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

Company Name: / IRXTOR & Equipment Company
Address:
Birmingham, AL 35212
Bid Submitted by: JOE PATTON
(Name of company representative)
Title: VP e-mail address: Jpatton@ TEC 1943-com
Phone: 205-591-2131 Fax: 205-391-8321
By submitting this bid, we agree: Initials
The equipment model number identified below meets the bid specs for this bid item
That the bid price will be honored for all counties for the period from Jan. 1, 2021 to Dec. 31, 2021.
The equipment will be delivered at the bid price to all counties participating in the joint bid program
The company representative listed above will be the contact person for purchasing this bid item under the joint bid program
The bid is accompanied by a current catalog or model specification document for the model number identified below
The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications
The bid includes the e-verify documentation required by Alabama law
If awarded the bid, a performance bond will be provided upon request
The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine

Total Bid Price for Standard Machine: \$ 278, 275. (Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)
Freight Preparation and Delivery: \$_4700.° (Included in Standard Machine Bid Price)
Manufacturer's Suggested Retail Price for Standard Machine: \$ 291,668.
Equipment Model #: GIMDALL DISY
Description: Highway SPEED Truck Mounted Excavator - 4WD
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

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*

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

AP

Equipment Model #: GRADAL D154	
Description: Highway Sous Tanck Monted Ex	CAVATOR - 4WD
Signature of company representative submitting bid:	
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 - 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 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 #

<u>Boom</u>

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 #______

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 #___/___

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 #___

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 **250 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 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 #____

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

<u>Cab</u>

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 #__/, ___

Operating Weight

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

		Yes <mark>✓ No</mark> Page #_3
Digging Specifications with 60" Excavating Buc	<u>ket</u>	
Maximum Digging Depth: Maximum Surface Reach: Boom Tilt (Total Arc/CW Arc/CCW Arc): Minimum Reach (Cleanup - Bucket level, ground level boon Maximum Digging Depth (8' level bottom): Minimum Boom Arc: Tail Swing: Maximum Height with Bucket Below ground level: Maximum Loading Height Bucket Pivot	n retracted):	
		Yes <u>✓</u> No Page #_3
Lifting Capacity without bucket, at ground level		
15' 0" Radius	3,365 lbs	3,365 lbs. 2,950 lbs.
		Yes
Travel Dimensions with 60" Excavating Bucket		
WidthHeight with bucketLength		12' 9"
		Yes No Page #_3
The equipment shall be capable of performing all functions	without the use of outrig	igers.
		Yes No





Company ID Number:571783

Client Company ID Number:1453697

Information Information relating to your Compa	Required for the E-Verify Program ny:	
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	

Model Options

D154 4x4 - \$291,668.00

Upperstructure		
82139002K	Aux Hydraulics - Bi-Directional	\$4,015.00
	Beacon Warning Light LED Amber - Per PA DOT Spec EQN-120C	\$950.00
82179008K	Beacon, Single LED with Branch Guard - Upper	\$740.00
82189045K	Boom Rest Guard	\$525.00
82179016K	Camera System - Upper	\$3,250.00
80465068	Cigarette Lighter - Upper	\$21.00
80505005K	Escape Hammer	\$105.00
80865008K	Fire Extinguisher 10# - Upper	\$450.00
80483281	First Aid Kit	\$190.00
82169003K	Foot Pedal Operated Auxiliary Hydraulics - Uni-Directional Flow	\$640.00
80365084	Front Window Guard (Hinged) - Upper Cab	\$3,480.00
80769077K	Front Window Guard (Rigid) - Upper Cab	\$1,949.00
80789097K	Hand Signal Chart	\$284.00
82139003K	Low Pressure Aux. Return To Tank	\$430.00
82179010K	Lube Chart - Permanent Outside & Visible - Upper	\$380.00
	Paint, Special, Entire Unit -One Color (Please provide RAL # to	\$7,500.00
0047500614	factory)	
82175006K	Rexroth Bodas Software & Cable Kit	\$1,857.00
80789100K	Slow Moving Vehicle Sign	\$250.00
80465058K	Sun Visor - Upper Cab	\$820.00
80755015K	Tool Hold Open Lock - Mechanical	\$290.00
80763114	Vandal Cover - Upper Cab	\$2,400.00
82179009K	Work Lights, LED	\$2,715.00
Chassis		
82179007K	Beacon, Dual Beam, LED with Branch Guard - Chassis	\$1,030.00
82189058	Camera System	\$2,175.00
82189047K	Engine Block Heater	\$640.00
82189057K	Fire Extinguisher 10# - Chassis With Cover	\$240.00
82183033	Locking Def Cap w/ Key	\$150.00
82183032	Locking Fuel Cap w/ Key	\$205.00
82189037K	Lube Chart - Permanent Outside & Visible - Chassis	\$380.00
82189021K	Step, Driver's (LH) Side Rear	\$750.00
82189020K	Step, Passenger Side	\$1,000.00
82189022K	Step, Passenger Side (RH) Rear	\$750.00
Attachments		
82155001	Bolt on Cutting Edge for 82156009 60" Ditch Bucket	\$745.00
82156015	Bucket - 24" Excavating	\$5,500.00
82156009	Bucket - Ditching - 60" Standard (order 82155001 for Bolt on Edge)	\$5,273.00
82156008	Bucket - Excavating 36"	\$6,025.00
82156004	Bucket - Pavement Removal 24"	\$7,877.00
80385171K	Emergency Kit - Flares & Triangles	\$160.00
82155006	Flail Mower, Tiger Brand 40" - Pin On	\$12,250.00
82155003	Grapple - Fix Thumb	\$7,500.00
82155004	Limb Shear	\$10,000.00
82155005	Rotary Mower, Tiger Brand 50" - Pin On	\$12,250.00
Manual Instructions		1/
	Extra Set Of Keys (4): (2) Ignition & (2) Covers	\$20.00
	Printed Set Of Parts, Service & Operator's Manuals	\$260.00
	a proportion of the state of th	7

GRADALL SHIP 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 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:

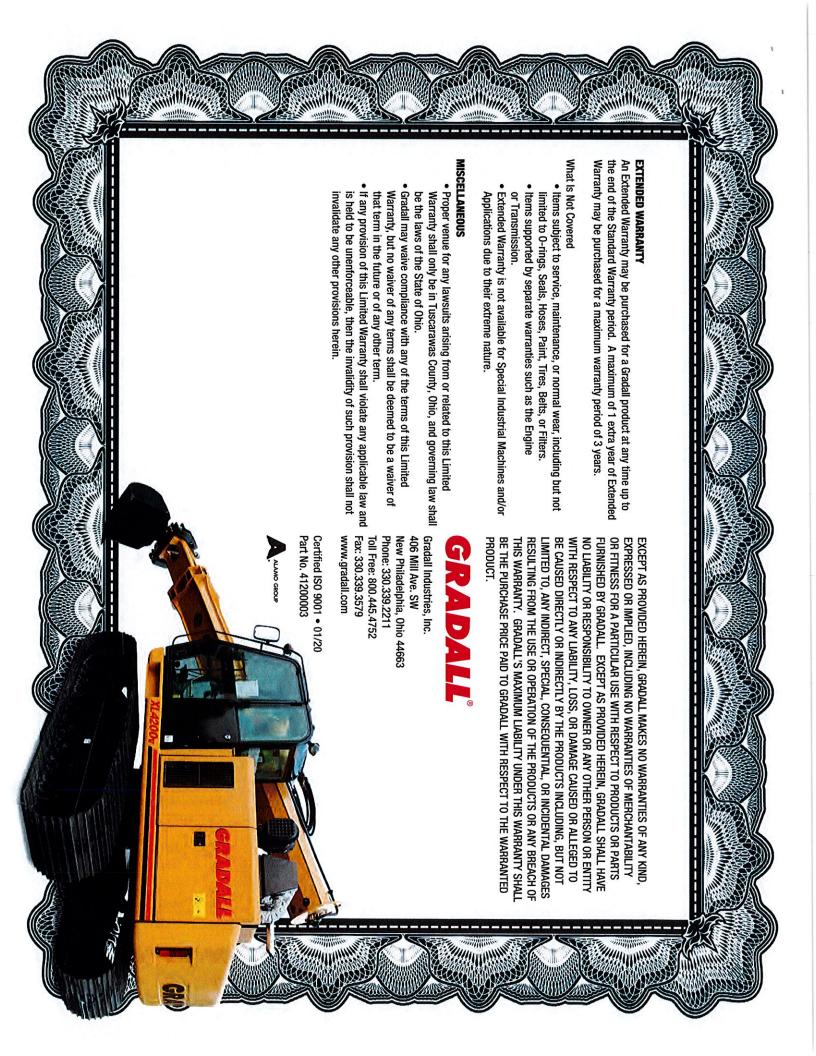
- Standard Machines. 2 Years or 3000 hrs., whichever comes first
- Special Industrial Machines...1 Year or 1500 hrs., whichever comes first.

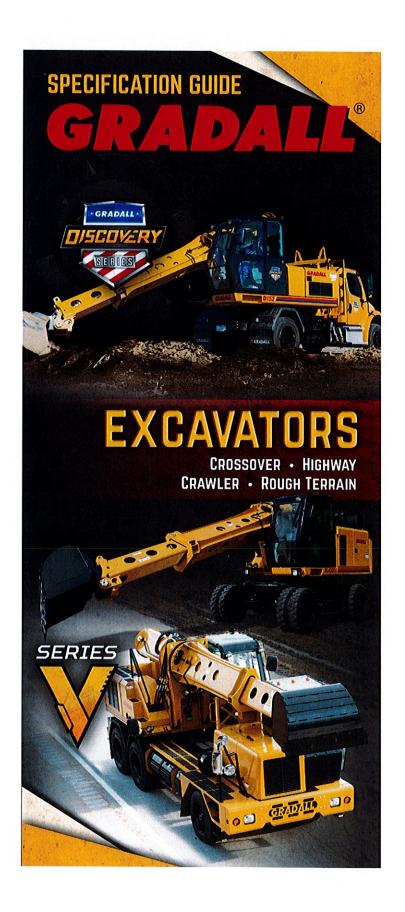
"Standard" and "Special Industrial" machine model designations are defined in the Gradall Policies & Procedures Manual (41200037)

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.





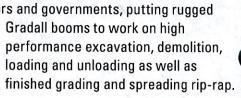


CRLDLL

DISCOVERY SERIES excavators

by Gradall 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 ... while staying within a tight equipment budget. Available in two-wheel or four-wheel-drive, Discovery Series models feature the famous telescoping, tilting Gradall boom as well as a Freightliner truck chassis.





COVERY			D 152	D 154
SERIES		Max. Digging Depth	13' 6" (4.1 m)	13' 0" (4.0 m)
	ш	Max. Radius at Groundline	24' 11" (7.6 m)	24' 9" (7.5 m)
建筑	ANC	Max. Loading Height	16' 4" (5.0 m)	16' 10" (5.1 m)
	ORM	Max. Work Hgt., (Boom below grade)	14' 1" (4.3 m)	14' 7" (4.5 m)
	ERF	Boom Telescope	10' 3" (3.1 m)	10' 3" (3.1 m)
	35	Boom Tilt	220°	220°
	ANGE	Bucket Pivot Angle	165°	165°
	OPERATING RANGE & PERFORMANCE	Rated Boom Force	16,387 lb (72.9 kN)	16,387 lb (72.9 kN)
WILL BEEN	ATII	Rated Bucket Breakout Force	11,400 lb (50.7 kN)	11,400 lb (50.7 kN)
M Sap 6 MG	DPEF	Max. Lift Capacity	5,950 lb (2,700 kg)	5,950 lb (2,700 kg)
		Operating Weight	32,200 lb (14,600 kg)	34,500 lb (15,650 kg)
Marie Alle		Swing Clearance	6' 7" (2.0 m)	6' 7" (2.0 m)
KV		Transport Length w/ Bucket	27' 1" (8.3 m)	27' 1" (8.3 m)
O BALL	TS &	Transport Height w/ Bucket	12' 3" (3.7 m)	12' 9" (3.8 m)
VALLE		Transport Width w/ Bucket	8' 6" (2.6 m)	8' 6" (2.6 m)
	W	Drive	4 x 2	4 x 4
		Gross Vehicle Axle Rating	33,000 lb (14,968 kg)	36,200 lb (16,420 kg)
Les Massilla	AGE.	Wheelbase	15' 0" (4.8 m)	15' 0" (4.8 m)
	UNDERCARRIAGE	Engine Standard	Cummins ISB 6.7	Cummins ISB 6.7
	RCA	HP @ RPM	220/2300	250/2300
	BON	Travel Speed	55 mph (88.5 kph)	55 mph (88.5 kph)
autha B		Ground Clearance Trenching Buckets	10" (250 mm)	10" (250 mm)
		Excavating Buckets		
		Ditch Cleaning Buckets		
がある。シ		Dredging Buckets		
THE COLUMN TO THE COLUMN TWO IS NOT THE COLU	2	Pavement Removal Buckets		BEATHER AND AND REPORT OF THE PARTY OF THE P
	TACHMENTS	Grading Blades		
	ACHI	Telestick		
	ATT	Boom Extensions		
		Flail Mowers	•	•
APPARATE A		Rotary Mowers		•
THE STREET CO. IN		Hydraulic Hammers	receives martin Contrata Digital Contrata Contrata Contrata Contrata Contrata Contrata Contrata Contrata Contra	THE RESERVE OF THE PARTY OF THE
		Grapples		





A V 1		XL 3100 V	XL 4100 V	XL 5100 V
	Max. Digging Depth	18' 4" (5.6 m)	20' 3" (6.2 m)	24' 5" (7.4 m)
	Max. Radius at Groundline	27' 3" (8.3 m)	30' 3" (9.2 m)	33' 9" (10.3 m)
ANCI	Max. Loading Height	15' 5" (4.7 m)	17' 2" (5.2 m)	18' 11" (5.8 m)
PERFORMANCE	Max. Work Hgt., (Boom below grade)	14' 11" (4.5 m)	15' 0" (4.6 m)	15' 0" (4.6 m)
BE COL	Boom Telescope	11' 0" (3.4 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
	Boom Tilt	220°	220°	220°
	Bucket Pivot Angle	165°	165°	165°
- And	Rated Boom Force	21,940 lb (97.6 kN)	21,940 lb (97.6 kN)	24,500 lb (109 kN)
OPERATING RANGE &	Rated Bucket Breakout Force	17,990 lb (80 kN)	24,900 lb (111 kN)	24,900 lb (111 kN)
	Max. Lift Capacity	7,870 lb (3,570 kg)	12,130 lb (5,390 kg)	13,213 lb (5,993 kg)
	Operating Weight	40,930 lb (18,566 kg)	49,684 lb (22,536 kg)	57,670 lb (26,159 kg)
	Swing Clearance	7' 6" (2.3 m)	8' 0" (2.4 m)	8' 6" (2.6 m)
	Transport Length w/ Bucket	27' 6" (8.4 m)	29' 6" (9.0 m)	30' 5" (9.3 m)
40.5	DESCRIPTION OF THE PROPERTY OF	11' 11" (3.6 m)	11' 9" (3.6 m)	11' 9" (3.6 m)
WEIGHTS &	Transport Width w/ Bucket	8' 6" (2.6 m)	8' 6" (2.6 m)	8' 6" (2.6 m)
Will be a second of the second	Drive Drive	4 x 2 or 4 x 4	6 x 4 or 6 x 6	6 x 4 or 6 x 6
	Gross Vehicle Axle Rating	41,250 lb (18,711 kg)	66,000 lb (29,937 kg)	66,000 lb (29,937 kg
The Table of the Control of the Cont	Wheelbase	13' 4" (4.1 m)	14' 2" (4.3 m)	14' 3" (4.3 m)
		Volvo TAD572VE	Volvo TAD871VE	Volvo TAD873VE
Ball Control	Engine Standard	Tier 4f 5.1L	Tier 4f 7.7L	Tier 4f 7.7L
RCA NOTATION OF THE PROPERTY O	HP @ RPM	215/2300	248/2200	315/2200
UNDERCARRIAGE	Travel Speed	60 mph (96.6 kph)	59.9 mph (96.4 kph)	59.5 mph (95.8 kph)
	Ground Clearance	10" (254 mm)	10" (254 mm)	10" (254 mm)
	Trenching Buckets	•	•	•
Secret Language	Excavating Buckets	•	6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
The state of the s	Ditch Cleaning Buckets		HAMMOURY ACTIONS ASSETS AND ADMINISTRATED	•
	Dredging Buckets	•		
S. S. S. S. S. S. S. S.	Pavement Removal Buckets		• CONTRACTOR SECTIONS STATES AND SECTIONS	•
VEN TO THE STATE OF THE STATE O	Grading Blades			
ACHMENTS	Telestick			
ATT CAN CASE OF THE PARTY OF TH	Boom Extensions	•		
	Flail Mowers	By no Marchael Andrews (1974) (1974)		
	Rotary Mowers			Jackettos Persona
	Hydraulic Hammers			
	Grapples		A DESCRIPTIONS	ENVERSE SERVED DE SERVERS DE LA COMPANSION DE LA COMPANSI
XL 3100 V 1,930 lb (18,565 kg) 7.3 (8,3 m) reach 4 (5,6 m) dig depth	XL 4100 V 49,684 lb (22,536 kg) 30' 3' (9.2 m) reach 20' 3' (6.2 m) dig depth		XL 5100 V 57,670 lb (26,159 kg) 33' 9' (10.3 m) reach 24' 5' (7.4 m) dig depth	

*

			XL 3200 V	XL 4200 V	XL 5200 V
		Engine Standard	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L
œ	병	HP@RPM	172/2,000	173/2,200	173/2,200
	MAN	Max. Digging Depth	19' 2" (5.8 m)	22' 0" (6.7 m)	25' 4" (7.7 m)
	FOR	Max. Radius at Groundline	27' 5" (8.4 m)	30' 6" (9.3 m)	33' 11" (10.3 m)
	PER	Max. Loading Height	14' 9" (4.5 m)	16' 3" (5.0 m)	17' 11" (5.5 m)
	OPERATING RANGE & PERFORMANCE	Max. Work Hgt., (Boom below grade)	14' 0" (4.3 m)	14' 0" (4.3 m)	14' 0" (4.3 m)
THE PERMIT	PANE	Boom Telescope	11' 0" (3.4 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
THE DESIGNATION OF THE PERSON	NG	Boom Tilt	220°	220°	220°
	RATI	Bucket Pivot Angle	165°	165°	165°
	OPE	Rated Boom Force	22,075 lb (98.2 kN)	22,075 lb (98.2 kN)	24,941 lb (111 kN)
		Rated Bucket Breakout Force	19,300 lb (86 kN)	25,405 lb (113 kN)	25,405 lb (113 kN)
医性性性 1		Max. Lift Capacity	8,200 lb (3,720 kg)	12,590 lb (5,710 kg)	13,764 lb (6,243 kg)
		Operating Weight	39,240 lb (17,799 kg)	46,862 lb (21,256 kg)	54,452 lb (24,699 kg)
	S S S	Swing Clearance	7' 6" (2.3 m)	8' 0" (2.4 m)	8' 6" (2.6 m)
	WEIGHTS & DIMENSIONS	Transport Length w/ Bucket	24' 6" (7.5 m)	26' 6" (8.1 m)	28' 11" (8.8 m)
- // E3 :	WE	Transport Height w/ Bucket	10' 9" (3.3 m)	10' 9" (3.3 m)	10' 9" (3.3 m)
		Transport Width w/ Bucket	8' 6" (2.6 m)	10' 6" (3.2 m)	10' 6" (3.2 m)
	띯	Travel Speed	3.4 mph (5.5 kph)	3.4 mph (5.5 kph)	3.4 mph (5.5 kph)
- AND 11	RIA	Track Length	11' 9" (3.6 m)	13' 8" (4.2 m)	13' 8" (4.2 m)
	3CAF	Pad Width	23.6" (600 mm)	31.5" (800 mm)	31.5" (800 mm)
	UNDERCARRIAGE	Ground Bearing Pressure	7.5 psi/51.7kPa	5.7 psi/39.3 kPa	6.6 psi/45.5 kPa
		Ground Clearance	18" (454 mm)	18" (454 mm)	18" (454 mm)
AHIT CELLA		Trenching Buckets	•	•	•
		Excavating Buckets	•	•	•
		Ditch Cleaning Buckets	•	•	•
Of Other		Dredging Buckets	•	•	•
A Marganian	ENTS	Pavement Removal Buckets	•	•	•
		Grading Blades	•	•	•
and the state of	TACH	Telestick		•	•
增 等的 的复数多种	AT	Boom Extensions	•	•	•
		Flail Mowers	•	•	•
		Rotary Mowers			
		Hydraulic Hammers	•	•	•
		Grapples	•	(a	\$ 75 A. S.

			XL 3300 V	XL 4300 V	XL 5300 V
		Engine Standard	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L
	핑	HP @ RPM	172/2,000	173/2,200	173/2,200
	MAN	Max. Digging Depth	18' 5" (5.6 m)	21' 3" (6.5 m)	24' 7" (7.5 m)
ALUN DI	PERFORMANCE	Max. Radius at Groundline	27' 3" (8.3 m)	30' 4" (9.2 m)	33' 10" (10.3 m)
Company (C)	PER	Max. Loading Height	15' 6" (4.7 m)	17' 0" (5.2 m)	18' 8" (5.7 m)
	9 3 9	Max. Work Hgt., (Boom below grade)	14' 9" (4.5 m)	14' 9" (4.5 m)	14' 9" (4.5 m)
AN U	ANE	Boom Telescope	11' 0" (3.4 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
	NG F	Boom Tilt	220°	220°	220°
	DPERATING RANGE	Bucket Pivot Angle	165°	165°	165°
	OPE	Rated Boom Force	22,075 lb (98.2 kN)	22,075 lb (98.2 kN)	24,941 lb (111 kN)
		Rated Bucket Breakout Force	19,300 lb (86 kN)	25,405 lb (113 kN)	25,405 lb (113 kN)
		Max. Lift Capacity	8,150 lb (3,695 kg)	12,540 lb (5,690 kg)	13,764 lb (6,243 kg)
		Operating Weight	39,295 lb (17,823 kg)	43,580 lb (19,768 kg)	51,216 lb (23,231 kg)
ALL	S & S	Swing Clearance	7' 6" (2.3 m)	8' 0" (2.4 m)	8' 6" (2.6 m)
	ENSI	Transport Length w/ Bucket	24' 6" (7.5 m)	26' 6" (8.1 m)	30' 5" (9.3 m)
	WE	Transport Height w/ Bucket	12' 10" (3.9 m)	12' 10" (3.9 m)	12' 11" (3.9 m)
		Transport Width w/ Bucket	8' 6" (2.6 m)	9' 1" (2.8 m)	9' 1" (2.8 m)
G I	AGE	Drive	4 x 4	4 x 4	4 x 4
	ARRI	Wheelbase	8' 9" (2.7 m)	8' 9" (2.7 m)	8' 9" (2.7 m)
	ERCARRIAGE	Travel Speed	20 mph (32.2 kph)	17.5 mph (28.2 kph)	15.0 mph (24.1kph)
	S	Ground Clearance	11" (275 mm)	11" (275 mm)	11" (275 mm)
	6193	Trenching Buckets		•	
		Excavating Buckets	•	•	•
		Ditch Cleaning Buckets	•	•	•
The second second		Dredging Buckets	• THE CHARLEST PRINCIPLE OF THE STATE OF THE	•	•
	TS	Pavement Removal Buckets	•	•	•
	MEN	Grading Blades	•	•	•
	TACH	Telestick		•	•
	ATI	Boom Extensions	•	• Control of the property of the strategy of the strategy	Separate de la companya de la c
V		Flail Mowers	•	•	•
		Rotary Mowers	•	•	· · · · · · · · · · · · · · · · · · ·
		Hydraulic Hammers	•		•
The state of the s		Grapples		Province reference School of the principle of the	DESCRIPTION OF DESCRIPTIONS OF THE S

XL 4300 V

43,580 (19,768 kg) 30' 4" (9.2 m) reach 21' 3" (6.5 m) dig depth XL 5300 V

51,216 lb (23,231 kg) 33' 10" (10.3 m) reach 24' 7" (7.5 m) dig depth

XT 3300 A

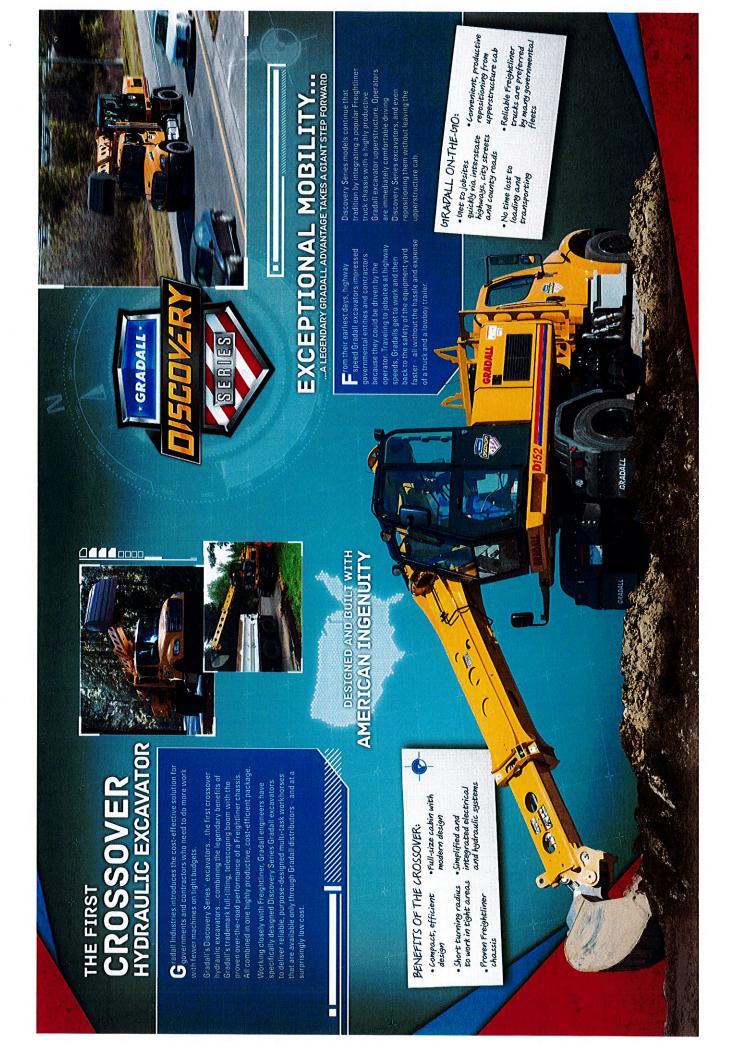
39,294 lb (17,823 kg) 27-3 (8.3 m) reach 18-5" (5.6 m) dig depth





HIGHER PRODUCTIVITY WITH A LOWER EQUIPMENT INVESTMENT

Crossover Hydraulic Excavators for Governments and Specialty Contractors







DESIGNED INTO EVERY DETAIL

BOOM

- - Bucket capacity up to % yard with 60-inch ditching bucket

Full-length boom visibility during the entire dig cycle unlike conver

Fast cycle times – ditching, loading and spreading

· GRADALL ·

CEN

CHASSIS CAB

SERIES

GRADALL















EXCAVATOR

• Short tail swing won't obtaffic on narrow roads





















11

5

1















- Choose the Gradall, Deere or SAE joystick pattern using an in-cab switch



• Lurb, gutter, sidewalk replacement and removal · Vegetation control

> · Lulvert replacement ·Landscaping

> > Powered by a single Cummins 6.7 liter engine – 50-state legal

Allison 5-speed automatic trans

TYPICAL APPLICATIONS:

· Pitching · brading

CHASSIS DESIGN

· Mowing











FOR COMFORT AND CABS DESIGNED EFFICIENCY

OPERATOR CAB

- All-electric joystick control system allows the operator to reposition the upperstructure and boom
- Monitor for critical functions is easy to read and reach

In-cab switch lets operator choose Gradall, Deere or SAE joystick pattern.

- placed grab handles, both inside and out, make cab entry and exit easier
- convenience features like heating, air conditioning, and a storable front window
- During repositioning, accelerate up to 7 mph an brake with foot pedals





CHASSIS CAB

- Freightliner day cab with air ride driver seat and fixed
- room, wider and taller doors and non-slip steps for easy entry and exit
- Ergonomically designed interior has an automotive







puxiliary hydraulics PISCOVERY SERIES MODEL OPTIONS:

- Passenger side door step
- . Rear step

BRADALL MODEL D152 4X2 5 D154 4X4 LIFT CAPACITY OVER SIDE OR REAR - LB. (KG)

				LOAD BADIUS	LADIUS			
LDAD	LOAD POINT HEIGHT	15.0"	15' 0" (4.6 M)	20' 0" (6.1 M)	[6.1 M]	MAXIMUR	MAXIMUM RADIUS	
		OVER END	OVER SIDE	OVER END	OVER SIDE	OVER END	OVER SIDE	
	19' 1" (5.8 M)					3000	3000 (1360)	
	15' 0" (4.6 M)	4660 (2115)	4660 (2115)	3180 (1440)	3180 (1440)	2880 (1305)	2880 (1305)	
ABOVE Ground I evel	10' 0" (3.0 M)	5390 (2445)	5390 (2445)	3530	3530	2880 (1305)	2880 (1305)	
	8' 8" (2.7 M)	5490 (2490)	5490 (2490)	3580 (1625)	3580 (1625)	2885 (1310)	2885 (1310)	
	S. O. (1.5 M)	5480 (2485)	5480 (2485)	3615 (1640)	3615 (1640)	2905 (1320)	2905 (1320)	
AT GR	AT GROUND LEVEL	4760 (2160)	4760 (2160)	3365 (1525)	3365 (1525)	2950 (1340)	2950 [1340]	
	S' 0" (1.5 M)	3690 (1675)	3690 (1675)			2955 (1340)	2955 (1340)	
BELDW Ground Level	10. 0" (3.0 M)	2695 (1220)	2695 (1220)			2690 (1220)	2690 (1220)	
	10' 9" (3.3 M)					2580	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%

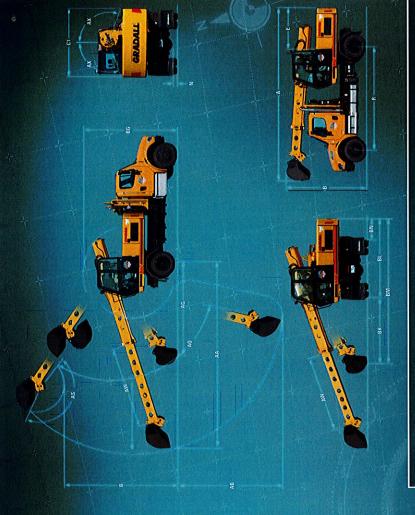
The rated lift capacity is based on the machine being equipped with counterweight, standard boom, standard tires, no auxiliary hydraulies, and bucket. Adjust the listed rated capacities by subtracting the

8215-6006 60" (1.5 m) Ditching - 789 lbs (358 kg) 8215-6008 36" (1.5 m) Excavating - 786 lbs (357 kg)

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

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

ATENTION. 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 aneven ground, our of level conditions, such eads, hazardous conditions, experience of personnel, etc. The operation and other personnel must fully acquaint themselves with the Operator's Manual turnished by the manufacturer before operating this machine. Bules for



buck	
ditching	
1.52 m)	
8215-6006 60" (1.52 m) (4×4
n with 821!	1 x 2
Showr	4

A 27.1" (8,3 m) 27.1" (8,3 m) Overall length (boom in rack) with bucket C1 8'6 (2.6 m) 8'6' (2.6 m) Width of upperstructure E 6'7' (2.0 m) 6'7' (2.0 m) Swing clearance, rear of upperstructure

N 10" (254 mm) 10" (254 mm) Ground clearance (per SAE J1234) R 1510" (4.8 m) 1510" (4.8 m) Wheel base AA 2411" (76 m) 249" (75 m) Maximum radius at ground line

AB 13'6" (4.1 m) 13'0" (4.0 m) Maximum dig AG 11'4" (3.5 m) 11'0" (3.4 m) Minimum lev

4 x 2

BD 164" (5.0 m) 1610" (5.1 m) Winimum clearance of bucket with bucket pivot at maximum BG 14'1" (4.3 m) 14'7" (4.5 m) Maximum height of working with bucket below ground li

BK 6'8" (2.0 m) 6'5" (2.0 m) Minimum bucket cleanup **BL** 10'8" (3.3 m) 10'8" (3.3 m) Swing lane clearance BM 17:11" (5.5 m) 17:7" (5.4 m) Minim

BN 30" (762 mm) 30" (762 mm) Pass

Rated boom force: 16,387 lb (97.6kN)

Rated bucket breakout force: 11,4001b (50.7 kN)















Get an even greater RETURN ON YOUR INVESTMENT

combining designed-in Gradall versatility with a range of

ATTACHMENTS

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:

- 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

330.339.2211 • GRADALL.COM/DISCOVERY

FREIGHTLINER





