic motor(15% Duty)	hp(kW)	28.2 (21.0)	28.2 (21.0)	28.2 (21.0)	28.2 (21.0)
54	Control Type	Drive and hydraulic		MOSFET Inverter	MOSFET Inverter	MOSFET Inverter	MOSFET Inverter	
57	Relief Pressure	System	psi(bar)	2407 (166)	2799 (193)	3002 (207)	3408 (235)	
		Attachment	psi(bar)	2248 (155)	2248 (155)	2248 (155)	2248 (155)	

# 4,000/5,000/6,000/6,500 lb. Capacities

## 4 Wheel Electric Forklift Trucks

### Cushion Models, 36 / 48V-AC

#### MAIN VEHICLE SPECIFICATIONS

CHARACTERISTICS	1	Manufacture			DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN	
	2	Model			BC20S-5	BC25S-5	BC25SE-5	BC30S-5	BC32S-5	
	3	Load Capacity	at rated load center	lb(kg)	4000(2000)	5000(2500)	5000(2500)	6000(3000)	6500(3000)	
	4	Load Center		in(mm)	24 (500)	24 (500)	24 (500)	24 (500)	24 (600)	
	5	Power Type			AC electric	AC electric	AC electric	AC electric	AC electric	
	6	Operator Type			driver seated	driver seated	driver seated	driver seated	driver seated	
	7	Tire Type	P: Penu, E: Solid Soft, C: Cush		C	C	C	C	C	
	8	Wheels (x=Driven)			x 2/2	x 2/2	x 2/2	x 2/2	x 2/2	
DIMENSIONS	9	Max. Fork Height	with STD 2-stage mast	in(mm)	127 (3230)	127 (3230)	127 (3230)	127 (3230)	127 (3230)	
	10	Free Lift		in(mm)	6.0 (152)	6.0 (152)	6.0 (152)	6.0 (152)	6.0 (152)	
	12	Fork Carriage	ISO Class		II	II	II	III	III	
	13	Forks	Length x Width x Thickness	in(mm)	41.3x3.9x1.6 (1050x100x40)	41.3x3.9x1.6 (1050x100x40)	41.3x3.9x1.6 (1050x100x40)	41.3x4.9x1.8 (1050x125x45)	41.3x4.9x1.8 (1050x125x45)	
			Fork Spacing(Min x Max)	in(mm)	11.7x35.6 (297x905)	11.7x35.6 (297x905)	11.7x35.6 (297x905)	11.1x37.6 (282x954)	11.1x37.6 (282x954)	
	14	Tilt of Mast	Forward/Backward	deg	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10	
	17	Overall Dimensions	Length to Fork Face	in(mm)	81.3 (2065)	82.5 (2095)	85.2 (2165)	88.6 (2250)	90.7 (2305)	
			Overall Width	in(mm)	43.7 (1110)	43.7 (1110)	43.7 (1110)	43.7 (1110)	43.7 (1110)	
			Mast Lowered Height	in(mm)	83.3 (2115)	83.3 (2115)	83.3 (2115)	83.3 (2115)	83.3 (2115)	
			Mast Extended Height	in(mm)	176.4 (4480)	176.4 (4480)	176.4 (4480)	176.4 (4480)	176.4 (4480)	
			Overhead Guard Height	in(mm)	87.0 (2210)	87.0 (2210)	87.0 (2210)	87.0 (2210)	87.0 (2210)	
	20	Seat Height		in(mm)	43.9 (1115)	43.9 (1115)	43.9 (1115)	43.9 (1115)	43.9 (1115)	
	21	Turning Radius	Minimum outside	in(mm)	74.2 (1885)	75.4 (1915)	78.1 (1985)	80.9 (2055)	82.5 (2095)	
	22	Load Moment Center		in(mm)	15.7 (400)	15.7 (400)	15.7 (400)	16.0 (406)	16.0 (406)	
	23	Aisle 90 degree stacking(add load length & clearance)		in(mm)	89.9(2285)	91.1 (2315)	93.8 (2385)	96.9 (2461)	98.5 (2501)	
PERFORMANCE	24	Travel Speed	Loaded/Unloaded	36V	mph(km/h)	9.0/10.6 (14.5/17.0)	9.0/10.6 (14.5/17.0)	9.0/10.6 (14.5/17.0)	9.0/10.6 (14.5/17.0)	9.0/10.6 (14.5/17.0)
			Loaded/Unloaded	48V	mph(km/h)	11.2/11.2 (18.0/18.0)	11.2/11.2 (18.0/18.0)	11.2/11.2 (18.0/18.0)	11.2/11.2 (18.0/18.0)	11.2/11.2 (18.0/18.0)
	25	Lifting Speed	Loaded/Unloaded	36V	fpm(mm/s)	67/104(340/530)	57/104(290/530)	57/104(290/530)	53/102(270/520)	53/102(270/520)
			Loaded/Unloaded	48V	fpm(mm/s)	90.5/126(460/640)	79/126(400/640)	79/126(400/640)	69/124(350/630)	69/124(350/630)
	26	Lowering Speed	Loaded/ Unloaded		fpm(mm/s)	98.4/91(500/460)	98.4/91(500/460)	98.4/91(500/460)	98.4/91(500/460)	98.4/91(500/460)
	28	Max. drawbar pull	loaded/unloaded(5 min. rating)		lb(kg)	3208/2121 (1455/962)	3329/2169 (1510/984)	3329/2169 (1510/984)	3307/2335 (1500/1059)	3307/2335 (1500/1059)
30	Max. gradeability	loaded/unloaded(5 min. rating)		%	25.0/20.5	22.0/18.5	22.0/18.5	19.0/20.0	18.0/19.0	
WEIGHT	32	Total Service Weight	with minimum weight of battery	lb(kg)	8710 (3950)	9580 (4345)	9305 (4220)	10460 (4745)	11010 (4995)	
	33	Axle Load , Loaded	Front / Rear	lb(kg)	11275/1840 (5115/835)	13160/1930 (5970/875)	13085/1730 (5935/785)	14945/2125 (6780/965)	15255/2370 (6920/1075)	
					3770/4940 (1710/2240)	3770/5810 (1710/2635)	3980/5325 (1805/2415)	3990/6470 (1810/2935)	3825/7185 (1735/3260)	
	34	Axle Load , Unloaded	Front / Rear	lb(kg)	3770/4940 (1710/2240)	3770/5810 (1710/2635)	3980/5325 (1805/2415)	3990/6470 (1810/2935)	3825/7185 (1735/3260)	
CHASSIS	35		Number of wheels (F/R)		2/2	2/2	2/2	2/2	2/2	
	36	Tires	Size , Front		21x7-15	21x7-15	21x7-15	21x8-15	21x8-15	
			Size , Rear		16x6-10.5	16x6-10.5	16x6-10.5	16x6-10.5	16x6-10.5	
	38	Wheel Base	Distance	in(mm)	50.4 (1280)	50.4 (1280)	54.3 (1380)	54.3 (1380)	54.3 (1380)	
	39	Tread Width	Front	in(mm)	36.7 (932)	36.7 (932)	36.7 (932)	35.7 (907)	35.7 (907)	
			Rear	in(mm)	35.5(902)	35.5(902)	35.5(902)	35.5(902)	35.5(902)	
	40	Ground Clearance	at the lowest point	in(mm)	3.1 (80)	3.1 (80)	3.1 (80)	3.1 (80)	3.1 (80)	
			at center of wheelbase	in(mm)	4.1 (103)	4.1 (103)	4.1 (103)	4.1 (103)	4.1 (103)	
42	Brakes	Service			foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	foot/hydraulic	
		Parking				hand	hand	hand	hand	
POWER TRAIN	45	Battery	Type			lead-acid	lead-acid	lead-acid	lead-acid	lead-acid
			Max capacity(5 hours)	36V	AH	1200	1300	1400	1400	1400
				48V	AH	900	1000	1000	1000	1000
			Battery compartment sizes(W x L x H)	in(mm)	40 x 30.5 x 23.2(1017 x 776 x 590)			40 x 34.5 x 23.2(1017 x 876 x 590)		
	47	Electric Motors	Drive motor(1 HR Rating)	36V	hp(kW)	15.4(11.5)	15.4(11.5)	15.4(11.5)	15.4(11.5)	15.4(11.5)
	48V			hp(kW)	21.5(16.0)	21.5(16.0)	21.5(16.0)	21.5(16.0)	21.5(16.0)	
	48		Hyd. motor(15% Duty)	36V	hp(kW)	19.0(14.0)	19.0(14.0)	19.0(14.0)	19.0(14.0)	19.0(14.0)
				48V	hp(kW)	28.2(21.0)	28.2(21.0)	28.2(21.0)	28.2(21.0)	28.2(21.0)
	54	Control Type	with electric drive			MOSFET	MOSFET	MOSFET	MOSFET	MOSFET
	57	Relief Pressure	system	psi(bar)	2407 (166)	2799 (193)	2799 (193)	3002 (211)	3002 (211)	
Attachment			psi(bar)	2248 (155)	2248 (155)	2248 (155)	2248 (155)	2248 (155)		
	Noise Level	Leq			70	70	70	70	70	