

# 3,000/3,500 lb Capacities

## 4 Wheel Electric Forklift Trucks

### MAIN VEHICLE SPECIFICATIONS

	CHARACTERISTICS		DIMENSIONS		PERFORMANCE		WEIGHT		CHASSIS		POWER TRAIN	
	Item No.	Description	Unit	Value	Value	Value	Value	Value	Value	Value	Value	Value
1	Manufacture			DOOSAN		DOOSAN						
2	Model			B15S-5		B18S-5						
3	Load Capacity	at rated load center	lb(kg)	3,000(1,500)		3,500(1,750)						
4	Load Center		in(mm)	24(500)		24(500)						
5	Power type			AC electric		AC electric						
6	Operator type			driver seated		driver seated						
7	Tire type	P:Pnu, E:Solid Soft, C: Cush		P,E		P,E						
8	Wheels (x=Driven)			x2 / 2		x2 / 2						
9	Max. Fork Height	with STD 2-stage mast	in(mm)	118.1(3,000)		118.1(3,000)						
10	Free Lift		in(mm)	5.1(130)		5.1(130)						
12	Fork Carriage	ISO Class		II		II						
13	Forks	Length x Width x Thickness	in(mm)	35.4x3.9x1.4(900x100x35)		35.4x3.9x1.4(900x100x35)						
		Fork Spacing(Min x Max)	in(mm)	240x905		240x905						
14	Tilt of Mast	Forward/Backward	deg	6 / 10		6 / 10						
15	Overall Dimensions	Length to Fork Face	in(mm)	77.6(1,970)		79.5(2,020)						
		Overall Width	in(mm)	42.9(1,090)		42.9(1,090)						
		Mast Lowered Height	in(mm)	79.3(2,015)		79.3(2,015)						
		Mast Extended Height	in(mm)	159.4(4,050)		159.4(4,050)						
		Overhead Guard Height	in(mm)	83.5(2,120)		83.5(2,120)						
19		Seat Height	in(mm)	41.7(1,060)		41.7(1,060)						
21	Turning Radius	Minimum outside	in(mm)	71.9(1,825)		73.0(1,855)						
22	Load Moment Center		in(mm)	15.5(394)		15.5(394)						
23	Aisle 90 degree stacking(add load length & clearance)		in(mm)	87.4(2,219)		88.5(2,249)						
24	Travel Speed	Loaded/Unloaded	48V	mph(km/h)	10.6(17.0) / 10.6(17.0)	10.6(17.0) / 10.6(17.0)						
25	Lifting Speed	Loaded/Unloaded	48V	fpm(mm/s)	78.7(400) / 118.1(600)	78.7(400) / 118.1(600)						
26	Lowering Speed	Loaded/Unloaded		fpm(mm/s)	98.4(500) / 88.6(450)	98.4(500) / 88.6(450)						
28	Max. drawbar pull	Loaded (5 min. rating)		lb(kg)	2,358.9(1,070)	2,403.0(1,090)						
30	Max. gradeability	Loaded (5 min. rating)		(%)	24	22						
32	Total Service Weight	with minimum weight of battery		lb(kg)	6,805.7(3,087)	7,376.7(3,346)						
33	Axle Load at Loaded	Front/Rear		lb(kg)	8,803.0(3,993) / 1,309.5(594)	9,702.5(4,401) / 1,532.2(695)						
34	Axle Load at Unloaded	Front/Rear		lb(kg)	3,130.6(1,420) / 3,675.1(1,667)	3,084.3(1,399) / 4,292.4(1,947)						
35		Number of wheels(F/R)			2 / 2	2 / 2						
36	Tires	Size, Front		in(mm)	6.50-10	6.50-10						
		Size, Rear		in(mm)	5.00-8	5.00-8						
38	Wheel Base	Distance		in(mm)	49.2(1,250)	49.2(1,250)						
39	Tread Width	Front		in(mm)	35.0(890)	35.0(890)						
		Rear		in(mm)	35.0(890)	35.0(890)						
40	Ground Clearance	at the lowest point		in(mm)	3.7(95)	3.7(95)						
41		at center of wheelbase		in(mm)	3.7(95)	3.7(95)						
42	Brakes	Service			Foot / Hyd	Foot / Hyd						
43		Parking			Hand / Mech	Hand / Mech						
45	Battery	Type			lead-acid	lead-acid						
		Max. Capacity (5 Hours)		AH	450	500						
		Battery compartment sizes(WxLxH)		in(mm)	39.8x28.6x18.5(1,010x727x470)	39.8x28.6x18.5(1,010x727x470)						
		Weight(Minimum)		lb(kg)	1,763.7(800)	1,962.1(890)						
47	Electric Motors	Drive motor(1 HR Rating)	48V	HP(kW)	13.4(10)	13.4(10)						
48		Hyd. Motor(15% Duty)	48V	HP(kW)	16.1(12)	16.1(12)						
54	Control Type	with electric drive			MOSFET Inverter	MOSFET Inverter						
57	Relief Pressure	System		psi(bar)	2885.5(199)	2885.5(199)						
		Attachment		psi(bar)	2,030.0(140)	2,030.0(140)						
	Noise Level	Leq@operator's ear-empty travel		dB(A)	68	68						

Note: Specification values quoted in this specification sheet has been rounded. Performance may vary due to operation conditions.  
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# 3,000/3,500/4,000 lb Capacities

## 4 Wheel Electric Forklift Trucks

### MAIN VEHICLE SPECIFICATIONS

CHARACTERISTICS	1				DOOSAN	DOOSAN	DOOSAN	
	2				BC15S-5	BC18S-5	BC20SC-5	
CHARACTERISTICS	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	
	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)	
DIMENSIONS	12	Fork Carriage	ISO Class		II	II	II	
	13	Forks	Length x Width x Thickness	in(mm)	41X4X1.4 (1,050X100X35)	41X4X1.4 (1,050X100X35)	41X4X1.5 (1,050X100X40)	
			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)	
	20	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)	
			at center of wheelbase	in(mm)	3.1 (80)	3.1 (80)	3.1 (80)	
	42	Brakes	Service		Foot / Hyd	Foot / Hyd	Foot / Hyd	
Parking				Hand / Mech	Hand / Mech	Hand / Mech		
POWER TRAIN	45	Battery	Type		lead-acid	lead-acid	lead-acid	
			Max. Capacity (5 Hours)	36V	AH	880	880	880
				48V	AH	585	585	585
			Battery compartment sizes(WxLxH)	in(mm)	35.8X27.4X24.1(909X695X613)	35.8X27.4X24.1(909X695X613)	35.8X27.4X24.1(909X695X613)	
	Weight(Minimum)	36V	lb(kg)	1,850 (839)	1,850 (839)	1,850 (839)		
		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)	
	48	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		

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