

# INSIGHTS



Product News | Information | Updates

## Key Specifications

-  Working height  
20.16 m (65 ft 7 in)
-  Width  
2.49 m (8 ft 2 in)
-  Horizontal reach  
11.15 m (36 ft 7 in)
-  Up and over clearance  
7.39 m (24 ft 3 in)
-  Lift capacity  
227 kg (500 lbs)
-  Weight  
7,756 kg (17,100 lbs)



## New electric & environmentally-friendly Z™ Boom with rugged terrainability

### Genie® Fuel Electric Hybrid Genie Z-60/37FE

Although there are various electric boom lifts available, get ready for a true breakthrough in hybrid electric and full electric power. The all-new Genie Z-60/37FE (Fuel Electric Hybrid) brings a new and unrivalled terrain capability that seamlessly transitions from an off-road, hill-climb to quiet, emission-free indoor use. The Z-60/37FE delivers the drive performance you expect from full diesel power, while providing 20.16 m (59 ft 7 in) of working height, 7.39 m (24 ft 3 in) of up-and-over reach and 2268 kg (5,000 lbs) less weight than its diesel equivalent.



*Unobtrusive and lightweight efficiency*



*A true 4-wheel drive articulating boom with fully sealed AC drive motors*



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## Powerful electric options

Thanks to a quiet, low emissions design, the Genie® Z™-60/37FE boom lift is a great asset for malls, construction sites, sport arenas, manufacturing plants, and even challenging pedestrian areas with the demand for low noise and clean performance. Customers will love the low emissions and full workday performance on one charge. The Fuel Electric Hybrid system (two machines in one package) gives our customers environmental consciousness, lower cost of operation and the opportunity to increase their rental ROIC.



*“The Z-60/37FE boom is a revolutionary new approach to ‘green’ machines. On long-term jobs, this machine is sufficiently versatile to handle multiple tasks on rough and unprepared ground and perform indoor where reduced noise and emissions levels are necessary. This model is an extremely cost-efficient solution designed to provide high rental returns and cleaner performance.”*

*Adam Hailey, Product Manager, Terex AWP.*

### MAIN APPLICATIONS

#### Indoor:

- Airport
- Malls
- Convention Centres
- Gymnasiums
- Museums
- Manufacturing Plants

#### Outdoor:

- Sport Arenas
- Construction Sites

### NEED MORE VERSATILITY?

With the Genie® Z™-60/37FE, you will:

- Perform in plants where employees work a shift pattern: mornings, afternoons, nights.
- Drive long distances without affecting your batteries' performance by running the diesel generator.
- Start outside when no power source is available, finish the job inside.
- Recharge the batteries during the day while running the diesel generator. Use DC power to work quietly at night or in pedestrian areas.
- Benefit from the power of the engine to tackle the most challenging rough-terrain applications.

## Genie® Z™-60/37FE: start working right away even if your battery is down

The new Z-60/37FE boom lift provides the choice of two modes of operation



- ⇒ **'Full-electric'**: full-day, emission-free on a single charge,
- ⇒ **'Hybrid'**: one week of run time with a single tank of diesel.

In 'hybrid' mode, the machine uses its environmentally-friendly 24-hp Tier 4 Final /Stage IIIB engine-powered generator to maintain the battery state of charge or to supplement the battery power to get a boost in machine performance.



To keep productivity high and maintenance costs low, its engine-powered generator constantly monitors the battery state, keeping them topped off for maximum run time, then automatically shutting off to minimise fuel consumption.

For extreme usage conditions or after heavy full-electric operation, the high power hybrid system can provide a bulk charge within approximately 4 hours.



The hybrid system is powerful enough:

- to simultaneously charge the batteries and allow boom and drive operation,
- to provide power directly to the four wheel AC drive motors, allowing the system to combine the diesel driven generator and the 48V DC battery pack, maximising performance when climbing hills and taking on the most rugged terrain.



## Main Features:

- 20.16 m (59 ft 7 in) lift, tallest Genie® electric articulating boom
- Indoor and outdoor applications
- Rugged 4-wheel drive
- High efficiency AC drive motors
- Oscillating axles
- All-terrain foam-filled tyres:
  - Rough-terrain standard
- Quiet operation and reduced emissions
- Recharges overnight by 120v or 240v plugin
- Bulk recharge (80%) in 4 hours with onboard generator (FE) - *standard charging concept in 3 stage charge profiles*
- Genie® FastMast™ system
- Compact transport length and low weight
- Occupied floor pressure 880 kg/sqm (180 psf)  
Occupied floor area: 8.57 sqm (92.25 sqft)
- Easy to read LCD screen machine diagnostic



*Increased ground clearance combined with 45% gradeability*

### All-terrain performance

Don't underestimate the capability of the Z-60/37FE machine: A rugged 4-wheel drive machine with fully sealed AC drive motors that can still perform while submerged under water. It is also able to go 25% faster and climb slopes better than typical diesel powered units.

The new Genie® Z™-60/37FE shares the same oscillating axle system as our Genie® Z™-62/40 and Genie® S™-60 family of boom lifts, so from a drive system standpoint, it will perform very similar to our other rough terrain machines.

These 'go anywhere' capabilities are why we gave the Z-60/37FE model all-terrain foam filled tyres. The FE model features non-marking tyres as standard for those interior applications. As a result, these

machines are designed to be one of the first on the jobsite and the last off, which is exactly what rental customers are looking for to improve their profitability.

### Operator capabilities

The 1.83 m (6 ft) or 2.44 m (8 ft) platforms, with a capacity of 227 kg (500 lbs) enable two people to access the entire working envelope. The 2.44 m platform comes with an additional side sliding mid rail, opposite the standard swing gate, for a total of three entry points. In addition, the 1.52 m (5 ft) jib provides a high range of motion, 70° up and 65° down. Couple that with 160° of platform rotation, and you really have a lot of refined positioning power at the boom tip. It also boasts a narrow footprint and a low 0.58 m (23 in) tail swing, ideal for working in confined environments.

## Genie® FastMast™

The Genie® Z™-60/37FE lift are equipped with a dual parallel link design so you can track up and down a building by just raising or lowering your secondary boom. Another benefit is the Genie FastMast™



Genie® FastMast™

system, a productivity feature that enables the boom lift to be moved from full height to below grade, and from below grade to full height with the secondary boom fully raised. With the secondary fully elevated, your primary boom can go all the way to the ground and then back to full height with one function. This is the fastest way to and from 18.29 m (60 ft) for operators who need to go down to grab materials frequently.

### Serviceability

The Genie brand is known for products that are service-friendly, and these new booms are no different.

Due to parts and controls commonality, your service team can get in and finish tasks quickly and stock less to save time and money.

Swing-out trays and ground control panels bring components within easy reach and service efficiency in mind.



Cleaner and quieter efficiency indoors

	Z™-60/37FE	Z™-62/40
Working height maximum	20.16 m (65 ft 7 in)	20.87 m (67 ft 11 in)
Horizontal outreach	11.15 m (36 ft 7 in)	12.32 m (40 ft 5 in)
Up & over clearance	7.39 m (24 ft 3 in)	8.13 m (26 ft 8 in)
Drive speed stowed	6.4 km/h (4.0 mph)	4.8 km/h (3.0 mph)
Gradeability with 4x4 drive	45%	45%
Ground clearance	0.33 m (1 ft 1 in)	0.37 m (1 ft 2.5 in)
Fuel tank capacity	64.35 L (17 gal)	132.5 L (35 gal) (diesel) 90.9 L (20 gal) (gas)
Weight	7,756 kg (17,100 lbs)	10,049 kg (22,155 lbs)
Hydraulic tank capacity	68.14 L (18 gal)	132.5 L (35 gal)
Engine(s)	24.8 hp (18.5 kW) Kubota, diesel, T4f D1105 <i>(compatible with standard diesel fuel outside the US)</i>	48 hp (35.79 kW) Deutz, diesel, T4f D2.9L4 48 hp (35.79 kW) Perkins, diesel, T4f 404F-22 60 hp (45 kW) Ford, gas/LPG, MSG425
Sound pressure level (ground workstation)	77 dBA	84 dBA
Sound pressure level (platform workstation)	72 dBA	75 dBA
Vibration	0.553 m/s <sup>2</sup> (1.81 ft/s <sup>2</sup> )	<2.5 m/s <sup>2</sup> (<8 ft 2 in/s <sup>2</sup> )
Turntable tailswing (riser down)	0.81 m (2 ft 8 in)	Zero
Turntable tailswing (riser up)	0.58 m (1 ft 11 in)	Zero
Charge time with 110V	16 hrs	NA
Charge time with 220V	14 hrs	NA
Charge time with onboard generator	4 hrs	NA

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