



TECHNICAL SPECIFICATIONS

3 Wheel Electric Forklift Trucks

B13R / 15R / 16R-5 (24V Rear Wheel Drive)

2,500lb to 3,200lb Capacity

PRO5
SERIES



2,500/3,000/3,200 lb Capacities

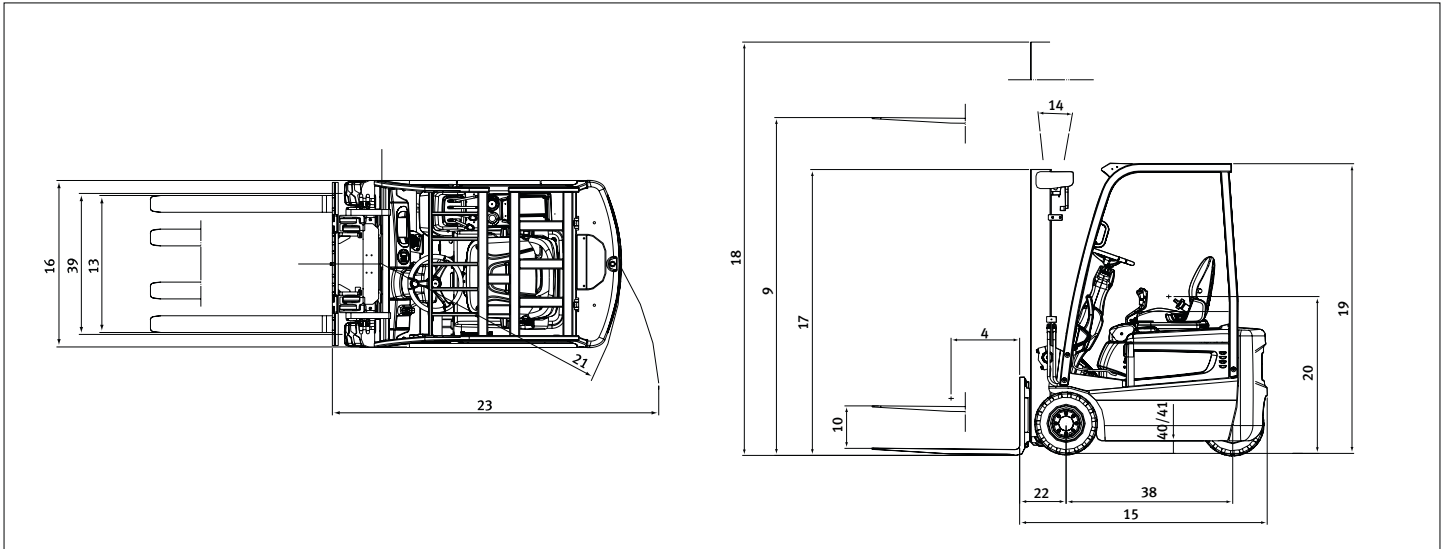
3 Wheel Electric Forklift Trucks

MAIN VEHICLE SPECIFICATIONS

	CHARACTERISTICS			B13R-5	B15R-5	B16R-5		
	2	Model			B13R-5	B15R-5	B16R-5	
3	Load Capacity	at rated load center	lb(kg)	2500(1250)	3000(1500)	3200(1600)		
4	Load Center		in(mm)	24(500)	24(500)	24(500)		
5	Power type			electric	electric	electric		
6	Operator type			Driver seated	Driver seated	Driver seated		
7	Tire type	P:Pneumatic, E:Solid Soft, C: Cushion		P,E	P,E	E		
8	Wheels (x=Driven)			2 / 1x	2 / 1x	2 / 1x		
9	Max. Fork Height	with STD 2-stage mast	in(mm)	118(3000)	118(3000)	118(3000)		
10	Free Lift		in(mm)	5(130)	5(130)	5(130)		
12	Fork Carriage	ISO Class		II	II	II		
DIMENSIONS	13	Forks	Thickness x Width x Length	in(mm)	1.4 x 3.9 x 35.4 (35 x 100 x 900)	1.4 x 3.9 x 35.4 (35 x 100 x 900)	1.4 x 3.9 x 35.4 (35 x 100 x 900)	
		Fork Spacing(Min x Max)	in(mm)	7.9 x 35.6 (200 x 905)	7.9 x 35.6 (200 x 905)	7.9 x 35.6 (200 x 905)		
	14	Tilt of Mast	Forward/Backward	deg	3 / 6	3 / 6	3 / 6	
	15	Overall Dimensions	Length to Fork Face	in(mm)	68.3(1735)	69.3(1760)	70.3(1785)	
	16		Overall Width	in(mm)	39.2(996)	39.2(996)	39.2(996)	
	17		Mast Lowered Height	in(mm)	79.7(2025)	79.7(2025)	79.7(2025)	
	18		Mast Extended Height	in(mm)	158.5(4025)	158.5(4025)	158.5(4025)	
	19		Overhead Guard Height	in(mm)	81.4(2067)	81.4(2067)	81.4(2067)	
	20	Seat Height	in(mm)	39.8(1010)	39.8(1010)	39.8(1010)		
	21	Turning Radius	Minimum outside	in(mm)	55.3(1405)	56.3(1430)	57.3(1455)	
22	Load Moment Center		in(mm)	13.0(330)	13.0(330)	13.0(330)		
23	Aisle 90 degree stacking (add load length & clearance)		in(mm)	68.3 (1735)	69.3 (1760)	70.3 (1785)		
PERFORMANCE	24	Speed	Travel, Loaded/Unloaded	mph (km/h)	7.5 / 8.1 (12.0 / 13.0)	7.5 / 7.8 (12.0 / 12.5)	7.5 / 7.8 (12.0 / 12.5)	
			Lifting, Loaded/Unloaded	fpm (mm/s)	61.0 / 102.4 (310 / 520)	59.1 / 102.4 (300 / 520)	59.1 / 102.4 (300 / 520)	
			Lowering, 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	lb(kg)	787.2(357)	848.9(385)	780.6(354)	
30	Max. Gradeability	At 1.6 km/h, Loaded	%	19	16	15		
WEIGHT	32	Total Weight	with minimum weight of battery	lb(kg)	6123.3(2777)	6507.0(2951)	6694.4(3036)	
	33	Axle Load at Loaded	Front / Rear	lb(kg)	7686.6 / 1192.9 (3486 / 541)	8727.4 / 1087.1 (3958 / 493)	9060.3 / 1162.0 (4109 / 527)	
	34	Axle Load at Unloaded	Front / Rear	lb(kg)	2912.8 / 3208.3 (1321 / 1455)	3104.6 / 3402.3 (1408 / 1543)	3060.5 / 3633.8 (1388 / 1648)	
CHASSIS	35	Tires	Number of wheels(Front/ Rear)		2 / 1	2 / 1	2 / 1	
			Size, Front		18 x 7-8	18 x 7-8	18 x 7-8	
			Size, Rear		18 x 7-8	18 x 7-8	18 x 7-8	
	38	Wheel Base	Distance (forward / vertical / back)	in(mm)	43.7 / 44.7 / 46.7 (1111 / 1135 / 1185)	45.7 / 46.7 / 48.6 (1161 / 1185 / 1235)	45.7 / 46.7 / 48.6 (1161 / 1185 / 1235)	
	39	Tread Width	Front	in(mm)	33.1(840)	33.1(840)	33.1(840)	
			Rear	in(mm)	0.0(0)	0.0(0)	0.0(0)	
	40	Ground Clearance	Loaded	at lowest	in(mm)	3.3(85)	3.3(85)	3.3(85)
				at center of wheelbase	in(mm)	3.5(90)	3.5(90)	3.5(90)
	42	Brakes	Service		Shoe / ODB	Shoe / ODB	Shoe / ODB	
			Parking		HAND / MECH	HAND / MECH	HAND / MECH	
POWER TRAIN	45	Battery	Type		LEAD-ACID	LEAD-ACID	LEAD-ACID	
			Voltage/Capacity(Max)	V/AH	24 / 875	24 / 1000	24 / 1000	
			Battery Compartment Size (W x L x H)	in (mm)	33.3 x 17.9 x 25.6 (846 x 455 x 650)	33.3 x 19.9 x 25.6 (846 x 505 x 650)	33.3 x 19.9 x 25.6 (846 x 505 x 650)	
			Minimum Weight	lb(kg)	1322.8(600)	1488.1(675)	1488.1(675)	
	47	Electric Motors	Drive motor - 1 Hour Rating	HP(kW)	6.7(5)	6.7(5)	6.7(5)	
			Hyd. Motor - 20% Duty	HP(kW)	9.4(7)	9.4(7)	9.4(7)	
54	Control Type	Drive and hydraulic	type	Inverter AC	Inverter AC	Inverter AC		
55	Transfer	Brake Type	type	ODB	ODB	ODB		
57	Relief Pressure	System	psi(bar)	2305.5(159)	2537.5(175)	2537.5(175)		
		Attachment	psi(bar)	2040(140)	2040(140)	2040(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

B13R-5

Mast Type	Maximum Fork Height		Fully Lowered Height		Fully Extended Height				Free Lift				Solid Soft Tire			Pneumatic Tire			
					With Load Backrest		W/O Load Backrest		With Load Backrest		W/O Load Backrest		Tilt Angle	Loaded Capacities		Tilt Angle	Loaded Capacities		
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	deg	FWD/BWD	LC 500mm	LC 24in	deg	FWD/BWD	LC 500mm
STD	3000	118	2025	80	4045	159	3600	142	130	5	130	5	3/6	1250	2500	3/6	1250	2500	
STD	3300	130	2175	86	4345	171	3900	154	130	5	130	5	3/6	1250	2500	3/6	1250	2500	
STD	3500	138	2275	90	4545	179	4100	161	130	5	130	5	3/6	1250	2500	3/6	1250	2500	
STD	3700	146	2375	94	4745	187	4300	169	130	5	130	5	3/6	1250	2500	3/6	1250	2500	
STD	4000	158	2575	101	5045	199	4600	181	130	5	130	5	3/6	1250	2500	3/6	1250	2500	
STD	4500	177	2825	111	5545	218	5100	201	130	5	130	5	3/6	1225	2450	3/6	1225	2450	
FF	2700	106	1875	74	3745	147	3325	131	870	34	1290	51	3/5	1250	2500	3/5	1250	2500	
FF	3000	118	2025	80	4045	159	3625	143	1020	40	1440	57	3/5	1250	2500	3/5	1250	2500	
FF	3300	130	2175	86	4345	171	3925	155	1170	46	1590	63	3/5	1250	2500	3/5	1250	2500	
FFT	4000	158	1905	75	5050	199	4630	182	900	35	1320	52	3/5	1250	2500	3/5	1250	2500	
FFT	4500	177	2070	82	5545	218	5125	202	1065	42	1485	59	3/5	1200	2400	3/5	1200	2400	
FFT	4750	187	2155	85	5795	228	5375	212	1150	45	1570	62	3/5	1175	2350	3/5	1175	2350	
FFT	5000	197	2270	89	6045	238	5625	222	1265	50	1685	66	3/5	1050	2100	3/5	1050	2100	
FFT	5500	217	2505	99	6550	258	6130	241	1500	59	1920	76	3/5	850	1700	3/5	850	1700	
FFT	6000	236	2670	105	7045	277	6625	261	1665	66	2085	82	3/5	550	1100	3/5	550	1100	

B15R-5

Mast Type	Maximum Fork Height		Fully Lowered Height		Fully Extended Height				Free Lift				Solid Soft Tire			Pneumatic Tire			
					With Load Backrest		W/O Load Backrest		With Load Backrest		W/O Load Backrest		Tilt Angle	Loaded Capacities		Tilt Angle	Loaded Capacities		
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	deg	FWD/BWD	LC 500mm	LC 24in	deg	FWD/BWD	LC 500mm
STD	3000	118	2025	80	4045	159	3600	142	130	5	130	5	3/8	1500	3000	3/8	1500	3000	
STD	3300	130	2175	86	4345	171	3900	154	130	5	130	5	3/6	1500	3000	3/6	1500	3000	
STD	3500	138	2275	90	4545	179	4100	161	130	5	130	5	3/6	1500	3000	3/6	1500	3000	
STD	3700	146	2375	94	4745	187	4300	169	130	5	130	5	3/6	1500	3000	3/6	1500	3000	
STD	4000	158	2575	101	5045	199	4600	181	130	5	130	5	3/6	1475	2950	3/6	1475	2950	
STD	4500	177	2825	111	5545	218	5100	201	130	5	130	5	3/6	1400	2800	3/6	1400	2800	
FF	2700	106	1875	74	3745	147	3325	131	870	34	1290	51	3/5	1500	3000	3/5	1500	3000	
FF	3000	118	2025	80	4045	159	3625	143	1020	40	1440	57	3/5	1500	3000	3/5	1500	3000	
FF	3300	130	2175	86	4345	171	3925	155	1170	46	1590	63	3/5	1500	3000	3/5	1500	3000	
FFT	4000	158	1905	75	5050	199	4630	182	900	35	1320	52	3/5	1450	2900	3/5	1450	2900	
FFT	4500	177	2070	82	5545	218	5125	202	1065	42	1485	59	3/5	1375	2750	3/5	1375	2750	
FFT	4750	187	2155	85	5795	228	5375	212	1150	45	1570	62	3/5	1350	2700	3/5	1350	2700	
FFT	5000	197	2270	89	6045	238	5625	222	1265	50	1685	66	3/5	1200	2400	3/5	1200	2400	
FFT	5500	217	2505	99	6550	258	6130	241	1500	59	1920	76	3/5	900	1800	3/5	900	1800	
FFT	6000	236	2670	105	7045	277	6625	261	1665	66	2085	82	3/5	600	1200	3/5	600	1200	

B16R-5

Mast Type	Maximum Fork Height		Fully Lowered Height		Fully Extended Height				Free Lift				Solid Soft Tire		
					With Load Backrest		W/O Load Backrest		With Load Backrest		W/O Load Backrest		Tilt Angle	Loaded Capacities	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	FWD/BWD	LC 500mm	LC 24in
													deg	kg	lb
STD	3000	118	2025	80	4045	159	3600	142	130	5	130	5	3/6	1600	3200
STD	3300	130	2175	86	4345	171	3900	154	130	5	130	5	3/6	1600	3200
STD	3500	138	2275	90	4545	179	4100	161	130	5	130	5	3/6	1600	3200
STD	3700	146	2375	94	4745	187	4300	169	130	5	130	5	3/6	1600	3200
STD	4000	158	2575	101	5045	199	4600	181	130	5	130	5	3/6	1575	3150
STD	4500	177	2825	111	5545	218	5100	201	130	5	130	5	3/6	1500	3000
FF	2700	106	1875	74	3745	147	3325	131	870	34	1290	51	3/5	1600	3200
FF	3000	118	2025	80	4045	159	3625	143	1020	40	1440	57	3/5	1600	3200
FF	3300	130	2175	86	4345	171	3925	155	1170	46	1590	63	3/5	1600	3200
FFT	4000	158	1905	75	5050	199	4630	182	900	35	1320	52	3/5	1550	3100
FFT	4500	177	2070	82	5545	218	5125	202	1065	42	1485	59	3/5	1500	3000
FFT	4750	187	2155	85	5795	228	5375	212	1150	45	1570	62	3/5	1450	2900
FFT	5000	197	2270	89	6045	238	5625	222	1265	50	1685	66	3/5	1300	2600
FFT	5500	217	2505	99	6550	258	6130	241	1500	59	1920	76	3/5	875	1750
FFT	6000	236	2670	105	7045	277	6625	261	1665	66	2085	82	3/5	575	1150

PSC0704A3USver3



Doosan Industrial Vehicle America Corp.
 2475 Mill Center Parkway Suite 400
 Buford, GA 30518
 Tel: 678-745-2200 Fax: 678-745-2250
 www.doosanlift.com

AUTHORIZED DEALER

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