

E SERIES

ELECTRIC BOOM LIFTS



Performance

Platform Height		
E300AJ	30 ft 2 in.	919 m
E300AJP	29 ft 5 in.	8.96 m
E400AN/E400AJP/M400AJP/		
E400AJPN/M400AJPN	40 ft	12.19 m
E450A/E450AJ/M450AJ	45 ft	13.72 m
Horizontal Outreach		
E300AJ	20 ft 3 in.	617 m
E300AJP	20 ft 1 in.	612 m
E400AN	21 ft 2 in.	645 m
E400AJP/M400AJP/		
E400AJPN/M400AJPN	22 ft 5 in.	6.83 m
E450A	23 ft 1 in.	7.04 m
E450AJ/M450AJ	23 ft 9 in.	7.24 m
Up and Over Height		
E300AJ/E300AJP	13 ft 2 in.	4.01 m
E400AN/E400AJP/M400AJP/		
E400AJPN/M400AJPN	21 ft 6 in.	6.55 m
E450A	24 ft 7 in.	7.49 m
E450AJ/M450AJ	25 ft 3 in.	7.7 m
Swing	360° Non-continuous	
Platform Capacity	500 lb	227 kg
Platform Rotator	180° Hydraulic	
Weight		
E300AJ	15,060 lb	6,831 kg
E300AJP	15,400 lb	6,985 kg
E400AN	13,100 lb	5,942 kg
E400AJP/M400AJP	13,700 lb*	6,214 kg
E400AJPN/M400AJPN	14,900 lb*	6,759 kg
E450A	12,600 lb	5,715 kg
E450AJ/M450AJ	14,400 lb*	6,532 kg
Ground Bearing Pressure		
E300AJ/E300AJP	170 psi	11.95 kg/cm ²
E400AN	95 psi	6.7 kg/cm ²
E400AJP/M400AJP	80 psi	5.6 kg/cm ²
E400AJPN/M400AJPN	185 psi	13 kg/cm ²
E450A	95 psi	6.7 kg/cm ²
E450AJ/M450AJ	110 psi	7.6 kg/cm ²
Max Drive Speed		
E300AJ/E300AJP	4.5 mph	7.2 km/h
E400AN/E400AJP/M400AJP/		
E400AJPN/M400AJPN	4.5 mph	7.2 km/h
E450A/E450AJ/M450AJ	4.5 mph	7.2 km/h
Gradeability		
E300AJ/E300AJP	25%	
E400AN/E400AJP/M400AJP/		
E400AJPN/M400AJPN	30%	
E450A/E450AJ/M450AJ	30%	
Turning Radius (inside)		
E300AJ/E300AJP	5 ft	1.52 m
E400AN	2 ft 10 in.	.86 m
E400AJP/M400AJP	2 ft	.61 m
E400AJPN/M400AJPN	2 ft 10 in.	.86 m
E450A/E450AJ/M450AJ	2 ft	.61 m
Turning Radius (outside)		
E300AJ/E300AJP	10 ft 2 in.	3.1 m
E400AN/E400AJP/M400AJP/		
E400AJPN/M400AJPN	10 ft 4 in.	3.15 m
E450A/E450AJ/M450AJ	10 ft 4 in.	3.15 m

*For M models, add 300 lb (136 kg).



Standard Specifications

Power Source

Electrical System	48V DC	
Batteries	8 x 6V, 370 amp-hr (305 amp-hr on E300)	
Drive Motors	Dual Electric Traction—Brushless AC	
Generator Set (M Models)		
Diesel Engine Kubota 45 amp	6.7 hp	4.99 kW
Fuel Tank Capacity	4 gal.	15.2 L

Hydraulic System

• E300AJ/E300AJP	2.1 gal.	7.95 L
• E400AN/E400AJP/M400AJP/	4 gal.	15.14 L
E400AJPN/M400AJPN		
• E450A/E450AJ/M450AJ	4 gal.	15.14 L
• Motor/Pump	Permanent Magnet Motor/Gear Pump	

Tires

• E300AJ/E300AJP	25 x 7 x 12 Non-marking
• E400AN/E400AJPN/M400AJPN (front)	22 x 6 x 17.5 Non-marking
• E400AN/E400AJPN/M400AJPN (rear)	25 x 7 x 12 Non-marking
• E400AJP/M400AJP	240/55-17.5 Pneumatic
• E450A/E450AJ/M450AJ	240/55-17.5 Pneumatic

Standard Features

- Automatic Traction Control (ATC)
- Side Entry Platform
- 180 Degree Hydraulic Platform Rotator
- 110V-AC Receptacle on Platform
- Tilt Light and Alarm
- Hourmeter
- Battery Condition Indicator
- Lifting/Tie Down Lugs
- Horn
- All Motion Alarm
- Eight 6V 370 amp-hr Deep Cycle Batteries
- Brushless AC Motors

Accessories & Options

- Inward Self-closing Swing Gate
- Platform Worklights
- Mesh to Top Rail—Bolt-on Aluminum
- Acrylic Console Shield
- Cylinder Bellows
- UL® EE Rating¹
- Flashing Amber Beacon
- Operator Tool Tray

1. Not available on Multi-powered models.

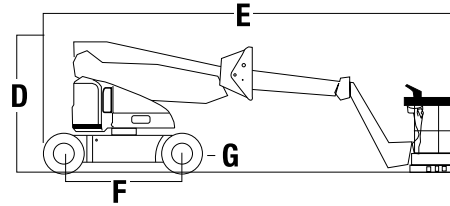
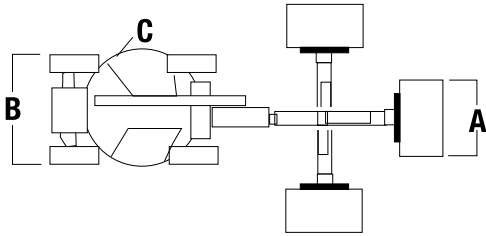
E SERIES

ELECTRIC BOOM LIFTS



Dimensions

All dimensions are approximate.



A. Platform Size

E300AJ	30 x 48 in.	0.76 x 1.22 m
E300AJP	30 x 48 in.	0.76 x 1.22 m
E400AN	30 x 48 in.	0.76 x 1.22 m
E/M400AJP	30 x 60 in.	0.76 x 1.52 m
E/M400AJPN	30 x 48 in.	0.76 x 1.22 m
E450A	30 x 60 in.	0.76 x 1.52 m
E/M450AJ	30 x 60 in.	0.76 x 1.52 m

C. Tailswing

E300AJ	Zero	
E300AJP	Zero	
E400AN	4 in.	10 cm
E/M400AJP	Zero	
E/M400AJPN	4 in.	10 cm
E450A	Zero	
E/M450AJ	Zero	

E. Stowed Length

E300AJ	18 ft 2 in.	5.54 m
E300AJP	18 ft 10 in.	5.74 m
E400AN	18 ft 1 in.	5.51 m
E/M400AJP	22 ft	6.71 m
E/M400AJPN	22 ft	6.71 m
E450A	19 ft 1 in.	5.82 m
E/M450AJ	21 ft 2 in.	6.45 m

G. Ground Clearance

E300AJ	4 in.	10 cm
E300AJP	4 in.	10 cm
E400AN	5 in.	13 cm
E/M400AJP	8.5 in.	22 cm
E/M400AJPN	5 in.	13 cm
E450A	8.5 in.	22 cm
E/M450AJ	8.5 in.	22 cm

B. Overall Width

E300AJ	4 ft	1.22 m
E300AJP	4 ft	1.22 m
E400AN	4 ft 11 in.	1.5 m
E/M400AJP	5 ft 9 in.	1.75 m
E/M400AJPN	4 ft 11 in.	1.5 m
E450A	5 ft 9 in.	1.75 m
E/M450AJ	5 ft 9 in.	1.75 m

D. Stowed Height

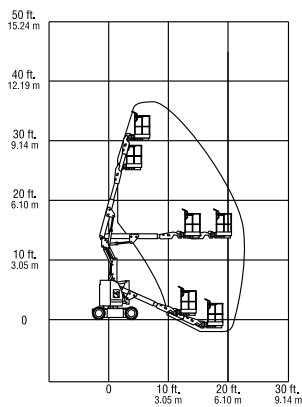
E300AJ	6 ft 7 in.	2.01 m
E300AJP	6 ft 7 in.	2.01 m
E400AN	6 ft 5.75 in.	1.97 m
E/M400AJP	6 ft 7 in.	2.01 m
E/M400AJPN	6 ft 5.75 in.	1.97 m
E450A	6 ft 6 in.	1.98 m
E/M450AJ	6 ft 7 in.	2.01 m

F. Wheelbase

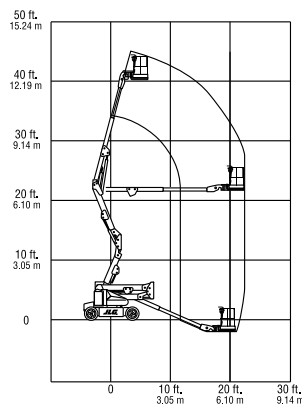
E300AJ	5 ft 5 in.	1.65 m
E300AJP	5 ft 5 in.	1.65 m
E400AN	6 ft 7 in.	2.01 m
E/M400AJP	6 ft 7 in.	2.01 m
E/M400AJPN	6 ft 7 in.	2.01 m
E450A	6 ft 7 in.	2.01 m
E/M450AJ	6 ft 7 in.	2.01 m

Reach Diagrams

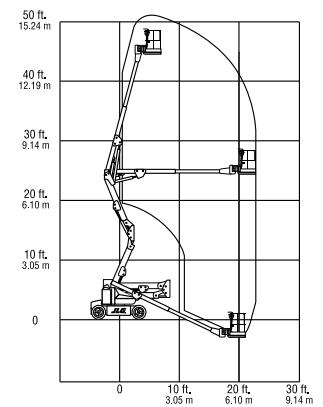
E300



E400



E450



The JLG "1 & 5" Warranty

We provide coverage for one (1) full year, and cover all specified major structural components for five (5) years. Due to continuous product improvements, we reserve the right to make specification and/or equipment changes without prior notification. This machine meets or exceeds applicable ANSI and CSA requirements based on machine configuration as originally manufactured for intended applications. Please reference the serial number plate on the machine for additional information.

Part No.: 3131119
R031810
Printed in USA

JLG Industries, Inc.

1 JLG Drive
McConnellsburg, PA 17233-9533
Telephone 717-485-5161
Toll-free in US 877-JLG-LIFT
Fax 717-485-6417
www.jlg.com

An Oshkosh Corporation Company

Genie® Z®-40/23N & Z-40/23N RJ

Specifications

Models	Z-40/23N		Z-40/23N RJ	
Measurements	US	Metric	US	Metric
Working height max. ⁽¹⁾	46 ft 5 in	14.32 m	46 ft 5 in	14.32 m
Platform height max.	40 ft 5 in	12.32 m	40 ft 5 in	12.32 m
Horizontal reach max.	22 ft 8 in	6.91 m	22 ft 8 in	6.91 m
Up and over clearance max.	21 ft 3 in	6.48 m	21 ft 3 in	6.48 m
A Platform length	2 ft 6 in	0.76 m	2 ft 6 in	0.76 m
B Platform width	4 ft 8 in	1.42 m	3 ft 10 in	1.17 m
C Height - stowed (tires)	6 ft 6 in	1.98 m	6 ft 6 in	1.98 m
D Length - stowed (tires)	21 ft 5 in	6.53 m	21 ft 5 in	6.53 m
E Width	4 ft 11 in	1.50 m	4 ft 11 in	1.50 m
F Wheelbase	6 ft 5 in	1.96 m	6 ft 5 in	1.96 m
G Ground clearance - center	9.5 in	0.24 m	9.5 in	0.24 m

Productivity

Lift capacity max. - unrestricted	500 lb	227 kg	500 lb	227 kg
Platform rotation	180°	180°	180°	180°
Jib length	4 ft	1.22 m	4 ft	1.22 m
Vertical jib rotation	128°	128°	128°	128°
Horizontal jib rotation	—	—	180°	180°
Turntable rotation	355°	355°	355°	355°
Turntable tailswing	5 in	0.13 m	5 in	0.13 m
Drive speed - stowed ⁽²⁾	4.5 mph	7.2 km/h	4.5 mph	7.2 km/h
Drive speed - raised	0.68 mph	1.1 km/h	0.68 mph	1.1 km/h
Gradeability - stowed ⁽²⁾	30 %	30 %	30 %	30 %
Tilt sensor activation (front to back/side to side)	2.5° - 4.5° / 4.5°	2.5° - 4.5° / 4.5°	2.5° - 4.5° / 4.5°	2.5° - 4.5° / 4.5°
Turning radius - inside/outside	2 ft 11 in / 10 ft 6 in	0.87 m / 3.20 m	2 ft 11 in / 10 ft 6 in	0.87 m / 3.20 m
Tires (solid, non-marking)	22×7× 17.75 in	0.56×0.18× 0.45 m	22×7× 17.75 in	0.56×0.18× 0.45 m

Power

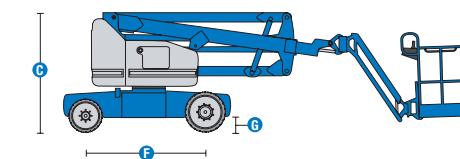
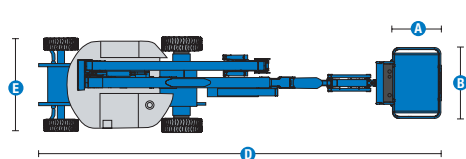
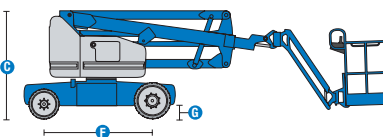
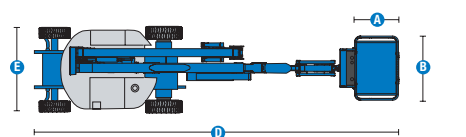
Power	48V DC (8×6V 350Ah)	48V DC (8×6V 350Ah)	48V DC (8×6V 350Ah)	48V DC (8×6V 350Ah)
Drive system	48V 3-Phase AC	48V 3-Phase AC	48V 3-Phase AC	48V 3-Phase AC
Auxiliary power unit	24V DC	24V DC	24V DC	24V DC
Hydraulic tank capacity	8 gal	30.3 L	8 gal	30.3 L

Weight⁽³⁾ and Floor Loading⁽⁴⁾

Weight (tires)	15,230 lb	6,908 kg	15,300 lb	6,940 kg
Tire contact pressure	200 psi	1379 kPa	200 psi	1379 kPa
Occupied floor pressure (tires)	372 psf	17.8 kPa	372 psf	17.8 kPa

Sound and Vibration Levels

Sound Pressure level (ground workstation)	< 70 dBA	< 70 dBA	< 70 dBA	< 70 dBA
Sound Pressure level (platform workstation)	< 70 dBA	< 70 dBA	< 70 dBA	< 70 dBA
Vibrations	8 ft 2 in/s ²	2.5 m/s ²	8 ft 2 in/s ²	2.5 m/s ²



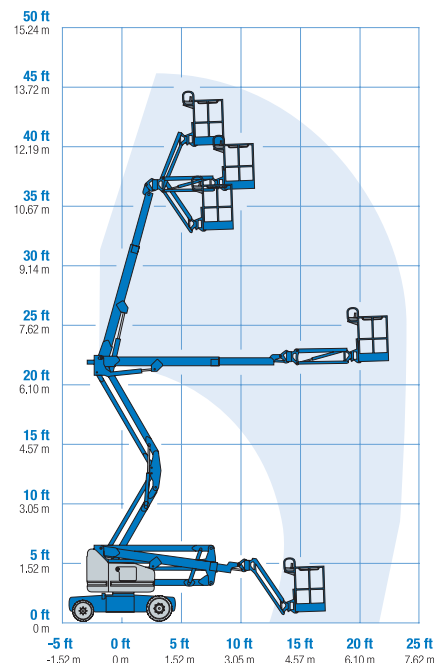
(1) The metric equivalent of working height adds 2 m to platform height. The imperial equivalent adds 6 ft to platform height.

(2) Gradeability applies to driving on slopes and may vary depending on options and machine configurations. See operator's manual for details regarding slope ratings.

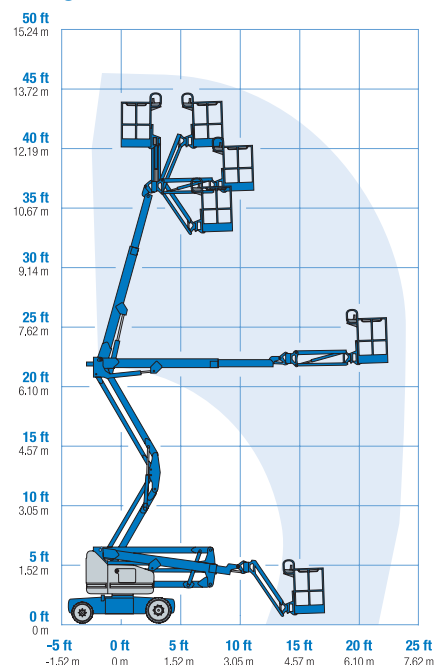
(3) Weight refers to standard configuration and may vary depending on options and/or country standards.

(4) Floor loading information is approximate and may vary depending on options and machine configurations. It should be used only with adequate safety factors.

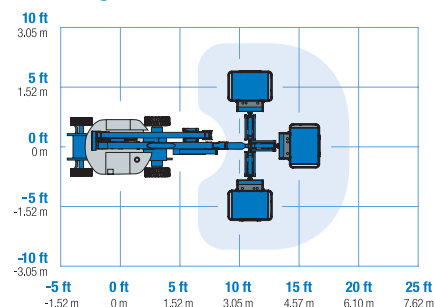
Range of motion Z-40/23N



Range of motion Z-40/23 N RJ



Jib range of motion Z-40/23N RJ



Genie® Z®-40/23N & Z-40/23N RJ

SKU: Standard Model

- **Z40N0001AE0002:** Z-40/23N with Jib, DC Power, 2WD
- **Z40NRJ01AE0003:** Z-40/23N RJ, DC Power, 2WD
- **Z40NRJ01AF0004:** Z-40/23N RJ, DC Power, Swing gate, 2WD

* Build to Order

Option availability		S	S+	BtO
Power	Standard FLA flooded lead acid battery	✓	✓	✓
	AGM Maintenance-free batteries		○	○
	Power Inverter, 800W, 120V AC, 60Hz		○	○
	Low voltage interrupt (LVI) with battery charge indicator (BCI)	✓	✓	✓
Platform	3ft 10in/1.17m steel platform	✓	✓	✓
	4ft 8in/1.42m steel platform (not available on RJ)	✓	✓	✓
	Air line to platform			○
	Control box covers		○	○
	Lift Guard Half Mesh panels with swing gate			○
	Light Package: drive and work lights		○	○
	Platform auxiliary top rail			○
	Platform swing gate			○
	AC Power cord to platform	✓	✓	✓
	Drive enable system	✓	✓	✓
	Horn	✓	✓	✓
	Lift Guard Contact Alarm	✓	✓	✓
	Platform load sense system	✓	✓	✓
	Proportional controls	✓	✓	✓
	Self-leveling platform	✓	✓	✓
	Travel alarm package: flashing beacons, descent, travel and tilt alarms	✓	✓	✓
Chassis	Lift Connect Telematics	✓	✓	✓
	Lift Connect with Access Manager upgrade		○	○
	Biodegradable hydraulic oil			○
	Cold weather hydraulic oil			○
	Fire resistant hydraulic oil			○
	Hostile environment kit			○
	Chassis tilt drive function cut-out	✓	✓	✓
	Dual parallelogram lift linkage	✓	✓	✓
	Electric brake release	✓	✓	✓
	Hour meter	✓	✓	✓
	On-board diagnostic system	✓	✓	✓
	Sealed AC electric drive motors	✓	✓	✓
	Solid, non-marking tires	✓	✓	✓

- S Standard
- S+ Standard +
- BtO Build to Order
- ✓ Standard Features
- Options



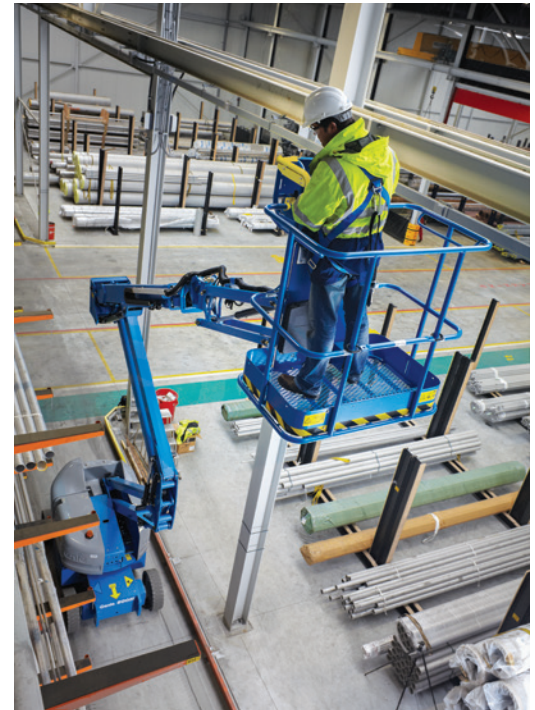
Efficient Electric Drive System



Narrow Access



Rotating Jib



Genie Genuine Accessories⁽¹⁾

- Lift Tools Productivity Tools
- Lift Connect Telematics
- Tech Pro Link Handheld Device

(1) More accessories available from Genie Genuine Parts.

Product specifications are subject to change without notice or obligation. Photographs and/or drawings herein are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on proper equipment use. Failure to follow instructions in the Operator's Manual may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and we make no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade names of Terex Corporation and/or their subsidiaries in the USA and many other countries. Terex, Genie, Quality By Design, Xtra Capacity, Lift Power, Lift Guard, Lift Tools, Lift Connect and Tech Pro Link are registered trademarks of Terex Corporation or its subsidiaries.

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