

TECHNICAL SPECIFICATIONS

4 Wheel Electric Forklift Trucks

B40X / B45X / B50X-5

8,000lb to 10,000lb Capacity

PRO5
SERIES



8,000/9,000/10,000 lb Capacities

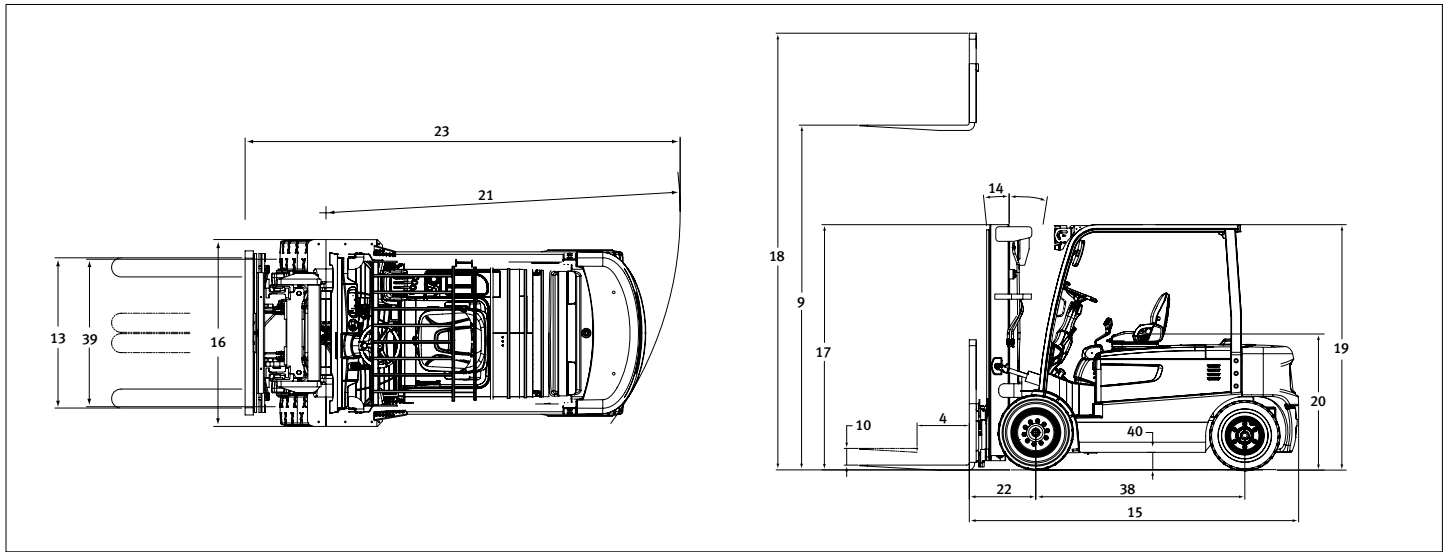
4 Wheel Electric Forklift Trucks

MAIN VEHICLE SPECIFICATIONS

| | | | | | | | |
|-----------------|-----------------|---|----------------------------------|-------------|---------------------------------------|---------------------------------------|---------------------------------------|
| CHARACTERISTICS | 1 | Manufacture | | | DOOSAN | DOOSAN | DOOSAN |
| | 2 | Model | | | B40X-5 | B45X-5 | B50X-5 |
| | 3 | Load Capacity | at rated load center | lb(kg) | 8000(4000) | 9000(4500) | 10000(5000) |
| | 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:Pneu, E:Solid Soft, C: Cush | | E | E | E |
| | 8 | Wheels (x=Driven) | | | 2x / 2 | 2x / 2 | 2x / 2 |
| DIMENSIONS | 9 | Max. Fork Height | with STD 2-stage mast | in(mm) | 130(3300) | 130(3300) | 130(3300) |
| | 10 | Free Lift | | in(mm) | 5.9(150) | 6.3(160) | 6.3(160) |
| | 12 | Fork Carriage | ISO Class | | III | III | III |
| | 13 | Forks | Length x Width x Thickness | in(mm) | 2.0 x 5.9 x 41.3 (50 x 150 x 1050) | 2.0 x 5.9 x 41.3 (50 x 150 x 1050) | 2.0 x 5.9 x 41.3 (50 x 150 x 1050) |
| | | | Fork Spacing(Min x Max) | in(mm) | 12.2 x 46.5 (310 x 1182) | 12.2 x 46.5 (310 x 1182) | 13.4 x 50.8 (340 x 1290) |
| | 14 | Tilt of Mast | Forward / Backward | deg | 6 / 9 | 6 / 9 | 6 / 9 |
| | 15 | Overall Dimensions | Length to Fork Face | in(mm) | 120.6(3062) | 120.6(3062) | 121.7(3092) |
| | 16 | | Overall Width | in(mm) | 57.9(1470) | 57.9(1470) | 57.9(1470) |
| | 17 | | Mast Lowered Height | in(mm) | 91.7(2330) | 92.1(2340) | 92.1(2340) |
| | 18 | | Mast Extended Height | in(mm) | 164.2(4170) | 164.6(4180) | 165.6(4205) |
| | 19 | | Overhead Guard Height | in(mm) | 91.7(2330) | 91.9(2335) | 91.9(2335) |
| | 20 | | Seat Height | in(mm) | 50.5(1282) | 50.7(1288) | 50.7(1288) |
| | 21 | Turning Radius | Minimum outside | in(mm) | 108.7(2760) | 108.7(2760) | 109.6(2785) |
| | 22 | Load Moment Center | | in(mm) | 22.7(577) | 22.7(577) | 22.7(577) |
| | 23 | Aisle 90 degree stacking(add load length & clearance) | | in(mm) | 131.4(3338) | 131.4(3338) | 132.3(3360) |
| PERFORMANCE | 24 | Travel Speed | Loaded / Unloaded | mph(km/h) | 9.3 / 9.9 (15 / 16) | 9.3 / 9.9 (15 / 16) | 9.3 / 9.9 (15 / 16) |
| | 25 | Lifting Speed | Loaded / Unloaded | fpm(mm/s) | 68.9 / 92.5 (350 / 470) | 65.0 / 88.6 (330 / 450) | 61.0 / 88.6 (310 / 450) |
| | 26 | Lowering Speed | Loaded / Unloaded | fpm(mm/s) | 94.5 / 88.6 (480 / 450) | 94.5 / 88.6 (480 / 450) | 94.5 / 88.6 (480 / 450) |
| | 28 | Max. drawbar pull | Loaded / Unloaded(5 min. rating) | lbf(kgf) | 4608.5 / 4789.3 (2090 / 2172) | 4383.5 / 4608.5 (1988 / 2090) | 4136.6 / 4136.6 (1876 / 1876) |
| | 30 | Max. gradeability | Loaded / Unloaded(5 min. rating) | % | 19 / 31 | 17 / 29 | 15 / 25 |
| WEIGHT | 32 | Total Service Weight | with minimum weight of battery | lb(kg) | 15410.3(6990) | 16248.0(7370) | 17107.9(7760) |
| | 33 | Axle Load at Loaded | Front / Rear | lb(kg) | 21508.3 / 2720.5 (9756 / 1234) | 22379.1 / 3789.7 (10151 / 1719) | 24469.1 / 3639.8 (11099 / 1651) |
| | 34 | Axle Load at Unloaded | Front / Rear | lb(kg) | 7941.0 / 7469.3 (3602 / 3388) | 7116.5 / 9131.5 (3228 / 4142) | 7544.2 / 9563.6 (3422 / 4338) |
| CHASSIS | 35 | Tires | Number of wheels(F/ R) | | 2/2 | 2/2 | 2/2 |
| | 36 | | Size, Front | | 250-15 | 28x12.5-15 | 28x12.5-15 |
| | 37 | | Size, Rear | | 7.00-12 | 7.00-12 | 7.00-12 |
| | 38 | Wheel Base | Distance | in(mm) | 78.7(2000) | 78.7(2000) | 78.7(2000) |
| | 39 | Tread Width | Front | in(mm) | 46.0(1168) | 45.7(1160) | 45.7(1160) |
| | | | Rear | in(mm) | 43.7(1111) | 43.7(1111) | 43.7(1111) |
| | 40 | Ground Clearance | at the lowest point | in(mm) | 5.1(130) | 5.1(130) | 5.1(130) |
| | | | at center of wheelbase | in(mm) | 6.3(160) | 6.3(160) | 6.3(160) |
| | 42 | Brakes | Service | | FOOT/ HYD | FOOT/ HYD | FOOT/ HYD |
| | | | Parking | | HAND / MECH | HAND / MECH | HAND / MECH |
| POWER TRAIN | 45 | Battery | Type | | DIN43536A | DIN43536A | DIN43536A |
| | | | Capacity (5 Hours Rating) | V/AH | 80 / 720 | 80 / 720 | 80 / 720 |
| | | | Battery compartment sizes(WxLxH) | in | 40.5x39.0x30.9 (1028x990x784) | 40.5x39.0x30.9 (1028x990x784) | 40.5x39.0x30.9 (1028x990x784) |
| | 47 | Electric Motors | Drive motor(1 HR Rating) | HP(kW) | 14.7X2.7 (11X2) | 14.7X2.7 (11X2) | 14.7X2.7 (11X2) |
| | | | Hyd. Motor(15% Duty) | HP(kW) | 34.9(26) | 34.9(26) | 34.9(26) |
| 54 | Control Type | Drive and hydraulic | type | Inverter AC | Inverter AC | Inverter AC | |
| 57 | Relief Pressure | System | psi(bar) | 2755.0(190) | 3045.0(210) | 3335.0(230) | |
| | | Attachment | psi(bar) | 2247.5(155) | 2247.5(155) | 2247.5(155) | |

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

B40X-5

| Mast Type | Maximum Fork Height | | Fully Lowered Height | | Fully Extended Height | | | | Free Lift | | | | Soild Soft Tire | | |
|-----------|---------------------|-----|----------------------|-----|-----------------------|-----|-------------------|-----|--------------------|----|-------------------|----|-----------------|-----------------|----------|
| | | | | | With Load Backrest | | W/O Load Backrest | | With Load Backrest | | W/O Load Backrest | | Tilt Angle | Load Capacities | |
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | deg | LC500mm | LC 24 in |
| STD | 3000 | 118 | 2180 | 86 | 4255 | 168 | 3870 | 152 | 150 | 6 | 150 | 6 | 6/9 | 4000 | 8000 |
| STD | 3300 | 130 | 2330 | 92 | 4555 | 179 | 4170 | 164 | 150 | 6 | 150 | 6 | 6/9 | 4000 | 8000 |
| STD | 3650 | 144 | 2505 | 99 | 4905 | 193 | 4520 | 178 | 150 | 6 | 150 | 6 | 6/9 | 4000 | 8000 |
| STD | 4000 | 158 | 2830 | 111 | 5255 | 207 | 4870 | 192 | 150 | 6 | 150 | 6 | 6/9 | 4000 | 8000 |
| STD | 4250 | 167 | 2955 | 116 | 5505 | 217 | 5120 | 202 | 150 | 6 | 150 | 6 | 6/9 | 4000 | 8000 |
| STD | 4850 | 191 | 3405 | 134 | 6105 | 240 | 5720 | 225 | 150 | 6 | 150 | 6 | 6/5 | 4000 | 8000 |
| FF | 3000 | 118 | 2160 | 85 | 4240 | 167 | 3765 | 148 | 960 | 38 | 1435 | 57 | 6/9 | 4000 | 8000 |
| FFT | 4000 | 158 | 2040 | 80 | 5255 | 207 | 4765 | 188 | 840 | 33 | 1335 | 53 | 6/9 | 4000 | 8000 |
| FFT | 4250 | 167 | 2130 | 84 | 5520 | 217 | 5030 | 198 | 930 | 37 | 1425 | 56 | 6/9 | 4000 | 8000 |
| FFT | 4700 | 185 | 2280 | 90 | 5970 | 235 | 5480 | 216 | 1080 | 43 | 1575 | 62 | 6/9 | 4000 | 8000 |
| FFT | 5150 | 203 | 2430 | 96 | 6420 | 253 | 5930 | 234 | 1230 | 48 | 1725 | 68 | 6/5 | 4000 | 8000 |
| FFT | 5600 | 221 | 2580 | 102 | 6870 | 271 | 6380 | 251 | 1380 | 54 | 1875 | 74 | 6/3 | 3875 | 7800 |
| FFT | 6050 | 238 | 2730 | 108 | 7320 | 288 | 6830 | 269 | 1530 | 60 | 2025 | 80 | 6/3 | 3750 | 7600 |

B45X-5

| Mast Type | Maximum Fork Height | | Fully Lowered Height | | Fully Extended Height | | | | Free Lift | | | | Soild Soft Tire | | |
|-----------|---------------------|-----|----------------------|-----|-----------------------|-----|-------------------|-----|--------------------|----|-------------------|----|-----------------|-----------------|----------|
| | | | | | With Load Backrest | | W/O Load Backrest | | With Load Backrest | | W/O Load Backrest | | Tilt Angle | Load Capacities | |
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | deg | LC500mm | LC 24 in |
| STD | 3000 | 118 | 2190 | 86 | 4265 | 168 | 3880 | 153 | 160 | 6 | 160 | 6 | 6/9 | 4500 | 9000 |
| STD | 3300 | 130 | 2340 | 92 | 4565 | 180 | 4180 | 165 | 160 | 6 | 160 | 6 | 6/9 | 4500 | 9000 |
| STD | 3650 | 144 | 2515 | 99 | 4915 | 194 | 4530 | 178 | 160 | 6 | 160 | 6 | 6/9 | 4500 | 9000 |
| STD | 4000 | 158 | 2840 | 112 | 5265 | 207 | 4880 | 192 | 160 | 6 | 160 | 6 | 6/9 | 4500 | 9000 |
| STD | 4250 | 167 | 2965 | 117 | 5515 | 217 | 5130 | 202 | 160 | 6 | 160 | 6 | 6/9 | 4500 | 9000 |
| STD | 4850 | 191 | 3415 | 134 | 6115 | 241 | 5730 | 226 | 160 | 6 | 160 | 6 | 6/5 | 4500 | 9000 |
| FF | 3000 | 118 | 2170 | 85 | 4250 | 167 | 3775 | 149 | 970 | 38 | 1440 | 57 | 6/9 | 4500 | 9000 |
| FFT | 4000 | 158 | 2050 | 81 | 5265 | 207 | 4770 | 188 | 850 | 34 | 1345 | 53 | 6/9 | 4500 | 9000 |
| FFT | 4250 | 167 | 2140 | 84 | 5530 | 218 | 5035 | 198 | 940 | 37 | 1430 | 56 | 6/9 | 4500 | 9000 |
| FFT | 4700 | 185 | 2290 | 90 | 5980 | 235 | 5485 | 216 | 1090 | 43 | 1580 | 62 | 6/9 | 4500 | 9000 |
| FFT | 5150 | 203 | 2440 | 96 | 6430 | 253 | 5935 | 234 | 1240 | 49 | 1730 | 68 | 6/5 | 4500 | 9000 |
| FFT | 5600 | 221 | 2590 | 102 | 6880 | 271 | 6385 | 251 | 1390 | 55 | 1880 | 74 | 6/3 | 4350 | 8800 |
| FFT | 6050 | 238 | 2740 | 108 | 7330 | 289 | 6835 | 269 | 1540 | 61 | 2030 | 80 | 6/3 | 4225 | 8500 |



B50X-5

| Mast Type | Maximum Fork Height | | Fully Lowered Height | | Fully Extended Height | | | | Free Lift | | | | Soild Soft Tire | | |
|-----------|---------------------|-----|----------------------|-----|-----------------------|-----|-------------------|-----|--------------------|----|-------------------|----|-----------------|-----------------|----------|
| | | | | | With Load Backrest | | W/O Load Backrest | | With Load Backrest | | W/O Load Backrest | | Tilt Angle | Load Capacities | |
| | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | deg | LC500mm | LC 24 in |
| STD | 3000 | 118 | 2190 | 86 | 4415 | 174 | 3905 | 154 | 160 | 6 | 160 | 6 | 6/9 | 5000 | 10000 |
| STD | 3300 | 130 | 2340 | 92 | 4715 | 186 | 4205 | 166 | 160 | 6 | 160 | 6 | 6/9 | 5000 | 10000 |
| STD | 3650 | 144 | 2515 | 99 | 5065 | 199 | 4555 | 179 | 160 | 6 | 160 | 6 | 6/9 | 5000 | 10000 |
| STD | 4000 | 158 | 2840 | 112 | 5415 | 213 | 4905 | 193 | 160 | 6 | 160 | 6 | 6/9 | 5000 | 10000 |
| STD | 4250 | 167 | 2965 | 117 | 5665 | 223 | 5155 | 203 | 160 | 6 | 160 | 6 | 6/9 | 5000 | 10000 |
| STD | 4850 | 191 | 3415 | 134 | 6265 | 247 | 5755 | 227 | 160 | 6 | 160 | 6 | 6/5 | 5000 | 10000 |
| FF | 3000 | 118 | 2170 | 85 | 4395 | 173 | 3860 | 152 | 820 | 32 | 1355 | 53 | 6/9 | 5000 | 10000 |
| FFT | 4000 | 158 | 2050 | 81 | 5410 | 213 | 4870 | 192 | 700 | 28 | 1240 | 49 | 6/9 | 5000 | 10000 |
| FFT | 4250 | 167 | 2140 | 84 | 5675 | 223 | 5135 | 202 | 790 | 31 | 1330 | 52 | 6/9 | 5000 | 10000 |
| FFT | 4700 | 185 | 2290 | 90 | 6125 | 241 | 5585 | 220 | 940 | 37 | 1480 | 58 | 6/9 | 5000 | 10000 |
| FFT | 5150 | 203 | 2440 | 96 | 6575 | 259 | 6035 | 238 | 1090 | 43 | 1630 | 64 | 6/5 | 5000 | 10000 |
| FFT | 5600 | 221 | 2590 | 102 | 7025 | 277 | 6485 | 255 | 1240 | 49 | 1780 | 70 | 6/3 | 4825 | 9700 |
| FFT | 6050 | 238 | 2740 | 108 | 7475 | 294 | 6935 | 273 | 1390 | 55 | 1930 | 76 | 6/3 | 4675 | 9400 |

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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AUTHORIZED DEALER

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