



**GROVE**<sup>®</sup>  
**MANLIFT**<sup>®</sup>

# AMZ51 AMZ51XT

Self Propelled Aerial Work Platforms



**G**rove Manlift introduces the all-new AMZ51 Series! Outstanding reach capabilities, compact dimensions and superior performance make the AMZ51 Series equally at home in both industrial and construction applications.

#### Check these features:

- Superior Working Range - Patented centerline design articulating boom and riser and 5 ft. (1.5 m) articulating jib provide an unsurpassed 1,128 sq. ft. (104.8 m<sup>2</sup>) of working area.
- Compact Dimensions - 5 ft. 10.5 in. (1.79 m) width and 6 ft. 7 in. (2.0 m) height allows travel through a standard double door. Width on 4 x 4 models\*\* increases to 6 ft. 7 in. (2.0 m) to provide increased traction in rough terrain.
- Steel platforms - Mid-mount style maximizes horizontal outreach and operator visibility.
- Powerful engines - Standard dual fuel or optional diesel engines deliver 60 hp for smooth powerful performance.
- Superior Performance - Proportional controls with ramp-to-zero provide smooth multi-function capability. Rotary flow dividers and optional oscillating axle provide outstanding drive performance.
- Excellent Accessibility - Large gull-wing style doors provide access to all components.

#### Standard equipment

##### PLATFORM

All-welded 30 x 60 in. (0.76 x 1.5 m) tubular steel end mounted work platform assembly with inside handrails, sliding bar gate and 130° hydraulic platform rotator. 44 in. (1.12 m) high railings with 6 in. (0.15 m) toeboard. 110 V AC wiring to platform with ground fault interrupter, plug and junction box on turntable, and two outlets on platform.

##### CONTROLS

Upper control panel features proportional joystick controllers with adjustable "ramp to zero" for drive, boom lift, riser lift and swing. Drive controller features rocker type thumb steer switch for convenient one-handed operation.

Non-proportional control switches for boom telescope, platform level and platform rotate. Selection switches for function speed and high/low engine idle. Control enable system\* with foot pedal and indicator light.

Push buttons for auxiliary power, engine start, choke, emergency stop and driving horn.



*Ease of operation and quick operator familiarization are trademarks of Grove Manlift aerial work platforms with common control panel layout across all boom models.*

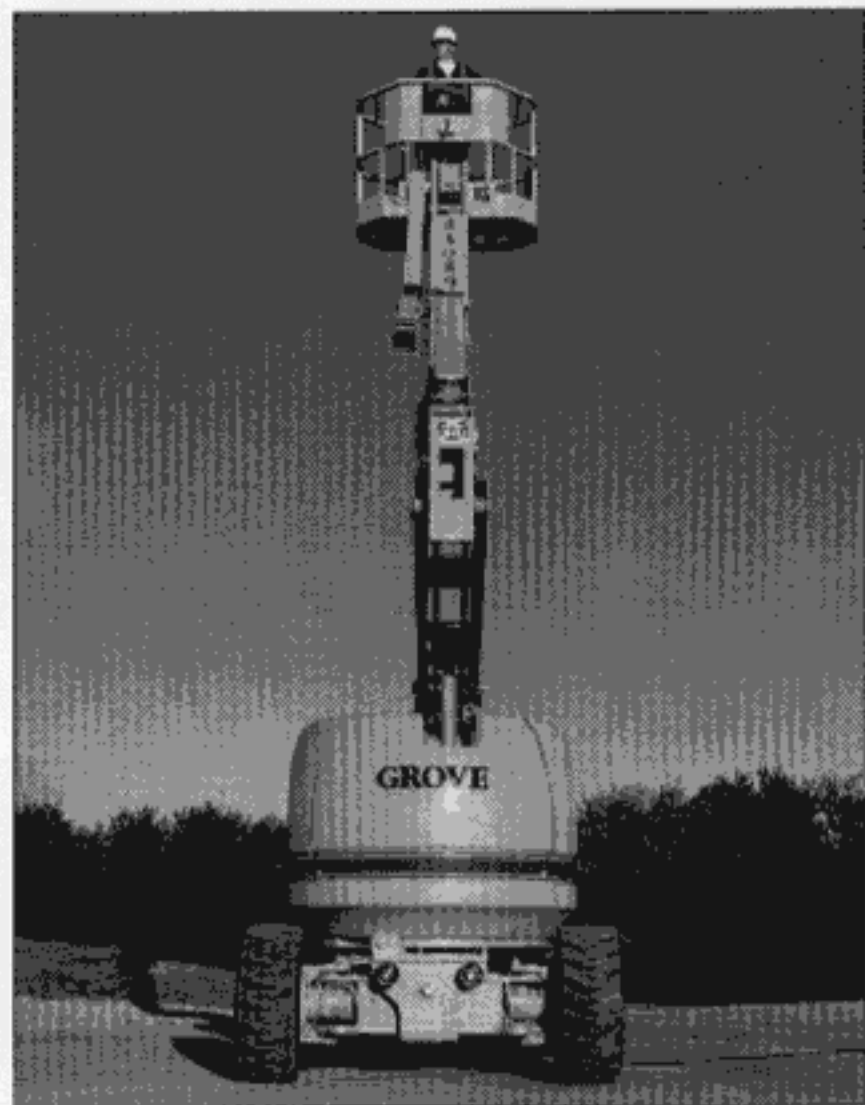
The lower control panel features non-proportional control switches for lift, telescope, swing, platform level and platform rotate. Selection switches for lower/upper controls, and auxiliary power. Also included are a voltmeter, hourmeter, ignition switch, and lockable master power disconnect switch.

#### CENTER-LINE BOOM AND RISER

All-steel two-section center-line main boom. Two section all-steel parallelogram design riser. 5 ft. (1.52 m) all steel articulating jib section which articulates from +45° to -75° relative to the main boom.

Steel external boom power guide routes hydraulic and electric lines to the platform.

Ball bearing swing circle with 350° non-continuous superstructure rotation. Hydraulically driven worm gear gearbox. Plunger-type mechanical house lock.



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

### POWER PLANT

Ford LRG425 4-cylinder water cooled dual/fuel engine with 65 hp (48.5 kW) @ 2,600 rpm.

12-volt DC negative ground battery with 700 CCA @ 0° F (-17°C).

14 gal. (53 liter) steel fuel tank with sight gauge.

### HYDRAULIC SYSTEM

Pressure/flow compensated, variable displacement axial piston pump with 26 gpm (98.4 lpm). Maximum system operating pressure of 3500 psi (241 bar).

Electrically activated consolidated valve bank provides simultaneous function capability.

### CHASSIS

Two-wheel, two-speed drive motor on the rear wheels with planetary hubs.

Counterbalance valve provides dynamic braking. Automatic spring-applied, hydraulically released disc type parking brakes on the drive wheels.

- Front wheel steering
- All motion alarm
- Lift/tie down lugs



*The 5 ft. (1.52 m) articulating jib allows 150° of movement for extra versatility.*

### Options

- Deutz F4L-1011F 4-cylinder air cooled diesel engine with 60 hp (44.7 kW) @ 3,000 rpm.
- 72 in. (1.8 m) platform.
- Enclosed upper control box cover
- 2,000 watt 110 V AC generator
- Hostile Environment Protection Package
- Oscillating front axle

*\*Denotes patented Grove feature.*

*\*\*XT models available with optional 5' 10.5 (1.79 m) chassis.*



*Standard rotary flow dividers provide superior gradeability in both 2 and 4 wheel drive.*

## Specifications

### AMZ51

### AMZ51XT

#### Platform

Working Height	51 ft. (15.54 m)	51 ft. (15.54 m)
Platform Height	45 ft. (13.71 m)	45 ft. (13.71 m)
Platform Capacity	500 lbs. (227 kg)	500 lbs. (227 kg)
Horizontal Reach (w/Riser Elevated)	24 ft. 6 in. (7.5 m)	24 ft. 6 in. (7.5 m)

#### Dimensions

Platform Size (steel)	30 x 60 in. (0.76 x 1.5 m)	30 x 60 in. (0.76 x 1.5 m)
Overall Height (stowed)	6 ft. 7 in. (2.01 m)	6 ft. 7 in. (2.01 m)
Overall Length	20 ft. (6.10 m)	20 ft. (6.10 m)
Overall Width	5 ft. 10.5 in. (1.79 m)	6 ft. 7 in. (2.0 m)**
Wheelbase	6 ft. 6 in. (1.98 m)	6 ft. 6 in. (1.98 m)
Outside Turning Radius	14 ft. 6 in. (4.4 m)	14 ft. 6 in. (4.4 m)
Ground Clearance	8 in. (0.2 m)	8 in. (0.2 m)
Tailswing (Elevated)	Zero	Zero

#### Performance

Maximum Drive Speed	4.0 mph (6.4 km/h)	3.5 mph (5.6 km/h)
Gradeability (Theoretical)*	30%	50%
Tire Size	7.00 x 15 12 pr	12.00 x 16.5 8 pr loader lug
Tire Fill	Air	Air

#### Power Source

Standard Engine	Ford LRG425 Dual/fuel	Ford LRG425 Dual/fuel
Engine Horsepower	65 hp (48.5 kW)	65 hp (48.5 kW)
Optional Diesel Engine	Deutz F4L-1011F	Deutz F4L-1011F
Fuel Tank Capacity	14 gal. (53 litres)	14 gal. (53 litres)

#### Hydraulics

Reservoir Capacity	20 gal (75.7 litres)	20 gal (75.7 litres)
Pump Type	Axial Piston	Axial Piston
Auxiliary Power	Std.	Std.

#### Shipping Information

Weight	14,400 lbs. (6523 kg)	14,600 lbs. (6623 kg)
Shipping Cube	1524 cu. ft. (43 m <sup>3</sup> )	863 cu. ft. (24.43 m <sup>3</sup> )

\*Published machine gradeability is theoretical. Machine to be in a stowed position. Always operate machine on a firm, level surface when elevated.

\*\* XT models available with optional 5' 10.5" (1.79 m) chassis.

# AMZ51/AMZ51XT

