BID SUBMITTAL FORM Alabama County Joint Bid Program BID ITEM – HIGHWAY SPEED TRUCK MOUNTED EXCAVATOR - 2WD

Company Name: Tractor + Equipment Co.	
Address: 7.0. 730x 12326	
Birmingham, AL 35212	
Bid Submitted by: Autres McMillan Tr.	
(Name of company representative)	
Title: E-mail address: amc millan at TEC	1943. con
Phone: <u>205.591.2131</u> Fax: <u>205.591-8321</u>	
By submitting this bid, we agree:	Initials
The equipment model number identified below meets the bid specs for this bid item	An
That the bid price will be honored for all counties for the period from Jan. 1, 2022 to Dec. 31, 2022.	An
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	-lys
The bid includes the e-verify documentation required by Alabama law	An
If awarded the bid, a performance bond will be provided upon request	An
The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine	Am

Total Bid Price for Standard Machine: \$ 290 , <u>400</u> (Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)*
Freight Preparation and Delivery: \$(Included in Standard Machine Bid Price)
Manufacturer's Suggested Retail Price for Standard Machine: \$ 3/2, 6/0
Equipment Model #: Cradall D172
Equipment Model #: Cradall D172 Description: Hwy speed excaustor 2WD
Signature of company representative submitting bid:
Title:

^{*} 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

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*

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

Equipment Model #: Gradall D172

Description: Hwy Speel excavator JwD

Signature of company representative submitting bid: Auth M. M.

Title:

*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 - 2WD

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**72 D152: 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 Volume No Page #

Boom

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 #______

9

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 propel, 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 #____

<u>Carrier</u>

The carrier shall be a 4x2 rubber tired type, 8' 6" wide with a 33,000-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 220 HP @-2300 RPM. The engine shall be equipped with an exhaust brake, 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 #_____

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 #_____

Axles and Suspension

The front axle shall be rated at 12,000-lb. minimum. The front suspension shall be leaf type and shall be complete with automatic lockout cylinders.

Yes No Page #

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 #____

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 #

Wheels and Tires

The wheels shall be 10-stud hub piloted disc. The front tires shall be single 275/80R22.5 with highway 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 VNo Page #

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 #__/

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

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Working weight, including 60" excavating bucket and half-full fuel tanks shall meet or exceed 32,200 pounds.

Yes _	V	No _	
Page	#_	3	

Diaging	Specifications	with 60"	Excavating	Bucket
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Maximum Digging Depth:	- 55 5 7	13′ b″
Boom Tilt (Total Arc/CW Arc/CCW Arc): 2206/110 Minimum Reach (Cleanup - Bucket level, ground level boom retracted): 6' 8" Maximum Digging Depth (8' level bottom): 12' 2" Minimum Boom Arc: +30°, -60° Tail Swing: 6' 7" Maximum Height with Bucket Below ground level: 14' 1" Maximum Loading Height 16' 4"	Maximum Digging Depth:	24' 11"
Boom Tilt (Total Arc/CW Arc/CCW Arc): 2206/110 Minimum Reach (Cleanup - Bucket level, ground level boom retracted): 6' 8" Maximum Digging Depth (8' level bottom): 12' 2" Minimum Boom Arc: +30°, -60° Tail Swing: 6' 7" Maximum Height with Bucket Below ground level: 14' 1" Maximum Loading Height 16' 4"	Maximum Surface Reach:	24 11
Minimum Reach (Cleanup - Bucket level, ground level boom retracted): Maximum Digging Depth (8' level bottom): Minimum Boom Arc: Tail Swing: Maximum Height with Bucket Below ground level: Maximum Loading Height 16' 4"	Room Tilt (Total Arc/CW Arc/CCW Arc):	220%110 /110
Maximum Digging Depth (8' level bottom): +30°, -60° Minimum Boom Arc: -60° Tail Swing: 6' 7" Maximum Height with Bucket Below ground level: 14' 1" Maximum Loading Height 16' 4"	Minimum Reach (Cleanup - Bucket level, ground level boom retracted):	0 0
Minimum Boom Arc: 430°,	Maximum Digging Donth (8' level hottom):	12 2
Tail Swing:	Minimum Boom Arc:	+305, -005 10401
Maximum Loading Height	Tail Swing:	0 /
Maximum Loading Height	Maximum Height with Bucket Below ground level:	. 14' 1"
Bucket Pivot165°	Maximum height with bucket below ground love.	. 16' 4"
Bucket Pivot	Maximum Loading Height	165°
	Bucket Pivot	, 100

Over-Side

Lifting Capacity without bucket, at ground level

Litting Capacity Without Sacret, at 9. Carry	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.
ZZ 9 Wax Naulus		

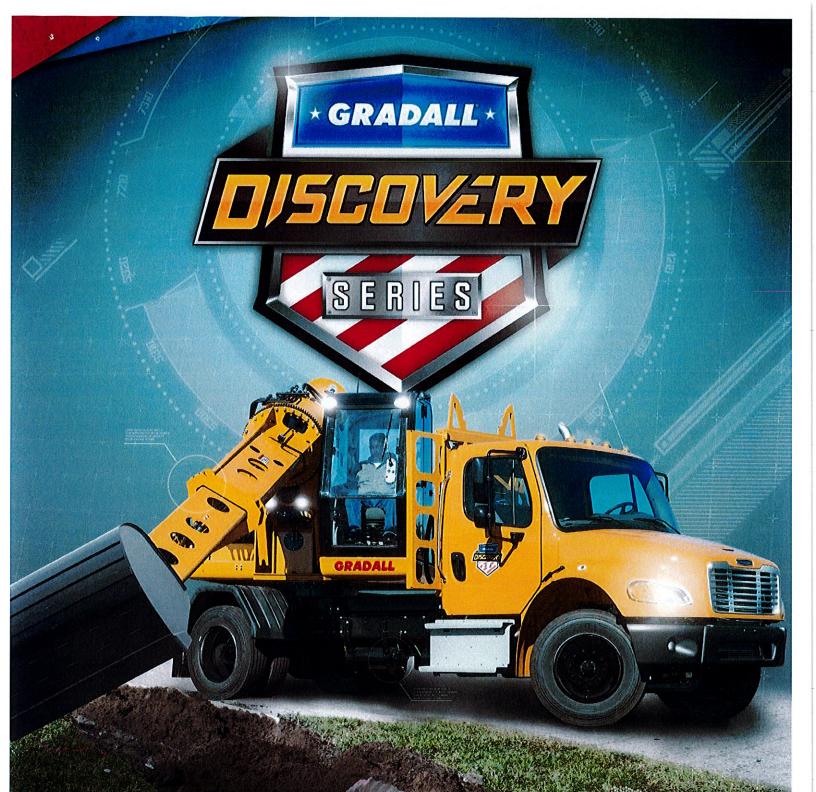
Yes No Page # 3

Travel Dimensions with 60" Excavating Bucket

Travel Difficultions With 60 Executions	01 6"
Width	0 0
Width	12' 2"
Height with bucket	12 0
Height with buoket	27' 1"
Length	21
Lengur	

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

Yes No Page # 3



HIGHER PRODUCTIVITY WITH A LOWER EQUIPMENT INVESTMENT

Crossover Hydraulic Excavators for Governments and Specialty Contractors









CABS DESIGNED FOR COMFORT AND EFFICIENCY

OPERATOR CAB





· GRADALL ·





CHASSIS CAB

- Framing externationalities
 Framing the support interaction and automotive style fluid the may be need EED tack it tunges seasy to control.
 Standard convenience leadures including adjustable steering column, fund teal too lights, classe natural and radio.





7.6

DISCOVERY SERIES MODEL OPTIONS: Auxiliary hydraulics

- · Passenger side door step
- · Rear step

GRADALL MODEL D152 4X2 6 D154 4X4 LIFT CAPACITY OVER SIDE OR REAR - LB. [KG]

				LOAD	RADIUS		
LOAD	POINT HEIGHT	15' 0"	14.6 MI	50. 0.	16.1 MI	MAXIMU	M RADIUS
		OVER END	OVER SIDE	OVER END	OVER SIDE	OVER END	OVER SIDE
	19' 1" (5.8 M)					3000 [1360]	3000 [1360]
	15' 0" (4.6 M)	4660 2115	4660 (2115)	3180 [1440]	3180 [1440]	2880 1305	2880 1305
AROVE GROUND LEVEL	10° 0" 13,0 MI	5390 2445	5390 124451	3530 (1600)	3530 (1600)	2880 113051	2880 1305
Ar ve.	800M LEVEL 8' 8" [2.7 M]	5490 (2490)	5490 (2490)	3580 [1625]	3580 (1625)	2885 1310	2885 1310
	5' 0" [1.5 M]	5480 2485	5480 2485	3615 (1640)	3615 116401	2905 1320	2905 11320
AT GE	ROUND LEVEL	4760 2160	4760 2160	3365 (1525)	3365 (1525)	2950 [1340]	2950 1340
	5' 0" (1.5 M)	3690 (1675)	3690 (1675)			2955 [1340]	2955 [1340]
BELOW GROUND LEVEL	10' 0" 13,0 MI	2695 (1220)	2695 1220			2690 (1220)	112201 2690
	10' 9" (3.3 M)				44	2580 1170	2580 111701

11111.

NOTE. The showe heads are incomplance with the SAE Standard 1992. DCC 198. They should exceed \$P \times dehigher and filling capacity in Particle P

Do not attempt to MI in hindary, find creates than these cated values at space feed lear-cadin and health. The weelfir of ships and any auxiliary device, must be deducted from the rated liad to determine the net lead that may be displayed.

ATENTION All atted learns are have from the machine being of storing any and it, education storing that are the properties setting. For a les with my body, the net must have all the area of the properties of the storing body, the net must have all the most first play for a department of the storing that are the first played to the storing and of it of livest conditions sign body, have about a condition of a general order as small, etc. The object are Manual three leaves must must have a quantities of a classification and after a section of must have a factor a section for his machine. Balles for additional of a quipment must be different to a fall times.



BG 121 (4.3 m) 127 (4.5 m) (7.4 m) interesting of all maximum models BK in 8.4 (4.6 m) (5.5 (4.6 m) (7.4 m) interesting of Assistant models of Ass

1) the endprist;

Wooght,

Approximate Annierpasch including (65° 154 m burset
footback all fills.

12° 32° 06° in (13° 938q)

14° 13° 500° footback

Sociale atens subject to change within change.















Get an even greater **RETURN ON YOUR** INVESTMENT

combining designed-in Gradall versatility with a range of

ATTACHMENTS

Governmental 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:

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

406 Mill Ave. SW, New Philadelphia, OH 44663

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FREIGHTLINER







HGACBUV

C 2/1/D/1/4/10

D172

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

3,800 psi (262 BAR)
2,500 psi (172 BAR)
3,800 psi (262 BAR)
3,800 psi (262 BAR)
3,800 psi (262 BAR)
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

Undercarriage

- . 4x2
- Wheelbase: 190" (4.83 m)
- Width 102" (2.6 m)

Transmission

· Allison 3500 RDS automatic

Gross Vehicle Axle Weight Rating

• 37,700 lb (17,100 kg)

Front Axles

• 14,700 lb (5,443 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: 275/80R225 16-ply highway traction tread
- Rear: M/S11R22.5 14-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
- Duel 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 D152 4x2 Lift Capacity Over Side or Rear - LB. (kg)

		LOAD RADIUS					
LOAD POINT HEIGHT		15' 0" (4.6 m)		20' 0" (6.1 m)		Maximum radius	
		Over End	Over Side	Over End	Over Side	Over End	Over Side
	19' 1" (5.8 m)					3000 (1360)	3000 (1360)
ABOVE GROUND LEVEL	15' 0" (4.6 m)	4660 (2115)	4660 (2115)	3180 (1440)	3180 (1440)	2880 (1305)	2880 (1305)
	10' 0" (3.0 m)	5390 (2445)	5390 (2445)	3530 (1600)	3530 (1600)	2880 (1305)	2880 (1305)
	BOOM LEVEL 8' 8" (2.7 m)	5490 (2490)	5490 (2490)	3580 (1625)	3580 (1625)	2885 (1310)	2885 (1310)
	5' 0" (1.5 m)	5480 (2485)	5480 (2485)	3615 (1640)	3615 (1640)	2905 (1320)	2905 (1320)
AT GROU	ND LEVEL	4760 (2160)	4760 (2160)	3365 (1525)	3365 (1525)	2950 (1340)	2950 (1340)
BELOW GROUND LEVEL	5' 0" (1.5 m)	3690 (1675)	3690 (1675)			2955 (1340)	2955 (1340)
	10' 0" (3.0 m)	2695 (1220)	2695 (1220)	3		2690 (1220)	2690 (1220)
	10' 9" (3.3 m)		12.00			2580 (1170)	2580 (1170)

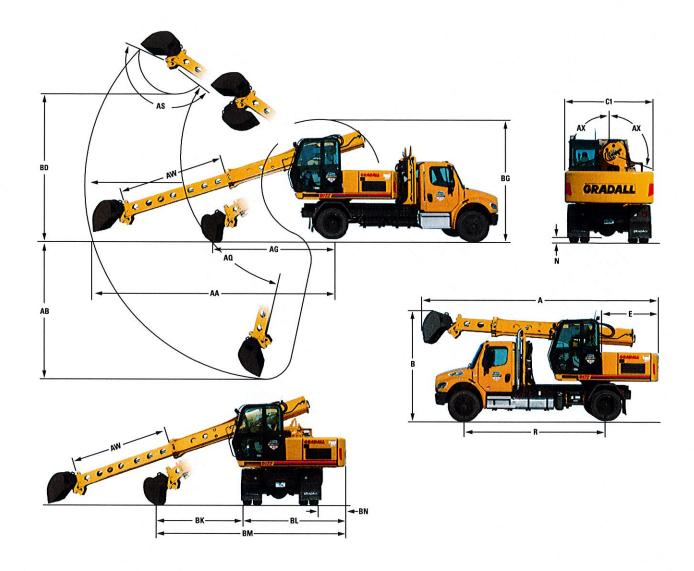
NOTE: The above loads are in compliance with the SAE standard J1097 DEC2005. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

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.

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 2			4 x 2	
Α	27'1" (8.3 m)	Overall length (boom in rack) with bucket	AS	165°	Bucket pivot angle
В	12'3" (3.7 m)	Overall height (boom in rack) with bucket	AW	10'3" (3.1 m)	Telescoping boom travel
C1	8'6" (2.6 m)	Width of upperstructure	AX	110°	Bucket tilt angle (both sides of center)
E	6'7" (2.0 m)	Swing clearance, rear of upperstructure	BD	16'4" (5.0 m)	Minimum clearance of bucket teeth, with bucket pivot
N	10" (254 mm)	Ground clearance (per SAE J1234)			at maximum height
R	15'10" (4.8 m)	Wheelbase	BG	14'1" (4.3 m)	Maximum height of working equipment with bucket
AA	24'11" (7.6 m)	Maximum radius at ground line (165° pivot)			below ground line
AB	13'6" (4.1 m)	Maximum digging depth (165° pivot)	BK	6'8" (2.0 m)	Minimum bucket cleanup
AG	11'4" (3.5 m)	Minimum level cut radius with bucket flat on	BL	10'8" (3.3 m)	Swing lane clearance
1710-00-00		ground line	ВМ	17'11" (5.5 m)	Minimum machine swing radius at ground level
AQ	30° Up & 60° Down	Boom pivot angle	BN	30" (762 mm)	Passenger side swing clearance

Function Forces

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

Rated bucket breakout force:

11,400 lb (50.7 kN)

Weight

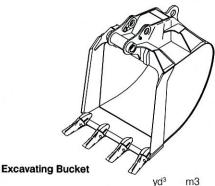
- Approximate working weight, including a 60" (1.54 m) bucket, fuel tank half full
- 4 x 2: 32,200 lb (14,600 kg)

Optional Equipment

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

Attachments

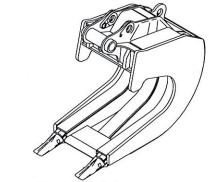
- · Buckets fabricated of steel plate, with high strength, low alloy cutting edges and wear strips
- · Standard attachments available for wide range of applications



8215-6008 36" (914 mm) 785 lbs (356 kg)

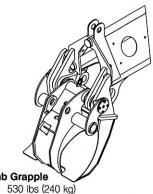
yd³ m3 5/8 0.54

Tree Limb Shear 8215-5004 770 lbs (349 kg)

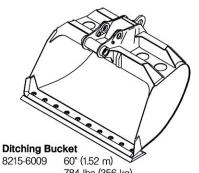


Pavement Removal Bucket

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

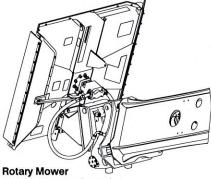


Fixed Thumb Grapple 8215-5003



784 lbs (356 kg)

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



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 incuring any liability on units already sold. Units shown may have optional equipment.



406 Mill Ave. SW, New Philadelphia, Ohio 44663 Phone: 800-445-4652 Fax: 330-339-8468





Form No. 12001 3/20



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

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

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

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 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 inservice 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.









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 Birmingham, AL 35212	
Company Alternate Address	PO Box 12326 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	