BID SUBMITTAL FORM Alabama County Joint Bid Program Heavy Equipment – Bid Item: TRACK-MOUNTED EXCAVATOR OPTION C-2

Company Name: <u>Warrior Tractor & Equipment Co</u>	ompany, Inc.		
Address:6801 McFarland Blvd W., Northport	t, AL 35476		
Bid Submitted by: <u>David Schafer</u>			
(Name o	of company repres	entative)	
Title: Sales Manager	E-mail address:	_dschafer@warriortract	or.com
Phone:205-339-0300	Fax:	205-333-0101	******
By submitting this bid, we agree:			Initials
The equipment model number identified below me	eets the bid specs	for this bid item	(DPS)
That the bid price will be honored for all counties December 31, 2023.	for the period from	January 1, 2023 to	(PB)
The equipment will be delivered at the bid price to joint bid program	all counties partic	ipating in the	D13
The company representative listed above will be the contact person for purchasing this bid item under the joint bid program			(D128)
The bid is accompanied by a current catalog or m model number identified below	nodel specification of	document for the	PRO
The bid is accompanied by a copy of the manufaction in the bid specifications	cturer's standard w	arranty as required	QQ
The bid includes the e-verify documentation requi	ired by Alabama la	w	1012)
If awarded the bid, a performance bond will be provided upon request			(10,100)
The bid documents include the Manufacturer's for the Standard Machine	Suggested Reta	il Price Sheet (MSRF	1068

TRACK-MOUNTED EXCAVATOR - OPTION C-2

Total Bid Price for Standard Machine: \$ <u>221,357.00</u> (Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) *
Freight Preparation and Delivery: \$_7,500.00 (Included in Standard Machine Bid Price)
Manufacturer's Suggested Retail Price for Standard Machine: \$ 263,331.00
Equipment Model #:John Deere 160P
Description: Excavator
Signature of company representative submitting bid: Land Rody

*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 TRACK-MOUNTED EXCAVATOR - OPTION C-2

*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.

BID SPECIFICATIONS FOR TRACK-MOUNTED EXCAVATOR - OPTION C-2

GENERAL

These specifications shall be construed as the minimum acceptable standards for a track mounted hydraulic excavator with long undercarriage. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturers' equipment. The excavator must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

Use of specific names and numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of the counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the bid submittal form included in the invitation to bid package. All written warranties to be submitted shall be attached to the bid submittal form.

BID PRICE

The price bid shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual, one [1] repair manual, and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment. If any replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs to its machine.

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall inc	clude service response time o
maximum of 36 hours within notification by county.	YesX No
	Page#
	or
	Attachment X

WEIGHT

Minimum 39,000 lbs. equipped with minimum 28-inch-wide track shoes.	Yes X No Page # <u>13 & 1</u> 4
Maximum 40,000 lbs. equipped with minimum 28-inch-wide track shoes. ENGINE	Yes <u>X</u> No Page #_13 & 14
ENOME .	
Four Cylinder, turbocharged, minimum 269 cubic inch displacement diesel engine capable of a minimum 115 net horsepower.	Yes <u>X</u> No Page #_14
Engine shall be designed and manufactured by the equipment manufacturer.	Yes X No Page #_ <u>14</u>
<u>UNDERCARRIAGE</u>	
Track length shall be minimum 12' 10".	Yes <u>X</u> No Page # <u>16</u>
Track shoe width shall be minimum 28" (Triple grouser Shoes)	Yes <u>X</u> No Page #_ <u>14</u>
Minimum seven (7) track rollers per side.	Yes <u>X</u> No Page #_14
Minimum two (2) carrier rollers per side.	Yes <u>X</u> No Page # <u>14</u>
CAPACITIES	
Fuel Tank Capacity – 75 gallon minimum	YesX No Page #15
Hydraulic Tank Capacity – 28 gallon minimum	Yes <u>x</u> No Page #15
Engine Coolant – 6 gallon minimum	Yes X No Page #15
BOOM AND STICK	
One piece boom with minimum 16' 9" length	Yes X No Page #15
Stick shall be a minimum 8' 6" long	Yes <u>x</u> No

	Page # <u>15</u>
<u>DIMENSIONS</u>	
Reach at ground level –28' 7" minimum	Yes X No Page #15
Lifting Capacity at ground level, 15' over front of machine shall be a minimum 15,250 lbs.	Yes <u>X</u> No Page # <u>_16</u>
Lifting Capacity at ground level, 15' over side of machine shall be a minimum 9,150 lbs.	Yes <u>X</u> No Page #16
Bucket breakout force – minimum 26,000 lbs.	Yes <u>X</u> No Page # <u>16</u>
Stick digging force – minimum 17,500 lbs.	Yes <u>X</u> No Page # <u>_16</u>
BUCKET	
Standard with no bucket. Buckets will be considered optional a	ittachments.
<u>HYDRAULICS</u>	
Hydraulic pump output shall be a minimum of 78 GPM	Yes <u>x</u> No Page # <u>14</u>
CAB	
Enclosed ROPS cab:	Yes <u>X</u> No Page #24
Heater	Yes <u>X</u> No Page #24
Factory installed air conditioning	YesX No Page # <u>24</u>
AM/FM radio	Yes <u>X</u> No Page #_ <u>24</u>
Suspension seat	Yes <u>X</u> No Page #24

160 P-Tier Excavator

27-Dec-2022

Code Description QTY

List Price (USD)

JOHN DEERE

04D0FF

160 P-Tier Excavator

1

\$272,148.00

160 P-tier Standard Equipment

HYDRAULICS:

Open Center, Load Sensing with Variable Displacement Pumps

Hydraulic Pilot Controls **Axial Piston Swing Motor** Multiple Wet Disk Swing Brake

Auxiliary Valve Section

Adjustable Flow for Attachments Through Monitor

Boom and Arm Reduced Drift Valves

Power Boost Auto Power Lift

Hydraulic Tank Site Gauge

5,000 Hour Hydraulic Oil Change Interval

Hydraulic Oil Sampling Valve

Inline DEF Filter

UNDERCARRIAGE:

Two Speed Propel with Auto-Shift

Axial Piston Propel Motors

Propel Motor Shields

Planetary Final Drives

Sealed Track Chain

Front and Center Track Guides

Provisions for Tie Downs

X-Frame Car Body

Hydraulic Track Adjuster

Seven Lower Rollers

Two Upper Rollers

Spring Applied Hydraulic Released Propel Brake

UPPER STRUCTURE:

Right, Left Mirrors(2)

Toolbox

Vandal Locks for:

Cab Door

Service Doors

Fuel Cap

Tool Box

Counterweight, 7,055 lbs. (3,200 kg)

Work Lights:

One Mounted on Frame

One Mounted on Boom

Debris Screening Side Panel

Remote Mounted Engine Oil and Fuel Filters

FRONT ATTACHMENT:

Steel Bushings

Thrust Plates

Tungsten Carbide Thermal Coating on arm to Bucket Joint

Centralized Lubrication System

Dirt Seals on Bucket Pins

Less Boom

Less Arm

Less Bucket

OPERATOR'S STATION:

Adjustable Control Positions (Levers to Seat, Seat to Pedals)

4" Arm Rests Attached to Side Consoles

Pilot Control Shut-Off Lever

Short Stroke, Low Effort Pilot Levers

Switches for Auxiliary Hydraulic Control on RH Pilot Lever

Deluxe Adjustable Cloth Seat with Suspension, Reclining Backrest, Headrest, and Adjustable Lumbar Support

Multifunction, Color LCD Monitor System with:

Diagnostic Capability

Systems Monitoring Capability

Multiple Language Capability

Maintenance Tracking

Control Pattern Changer

Engine Coolant Temperature Gauge

Engine Coolant Temperature Warning Indicator with Audible Alarm

Engine Oil Pressure Warning Indicator with Audible Alarm

Fuel Gauge with Low Fuel Indicator

Diesel Exhaust Fluid Gauge

Work Mode Indicator

Auto Idle Indicator

Alternator Charge Indicator

Air Filter Restriction Indicator

Fault Code Alert Indicator

Check Engine Indicator

Wiper Mode Indicator

Work Lights On Indicator

Fuel Rate Display

Clock

Hour Meter

Mode Selection:

One Work Mode

Three Power Modes

Numerous Attachment Modes

Auto-Climate Control/Air Conditioner, Heater with Pressurizer

AM-FM Radio

USB Charge Port

Pilot Lever Lock

Rear View Camera

Machine Information Center (MIC)

Windshield Wiper/Washer with Intermittent Speed

12V-60W, 5 Amp Cell Phone Power Outlet

3 In. Retractable Seat Belt

Tinted Safety Glass

Hot/Cold Box Compartment

Horn

Two Cup Holders

Interior Light

Coat Hook

Floor Mat

Motion Alarm with Cancel Switch

Transparent Tinted Roof Hatch with Sunshade

Four Fluid-Filled Elastic Mounts

Easy Access Air Conditioning Filter

Code	Description	QTY	List Price (USD)
04D0FF	160 P-Tier Excavator	1	\$272,148.00
	DESTINATION AND LANGUAGE		
	Destination Codes	Basic Fac	tory Options - Required
202	Destination Code - United States		No Added Cos
	Operator's Manual and Decals	Basic Fac	tory Options - Required
0259	English Customer Delivery Packet		No Added Cost
	PACKAGES		
	Trim Packages	Basic Fac	tory Options - Required
0601	Level 1		No Added Cos
	Includes: - Seat, Standard Mechanical - Standard Front LED Worklights		
602	Level 2 Includes: - Seat, Heated Air-Suspension - Standard Front LED Worklights		\$1,680.00
603	Level 3		\$4,515.00
	Includes: - Seat, Heated Air-Suspension - Deluxe Front LED Worklights - Chrome Exhaust		
0604	Level 4 Includes:		\$5,775.00
	includes: - Seat, Premium Leather – Thermal Heating and Active Cooling - Deluxe Front LED Worklights - Chrome Exhaust		

- Chrome Exhaust

Code	Description	QTY	List Price (USD)
	OPERATOR'S CONTROLS		
	Detection System	Basic Fac	tory Options - Required
1100	Rear Camera System		No Added Cost
1101	Right, Rear and Left Camera System Includes: - Right, Rear and Left LED Lighting		\$4,597.00
	PRECISION TECHNOLOGY SOLUTIONS		
	Machine Connectivity	Basic Fac	tory Options - Required
170K	JDLink™ Includes integrated cab wiring harness, antenna, and JDLink Modem (MTG). JDLink connectivity is enabled separately through the JDLink website. Connectivity service is	s subject to country availab	No Added Cost
	Grade Systems	Basic Fac	tory Options - Required
2000	Less Grade Reference Ready Mounts		No Added Cost
	ENGINE		
	Engine	Basic Fac	tory Options - Required
4070	John Deere PowerTech PSS 4.5L meets FT4/EU Stage IV Emissions		No Added Cost
	MAIN FRAME		
	Boom	Basic Fac	tory Options - Required

5665	Less Boom, Less Boom Cylinders Recommend: Hyd. Filter Restriction Indicator Kit	(\$16,223.00)
5666	Less Boom with Boom Cylinders with plumbing to Main Frame Boom Not Included Recommend: Hyd. Filter Restriction Indicator Kit	(\$6,077.00)
6667	One Piece Boom w/Arm Cyl. and Plumbing 5.1 M (16 ft 8 in) Boom	No Added Cost
	Arm	Basic Factory Options - Required
5715	Less: Arm If bucket is desired, must order attachment separately Recommend: - Hyd. Filter Restriction Indicator Kit and Indicator Coupler	(\$11,047.00)
5717	Arm: Standard 2.6 M (8 ft 6 in) Arm with Bucket Cylinder and Linkage	No Added Cost
5719	Arm: Long 3.1 M (10 ft 2 in) Arm with Bucket Cylinder and Linkage	\$1,568.00
	HYDRAULICS	
	Auxiliary Hydraulics	Basic Factory Options - Required
000	Less: Auxiliary Hydraulics	(\$5,878.00)
001	Auxiliary High-Flow Lines with AFL and Auxiliary Relief Pressure Adjustment Includes: - Combination auxiliary hydraulic piping with dedicated stop valves for each attachment. - Auxiliary Function Lever (AFL) right-hand joystick for electronic proportional auxiliary control. - Ability to set, confirm, and adjust the auxiliary relief pressure for an attachment.	\$5,238.00
005	Aux High-Flow Lines Only with Push Button Control Grip	No Added Cost

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QTY

List Price (USD)

Page 5 of 11

Description

Code

27-Dec-2022

Code	Description	QTY	List Price (USD
	Includes: - Combination auxiliary hydraulic piping with dedicated stop valves for each attachment Requires dealer installed 1-way solenoid kit, 2-way solenoid kit or a foot pedal kit for auxiliary hydraulic piping with dedicated stop valves for each attachment.	draulics functionalit	y.
	Hydraulic Coupler Ready	Basic Fac	tory Options - Required
7040	Less: Hydraulic Coupler Ready		No Added Cos
7041	Hydraulic Coupler Ready Lines and Controls - Adds dedicated hydraulic lines and control circuit for hydraulic quick coupler installations.		\$3,255.0
	TRACKS		
	Track Shoes	Basic Fac	tory Options - Required
5702	600 mm (24 In.) Steel Track with Triple Semi-Grouser Shoes		(\$1,142.0
5707	700 mm (28 In.) Steel Track with Triple Semi-Grouser Shoes Recommended for general conditions and soft terrain.		No Added Co
	ATTACHMENTS		
	Buckets	Basic Fac	tory Options - Required
7800	Less: Bucket		No Added Co
7813	36 In. Heavy Duty Bucket w/ Teeth 36 Inch (900MM) 0.94 Cubic Yard (0.72 Cubic Meter) Heavy Duty Bucket Includes Five (5) TK300 Series Teeth		\$8,115.0
7814	42 In. Heavy Duty Bucket w/ Teeth 42 Inch (1050MM) 1.14 Cubic Yard (0.87 Cubic Meter) Heavy Duty Bucket Includes (5) TK400 Series Teeth.		\$8,741.0
7815	48 In. Heavy Duty Bucket w/ Teeth		\$9,444.0
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Code	Description	QTY	List Price (USD)
	48 Inch (1220 MM) 1.96 Cubic Yard (1.50 Cubic Meter) Heavy Duty Bucket Includes Six (6) TK400 Series Teeth		
	MISCELLANEOUS PRODUCT LINE		
	Filter	Field Installed	Attachments - Optional
8124	Fuel Filter, Severe-Duty Recommended for harsh conditions.		\$184.00
	Single Pedal Propel	Field Installed	Attachments - Optional
8261	Single Pedal Propel Additional pedal for tracking both tracks simultaneously in the same direction		\$2,372.00
	Shipping Preparation	Field Installed	Attachments - Optional
8262	Special Export Preparation Do not install front for shipping		No Added Cost
	Cold Weather Package	Field Installed	Attachments - Optional
8500	Cold Weather Package Includes Engine Block Heater		\$630.00
	Debris Package	Field Installed	Attachments - Optional
8501	Debris Package Includes Reversing Variable Speed Fan Drive - Reversing fan features selectable intervals and manual override.		\$2,625.00
	MISCELLANEOUS		
	Hydraulics	Field Installed	Attachments - Optional
27-Dec-2022	Copyright © 2022 Deere Company. All Rights Reserved.		Page 7 of 11

AT390776	Single Pedal Propel Kit	\$2,143.00
AT461528	Proportional Auxiliary Hydraulic Control Kit Includes joysticks, wiring, and valves.	\$3,091.00
AT442872	Hydraulic Filter Restriction Indicator Kit For iT4 and FT4 only.	\$797.00
AT445459	Control Solenoids for 2-Way Auxiliary Hydraulics Monitor can be used to control hydraulic flow. Can be used with either right-hand or left-hand control handle.	\$808.00
AT445803	Hydraulic Filter Restriction Indicator Kit	\$797.00
AT327652	Control Handle for Auxiliary Hydraulics, Left-Hand Requires control solenoid for either 1-way or 2-way auxiliary hydraulics. Recommended for use with auxiliary hydraulic lines.	\$530.00
	Guards	Field Installed Attachments - Optional
AT390802	Cab FOPS Guard FOPS Level II, ISO 10262 Certified	\$3,259.00
	Operator Environment	Field Installed Attachments - Optional
BYT11141	Full Length Front Guards	\$1,547.00
BYT11977	Light Kit, 130-350 LED LIGHT KIT	\$1,700.00
ETN93549	Stereo adapter for phone or music device.	\$226.00

QTY

List Price (USD)

Description

Code

Code	Description

QTY

List Price (USD)

	Hydraulic Couplers	Field Installed Attachments - Optional
BYT12948	Hydraulic Quick Coupler (Variable-type Pin-Grabber) 160 - Coupler Only Coupler kit ONLY. Includes coupler, jumper hoses, and one set of dead pins. Controls components NOT included. Also purchase Controls Kit BYT11627. Not compatible with hydraulic thumb AT379644, AT379645, AT379646, or AT379647.	\$9,340.00
BYT11626	Hydraulic Quick Coupler (Variable-type Pin-Grabber) - Coupler Only Coupler kit ONLY. Includes coupler, jumper hoses, and one set of dead pins. Controls components NOT included. Also purchase Controls Kit BYT11627. Not compatible with hydraulic thumb AT379644, AT379645, AT379646, or AT379647.	\$9,964.00
BYT11627	Hydraulic Quick Coupler Controls Kit, (Variable-type Pin-Grabber) - Controls Kit Only Controls kit ONLY. Includes hydraulic control components, electrical control components and component of arm. Does not include hydraulic quick coupler - also purchase BYT11626. May not be required if replacing existing hydraulic quick coupler.	\$1,774.00 onents to manifold on
AT452017	Hydraulic Quick Coupler (Non-Variable type) - Coupler and Controls Kit Includes non-variable hydraulic quick coupler with hydraulic and electrical control components	\$9,324.00
AT345608	Installation Charge for Hydraulic Quick Coupler When ordering Hydraulic Quick Coupler (Variable-type Pin-Grabber) must order both Coupler and Coupler Installation Charge Order also requires attachment part number, SHIP-TO address for Paladin Custor related machine order number. The related machine order must reference the attachment order number. Order code available only for Kernersville, North Carolina installations.	\$1,471.00 ontrols attachment kits. m Works, AND reference
	G.R.Mfg.	Field Installed Attachments - Optional
AT430874	Slant Top Rub Rails	\$2,092.00
AT430878	Counterweight, Bottom Mount, 1500 lbs. Counterweights are painted yellow	\$8,234.00
AT430784	Rear Work Lights Package	\$1,993.00
ETN210311	Front Window Guard, Polycarbonate	\$3,982.00

Code	Description	QTY List Price (USD)
	Overall Vehicle	Field Installed Attachments - Optional
BYT11005	Vandal Covers After Serial # 57100	\$3,053.00
	BUCKETS	
	Buckets, Heavy-Duty	Field Installed Attachments - Optional
BYT11154	36 In (914 mm), 0.81 yd3 (0.62 M3) Heavy-Duty Bucket Includes Five (5) John Deere TK-Series Fanggs Teeth (TK350FD).	\$5,856.00
BYT11155	42 In (1067 mm), 0.99 yd3 (0.76 M3) Heavy-Duty Bucket Includes Five (5) John Deere TK-Series Fanggs Teeth (TK350FD)	\$6,119.00
BYT11156	48 In (1220 mm), 1.17 yd3 (0.89 M3) Heavy-Duty Bucket Includes Six (6) John Deere TK-Series Fanggs Teeth (TK350FD).	\$6,628.00
BYT11152	24 In (610 mm), 0.47 yd3 (0.36 M3) Heavy-Duty Bucket Includes Four (4) John Deere TK-Series Fanggs Teeth (TK350FD). Not compatible with Progressive Hydraulic Thumb.	\$4,998.00
BYT11153	30 In (762 mm), 0.64 yd3 (0.49 M3) Heavy-Duty Bucket Includes Four (4) John Deere TK-Series Fanggs Teeth (TK350FD). Not compatible with Progressive Hydraulic Thumb.	\$5,367.00
	Buckets, Side Cutters	Field Installed Attachments - Optional
AT342511	Edge Protector Kit	\$655.00
AT342512	Side-Cutter Kit, 3 inch	\$679.00
	Hydraulic Thumb Kits	Field Installed Attachments - Optional

AT379644	Hydraulic Thumb Kit, Direct Teeth matching between the bucket and thumb will depend on the bucket width, number of teeth, and tooth spacing. Please see DMAC solution 94331 for optimum thumb and bucket teeth engagement. Not compatible with couplers.	\$9,877.00
АТ379645	Hydraulic Thumb Kit, Direct for Couplers Teeth matching between the bucket and thumb will depend on the bucket width, number of teeth, and tooth spacing. Please see DMAC solution 94331 for optimum thumb and bucket teeth engagement. Not compatible with Hydraulic Quick Coupler (Variable-type Pin-Grabber) BYT11626.	\$9,877.00
AT379646	Hydraulic Thumb Kit, Progressive Teeth matching between the bucket and thumb will depend on the bucket width, number of teeth, and tooth spacing. Please see DMAC solution 94331 for optimum thumb and bucket teeth engagement. Only available for the following arm lengths: 160 3.1M (10'2") Not compatible with couplers.	\$12,286.00
AT379647	Hydraulic Thumb Kit, Progressive for Couplers Teeth matching between the bucket and thumb will depend on the bucket width, number of teeth, and tooth spacing. Please see DMAC solution 94331 for optimum thumb and bucket teeth engagement. Only available for the following arm lengths: 160 3.1M (10'2") Not compatible with Hydraulic Quick Coupler (Variable-type Pin-Grabber) BYT11626.	\$12,286.00

Manufacturer's Suggested List Price shown. Retail prices may vary by dealer. Unless stated otherwise, taxes, freight, setup, delivery and other dealer specific charges not included in the pricing. Options/items noted with anything other than price will have additional costs. Pricing, availability, and specifications subject to change without notice. Special program pricing may be available on certain models. See dealer for details. Prices shown are in U.S. dollars and valid only in the U.S.

Excavator / 160 P / US

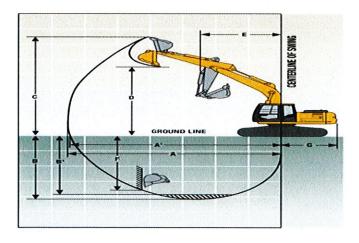
160 P Preliminary Specifications

Excavator / 100 1 / 0		LIGIIII	illiai y	Opcc.
Base engine for use in U.S., U.S. Terr				
Manufacturer and Model	John Deere PowerTech PW			
Non-Road Emission Standards	Certified to Final Tier 4 / EL	l Stage IV en	nissions	
Net Rated Power (ISO 9249)	90 kW @ 2,200 rpm	121.73	hp	
Cylinders	4			
Displacement	4.5 L	274.6	1 cu in.	
Off Level Capacity	70% 35°			
Aspiration	Series Turbocharg	ed, air-to-air	charge-air	cooler
Optional engine for use outside the U	.S. and U.S. Territories			
Manufacturer and Model	John Deere 4045H			
Non-Road Emission Standards	meets Tier 3 / Stage IIIA en	nissions		
Net Rated Power (ISO 9249)	90 kW @ 1,900 rpm	120.69	hp	
Cylinders	4			
Displacement	4.5 L	274.61	cu in.	
Off Level Capacity	70% 35°			
Aspiration	turbocharged, air-to-air cha	rge air cooler		
	Cooling			
Cool-on-demand hydraulic-driven, suction		drive		
	Powertrain			
Two Speed Propel with Automatic Shift				
Maximum Travel Speed				
Low	3.4 km/h	2.1	1 mph	
High	5.3 km/h		9 mph	
Drawbar Pull	17 250 kg	38029.74		
	Hydraulics			Harrie Land
Open Center, Load Sensing				
Main Pumps	two variable-displacement a	axial-piston p	umps	
Maximum Rated Flow	191.0 L/m	50.46	gpm	2 x
Pilot Pump	one gear		Jr	
Maximum Rated Flow	33.6 L/m	8.88	gpm	
Pressure Setting	3,930 kPa	570.00	psi	
System Operating Pressure		100000 10000 TXTX	•	
Implement Circuits	34 336 kPa	4980.02	psi	
Travel Circuits	34 336 kPa	4980.02	psi	
Swing Circuits	34 336 kPa	4980.02	psi	
Power Boost	38 000 kPa	5511.43	psi	
Controls				
Pilot Levers, Short Stroke, Low Effort Hy	draulic Pilot Controls with Shut O	ff		
		<u></u>		
				_

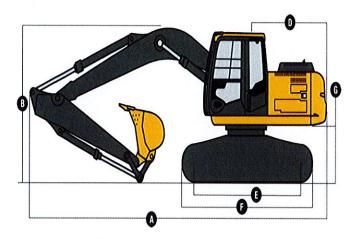
	Cylinders		ADDITION OF THE
Boom (2)			
Bore	110 mm	4.33	in.
Rod Diameter	80 mm	3.15	in.
Stroke	1110 mm	43.70	in.
Arm (1)			
Bore	120 mm	4.72	in.
Rod Diameter	90 mm	3.54	in.
Stroke	1365 mm	53.74	in.
Bucket (1)			
Bore	105 mm	4.13	in.
Rod Diameter	75 mm	2.95	in.
Stroke	935 mm	36.81	in.
	Electrical		
Number of Batteries (12 volt)	2		
Battery Capacity	950 CCA		
Alternator Rating	100 amp		
Work Lights	2 LED - 1 on LH side of boom, 1	on frame	
	Undercarriage		

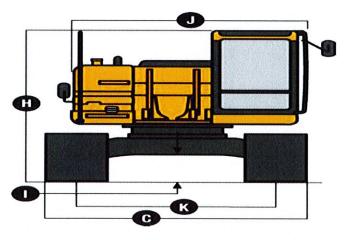
Carrier Rollers (per side)	2		
Track Rollers (per side)	7		
Shoes (per side)	43		
Track Adjustment	Hydraulic		
Track Guides	Front and Center		
Track Chain	Sealed and Lubricated		
	Ground Pressure		
600 mm (24-in.) Triple Semi-Grouser Shoes	41 kPa	5.95	psi
700 mm (28-in.) Triple Semi-Grouser Shoes	35 kPa	5.08	psi
	Swing Mechanism		
Swing Speed	13.3 rpm		
Swing Torque	44000 Nm	32352.94	lb. ft
	Serviceability		
Refill Capacities			
Fuel Tank	285 L	75.29	gal
Cooling System	23.5 L	24.83	qt.
Engine Oil with Filter	17.0 L	17.96	qt.
Hydraulic Tank	125 L	33.02	gal
Hydraulic System	210 L	55.48	gal
Swing Gearbox	6.2 L	6.55	qt.
Propel Gearbox (each)	6.8 L	7.19	qt.
Pump Drive Gearbox	0.9 L	0.95	qt.
DEF Tank	26.7 L	28.16	_qt.

Oi	perating Weights		
With Full Fuel Tank; 79 kg (175-lb.) Operator; 91	4 mm (36-in.), 0.60 m3	3 (0.78-cu-yd.),	528 kg (1,164-lb.)
	17 945 kg	39526.43	lb.
	17717.00 kg	39024.23	lb.
Optional Components			
Undercarriage			
600 mm (24-in.) Triple Semi-Grouser Shoes	6316 kg	13911.89	lb.
700 mm (28-in.) Triple Semi-Grouser Shoes	6530 kg	14383.26	lb.
One-Piece Boom (with arm cylinder)	1300 kg	2863.44	lb.
Arm with Bucket Cylinder and Linkage			
2.60 m (8 ft 6 in.)	788 kg	1735.68	lb.
3.10 m (10 ft 2 in.)	874 kg	1925.11	lb.
Boom Lift Cylinders (2) Total Weight	306 kg	674.01	lb.
Ope	rating Dimensions		



Arm	Length 2.60 m	8 ft 6 i	n.)		
Arm Digging Force (SAE)	89.82	kN	20,193	lb.	
Arm Digging Force (ISO)	92.69	kN	20,838	lb.	
Bucket Digging Force (SAE)	104.96	kN	23,598	lb.	-
Bucket Digging Force (ISO)	112.0	kN	25179.86	lb.	
A Maximum Reach	8.87	7 m	349.21	in.	29 ft 1 in.
A' Maximum Reach at Ground Level	8.7	m m	342.52	in.	28 ft 7 in.
B Maximum Digging Depth	5.98	3 m	235.43	in.	19 ft 7 in.
B' Maximum Digging Depth at 2.44 m (8 ft) Flat Bottom	5.74	l m	225.98	in.	18 ft 10 in.
C Maximum Cutting Height	8.88	3 m	349.61	in.	29 ft 2 in.
D Maximum Dumping Height	6.17	m m	242.91	in.	20 ft 3 in.
E Minimum Swing Radius	2.9	m	114.57	in.	9 ft 7 in.
F Maximum Vertical Wall	5.16	m	203.15	in.	16 ft 11 in.
G Tail Swing Radius	2.55		100.39	in.	8 ft 4 in.
Arm	Length 3.10 m (10 ft 2	in.)		
Arm Digging Force (SAE)	79.43	kN	17,857	lb.	
Arm Digging Force (ISO)	81.0	kN	18210.43	lb.	
Bucket Digging Force (SAE)	104.96	kN	23,598	lb.	
Bucket Digging Force (ISO)	112.0	kN	25179.86	lb.	
A Maximum Reach	9.33	m	367.32	in.	30 ft 7 in.
A' Maximum Reach at Ground Level	9.16	m	360.63	in.	30 ft 1 in.
B Maximum Digging Depth	6.49	m	255.51	in.	21 ft 4 in.
B' Maximum Digging Depth at 2.44 m (8 ft) Flat Bottom	6.27	m	246.85	in.	20 ft 7 in.
C Maximum Cutting Height	9.13	m	359.45	in.	29 ft 11 in.
D Maximum Dumping Height	6.40	m	251.97	in.	20 ft 12 in.
E Minimum Swing Radius	2.92	m	114.96	in.	9 ft 7 in.
F Maximum Vertical Wall	5.69	m	224.02	in.	18 ft 8 in.
G Tail Swing Radius	2.55	m	100.39	in.	8 ft 4 in.
	Machine Dimen	sions	THE STATE OF THE S		





A Overall length 2.60 m (8 ft 6 in.) arm	8.62 m	339.37	in.	28 ft 3 in.
Overall length 3.10 m (10 ft 2 in.) arm	8.65 m	340.55	in.	28 ft 5 in.
B Overall Height 2.60 m (8 ft 6 in.) arm	2.87 m	112.99	in.	9 ft 5 in.
Overall Height 3.10 m (10 ft 2 in.) arm	3.11 m	122.44	in.	10 ft 2 in.
C Rear-End Length/Swing Radius	2.55 m	100.39	in.	8 ft 4 in.
D Distance Between Idler/Sprocket	3.10 m	122.05	in.	10 ft 2 in.
Centerline	3.10 111	122.05	III.	
E Undercarriage Length	3.92 m	154.33	in.	12 ft 10 in.
F Counterweight Clearance	1030 mm	40.55	in.	3 ft 5 in.
G Upperstructure Width	2.50 m	98.43	in.	8 ft 2 in.
H Cab Height	2.95 m	116.14	in.	9 ft 8 in.
I Track Width with Triple Semi-Grouser				
Shoes				
600 mm (24-in.)	0.60 m	2	24 in.	2 ft 0 in.
700 mm (28-in.)	0.70 m	2	28 in.	2 ft 4 in.
J Gauge Width	1.99 m	78.35	in.	6 ft 6 in.
K Ground Clearance	470 mm	18.50	in.	1 ft 7 in.
L Overall Width With Triple Semi-Grouser	2.50	101.07	1	0.4.C.in
Shoes 600 mm (24-in.)	2.59 m	101.97	in.	8 ft 6 in.
700 mm (28-in.)	2.69 m	105.91	in.	8 ft 10 in.
-	IET CHAPTS			

LIFT CHARTS

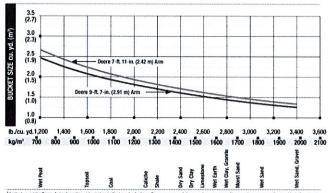
The load point is the arm tip position (bucketless), using standard counterweight, situated on firm, level, uniform supporting surface.
Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. Figures in bold are hydraulically-limited capacities. Remaining figures are stability-limited capacities.

Lift Capacity 160P			ulically lin	nited capacity	all Sale		
Arm: 2.60 m (8 ft 6 in.)	Bucket: N/A Shoe: 600 mm (24 in						
	Horizontal Distance from Centerline of Rotation						
ifting over front m	1.5	3.0	4.5	6.0	7.		
oad Point Height ft	5	10	15	20	2		
6.0 m		34 X P					
20 ft							
4.5 m			4,570	4,300			
15 ft		i de la constantina	9,920	9,430			
3.0 m		8,880	5,880	4,850			
10 ft		18,910	12,710	10,570			
1.5 m			7,270	4,950			
5 ft			15,720	10,680			
Ground line m		6,260	7,420	4,830			
ft		14,450	15,970	10,420			
-1.5 m	5,740	10,420	7,360	4,790			
-5 ft	12,870	23,810	15,830	10,340			
-3.0 m	10,310	11,050	7,430				
-10 ft	23,240	23,930	15,990				
Arm: 2.60 m (8 ft 6 in.)	Bucket: N/A			Shoe: 600 mm (24 ii			
lifting over side m	1.5	3.0	4.5	6.0	7		
oad Point Height ft	5	10	15	20	1		
6.0 m							
20 ft	Control Control						
4.5 m			4,570	3,490			
15 ft		and the second	9,920	7,510			
3.0 m		8,880	5,100	3,360			
10 ft		18,910	11,020	7,240			
1.5 m			4,770	3,210			
5 ft			10,310	6,930			
Ground line m		6,260	4,580	3,100			
ft ft		14,450	9,880	6,700			
-1.5 m	5,740	8,320	4,520	3,070			
-5 ft	12,870	17,870	9,760	6,630			
-3.0 m	10,310	8,470	4,580	10 de 10 de	1/2/200		
	23,240	18,210	9,900				

Lift Capacity 160P Arm: 2.60 m (8 ft 6 in.)	Bold = hydraulically limited capacity Bucket: N/A Shoe: 700 mm (28 in)					
	Horizontal Dis	stance from		f Rotation		
Lifting over front m	1.5	3.0	4.5	6.0	7.5	
Load Point Height ft 6.0 m	5	10	15	20	25	
20 ft						
4.5 m			4,570	4,300		
15 ft 3.0 m		8,880	9,920 5,880	9,430 4,850		
10 ft	100000	18,910	12,710	10,570		
1.5 m			7,270	4,990	17.77.97	
5 ft		0.000	15,720	10,770		
Ground line m		6,260 14,450	7,480 16,110	4,880 10,510		
-1.5 m	5,740	10,420	7,420	4,830		
-5 ft	12,870	23,810	15,960	10,430		
-3.0 m	10,310	11,050	7,490			
-10 ft Arm: 2.60 m (8 ft 6 in.)	23,240	23,930 Bucket: N/A	16,120	Shoe: 700 i	mm (28 in)	
Lifting over side m	1.5	3.0	4.5	6.0	7.5	
Load Point Height ft	5	10	15	20	25	
6.0 m						
20 ft 4.5 m			4,570	3,520		
15 ft			9,920	7,590		
3.0 m		8,880	5,150	3,390		
10 ft 1.5 m		18,910	11,140 4,830	7,320 3,250		
1.5 III 5 ft			10,430	7,010		
Ground line m		6,260	4,630	3,140		
ft		14,450	10,000	6,780		
-1.5 m -5 ft	5,740 12,870	8,410 18,080	4,570 9,870	3,100 6,710		
-3.0 m	10,310	8,560	4,640	0,710	10000	
-10 ft	23,240	18,410	10,010			
Lift Capacity 160P		Bold = hydi	aulically lin	nited capaci	ty	
Arm: 3.10 m (10 ft 2 in.)	Horizontal Di	Bucket: N/A	Centerline o	Shoe: 600	mm (24 in)	
Lifting over front m	1.5	3.0	4.5	6.0	7.5	
Load Point Height ft	5	10	15	20	25	
6.0 m 20 ft				3,380		
4.5 m		T SOURCE STATE		7,170 3,870		
15 ft	To Constitution			8,490		
3.0 m		7,410	5,280	4,470	3,360	
10 ft		15,820	11,420	9,750	6,760	
1.5 m 5 ft	ti condita.	7,570 18,220	6,780 14,660	4,960 10,700	3,560 7,680	
Ground line m		6,850	7,420	4,820	3,500	
t t		15,760	15,970	10,390	7,550	
-1.5 m	5,170	9,640	7,310	4,750		
-5 ft -3.0 m	11,580 8,710	21,990 11,680	15,720 7,330	10,240 4,780		
-10 ft	19,610	25,280	15,780	10,310		
-4.5 m		9,390	6,330			
-15 ft Arm: 3.10 m (10 ft 2 in.)		20,090	13,350	Chas: 600	mm (24 in)	
Lifting over side m	1.5	Bucket: N/A 3.0	4.5	Shoe: 600 6.0	mm (24 in) 7.5	
Load Point Height ft	5	10	15	20	25	
6.0 m				3,380		
20 ft 4.5 m				7,170 3,530		
15 ft				7,600		
3.0 m		7,410	5,180	3,380	2,400	
10 ft		15,820	11,200	7,300	5,160	
1.5 m 5 ft		7,570 18,220	4,820 10,410	3,220 6,940	2,320 5,010	
Ground line m		6,850	4,570	3,080	2,270	
ft		15,760	9,870	6,660	4,890	
-1.5 m	5,170	8,210	4,470	3,020		
-5 ft -3.0 m	11,580 8,710	17,650 8,310	9,650 4,490	6,520 3,040		
-3.0 m -10 ft	19,610	17,880	9,700	6,590		

-15 ft | 18 490 | 10 100 |

Lift Capacity 160P	Section 18	Bold = hydraulically limited capacity					
Arm: 3.10	m (10 ft 2 in.)	E STATE OF THE	Bucket: N/A		Shoe: 700	mm (28 in)	
		Horizontal Dis					
Lifting over front	m	1.5	3.0	4.5	6.0	7.5	
Load Point Height	ft	5	10	15	20	25	
	6.0 m	Special Colorest		3/4/8/27	3,380		
274	20 ft				7,170		
	4.5 m				3,870		
	15 ft				8,490		
	3.0 m		7,410	5,280	4,470	3,360	
Part Section 1	10 ft		15,820	11,420	9,750	6,760	
	1.5 m		7,570	6,780	5,010	3,590	
Section 1	5 ft		18,220	14,660	10,790	7,750	
	Ground line m		6,850	7,490	4,860	3,530	
	ft		15,760	16,110	10,480	7,620	
	-1.5 m	5,170	9,640	7,370	4,790		
	-5 ft	11,580	21,990	15,850	10,330		
	-3.0 m	8,710	11,680	7,390	4,820	STATE OF STREET	
	-10 ft	19,610	25,280	15,910	10,400		
Marie Control	-4.5 m		9,390	6,330		C. T. Shall	
	-15 ft		20,090	13,350	100		
Arm: 3.10	m (10 ft 2 in.)		Bucket: N/A	356.600	Shoe: 700	mm (28 in)	
Lifting over side	m	1.5	3.0	4.5	6.0	7.5	
Load Point Height	ft	5	10	15	20	28	
	6.0 m				3,380		
	20 ft	1.10 (1.00)			7,170		
	4.5 m		Last California		3,560	(3.3.90)	
	15 ft	ACCEPTANCE OF	AND CO.	N. 1004 3	7,680		
Mode of the Section o	3.0 m		7,410	5,420	3,420	2,420	
	10 ft		15,820	11,310	7,380	5,220	
	1.5 m		7,570	4,870	3,250	2,350	
	5 ft		18,220	10,530	7,020	5,070	
	Ground line m		6,850	4,630	3,120	2,290	
	ft		15,760	9,990	6,740	4,950	
	-1.5 m	5,170	8,300	4,530	3,060		
	-5 ft	11,580	17,850	9,760	6,600		
	-3.0 m	8,710	8,410	4,550	3,080		
	-10 ft	19,610	18,080	9,820	6,670		
	-4.5 m		8,680	4,710		S. (308)	
	-15 ft		18,690	10,210			



"Contact your John Discre-delaw for optimise busive and arbitrational selections. These encommendations are for general conditions and average use. Does not include opposed expenses such as found to a couplest Lamps business have been early select notificated, but find and level operations less compacted materials and volume baseling explorations such as made accession supplies above in finded or more proposed and arms and accession supplies and arms and accession of the applications such as discretizations. And unknown