

LIFT TRUCK WEIGHTS*

MODEL	KILOGRAMS	POUNDS
E3.50XL(E70XL ₃)	3264	7190
E4.00XL(E80XL ₃)	3752	8265
E5.00XL(E100XL ₃ S)	4501	9915
E5.00XL(E100XL ₃)	4331	9540
E5.50XL(E120XL ₃)	5162	11370
* Weights do not include battery or mast.		

TIRE SIZES

MODEL	STEERING	DRIVE
E3.50-4.00XL (E70-80XL ₃)	18 x 6 x 12 1/8	22 x 9 x 16 22 x 10 x 16
E4.50-5.50XL (E100-120XL ₃)	18 x 7 x 12 1/8	22 x 10 x 16 22 x 12 x 16

CAPACITIES

ITEM	SPECIFICATION
HYDRAULIC SYSTEM CAPACITY E3.50XL ₃ , E4.00XL ₃ , E4.50XL ₃ S (E70XL ₃ , E80XL ₃ , E100XL ₃ S) E4.50XL ₃ , E5.00XL ₃ (E100XL ₃ , E120XL ₃)	41.3 litre (10.9 gal) 49.2 litre (13.0 gal)
HYDRAULIC TANK CAPACITY (To Full Mark) E3.50XL ₃ , E4.00XL ₃ , E4.50XL ₃ S (E70XL ₃ , E80XL ₃ , E100XL ₃ S) E4.50XL ₃ , E5.00XL ₃ (E100XL ₃ , E120XL ₃)	33.3 litre (8.8 gal) 39.8 litre (10.9 gal)
DIFFERENTIAL/SPEED REDUCER	5.2 litre (5.5 qt)
BRAKE FLUID	0.24 litre (0.5 pt)

HYDRAULIC SYSTEM

ITEM	SPECIFICATION
RELIEF PRESSURES* Main Control Valve Lift Circuit Tilt Circuit Steering Circuit	 20.6 ± 0.7 MPa (3000 ± 100 psi) 15.5 ± 0.7 MPa (2250 ± 100 psi) 10.3 ± 0.35 MPa (1500 ± 50 psi)
* Oil temperature 55 to 66°C (130 to 150°F).	

This section is for the following models:
E3.50-5.50XL (E70-120XL₃)

MAST SPEEDS

MODEL	MOTOR	MAST	V	LIFTING				LOWERING			
				RATED LOAD		NO LOAD		RATED LOAD		NO LOAD	
				m/sec	ft/min	m/sec	ft/min	m/sec	ft/min	m/sec	ft/min
E3.50XL (E70XL ₃)	Single Motor	Two-Stage	36 48	0.20 0.27	39 54	0.34 0.43	68 86	0.52	104	0.48	95
		Free-Lift	36 48	0.17 0.24	34 48	0.30 0.38	59 75	0.45	90	0.37	74
		Three-Stage	36 48	0.19 0.26	37 51	0.32 0.41	64 81	0.49	98	0.39	77
	Dual Motors	Two-Stage	36 48	0.27 0.38	54 76	0.46 0.59	91 118	0.52	104	0.48	95
		Free-Lift	36 48	0.26 0.36	51 71	0.44 0.55	87 109	0.45	90	0.37	74
		Three-Stage	36 48	0.26 0.36	51 72	0.43 0.55	86 106	0.49	98	0.39	77
E4.00XL (E80XL ₃)	Single Motor	Two-Stage	36 48	0.19 0.27	37 53	0.34 0.43	68 86	0.52	104	0.48	95
		Free-Lift	36 48	0.17 0.24	33 47	0.30 0.38	59 75	0.45	90	0.37	74
		Three-Stage	36 48	0.18 0.25	35 50	0.35 0.41	69 81	0.49	98	0.39	77
	Dual Motors	Two-Stage	36 48	0.27 0.27	52 73	0.46 0.59	91 118	0.52	104	0.48	95
		Free-Lift	36 48	0.25 0.34	49 68	0.42 0.55	84 109	0.45	90	0.37	74
		Three-Stage	36 48	0.25 0.35	49 69	0.43 0.53	86 106	0.49	98	0.39	77
E5.00XL (E100XL ₃)	Dual Motors	Two-Stage	36 48	0.20 0.29	40 57	0.35 0.45	69 89	0.45	89	0.37	73
		Free-Lift	36 48	0.20 0.27	39 54	0.32 0.41	64 82	-	-	-	-
		Three-Stage	36 48	0.20 0.27	39 54	0.35 0.40	69 80	0.43	86	0.32	63
E5.50XL (E120XL ₃)	Dual Motors	Two-Stage	36 48	0.19 0.27	38 53	0.35 0.45	69 89	0.45	89	0.37	73
		Free-Lift	36 48	0.18 0.25	36 50	0.32 0.41	64 82	-	-	-	-
		Three-Stage	36 48	0.18 0.25	36 50	0.32 0.40	64 80	0.44	88	0.32	63

Oil temperature 55 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ± 10% acceptable. "No Load" lowering speeds are minimum values. "Rated Load" lowering speeds are maximum values.

MAST CREEP SPEEDS

LIFT/TILT	CREEP SPEEDS*
LIFT, at Carriage (Start measurement with mast at vertical position and the load raised to 2.5 metres (8.2 ft). Use maximum lift height if the maximum is less than 2.5 metres (8.2 ft).)	100 mm (4.0 in) in 10 minutes
TILT, at Carriage Cylinder Stroke	34 mm (1.3 in) in 10 minutes
* Hydraulic Oil Temperature 50°C (122°F). Plus or minus 10% acceptable for lifting and tilting.	

BATTERY SPECIFICATIONS*

MODEL	VOLTS	MINIMUM COMPARTMENT SIZE Length x Width	BATTERY LENGTH Min./Max.	WEIGHT	
				Minimum	Maximum
E3.50-4.00XL (E70-80XL ₃)	36	841 x 987 mm (33.1 x 38.9 in)	950 / 990 mm (37.4 / 39.0 in)	1542 kg (3400 lb)	2400 kg (5292 lb)
E5.00XL (E100XL ₃ S)	36	841 x 987 mm (33.1 x 38.9 in)	950 / 990 mm (37.4 / 39.0 in)	1633 kg (3600 lb)	2400 kg (5292 lb)
E5.00XL (E100XL ₃)	36	694 x 1037 mm (27.3 x 40.8 in)	1115 / 1150 mm (43.9 / 45.3 in)	1814 kg (4000 lb)	2700 kg (5954 lb)
E5.50XL (E120XL ₃)	36	993 x 1146 mm (39.3 x 45.1 in)	1115 / 1150 mm (43.9 / 45.3 in)	1919 kg (4231 lb)	2700 kg (5954 lb)
E3.50-4.00XL (E70-80XL ₃)	48	841 x 987 mm (33.1 x 38.9 in)	950 / 990 mm (37.4 / 39.0 in)	1542 kg (3400 lb)	2400 kg (5292 lb)
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*BATTERY WIDTH Batteries Without Cover: 950 to 1117 mm (37.4 to 44.0 in) Batteries With Cover: 950 to 1143 mm (37.4 to 45.0 in) NOTE: Maximum tolerances are +0 and -13 mm (+0 and -0.5 in) for the size of the battery compartment. The battery specification chart shows the maximum size tolerances that will permit the battery to still fit into a battery compartment.					

TRACTION SPEED AND TRACTION MOTOR CURRENT*

MODEL	VOLTS	NO LOAD		NO LOAD	RATED LOAD		RATED LOAD
		km/h	mph	amperes	km/h	mph	amperes
280 mm (11 in) Traction Motor							
E3.50XL(E70XL ₃)	36	11.4	7.1	190	10.8	6.7	197
	48	15.5	9.6	195	14.5	9.0	200
E4.0XL(E80XL ₃)	36	11.4	7.1	192	10.8	6.7	200
	48	15.5	9.6	195	14.5	9.0	203
330 mm (13 in) Traction Motor, Standard Speed							
E3.50XL(E70XL ₃)	36	9.7	6.0	140	9.2	5.7	163
	48	12.9	8.0	142	12.2	7.6	166
E4.00XL(E80XL ₃)	36	9.7	6.0	141	8.9	5.5	168
	48	12.9	8.0	144	11.9	7.4	171
E4.50XL(E100XL ₃ S) E4.50XL(E100XL ₃)	36	9.7	6.0	143	8.4	5.2	178
	48	12.6	7.8	143	11.3	7.0	182
E5.50XL(E120XL ₃)	36	9.3	5.8	150	8.1	5.0	190
	48	12.2	7.6	153	10.8	6.7	194
330 mm (13 in) Traction Motor, High Speed							
E3.50XL(E70XL ₃)	36	14.2	8.8	227	12.9	8.0	247
	48	17.4	10.8	230	16.6	10.3	251
E4.00XL(E80XL ₃)	36	13.5	8.6	229	12.4	7.7	253
	48	16.4	10.8	232	15.9	9.9	257
E4.50XL(E100XL ₃ S) E4.50XL(E100XL ₃)	36	13.5	8.4	235	11.8	7.3	265
	48	17.1	10.6	238	15.1	9.4	269
E5.50XL(E120XL ₃)	36	13.2	8.2	240	11.3	7.0	275
	48	16.7	10.4	243	14.5	9.0	280
* NOTES: Speeds ± 15% acceptable. Current ± 20% acceptable. Speeds measured with fully charged battery and lift truck run for one-half hour.							

HOIST MOTOR CURRENT

MOTOR	VOLTAGE	MOTOR CURRENT*
Single Motor	36	438 amperes
	48	458 amperes
Dual Motors	36	576 amperes
	48	584 amperes
* Motor Current at Lift System Relief ± 15 amperes		

TORQUE SPECIFICATIONS

ITEM	SPECIFICATION
BRAKE SYSTEM Back Plate Nuts Brake Drum to Hub Nuts	120 Nm (90 lbf ft) 285 Nm (210 lbf ft)
DIFFERENTIAL Lock Plate Capscrews Adjuster Nuts Bearing Cap Capscrews Differential Case Half Capscrews Ring Gear Capscrews	19 Nm (14 lbf ft) 40 Nm (30 lbf ft) 225 Nm (166 lbf ft) 140 Nm (105 lbf ft) 140 Nm (105 lbf ft)
DRIVE AXLE Drive Axle to Speed Reducer Case Capscrews Axle Mount Capscrews Axle Shaft Capscrews Wheel Nuts Wheel Bearing Adjustment Nut Wheel Bearing Lock Nut	66 Nm (50 lbf ft) 320 Nm (235 lbf ft) 225 Nm (166 lbf ft) 680 Nm (500 lbf ft) 200 Nm (150 lbf ft) Initial 35 Nm (25 lbf ft) Final 135 Nm (100 lbf ft)
FRAME Counterweight Capscrews Upper Lower	270 Nm (200 lbf ft) 66 Nm (49 lbf ft)
MAST Hanger Caps for Side-Shift Carriage Keeper Plate Capscrews Side Roller Mount Capscrews	320 Nm (235 lbf ft) 90 Nm (65 lbf ft) 90 Nm (65 lbf ft)
MAIN CONTROL VALVE Through Bolt Nuts (5/16 in) Through Bolt Nuts (3/8 in)	20 Nm (15 lbf ft) 45 Nm (35 lbf ft)
STEERING SYSTEM Air Mount Capscrews Bearing Cap for Spindles Tie Rod Nut Steering Cylinder Capscrews Wheel Bearing Adjustment Nut	90 Nm (65 lbf ft) 45 Nm (35 lbf ft) 165 Nm (120 lbf ft) 225 Nm (165 lbf ft) 200 Nm (150 lbf ft) Initial 35 Nm (25 lbf ft) Final
TILT CYLINDERS Piston Nut Retainer Rod End Lock Capscrews Anchor Pin Retainer Capscrews	400 to 445 Nm (295 to 325 lbf ft) 400 to 500 Nm (295 to 370 lbf ft) 80 Nm (60 lbf ft) 80 Nm (60 lbf ft)

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