

**BID SUBMITTAL FORM**  
**Alabama County Joint Bid Program**  
**BID ITEM – HIGHWAY SPEED TRUCK MOUNTED EXCAVATOR - 4WD**

Company Name: Tractor & Equipment Company  
Address: P.O. Box 12326  
Birmingham, AL 35212  
Bid Submitted by: Andrey McMillan Jr.  
(Name of company representative)  
Title: V.P. E-mail address: amcmillan@TEC1943.com  
Phone: 205-591-2131 Fax: 205-591-8321

By submitting this bid, we agree:

Initials

The equipment model number identified below meets the bid specs for this bid item

Am

That the bid price will be honored for all counties for the period from Jan. 1, 2022 to Dec. 31, 2022.

Am

The equipment will be delivered at the bid price to all counties participating in the joint bid program

Am

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program

Am

The bid is accompanied by a current catalog or model specification document for the model number identified below

Am

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications

Am

The bid includes the e-verify documentation required by Alabama law

Am

If awarded the bid, a performance bond will be provided upon request

Am

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine**

Am

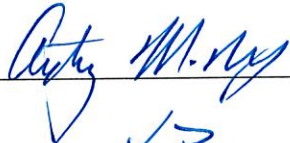
Total Bid Price for Standard Machine: \$ 313,200<sup>00</sup>  
(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)\*

Freight Preparation and Delivery: \$ 4,500<sup>00</sup>  
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 338,350<sup>00</sup>

Equipment Model #: Gradall D174

Description: Hwy speed excavator 4wd.

Signature of company representative submitting bid: 

Title: V.P.

\* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

## BID SUBMITTAL FORM: OPTION COST SHEET

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine\*

AN

The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) with **any available Options** for the Standard Machine

AN

Equipment Model #: Gradall D174

Description: Hyd Spd excavator 4wd.

Signature of company representative submitting bid: 

Title: V.P.

**\*Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

## HIGHWAY SPEED TRUCK MOUNTED EXCAVATOR - 4WD

### GENERAL:

It is the intent of this specification to describe a carrier mounted, single engine, full hydraulic telescoping boom excavator capable of excavating, grading, sloping, backfilling, etc., equivalent to a **Gradall model**

**D174-D154.** The unit shall be current production and the manufacturer's printed literature shall be submitted with the bid.

The excavator shall consist of a revolving upper-structure mounted on a rubber-tired highway speed carrier complete with remote control as follows:

### Rotating Structure

The Upper-structure shall be supported on the carrier by an internal swing bearing and shall be capable of continuous swing at not less than **8 RPM**. The counterweight shall weigh not more than **4,500 pounds** and the tail swing shall not exceed **6' 7"**. The swing system shall incorporate a spring set, hydraulic release swing parking brake. Anti-slip paint is required on all walking surfaces.

Yes ☒ No ☐  
Page # 2

### Boom

The boom shall be triangular in cross section and shall consist of a main section and a telescoping section. Adjustable boom rollers shall be furnished on both boom sections. The telescope section shall be equipped with pin-on buckets and shall telescope hydraulically through a distance of not less than **10' 3"**. The boom assembly shall be supported by a cradle that provides for the tilt of the entire boom assembly and attachment through an arc of not less than **220°** about its longitudinal axis. The boom shall rise through an arc of not less than **30°** and lower not less than **60°**. The attachment shall open and close through an arc of not less than **165°**.

Yes ☒ No ☐  
Page # 1-2

### Hydraulic System

Power for the hydraulic system shall be supplied by the carrier engine. There shall be one-piston pump providing not less than **58 GPM @ 3800 PSI**. The pump shall be engaged with a PTO to the transmission. The system shall provide for simultaneous boom, swing and remote functions, quick disconnect type pressure check ports, minimum **51 HP** swing motor, minimum **21 HP** tilt motor and appropriate relief valves, oil cooler and filter with service indicator. The pressurized reservoir shall be of minimum **62-gallon** capacity and shall be equipped with sight level gauges. System operating pressure shall not exceed **3,800 PSI**.

Yes ☒ No ☐  
Page # 1



## Cab & Controls

The operator's cab shall be all weather with safety glass windows and skylight. The cab shall be complete with front window that rolls overhead for storage, wiper washer, AC, AM/FM radio, four-way adjustable seat, acoustical treatment, signal horn, filtered heater and defroster. The controls shall be self-centering dead-man type consisting of 2 electronic joysticks mounted on the armrests. Engine controls shall include key type ignition switch with neutral start and throttle. There shall be warning lights for low air, low DEF, engine maintenance, hydraulic filter condition and level. There shall be an automatic engine shutdown for low oil pressure or high coolant temperature. Remote carrier propels, steering and automatic digging brake shall be controlled by two-foot pedals and two joystick mounted switches. The hydraulic remote-control system shall be complete with an emergency brake control and travel alarm.

Yes ☒ No ☐  
Page # 1

## Carrier

The carrier shall be a **4x4** rubber tired type, **8' 6"** wide with a **36,200-lb.** gross vehicle axle weight rating. The frame shall be the manufacture's standard, reinforced with Steel frame insert (**1/4" full C-channel**) from beyond the front spring hanger in the front and extending throughout the total length of the frame to the rear. There shall be a separate sub-frame for Upper-structure mounting. The wheelbase of the unit shall be a minimum of **15' 10"** and the frame width a minimum of **34"**. There shall be a minimum **80-gallon** fuel tank and a minimum **13-gallon DEF tank**. The carrier shall be equipped with transmission operated remote control.

Yes ☒ No ☐  
Page # 3

## Engine

The carrier shall be powered by current emissions certified "Clean Idle" liquid cooled turbo charged air after cooled diesel engine with a minimum <sup>360</sup>~~250~~ **HP @ 1500** <sup>2300</sup>~~2300~~ **RPM**. The engine shall be equipped with an ~~exhaust~~ <sup>brake</sup>, an electric grid air warmer, two stage dry type air cleaner, spin on fuel filter, oil filter. The electrical system shall be 12-volt and incorporate a **160-amp** alternator.

Yes ☒ No ☐  
Page # 1

## Transmission

The carrier shall be equipped with a **5-speed** Automatic transmission, Allison 3500RDS, having **5 forward** speeds and **1 reverse** speed. Max road speed shall be **55 mph**.

Yes ☒ No ☐  
Page # 2

## Axles and Suspension

The front axle shall be rated at <sup>14,700</sup>~~13,000~~ **lb.** minimum. The front suspension shall be leaf type and shall be complete with automatic lockout cylinders.

Yes ☒ No ☐  
Page # 2

The rear axle shall be rated at **23,000 lb.** minimum with a **6.43 ratio** and single reduction. The axle shall be equipped with a cab controlled differential lock.

Yes ☒ No ☐  
Page # 2

### Brakes

The carrier shall be equipped with anti-lock braking system to include four-wheel cam type air brakes and automatic slack adjusters. The system shall include spring set brakes incorporating emergency and parking brakes on the rear axle. The system shall include a minimum **18.7 C.F.M.** air compressor and desiccant type air dryer with automatic purge valve and thermostatically controlled heater.

Yes ☒ No ☐  
Page # 2

### Wheels and Tires

The wheels shall be 10-stud hub piloted disc. The front tires shall be **M/S11R22.5 14 ply** with mud and snow traction tread. The four rear tires shall be **M/S11R22.5 14 ply** with mud and snow traction tread.

Yes ☒ No ☐  
Page # 2

### Steering

Carrier steering shall be integral hydraulic power steering.

Yes ☒ No ☐  
Page # 2

### Cab

The carrier cab shall be a two man, isolation mounted cab. The cab shall include a driver's high back air suspension seat, a basic high back non-suspension passenger seat, **3 point** high visibility orange driver and passenger seat belts, adjustable tilt and telescoping steering column, tinted safety glass windows, acoustical lining, and heater/defroster and Air Conditioner. Both side windows must open for ventilation and be adjustable.

Yes ☒ No ☐  
Page # 1

The cab instrument panel shall include the following equipment: Gauges for oil pressure, coolant temperature, dual air tank pressures, fuel level, indicator for DEF level, low DEF level warning light/alarm, voltmeter, hour meter, speedometer and odometer and intake air restriction indicator. The carrier shall be complete with electronic cruise control, AM/FM radio, headlights, tail lights, stoplights, back-up lights, identification light clusters, turn indicators, hazard warning, electric windshield wiper and washer, back-up alarm and plain and convex mirrors on both sides.

Yes ☒ No ☐  
Page # 1-2

## Operating Weight

Working weight, including 60" excavating bucket and half-full fuel tanks shall exceed 34,500 pounds.

Yes ☒ No ☐  
Page # 3

## Digging Specifications with 60" Excavating Bucket

Maximum Digging Depth: ..... 13' 0"  
Maximum Surface Reach: ..... 24' 9"  
Boom Tilt (Total Arc/CW Arc/CCW Arc): ..... 220°/110°/110°  
Minimum Reach (Cleanup - Bucket level, ground level boom retracted): ..... 6' 5"  
Maximum Digging Depth (8' level bottom): ..... 12' 5"  
Minimum Boom Arc: ..... +30°, -60° level  
Tail Swing: ..... 6' 7"  
Maximum Height with Bucket Below ground level: ..... 14' 7"  
Maximum Loading Height ..... 16' 10"  
Bucket Pivot ..... 165°

Yes ☒ No ☐  
Page # 3

## Lifting Capacity without bucket, at ground level

|                         | Over-End   | Over-Side  |
|-------------------------|------------|------------|
| 15' 0" Radius .....     | 4,760 lbs. | 4,760 lbs. |
| 20' 0" Radius .....     | 3,365 lbs. | 3,365 lbs. |
| 22' 9" Max Radius ..... | 2,950 lbs. | 2,950 lbs. |

Yes ☒ No ☐  
Page # 3

## Travel Dimensions with 60" Excavating Bucket

Width ..... 8' 6"  
Height with bucket ..... 12' 9"  
Length ..... 27' 1"

Yes ☒ No ☐  
Page # 3

The equipment shall be capable of performing all functions without the use of outriggers.

Yes ☒ No ☐  
Page # 3



★ GRADALL ★

**DISCOVERY**

SERIES



**HIGHER PRODUCTIVITY**  
**WITH A LOWER EQUIPMENT INVESTMENT**

Crossover Hydraulic Excavators for Governments  
and Specialty Contractors



## THE FIRST CROSSOVER HYDRAULIC EXCAVATOR

**G**radall Industries introduces the cost-effective solution for governments and contractors who need to do more work with fewer machines on tight budgets.

Gradall's Discovery Series<sup>®</sup> excavators... the first crossover hydraulic excavators... combining the legendary benefits of Gradall's trademark full-tilting, telescoping boom with the proven over-the-road performance of a Freightliner chassis. All combined in one highly productive, cost-efficient package.

Working closely with Freightliner, Gradall engineers have specifically designed Discovery Series Gradall excavators to deliver reliable, purpose-designed multi-task workhorses that are available only through Gradall distributors - and at a surprisingly low cost.



DESIGNED AND BUILT WITH  
AMERICAN INGENUITY

### BENEFITS OF THE CROSSOVER:

- Compact, efficient design
- Short turning radius to work in tight areas
- Proven Freightliner chassis
- Full-size cabin with modern design
- Simplified and integrated electrical and hydraulic systems

## EXCEPTIONAL MOBILITY...

...A LEGENDARY GRADALL ADVANTAGE TAKES A GIANT STEP FORWARD

**F**rom their earliest days, highway speed Gradall excavators impressed governmental entities and contractors because they could be driven by the operator. Travelling to jobsites at highway speeds, Gradalls get to work and then back to the safety of the equipment yard faster - all without the hassle and expense of a truck and a lobby trailer.

Discovery Series models continue that tradition by integrating a popular Freightliner truck chassis with a highly productive Gradall excavator superstructure. Operators are immediately comfortable driving Discovery Series excavators, and even repositioning them without leaving the superstructure cab.

### GRADALL ON-THE-ROAD:

- Get to jobsites quickly via interstate highways, city streets and county roads
- No time lost to loading and transporting
- Convenient, productive repositioning from superstructure cab
- Reliable Freightliner trucks are preferred by many governmental fleets







## THE GRADALL BOOM...

...carving out a worldwide reputation for versatility.  
Now available in a high-value, budget-conscious design.

**G**radall's legendary boom design efficiently positions attachments to achieve more productivity faster on a wider range of jobs. In effect, you can use just one machine to do the work of a backhoe, grader, excavator and a host of manual laborers.

The entire boom tilts 220° without sacrificing boom power – a common problem with conventional mini excavators using rotating boom-end devices.

The rugged Gradall Discovery Series excavator has a strong boom with two overlapping sections that telescope out to 24 feet, 11 inches at grade – more reach and range than can be achieved with a tractor loader or compact excavator.

Plus, Discovery Series models benefit from the famous Gradall low-working-profile advantage. That's a low minimum working height that fits neatly under bridges, in tunnels, under trees and signage and into other low-overhead locations.

These are Gradall work sites where conventional digging machines simply cannot fit. Jobs conventional alternatives cannot reach. And machines with travel capabilities that simply don't compare.

### GRADALL BOOM MOVEMENTS:

- Entire boom tilts 220° for full boom and bucket force
- Telescope to 24' 11" at grade
- Swing left and right
- Dig down at a 60° angle
- Raise up for truck loading and material placement
- Low working profile under bridges, trees and in tunnels





# MORE DIG FOR THE DOLLAR

## DESIGNED INTO EVERY DETAIL

### CHASSIS CAB

- Freightliner accommodates operator and passenger.
- Ergonomically designed interior with extra sound-deadening.
- Standard convenience features include dual reading lights, cruise and adjust side-folding, and telescoping steering column release.

### CHASSIS DESIGN

- Reinforced chassis with a modified suspension, especially designed for a collaboration between Gradall and Freightliner engineers.
- Travel at highway speeds.
- All-in-5 speed automatic transmission.
- Reverse for neutrals.
- Up to a 55-degree wheel cut, providing excellent curb-to-curb maneuverability.
- Powered by a small Cummins 240ci engine - 50-state legal.
- Fully supported by Freightliner distribution network.

### TYPICAL APPLICATIONS:

- Pitching
- Grading
- Culvert replacement
- Landscaping
- Mowing
- Vegetation control
- Curb, gutter, sidewalk replacement and removal

### BOOM

- Full boom lifts 229.
- Reduced power to attachment lifting capability.
- Rugged 24" telescoping boom.
- Low working profile under bridges, trees and in tunnels.
- Full selection of attachments.
- Full length boom stability during the entire dig cycle unlike conventional boom.
- Bucket capacity up to 1 yard with 60-inch ditching bucket.
- Fast cycle times - ditching, loading and spreading.



### EXCAVATOR

- Short tail swing turn function for traffic in narrow roads.
- Stable, without the need for outriggers.
- All hydraulic remote drop system for positioning the chassis.
- No need for excavator engine.

### OPERATOR CAB

- Choose the Gradall, Deere or SAE payload pattern using arm, cab switch.
- Quiet, roomy cab with comfortable seating models.
- Excellent job site visibility.
- Standard air conditioning.

### ADVANCED SYSTEMS

- Superior Bosch Rexroth design and reliability.
- All new modern high pressure hydraulic system is electronically controlled with pressure compensated load sensing valves.
- Combined hydraulic system for chassis and excavator delivers organized effective operation.



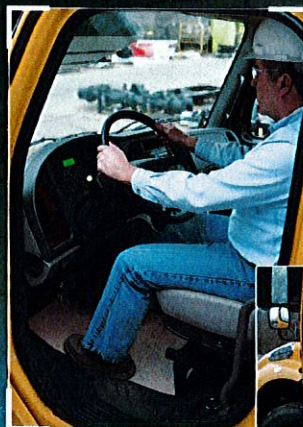


## CABS DESIGNED FOR COMFORT AND EFFICIENCY

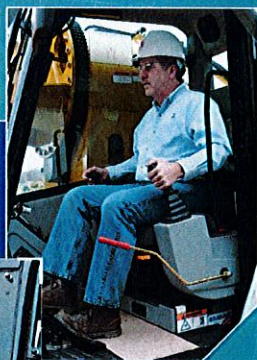
### OPERATOR CAB

- All-electric joystick control system allows the operator to reposition the upper structure and boom.
- Monitor for critical functions is easy to read and reach.
- High visibility cab has plenty of glass and exterior mirror to see job site.
- Wide door and conveniently placed grab handles both inside and out make cab entry and exit easier.
- Standard comfort and convenience features like heating, air conditioning, and a storable front window.
- In cab system lets operator choose Grapple Discovery SAE joystick pattern, expediting familiarity.
- During repositioning, accelerate up to 7 mph and brake with foot pedals.

**D**riving from one jobsite to another can be done comfortably and efficiently in a popular Freightliner chassis cab. The spacious environment accommodates a driver and a passenger with a range of preferred features.

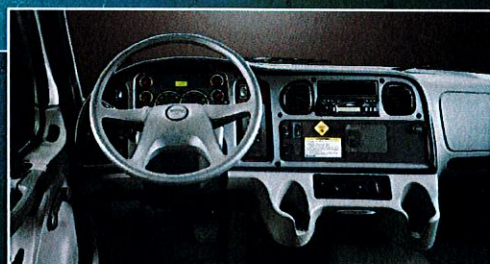


**S**pacious operator cab in the excavator upperstructure provides a comfortable, productive working environment. Cab features easy accessibility, joystick controls that are integrated into the seating module, excellent visibility and a removable front window for fresh air as well as ease in monitoring the sounds on the job site.



### CHASSIS CAB

- Freightliner day cab with air ride driver seat and fixed passenger seat.
- Plenty of head and elbow room, under and fender doors and non-slip steps for easy entry and exit.
- Multiple exterior handles.
- Ergonomically designed interior has an automotive style that's easy to read LED back. It's also easy to reach controls.
- Standard convenience features including adjustable steering column, dual foot pedals, cruise control and radio.



- Extensive interior insulation reduces noise and vibration, protecting against the elements.
- Excellent air flow throughout cab with advanced heating and air conditioning system.
- Large 2.55 sq. ft. front window, 3.5 sq. ft. side window, 3.5 sq. ft. rear window and 3.5 sq. ft. side window, all equipped with the built-in sun shades.
- 24TS A-cushion high visibility seat belt.





### DISCOVERY SERIES MODEL OPTIONS:

- Passenger side door step
- Rear step
- Auxiliary hydraulics

GRADALL MODEL D152 4X2 & D154 4X4 LIFT CAPACITY OVER SIDE OR REAR - LB. (KG)

| LOAD POINT HEIGHT        |                             | LOAD RADIUS    |                |                |                |                |                |
|--------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                          |                             | 15' 0" (4.6 M) |                | 20' 0" (6.1 M) |                | MAXIMUM RADIUS |                |
|                          |                             | OVER END       | OVER SIDE      | OVER END       | OVER SIDE      | OVER END       | OVER SIDE      |
| ABOVE<br>GROUND<br>LEVEL | 19' 1" (5.8 M)              |                |                |                |                | 3000<br>(1360) | 3000<br>(1360) |
|                          | 15' 0" (4.6 M)              | 4660<br>(2115) | 4660<br>(2115) | 3180<br>(1440) | 3180<br>(1440) | 2880<br>(1305) | 2880<br>(1305) |
|                          | 10' 0" (3.0 M)              | 5390<br>(2445) | 5390<br>(2445) | 3530<br>(1600) | 3530<br>(1600) | 2880<br>(1305) | 2880<br>(1305) |
|                          | BOOM LEVEL<br>8' 8" (2.7 M) | 5490<br>(2490) | 5490<br>(2490) | 3580<br>(1625) | 3580<br>(1625) | 2885<br>(1310) | 2885<br>(1310) |
|                          | 5' 0" (1.5 M)               | 5480<br>(2495) | 5480<br>(2495) | 3615<br>(1640) | 3615<br>(1640) | 2905<br>(1320) | 2905<br>(1320) |
| AT GROUND LEVEL          |                             | 4760<br>(2160) | 4760<br>(2160) | 3365<br>(1525) | 3365<br>(1525) | 2950<br>(1340) | 2950<br>(1340) |
| BELOW<br>GROUND<br>LEVEL | 5' 0" (1.5 M)               | 3690<br>(1675) | 3690<br>(1675) |                |                | 2955<br>(1340) | 2955<br>(1340) |
|                          | 10' 0" (3.0 M)              | 2695<br>(1220) | 2695<br>(1220) |                |                | 2690<br>(1220) | 2690<br>(1220) |
|                          | 10' 9" (3.3 M)              |                |                |                |                | 2580<br>(1170) | 2580<br>(1170) |

**NOTE:** The above loads are in compliance with the SAE standard J197 (FEM-195). They do not exceed 37.5% of hydraulic lifting capacity at 75% of pump pressure.

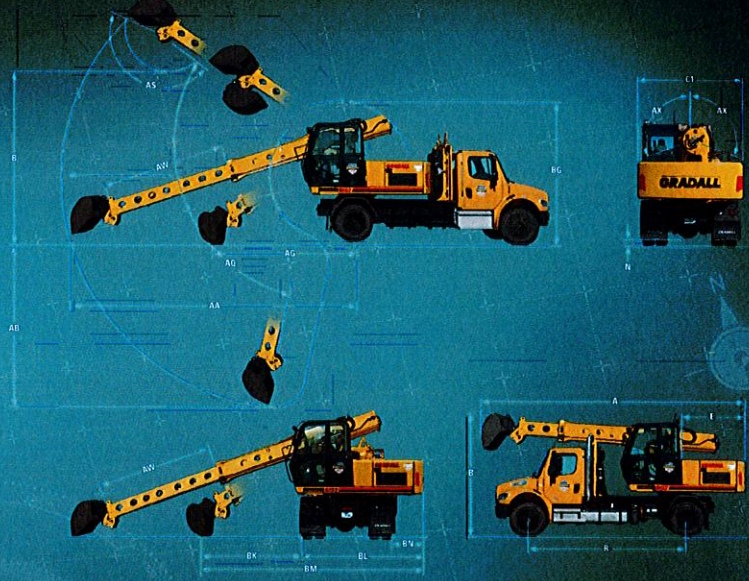
The rated lift capacity is based on the machine being equipped with counterweight, standard boom, standard tires, no auxiliary hydraulics, and no bucket. Add the listed rated capacities by subtracting the value for bucket attachment used.

8215-6006-60 (1.52 m) Ditching: 269 lbs. (122 kg)  
6215-6006-36 (0.91 m) Excavating: 269 lbs. (122 kg)

**NOTE:** Bucket adjustment values are 4.7% of the rated bucket weights. The load is not included on the bucket pivot point, including load lifted for maximum values.

Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

**ATTENTION:** All rated loads are based on the machine being stationary and on a firm support surface. For safe working loads, the user must make allowance for particular job conditions such as: extra moving and/or lifting conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must fully acquaint themselves with the Operator's Manual furnished by the manufacturer before operating this machine. Rules for safe operation of equipment must be followed at all times.



### Shown with 8215-6006 60" (1.52 m) ditching bucket

|    | 4 x 2             | 4 x 4             |  |
|----|-------------------|-------------------|--|
| A  | 27.1' (8.3 m)     | 27.1' (8.3 m)     | Over all length (boom, bucket, with bucket)              |
| B  | 12.5' (3.7 m)     | 12.9' (3.9 m)     | Over all length (boom, bucket, with bucket)              |
| C1 | 6.6' (2.0 m)      | 7.6' (2.3 m)      | Width of upper structure                                 |
| E  | 6.7' (2.0 m)      | 6.7' (2.0 m)      | Sizing clearance, rear of bucket structure               |
| N  | 10' (3.0 m)       | 10' (3.0 m)       | Ground clearance (S&H 1221)                              |
| R  | 19.1' (5.8 m)     | 19.1' (5.8 m)     | Wheel base   |
| AA | 24.1' (7.3 m)     | 24.9' (7.6 m)     | Maximum wheel ground line (18.5' pivot)                  |
| AB | 13.6' (4.1 m)     | 13.6' (4.1 m)     | Maximum digging depth (18.5' pivot)                      |
| AG | 11.4' (3.5 m)     | 11.9' (3.6 m)     | Minimum level cut radius with bucket flat on ground line |
| AO | 30° up & 60° down | 30° up & 60° down | Boom pivot angle   |
| AS | 18°               | 18°               | Bucket pivot angle                                       |
| AW | 10° up & 1° down  | 10° up & 1° down  | Tilt/steering boom/truck                                 |
| AX | 11°               | 11°               | Bucket tilt angle, flat's radius of center               |

|    | 4 x 2          | 4 x 4          |  |
|----|----------------|----------------|--|
| BD | 16.4' (5.0 m)  | 16.10' (4.9 m) | Minimum clearance, ditch/bucket, with bucket pivot at maximum height |
| BG | 14.1' (4.3 m)  | 12.7' (3.9 m)  | Maximum height of working equipment with bucket flat, ground line    |
| BK | 6.8' (2.0 m)   | 6.7' (2.0 m)   | Minimum bucket height  |
| BL | 10.8' (3.3 m)  | 10.4' (3.2 m)  | Sizing clearance   |
| BM | 17.11' (5.2 m) | 17.7' (5.4 m)  | Maximum machine width at ground level                                |
| BN | 19' (5.8 m)    | 19' (5.8 m)    | Maximum side swing clearance   |

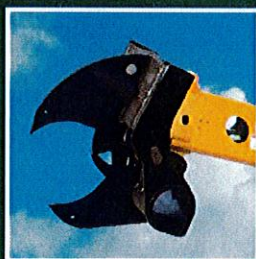
**Rated boom force:**  
16,355 lb (7370 kg)

**Rated bucket breakout force:**  
11,200 lb (5074 kg)

**Weight:**  
Approximate working weight, including 400' (124 m) bucket  
Fuel tank full (40 gal) 241 kg (530 lb) (113.7 kg)  
241 kg (530 lb) (113.7 kg)

operator always subject to change without notice





## Get an even greater **RETURN ON YOUR INVESTMENT** combining designed-in Gradall versatility with a range of **ATTACHMENTS**

**G**overnmental entities as well as small and specialty contractors will appreciate their return on investment, thanks to Gradall's famous designed-in versatility and a host of attachments.

Not only can you drive your Discovery Series excavator quickly from one site to another, our attachment design lets you perform one or more jobs – ditching, concrete and asphalt repair, mowing and culvert replacement – in a single day.

High-pressure, load-sensing hydraulics adjust automatically to deliver the power you need to handle various jobs while also conserving fuel. Optional auxiliary hydraulics at the boom end further extend the range of available attachments.

### TYPICAL ATTACHMENTS:

- Ditching Bucket  
8215-6009 • 60" (1.52 m)
- Pavement Removal Bucket  
8215-6004 • 24" (0.610 m)
- Excavating Bucket  
8215-6008 • 36" (914 mm)
- Rotary Mower  
8215-5005 • 50" (1.27 m)
- Flail Mower  
8215-5006 • 40" (1.02 m)
- Fixed Thumb Grapple  
8215-5003
- Tree Limb Shear  
8215-5004

# GRADALL

406 Mill Ave. SW, New Philadelphia, OH 44663

**330.339.2211 • GRADALL.COM/DISCOVERY**

**FREIGHTLINER**

It is Gradall's policy to continually improve its products. Therefore, design, materials and specifications are subject to change without notice and to the extent assuming any liability, we, Gradall, disclaim any liability for such changes without notice. See applicable specifications and price lists for optional equipment.

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**A** FLATCO GROUP

**IMAKE  
AMERICA**

**NIPA AWARDED**

**HGACBuy**



# GRADALL®

## D174

CROSSOVER  
HYDRAULIC  
EXCAVATOR



## SPECIFICATIONS

### Engine

- Cummins ISB 6.7, 660 ft lb Torque @ 1600 rpm, 300 hp @ 1600 rpm

**Intake:** Electric grid air warmer

#### Air Filter

- 2-stage dry type with safety element, ejector valve and service indicator

#### Electrical System

- 12 volt, 160 amp alternator with integral voltage regulator, 2 SAE Group 31 1900 CCA batteries

**Fuel Tank Capacity:** 80 gal (303 L)

**DEF Tank Capacity:** 13 gal (49 L)

**Gear Speeds** (with 11R22.5 tires)

| Gear  | 1      | 2      | 3      | 4      | 5    | REV    |
|-------|--------|--------|--------|--------|------|--------|
| MPH   | 10.6   | 21.7   | 31.6   | 48.7   | 60   | 9.74   |
| Km/hr | (17.0) | (34.9) | (50.9) | (78.4) | (97) | (15.2) |

### Upperstructure Cab

- All-weather cab isolated from frame on rubber mounts
- Tinted safety glass windows
- Skylight
- Acoustical lining
- Four-way adjustable seat
- Dome light
- Filtered air heater and defroster
- Air conditioning
- AM/FM radio
- Heat source is provided by a fast response, closed circuit hydraulic heater with 20,000 BTU/Hr. capacity
- Front window slides to overhead storage
- Rearview mirrors on right and left sides of the machine
- Windshield wiper and washer
- Operator's seat belt

### Upperstructure Controls

- Two electronic joysticks control (hoist, bucket, telescope and swing)
- One rocker switch (tilt) control
- Joysticks are mounted on arm pods that are adjustable for individual operator comfort and convenience
- Quick change joystick pattern using interactive display
- Two foot pedals for remote control of undercarriage travel and brakes
- Steering is handled with a rocker switch on top of the left hand joystick
- Self-centering joysticks and panels; when controls are released, power for movement disengages and swing and travel brakes set automatically

#### System Monitor

- Top selector buttons include
  - Joystick pattern, hour meter and indicator lamps
- Bottom selector buttons include
  - Engine speed control, auto idle select
  - A/C on select and heater temperature control

#### The display shows as follows

- Park brake
- Low air brake pressure
- Malfunction indicator lamp (mil)
- Hydraulic oil level warning
- Hydraulic oil filter warning
- Engine stop lamp
- Amber warning lamp (engine)
- Wait to start lamp
- Diesel particulate filter lamp
- High exhaust system temperature
- Engine speed
- Fuel level
- DEF level
- Transmission gear request
- Transmission gear status
- Transmission oil temp
- Hydraulic oil temp
- Mode status (travel/remote)
- Check transmission lamp and cab blower fan

### Boom

- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 220° boom tilt
- 105° boom pivot angle

### Hydraulic System

#### Pumps

- One load-sensing bent axis piston pump; 0-58 GPM (0-219 L/min) total

#### SYSTEM SPECIFICATIONS

##### Four Double Acting Cylinders

- 2 hoist cylinders: 3.25" bore x 2.25" rod x 28.5" stroke (83 mm x 57 mm x 724 mm)
- 1 tool cylinder: 4.5" bore x 2.5" rod x 18.88" stroke (114 mm x 63.5 mm x 479 mm)
- 1 boom cylinder: 3.25" bore x 2.25" rod x 123" stroke (83 mm x 57 mm x 3124 mm)

##### Two Hydraulic Motors

- Swing, 51 hp (38kW); Tilt, 21 hp (16kW)

##### Operating Pressures

- Hoist.....3,800 psi (262 BAR)
- Tilt.....2,500 psi (172 BAR)
- Swing.....3,800 psi (262 BAR)
- Tool.....3,800 psi (262 BAR)
- Telescope.....3,800 psi (262 BAR)
- Pilot system.....550 psi (38 BAR)

##### Oil Capacity

- Reservoir 62 gallons (235 L)
- System 68 gallons (257 L)
- Pressurized reservoir with visual oil level gauge

##### Filtration System

- 5 micron return filter
- 10 micron pilot filter
- Fin and tube-type oil cooler with thermostatically controlled cooling fan
- Pressure-compensated, load-sensing valves with circuit reliefs in all circuits

D174 CROSSOVER HYDRAULIC EXCAVATOR



## Undercarriage

- 4 x 4
- Wheelbase: 190" (4.83 m)
- Width 102" (2.6 m)

### Transmission

- Allison 3500 RDS automatic

### Gross Vehicle Axle Weight Rating

- 36,200 lb (16,420 kg)

### Front Axles

- 13,200 lb (5,987 kg) rating

### Rear Axle

- 23,000 lb (10,433 kg) rating 6.43 ratio
- Single reduction with driver controlled differential lock.

### Suspension

- Front: leaf springs with automatic lock-out cylinders
- Rear: solid mount

### Brakes

- Front: Meritor "Q" Series
  - Cam-Master Size: 16.5" x 5" (419 mm x 127 mm)
  - ABS Brakes
  - Automatic slack adjusters.
- Rear: Meritor "P" Series
  - Cam-Master Size: 16.5" x 7" (419 mm x 178 mm)
  - Automatic Slack Adjusters
- Spring brake system incorporates emergency and parking brakes on the rear axle

### Wheels

- Hub piloted disc 10-stud
- 11.25" (286 mm) bolt circle

### Tires

- Front: M/S11R22.5 16-ply mud and snow traction tread
- Rear: M/S11R22.5 16-ply mud and snow traction tread

### Steering

- Integral hydraulic power steering

### Standard Chassis Equipment

- Halogen headlights
- Tail lights
- Back-up lights and alarm
- Stoplights
- Identification lights front and rear
- Directional lights
- Four-Way hazard lights
- Front tow hooks
- Desiccant type air dryer with automatic purge valve

## Chassis Cab

- Two-person cab
- Sun visor
- Gauges for oil pressure
- Coolant temperature
- Air tank pressures
- Fuel level
- Def level
- Voltmeter
- Speedometer with odometer
- Tachometer
- Hour meter
- Engine and transmission monitor lights
- Engine shutdown controlled by engine electronics
- Indicator lights and controls for rear axle differential lock
- Park brake control
- Tinted safety glass
- Roll up and down windows
- Instrument panel lights
- Windshield wiper/washer
- West coast style mirror system with plane and convex mirrors

- Fresh air heater and defroster
- Thermostatically controlled heater
- Dome light
- Air suspension seat with seat belt both driver and passenger
- Key ignition switch with neutral start
- AM/FM bluetooth radio
- Dual electric horns
- Center storage console
- 12 volt power supply in dash
- Aluminum kick plates on insides of both chassis doors

## Swing

- Priority swing circuit with axial piston motor
- Planetary transmission

**Swing speed:** 8 rpm

### Swing Brake

- Automatic spring-set/hydraulic release wet-disc parking brake
- Dynamic braking is provided by the hydraulic system

## Hydraulic Remote Control

- Upperstructure powered by chassis hydraulics through PTO
- Travel and brake pedals in the upperstructure cab
- Steering controlled with left hand joystick
- Digging brakes and front axle lockout cylinders set automatically with travel pedal in neutral
- Parking brakes controlled by toggle
- Electrically operated alarm mounted on undercarriage signal remote control movement in either direction, reverse movement when driven from undercarriage cab

## GRADALL Model D154 4x4 Lift Capacity Over Side or Rear - LB. (kg)

| LOAD POINT HEIGHT  |                             | LOAD RADIUS    |             |                |             |                |             |
|--------------------|-----------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                    |                             | 15' 6" (4.7 m) |             | 20' 6" (6.2 m) |             | Maximum radius |             |
|                    |                             | Over End       | Over Side   | Over End       | Over Side   | Over End       | Over Side   |
| ABOVE GROUND LEVEL | 19' 7" (6.0 m)              |                |             |                |             | 3000 (1360)    | 3000 (1360) |
|                    | 15' 6" (4.7 m)              | 4660 (2115)    | 4660 (2115) | 3180 (1440)    | 3180 (1440) | 2880 (1305)    | 2880 (1305) |
|                    | 10' 6" (3.2 m)              | 5390 (2445)    | 5390 (2445) | 3530 (1600)    | 3530 (1600) | 2880 (1305)    | 2880 (1305) |
|                    | BOOM LEVEL<br>9' 2" (2.8 m) | 5490 (2490)    | 5490 (2490) | 3580 (1625)    | 3580 (1625) | 2885 (1310)    | 2885 (1310) |
|                    | 5' 6" (1.7 m)               | 5480 (2485)    | 5480 (2485) | 3615 (1640)    | 3615 (1640) | 2905 (1320)    | 2905 (1320) |
| AT GROUND LEVEL    |                             | 4760 (2160)    | 4760 (2160) | 3365 (1525)    | 3365 (1525) | 2950 (1340)    | 2950 (1340) |
| BELOW GROUND LEVEL | 4' 6" (1.4 m)               | 3690 (1675)    | 3690 (1675) |                |             | 2955 (1340)    | 2955 (1340) |
|                    | 9' 6" (2.9 m)               | 2695 (1220)    | 2695 (1220) |                |             | 2690 (1220)    | 2690 (1220) |
|                    | 10' 3" (3.1 m)              |                |             |                |             | 2580 (1170)    | 2580 (1170) |

**NOTE:** The above loads are in compliance with the SAE standard J1097 DEC2005. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

The rated lift capacity is based on the machine being equipped with 4,500 lb (2041 kg) counterweight, standard boom, standard tires, no auxiliary hydraulics and no bucket.

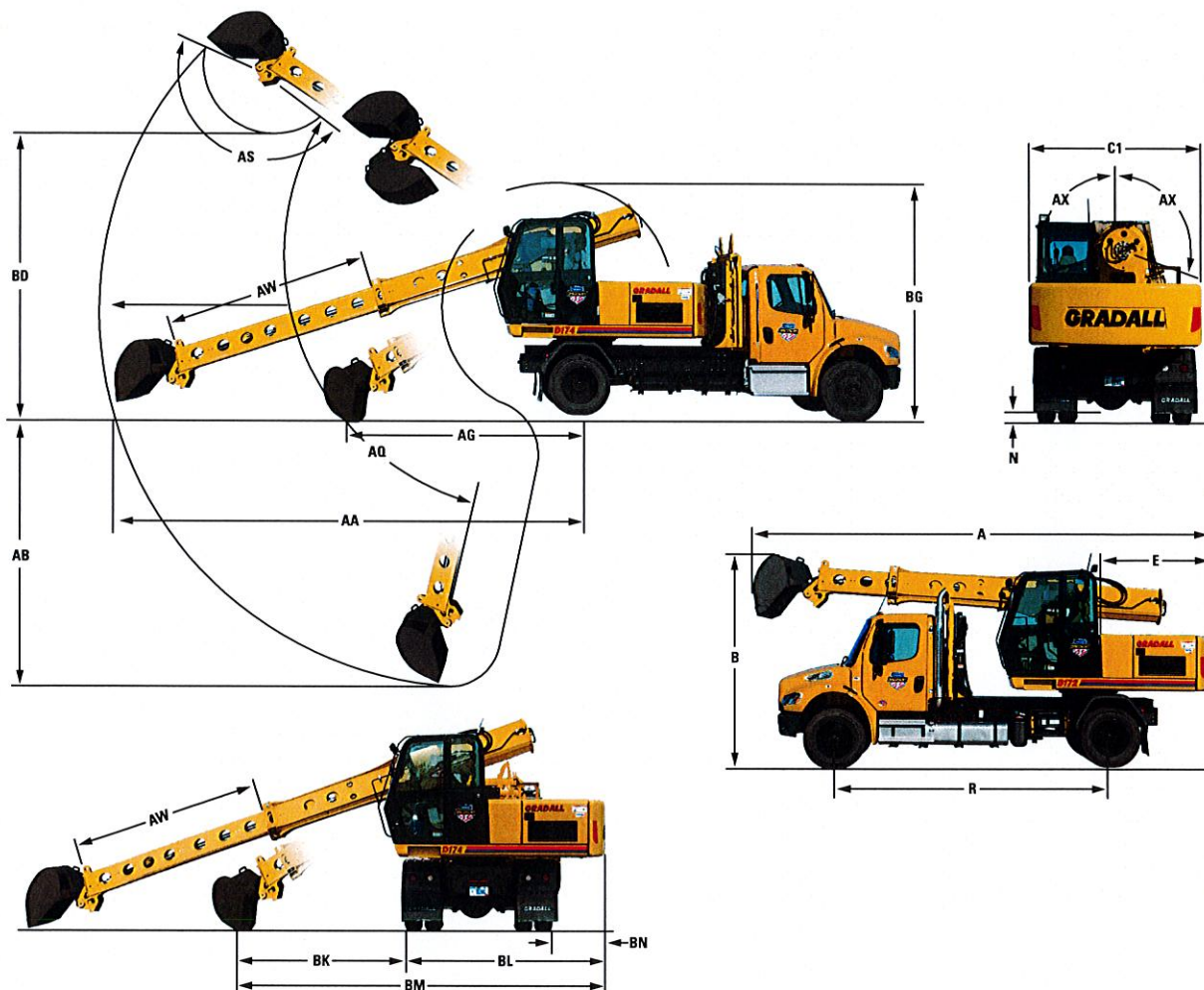
**NOTE:** Bucket adjustment values are 87% of the actual bucket weights.

The load point is located on the bucket pivot point, including load listed for maximum radius.

Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

**ATTENTION:** All rated loads are based on the machine being stationary and level on a firm supporting surface. For safe working loads, the user must make allowance for his particular job conditions such as soft or uneven ground, out of level conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must fully acquaint themselves with the Operator's Manual furnished by the manufacturer before operating this machine. Rules for safe operation of equipment must be adhered to at all times.





## Dimensions

### 4 x 4

|           |                   |  |
|-----------|-------------------|--|
| <b>A</b>  | 27'1" (8.3 m)     | Overall length (boom in rack) with bucket                |
| <b>B</b>  | 12'9" (3.8 m)     | Overall height (boom in rack) with bucket                |
| <b>C1</b> | 8'6" (2.6 m)      | Width of upperstructure                                  |
| <b>E</b>  | 6'7" (2.0 m)      | Swing clearance, rear of upperstructure                  |
| <b>N</b>  | 10" (254 mm)      | Ground clearance (per SAE J1234)                         |
| <b>R</b>  | 15'10" (4.8 m)    | Wheelbase  |
| <b>AA</b> | 24'9" (7.5 m)     | Maximum radius at ground line (165° pivot)               |
| <b>AB</b> | 13'0" (4.0 m)     | Maximum digging depth (165° pivot)                       |
| <b>AG</b> | 11'0" (3.4 m)     | Minimum level cut radius with bucket flat on ground line |
| <b>AQ</b> | 30° Up & 60° Down | Boom pivot angle   |

### 4 x 4

|           |                |  |
|-----------|----------------|--|
| <b>AS</b> | 165°           | Bucket pivot angle   |
| <b>AW</b> | 10'3" (3.1 m)  | Telescoping boom travel  |
| <b>AX</b> | 110°           | Bucket tilt angle (both sides of center)                               |
| <b>BD</b> | 16'10" (5.1 m) | Minimum clearance of bucket teeth, with bucket pivot at maximum height |
| <b>BG</b> | 14'7" (4.5 m)  | Maximum height of working equipment with bucket below ground line      |
| <b>BK</b> | 6'5" (2.0 m)   | Minimum bucket cleanup   |
| <b>BL</b> | 10'8" (3.3 m)  | Swing lane clearance   |
| <b>BM</b> | 17'7" (5.4 m)  | Minimum machine swing radius at ground level                           |
| <b>BN</b> | 30" (762 mm)   | Passenger side swing clearance   |

Specifications subject to change without notice.  
Metric units are meters (m) unless noted.  
Machines shown may have optional equipment.

## Function Forces

**Rated boom force:**  
16,387 lb (72.9 kN)

**Rated bucket breakout force:**  
11,400 lb (50.7 kN)

## Weight

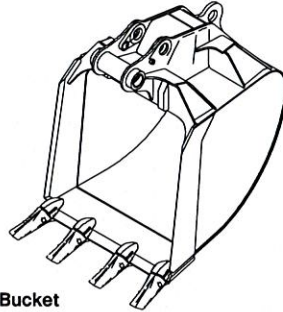
- Approximate working weight, including a 60" (1.54 m) bucket, fuel tank half full
- 4 x 4: 34,500 lb (15,650 kg)

## Optional Equipment

- Set of five working lights
- Passenger side door step
- Auxiliary hydraulics
- Rear step

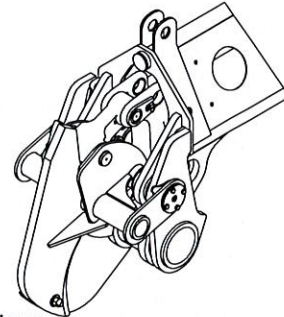
## Attachments

- Buckets fabricated of steel plate, with high strength, low alloy cutting edges and wear strips
- Standard attachments available for wide range of applications



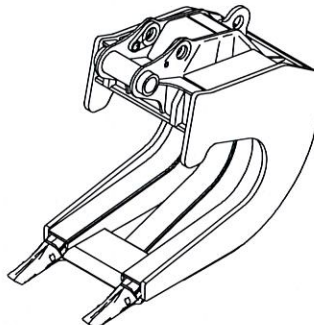
**Excavating Bucket**

|           |                  |                 |                |
|-----------|------------------|-----------------|----------------|
| 8215-6008 | 36" (914 mm)     | yd <sup>3</sup> | m <sup>3</sup> |
|           | 785 lbs (356 kg) | 5/8             | 0.54           |



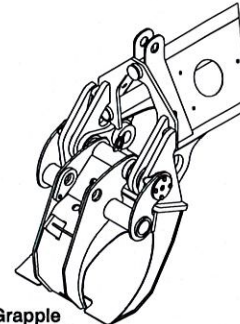
**Tree Limb Shear**

8215-5004 770 lbs (349 kg)



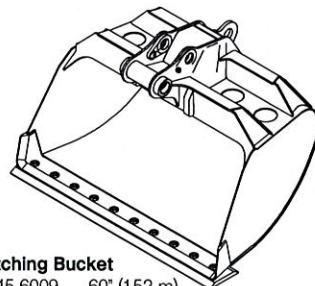
**Pavement Removal Bucket**

8215-6004 24" (0.610 m)  
1284 lbs (582 kg)



**Fixed Thumb Grapple**

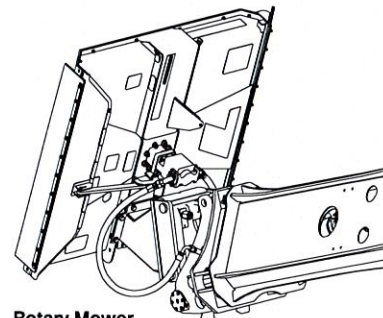
8215-5003 530 lbs (240 kg)



**Ditching Bucket**

8215-6009 60" (1.52 m)  
784 lbs (356 kg)

8215-5001 60" (1.52 m)  
914 lbs (415 kg)



**Rotary Mower**

8215-5005 50" (1.27 m)  
1290 lbs (585 kg)

**Flail Mower**

8215-5006 40" (1.02 m)  
1053 lbs (478 kg)

It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

# GRADALL®

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**A** ALAMO GROUP **GRADALL**  
INDUSTRIES, INC.  
Flow Agency Work

Form No. 12002 3/20  
Printed in USA



# GRADALL® LIMITED WARRANTY

Gradall Industries, Inc. d/b/a Gradall ("Gradall") will repair or replace, at its option, any factory-installed part that is defective in materials or workmanship under normal use. Any needed part replacements will be made using new or remanufactured parts. This Limited Warranty is limited to repairing or replacing, at Gradall's option, any part proven defective under normal use; provided that the product has been properly registered with Gradall within thirty days after the in-service date and that all required reports are current. The warranty period begins on the product's in-service date, which is the first date the unit is either delivered to an end-user (the "Owner"), for purchase, rental or lease.

**THIS WARRANTY EXTENDS ONLY TO THE ORIGINAL PURCHASER FROM GRADALL INDUSTRIES, INC. AND IS NON-TRANSFERABLE.**

The Owner is responsible for all normal preventative maintenance and scheduled maintenance as detailed in the machine's Operator and Safety Manual. The Owner is also responsible for:

- Keeping the Operator and Safety Manual available to the operator of the product.
- Using the product in accordance with the Operator and Safety Manual.
- Releasing the product for warranty work.
- Reporting accidents immediately to Gradall.
- Using the product for safe, approved applications and using only approved accessories.
- Complying with factory initiated Field Campaigns.
- Using only approved components for maintenance and replacement parts.
- Ensuring that the operator of the product has been properly trained in the safe and proper use of the product.

This Limited Warranty is subject to those limitations and exclusions as listed in the Gradall Policies & Procedures Manual (41200037), which includes timelines and requirements for making claims under this Limited Warranty.

## STANDARD WARRANTY

Gradall products carry the following warranties from the unit's in-service date for 2019 model-year (and beyond) machines:

- Standard Machines. . . . . 2 Years or 3000 hrs., whichever comes first.
- Special Industrial Machines. . 1 Year or 1500 hrs., whichever comes first.

"Standard" and "Special Industrial" machine model designations are defined in the Gradall Policies & Procedures Manual (41200037)

## What Is Not Covered

- Parts associated with unit maintenance are not warranted beyond 1 year of the product's in-service date.
- Items subject to normal wear and tear, noise, vibration, or deterioration are not warranted.
- This Limited Warranty does not cover damage caused by abusive usage or extreme applications.
- Any operation beyond the rated capacity or the improper use or application of the product or the substitution of parts not approved by Gradall or the failure to release the product for warranty work.
- Tires, engines and batteries are warranted by the applicable Manufacturer.
- Corrosion due to external forces or damage caused by stones, salt, gravel, accidents, chemicals or other forms of impact, industrial fallout or pollution, or previous repair.
- External surface rust left unrepaired due to neglect of the product.
- Chassis not manufactured by Gradall.





#### EXTENDED WARRANTY

An Extended Warranty may be purchased for a Gradall product at any time up to the end of the Standard Warranty period. A maximum of 1 extra year of Extended Warranty may be purchased for a maximum warranty period of 3 years.

#### What Is Not Covered

- Items subject to service, maintenance, or normal wear, including but not limited to O-rings, Seals, Hoses, Paint, Tires, Belts, or Filters.
- Items supported by separate warranties such as the Engine or Transmission.
- Extended Warranty is not available for Special Industrial Machines and/or Applications due to their extreme nature.

#### MISCELLANEOUS

- Proper venue for any lawsuits arising from or related to this Limited Warranty shall only be in Tuscarawas County, Ohio, and governing law shall be the laws of the State of Ohio.
- Gradall may waive compliance with any of the terms of this Limited Warranty, but no waiver of any terms shall be deemed to be a waiver of that term in the future or of any other term.
- If any provision of this Limited Warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.

EXCEPT AS PROVIDED HEREIN, GRADALL MAKES NO WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE WITH RESPECT TO PRODUCTS OR PARTS FURNISHED BY GRADALL. EXCEPT AS PROVIDED HEREIN, GRADALL SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO OWNER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE PRODUCTS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE PRODUCTS OR ANY BREACH OF THIS WARRANTY. GRADALL'S MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL BE THE PURCHASE PRICE PAID TO GRADALL WITH RESPECT TO THE WARRANTED PRODUCT.

## GRADALL®

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Part No. 41200003







# Excavator Pricing

SP 85 - Effective September 22, 2021

## Discovery Crossover Series Excavators

Discovery Series excavators are the cost-effective solution for governments and contractors who need to get to jobs faster, complete many different jobs with fewer men and machines, all while keeping within tight equipment budgets. Both two-wheel and four-wheel-drive models feature the famous telescoping, tilting Gradall boom as well as a Freightliner truck chassis.

| Model    | Net Weight Lbs (kg) | Price     |
|----------|---------------------|-----------|
| D152 4x2 | 32,200 (14,600)     | \$271,285 |
| D172 4x2 | 32,200 (14,600)     | \$312,610 |
| D174 4x4 | 34,500 (15,650)     | \$338,350 |

## Highway Speed Wheeled Excavators

Highway speed excavators can be driven up to 60 mph, eliminating the need for a lowboy trailer while they move quickly to job sites and then back to the safety of the equipment yard. Series V models feature full-tilting telescoping booms and new Tier 4 final complaint Volvo engines as well as AutoDrive™ mobility advantages including an automatic transmission and other advantages.

| Model        | Net Weight Lbs (kg) | Price     |
|--------------|---------------------|-----------|
| XL3100 V 4x2 | 40,930 (18,566)     | \$371,332 |
| XL3100 V 4x4 | 41,720 (18,924)     | \$401,865 |
| XL4100 V 6x4 | 49,684 (22,539)     | \$444,743 |
| XL4100 V 6x6 | 50,925 (23,099)     | \$466,952 |
| XL5100 V 6x4 | 57,670 (26,159)     | \$502,863 |
| XL5100 V 6x6 | 58,379 (26,488)     | \$524,583 |

## Rough Terrain Wheeled Excavators

Excellent stability allows rough terrain wheeled models to pick and carry large loads as well as work at the front, rear or either side of the carrier - all without the need for optional outriggers. A highly mobile undercarriage on Series V models moves easily over both pavement and dirt, all powered by a Tier 4 final complaint Volvo engine. The low-profile telescoping boom can work under bridges and trees, accomplishing more work with full boom tilt advantage.

| Model    | Net Weight Lbs (kg) | Price     |
|----------|---------------------|-----------|
| XL3300 V | 39,294 (17,823)     | \$331,738 |
| XL4300 V | 43,580 (19,768)     | \$375,172 |
| XL5300 V | 51,216 (23,231)     | \$425,292 |

## Crawler Excavators

Series V models feature Tier 4 final complaint Volvo engines and other advantages, preparing them for cost-efficient, highly productive versatility on mud, rocks, sand and dirt. Versatility is rooted in the legendary full tilting, telescoping boom that can do more with more attachments, even working under bridges and in tunnels where conventional booms won't fit.

| Model    | Net Weight Lbs (kg) | Price     |
|----------|---------------------|-----------|
| XL3200 V | 39,240 (17,799)     | \$282,511 |
| XL4200 V | 46,862 (21,256)     | \$341,997 |
| XL5200 V | 54,452 (24,699)     | \$408,021 |

SP 85 - Effective September 22, 2021

# GRADALL®

Gradall Industries, Inc. • 406 Mill Avenue SW • New Philadelphia, OH 44663 • Ph: (330) 339-2211



ALAMO GROUP



Company ID Number:571783

Client Company ID Number:1453697

| Information Required for the E-Verify Program       |   |
|---|---|
| Information relating to your Company:               |   |
| Company Name  | Tractor & Equipment Co Inc                          |
| Company Facility Address                            | 5336 Messer Airport Highway<br>Birmingham, AL 35212 |
| Company Alternate Address                           | PO Box 12326<br>Birmingham, AL 35202                |
| County or Parish                                    | Jefferson   |
| Employer Identification Number                      | 63-0211767  |
| North American Industry Classification Systems Code | Merchant Wholesalers, Durable Goods (423)           |
| Parent Company                                      |   |
| Number of Employees                                 | 500 to 999  |
| Number of Sites Verified for                        | 22  |