

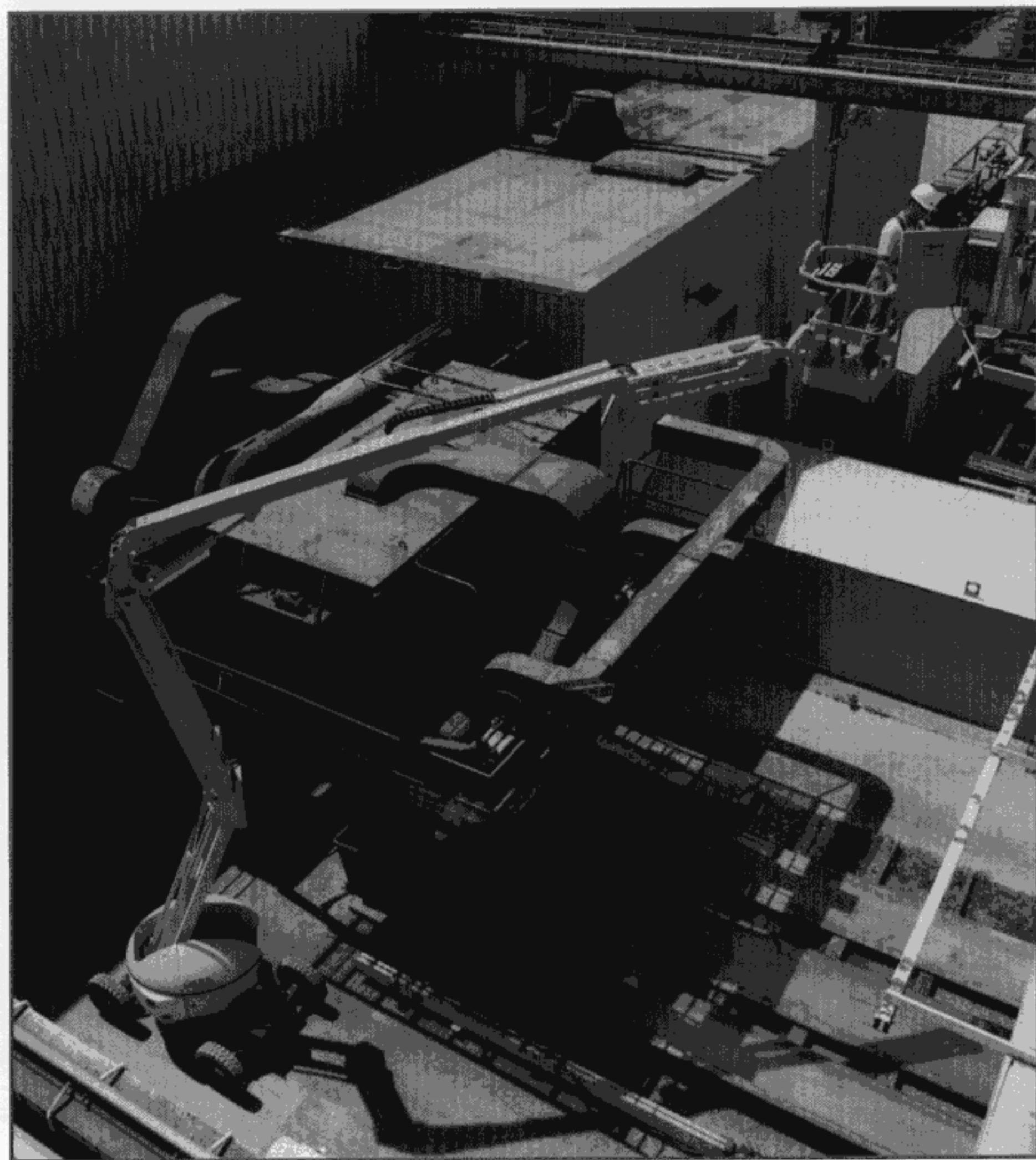


GROVE
MANLIFT

A GROVE WORLDWIDE COMPANY

AMZ36E
AMZ46E/46NE
AMZ51E

Self-Propelled Aerial Work Platforms



Grove Manlift introduces the all new AMZ36E, AMZ46E, AMZ46NE and AMZ51E: four electric powered articulating boom lifts with uncommon versatility and performance that are equally at home in industrial and construction applications.

All four models are loaded with standard features:

- Working heights of 36 ft. (11.23 m), 46 ft. (14.1 m), and 51 ft. (15.55 m) respectively.
- Compact dimensions.
- Long duty cycles and battery life.
- Superior drive performance.
- Standard "EE" rating.
- Stylish design.

Standard Equipment

PLATFORM

The end-mounted platform design maximizes outreach and operator visibility, and allows for easy platform entry and exit.

All-welded 30 x 48 in. (0.7 x 1.2 m) tubular steel work platform.

150° hydraulic platform rotation.

110-V AC wiring with ground fault interrupter.

CONTROLS

The platform mounted all-aluminum upper control panel features a proportional drive controller with top mounted rocker switch for one-handle control of drive and steer. Variable speed control for lift, telescope and swing. Patented control enable system with indicator light and foot pedal.

CENTER-LINE BOOM & RISER

The AMZ36E features a single section all-steel design parallelogram riser. The AMZ46NE, AMZ46E and AMZ51E feature a two section all-steel parallelogram design riser.

All models feature a two section main boom.

The AMZ51E features a standard 5 ft. (1.52 m) all-steel articulating jib section which articulates from +45° to -75° relative to the main boom.

POWER PLANT

The highly efficient electrical system provides exceptional battery life and long duty cycles. The SEVCON control module is the heart of the system with features that include:

- Controller ramping for smooth functions
- Low voltage cut-out.
- Thermal/speed protection.
- An internal hour meter.
- An internal self-diagnostic microprocessor.

Boom functions are powered by a 48-V, 4.6 hp permanent magnet electric motor located on the superstructure.

The AMZ36E drive function is powered by (2) 48V, 1.75 hp electric drive motors mounted directly on the drive wheels.

The AMZ46E, AMZ46NE and AMZ51E drive function is powered by a 48-V, 7 hp electric motor mounted on the chassis.

Heavy-duty 48-V electrical system with (3) 6-V deep cycle batteries.

DRIVE SYSTEM

The AMZ36E features dual rear wheel drive via two electric drive motors mounted on the drive wheels which power two wheel drives. The oscillating rear axle increases traction by keeping both drive wheels in contact with the ground.

The AMZ46E, AMZ46NE and AMZ51E feature dual rear wheel drive via a single drive axle. A drive slip differential provides positive traction to both drive wheels and eliminates tire scuffing when turning.

SAFETY FEATURES

Operator safety is a top concern with standard features that are optional on many competitive models:

- All-motion alarm.
- 5° slope sensor and alarm.
- Operator horn on the upper control panel.
- Patented control enable system.
- Inside platform hand rails.
- Ground Fault Interrupter.

Grove Manlift models AMZ36E, AMZ46E, AMZ46NE and AMZ51E are in compliance with the requirements of ANSI/UL 583 Standard for Electric Battery Powered Industrial Trucks. Type EE, as approved by Factory Mutual Research Corporation.

The Type EE rating provides an electric battery powered unit that is designed and constructed to meet minimum acceptable safe-guards against inherent risk of fire or electric shock. A unit having this rating complies with the requirements for allowable use in some hazardous locations not otherwise accessible.

EE machines may be used in all areas except those requiring explosion proof or dust-tight enclosures for spark producing equipment.

When use in a hazardous location/area is required, it shall be the responsibility of the user/operator to obtain approval from an authority having jurisdiction who shall determine if the Type EE rating complies with the requirements for that location using guidelines established by the National Fire Protection Association (NFPA).

Specifications

	AMZ36E	AMZ46E	AMZ46NE	AMZ51E
Platform				
Working Height	36 ft. 10 in. (11.23 m)	46 ft. 3 in. (14.1 m)	46 ft. 3 in. (14.1 m)	51 ft. (15.55 m)
Platform Height	30 ft. 10 in. (9.4 m)	40 ft. 3 in. (12.27 m)	40 ft. 3 in. (12.27 m)	45 ft. (13.71 m)
Horizontal Reach	20 ft. 6 in. (6.25 m)	21 ft. 11 in. (6.68 m)	21 ft. 11 in. (6.68 m)	25 ft. 5 in. (7.8 m)
Riser Height	15 ft. (4.57 m)	23 ft. 4 in. (7.11 m)	23 ft. 4 in. (7.11 m)	23 ft. 4 in. (7.11 m)
Capacity	500 lbs. (227 kg)	500 lbs. (227 kg)	500 lbs. (227 kg)	500 lbs. (227 kg)

Dimensions				
Platform Size	30 x 48 in. (0.76 x 1.22 m)	30 x 48 in. (0.76 x 1.22 m)	30 x 48 in. (0.76 x 1.22 m)	30 x 48 in. (0.76 x 1.22 m)
Overall Height	6 ft. 7 in. (2.0 m)	6 ft. 7 in. (2.0 m)	6 ft. 7 in. (2.0 m)	6 ft. 7 in. (2.0 m)
Overall Length	16 ft. 5 in. (5.0 m)	18 ft. 8 in. (5.69 m)	18 ft. 8 in. (5.69 m)	19 ft. 10 in. (6.05 m)
Overall Width	5 ft. 9 in. (1.75 m)	5 ft. 9 in. (1.75 m)	4 ft. 11 in. (1.5 m)	5 ft. 9 in. (1.75 m)
Track	5 ft. 1 in. (1.55 m)	5 ft. 1 in. (1.55 m)	4 ft. 4 in. (1.32 m)	5 ft. 1 in. (1.55 m)
Wheelbase	6 ft. 4 in. (1.93 m)	6 ft. 4 in. (1.93 m)	6 ft. 4 in. (1.93 m)	6 ft. 4 in. (1.93 m)
Inside Turning Radius	51 in. (1.3 m)	51 in. (1.3 m)	63 in. (1.6 m)	51 in. (1.3 m)
Ground Clearance	6 in. (0.15 m)	6 in. (0.15 m)	6 in. (0.15 m)	6 in. (0.15 m)
Tailswing	Zero	Zero	5 in. (0.13 m)	Zero

Performance				
Maximum Drive Speed	3 mph (4.8 km/h)	3 mph (4.8 km/h)	3 mph (4.8 km/h)	3 mph (4.8 km/h)
Gradeability	30%	30%	30%	30%
Tire Size	7.00 x 15 NHS 12 PR	7.00 x 15 NHS 12 PR	22 x 7 - 16 Solid	7.00 x 15 NHS 12 PR
Tire Fil.	Air	Air	N/A	Air
Weight	10,200 lbs. (4627 kg)	11,600 lbs. (5262 kg)	13,100 lbs. (5942 kg)	14,300 lbs. (6486 kg)

Power Source				
Upper:				
Motor Horsepower	4.6 hp	4.6 hp	4.6 hp	4.6 hp
Pump	1 Section Gear	2 Section Gear	2 Section Gear	2 Section Gear
Reservoir Capacity	5 gal. (18.9 L)	5 gal. (18.9 L)	5 gal. (18.9 L)	5 gal. (18.9 L)
Lower:				
Drive System	Direct drive w/wheel drive	Direct drive w/axle	Direct drive w/axle	Direct drive w/axle
Motor	(2) 1.75 hp	7 hp	7 hp	7 hp
Batteries	(8) 6 V	(8) 6 V	(8) 6 V	(8) 6 V
Battery Amps	370	370	370	370
Charge	21 amp automatic	21 amp automatic	21 amp automatic	21 amp automatic

Get What You Want with Grove Manlift!

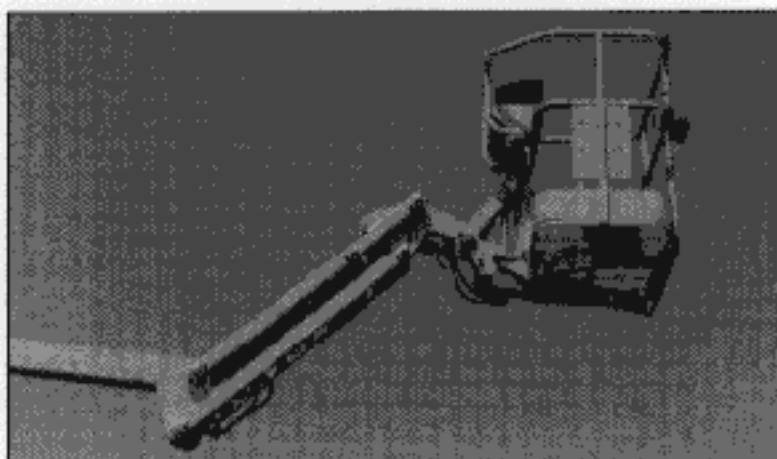
These new units were planned from the top down to give you what you said you wanted in electrics -- maneuverability; transportability; a steady, solid platform; more productivity. Test drive the new Grove Manlift electrics today. You'll find it's a steady ride.

Drive Where You Want



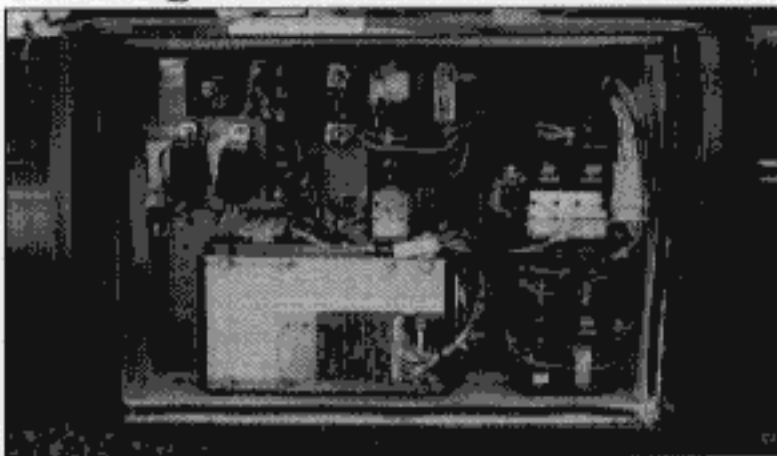
Gradeabilities up to 30% make it easy to load machines without assistance.

Work Where You Want

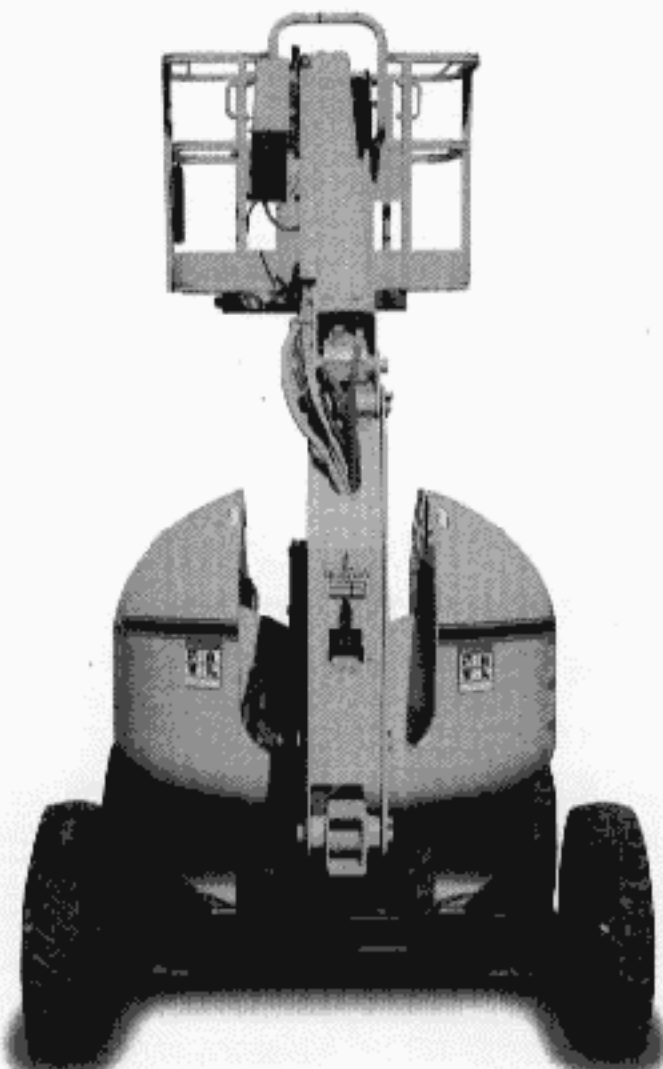


A 5 ft. articulating jib on the AMZ51E gets you quickly in position with 120° of movement.

As Long As You Want



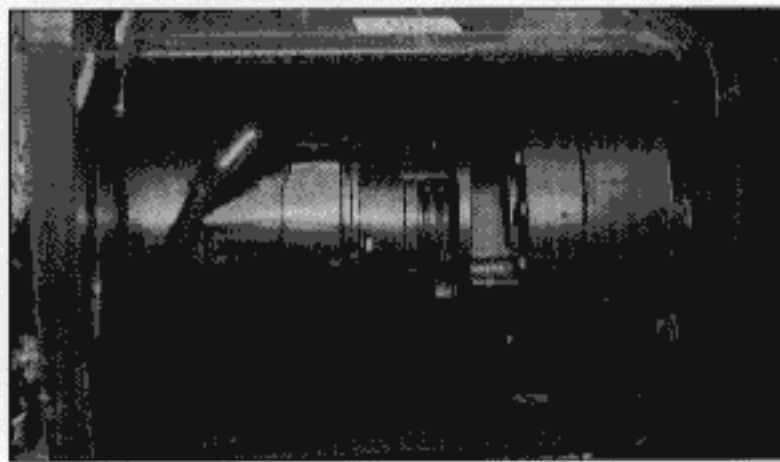
The SEVCON control module is the heart of the electrical system.



Patented center-line design maximizes platform rigidity and minimizes twisting between the boom and riser resulting in longer component life and increased operator comfort.

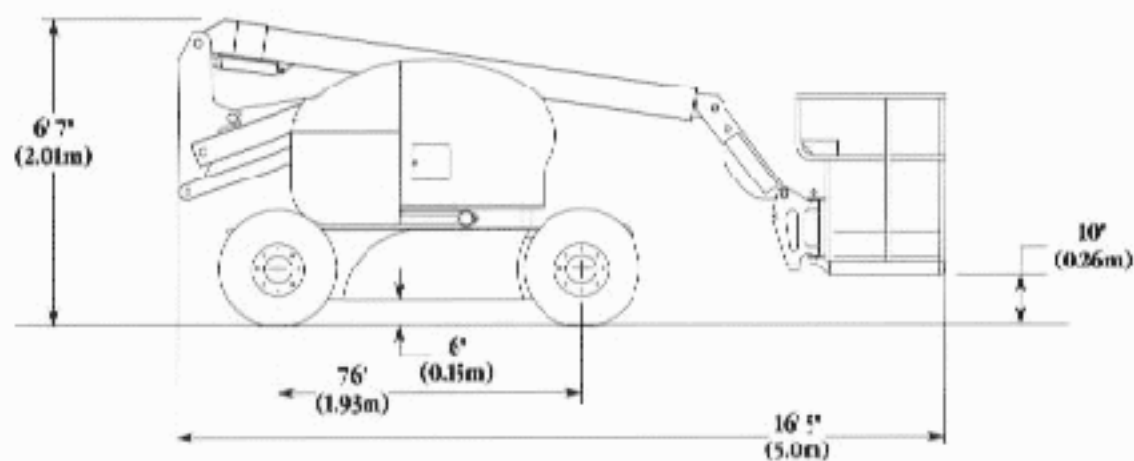
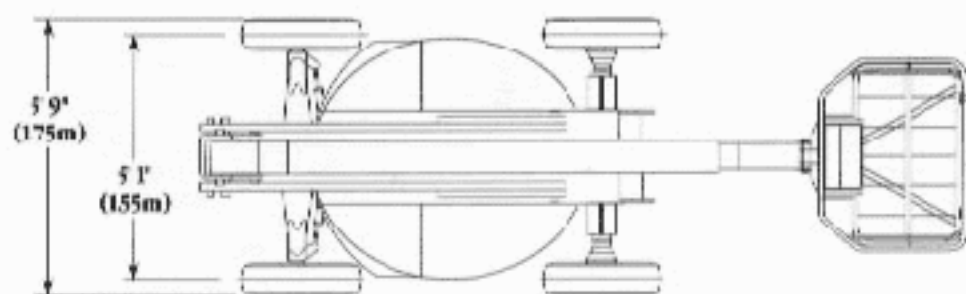
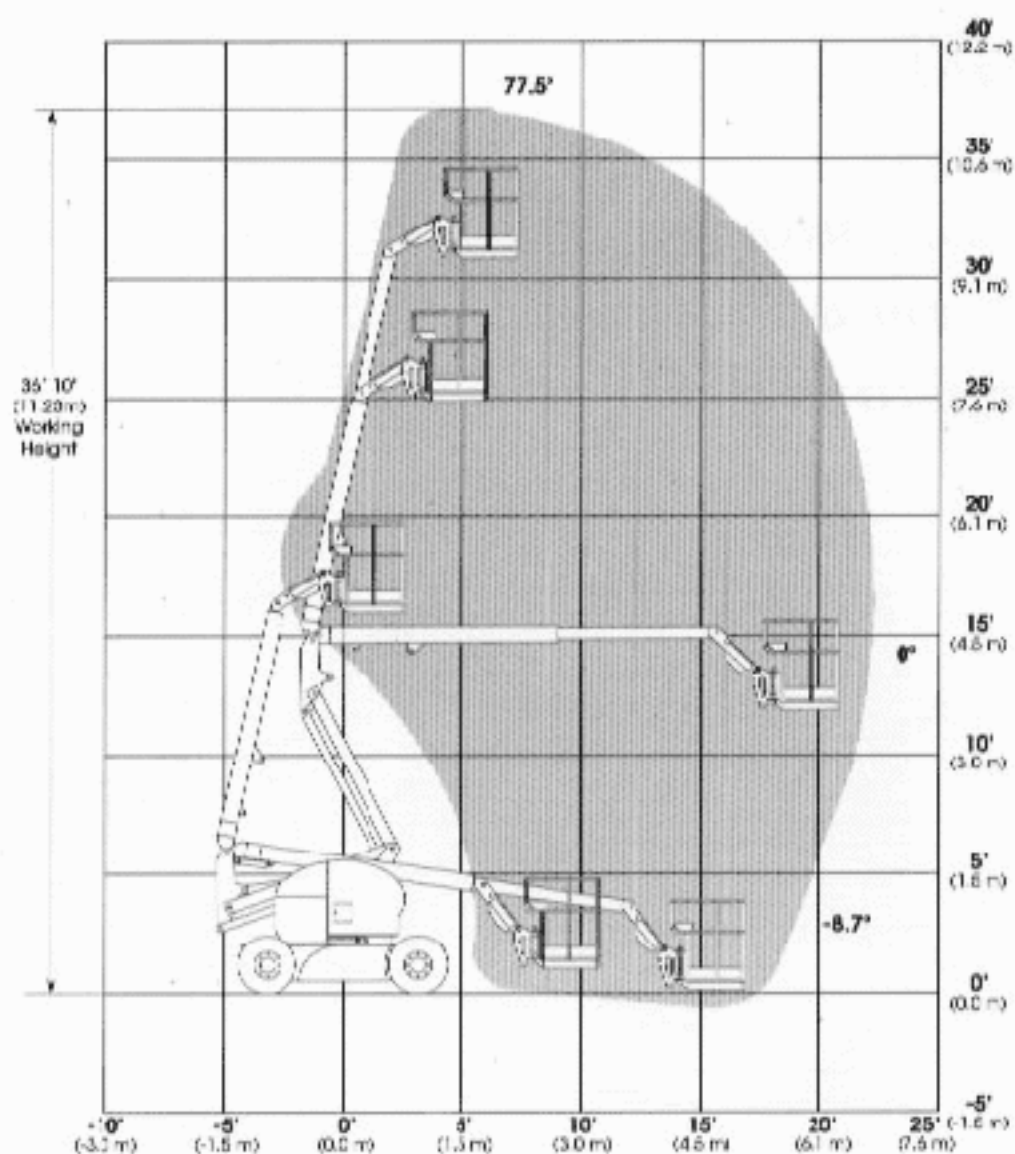


Ease of operation and quick operator familiarization are trademarks of Grove Manlift aerial work platforms with control panel layouts common on all four models.

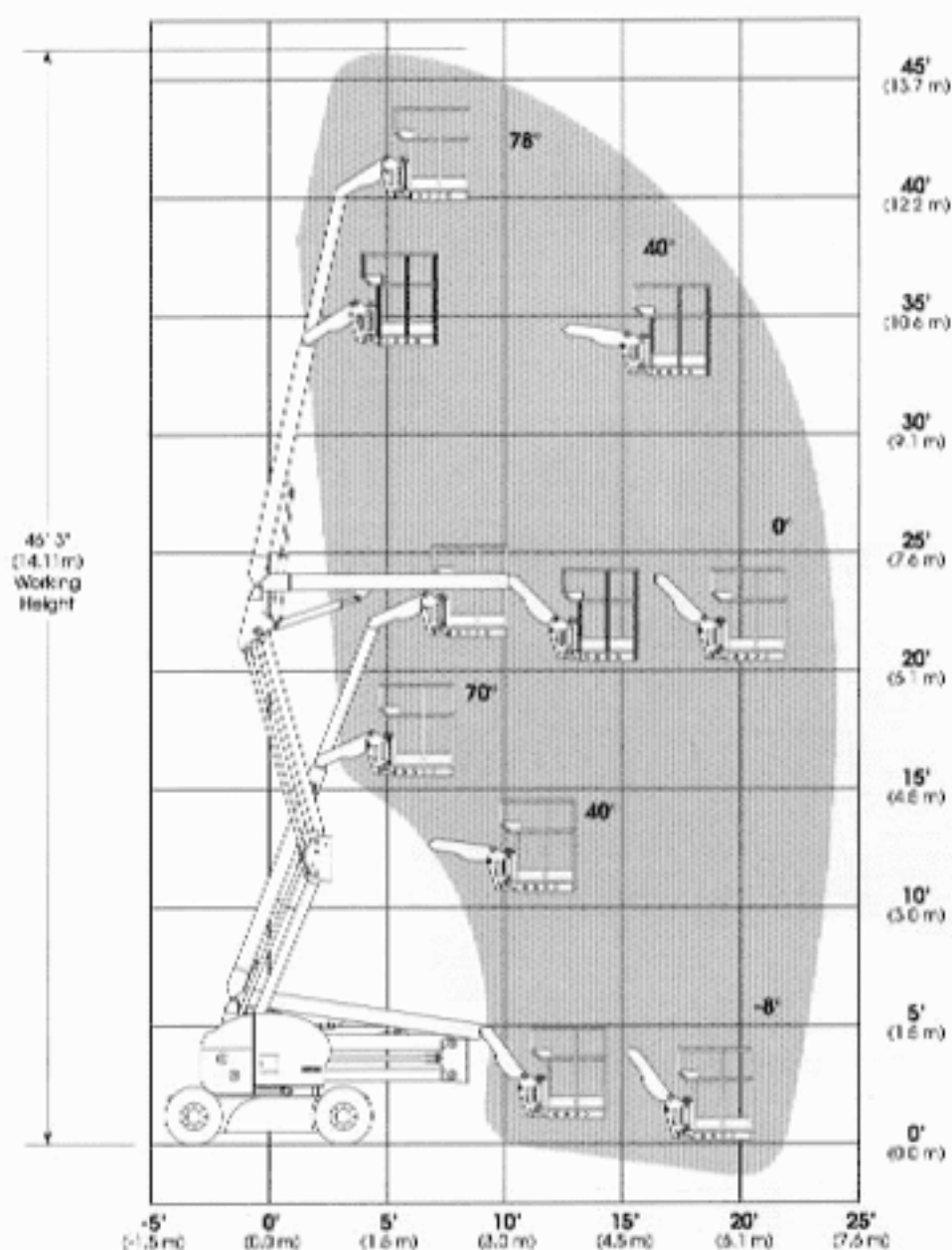


All four new models feature direct electric drive for smooth operation, exceptional battery life and long duty cycle. So you can spend time on the job, not getting a recharge!

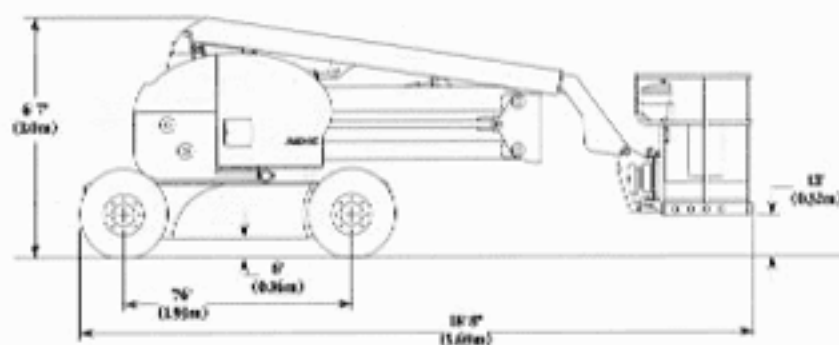
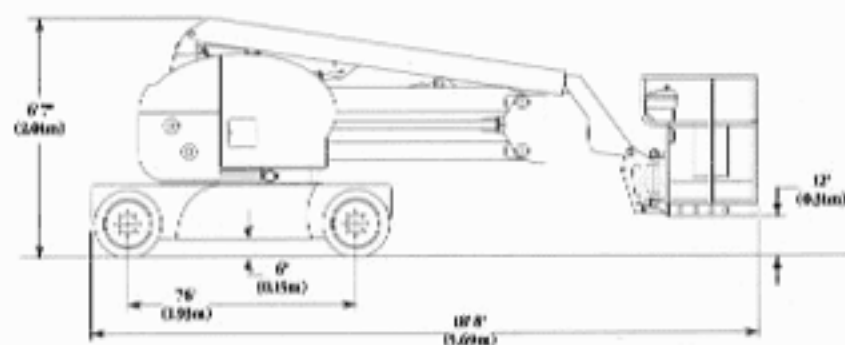
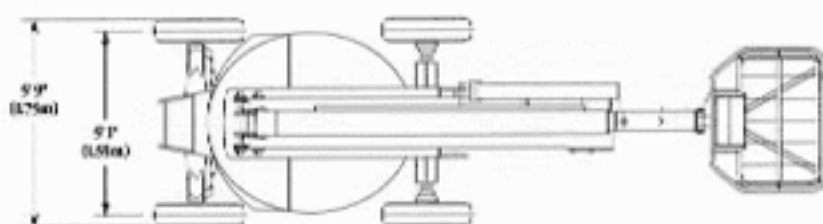
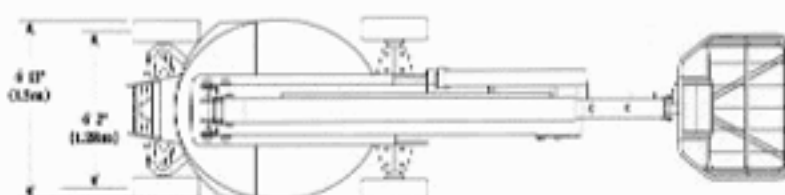
AMZ36E **Working Range** **Diagram &** **Dimensions**



AMZ46E & AMZ46NE **Working Range Diagram & Dimensions**



AMZ46NE



AMZ46E

AMZ51E **Working Range** **Diagram &** **Dimensions**

