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 this bid item under the joint bid program	the contact person	for purchasing	(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 pre-	ovided upon reques	st	(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>
UNDERCARRIAGE	
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

October 3, 2022

Association of County Commissions of Alabama 2 North Jackson Street Montgomery, AL 36104

Joint Bid Program,

On 1 October, 2022 John Deere announced a price increase effective 1 November, 2022. This increase is 5% for all items being bid by Warrior Tractor & Equipment Company. Due to your 07 October, 2022 bid date the price pages we are providing per your specifications do not include this price increase. New prices pages will not be available until after 1 November, 2022

Due to this increase, 5% will need to be added on all price page options. Our bids reflect the increase on our bid prices.

Thank you and please give me a call if there are any questions.

David Schafer

District Sales Manager



6801 McFarland Blvd.W. P.O. Box 412 Northport, AL 35476 Phone: (205) 339-0300 Fax: (205) 333-0101 www.warriortractor.com

Graysville Huntsville Monroeville Montgomery Oxford Pelham

Representing:
John Deere
Hitachi
Leica
Fuchs/Terex
Sakai
Bomag
Morbark
NPK
Talbert

160 P Excavator

29-Sep-2022

Code

Description



QTY

List Price (USD)

04D0FF

160 P Excavator

1

\$256,743.00

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 Excavator	1	\$256,743.00
	DESTINATION AND LANGUAGE		
	Destination Codes	Basic Fact	ory Options - Required
0202	Destination Code - United States		No Added Cost
	Operator's Manual and Decals	Basic Fact	ory Options - Required
0259	English Customer Delivery Packet		No Added Cost
	PACKAGES		
	Trim Packages	Basic Fact	ory Options - Required
0601	Level 1 Includes: - Seat, Standard Mechanical - Standard Front LED Worklights		No Added Cost
0602	Level 2 Includes: - Seat, Heated Air-Suspension - Standard Front LED Worklights		\$1,600.00
0603	Level 3 Includes: - Seat, Heated Air-Suspension - Deluxe Front LED Worklights - Chrome Exhaust		\$4,300.00
0604	Level 4 Includes: - Seat, Premium Leather – Thermal Heating and Active Cooling - Deluxe Front LED Worklights - Chrome Exhaust		\$5,500.00
	OPERATOR'S CONTROLS		
	Detection System	Basic Fac	ory Options - Required

	•	
100	Rear Camera System	No Added Cos
101	Right, Rear and Left Camera System Includes:	\$4,378.00
	- Right, Rear and Left LED Lighting	
	PRECISION TECHNOLOGY SOLUTIONS	
	Machine Connectivity	Basic Factory Options - Required
701/	IDLE-LIN	
70K	JDLink™ Includes integrated cab wiring harness, antenna, and JDLink Modem (MTG).	No Added Cos
	JDLink connectivity is enabled separately through the JDLink website. Connectivity service is	subject to country availability.
	Grade Systems	Basic Factory Options - Required
000	Less Grade Reference Ready Mounts	No Added Cos
	ENGINE	
	Engine	Basic Factory Options - Required
		2 (
070	John Deere PowerTech PSS 4.5L meets FT4/EU Stage IV Emissions	
070	John Deere PowerTech PSS 4.5L meets FT4/EU Stage IV Emissions MAIN FRAME	
070		
070	MAIN FRAME	No Added Cos

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QTY

List Price (USD)

Page 4 of 8

Description

Code

29-Sep-2022

Code	Description	QTY	List Price (USD)
	Recommend: Hyd. Filter Restriction Indicator Kit		
6666	Less Boom with Boom Cylinders with plumbing to Main Frame Boom Not Included Recommend: Hyd. Filter Restriction Indicator Kit		(\$5,788.00)
6667	One Piece Boom w/Arm Cyl. and Plumbing 5.1 M (16 ft 8 in) Boom		No Added Cost
	Arm	Basic Fac	ctory Options - Required
6715	Less: Arm If bucket is desired, must order attachment separately Recommend: - Hyd. Filter Restriction Indicator Kit and Indicator Coupler		(\$10,521.00)
6717	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		\$1,493.00
	HYDRAULICS		
	Auxiliary Hydraulics	Basic Fac	ctory Options - Required
7000	Less: Auxiliary Hydraulics		(\$5,598.00)
7001	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.		\$4,988.00
7005	Aux High-Flow Lines Only with Push Button Control Grip 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.	raulics functionali	No Added Cost
	Hydraulic Coupler Ready	Basic Fa	ctory Options - Required

7040	Less: Hydraulic Coupler Ready	No Added Cost
7041	Hydraulic Coupler Ready Lines and Controls	\$3,100.00
	 Adds dedicated hydraulic lines and control circuit for hydraulic quick coupler installations Compatible with select aftermarket couplers from Paladin, Strickland, Rockland and Brandt. 	
	TRACKS	
	Track Shoes	Basic Factory Options - Required
5702	600 mm (24 In.) Steel Track with Triple Semi-Grouser Shoes	(\$1,088.00)
5707	700 mm (28 In.) Steel Track with Triple Semi-Grouser Shoes Recommended for general conditions and soft terrain.	No Added Cost
	ATTACHMENTS	
	Buckets	Basic Factory Options - Required
7800	Less: Bucket	No Added Cost
7813	36 In. Heavy Duty Bucket w/ Teeth 36 Inch (900MM) 0.94 Cubic Yard (0.72 Cubic Meter) Heavy Duty Bucket	\$7,377.00
	Includes Five (5) TK300 Series Teeth	
7814	42 In. Heavy Duty Bucket w/ Teeth	\$7,946.00
	42 Inch (1050MM) 1.14 Cubic Yard (0.87 Cubic Meter) Heavy Duty Bucket Includes (5) TK400 Series Teeth.	
7815	48 In. Heavy Duty Bucket w/ Teeth	\$8,585.00
	48 Inch (1220 MM) 1.96 Cubic Yard (1.50 Cubic Meter) Heavy Duty Bucket Includes Six (6) TK400 Series Teeth	
	MISCELLANEOUS PRODUCT LINE	

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QTY

List Price (USD)

Page 6 of 8

Description

Code

29-Sep-2022

Description	QTY	List Price (USD)
Filter	Field Installed	Attachments - Optional
Fuel Filter, Severe-Duty		\$175.00
Recommended for harsh conditions.		
Single Pedal Propel	Field Installed	Attachments - Optional
Single Pedal Propel Additional pedal for tracking both tracks simultaneously in the same direction		\$2,259.00
Shipping Preparation	Field Installed	Attachments - Optional
Special Export Preparation Do not install front for shipping		No Added Cost
Cold Weather Package	Field Installed	Attachments - Optional
Cold Weather Package Includes Engine Block Heater		\$600.00
Debris Package	Field Installed	Attachments - Optional
Debris Package		\$2,500.00
Includes Reversing Variable Speed Fan Drive - Reversing fan features selectable intervals and manual override.		
MISCELLANEOUS		
Hydraulics	Field Installed	Attachments - Optional
Single Pedal Propel Kit		\$2,143.00
	Filter Fuel Filter, Severe-Duty Recommended for harsh conditions. Single Pedal Propel Single Pedal Propel Additional pedal for tracking both tracks simultaneously in the same direction Shipping Preparation Special Export Preparation Do not install front for shipping Cold Weather Package Cold Weather Package Includes Engine Block Heater Debris Package Includes Reversing Variable Speed Fan Drive - Reversing fan features selectable intervals and manual override. MISCELLANEOUS Hydraulics	Filter Field Installed Fuel Filter, Severe-Duty Recommended for harsh conditions. Single Pedal Propel Additional pedal for tracking both tracks simultaneously in the same direction Shipping Preparation Field Installed Special Export Preparation Do not install front for shipping Cold Weather Package Includes Engine Block Heater Debris Package Includes Reversing Variable Speed Fan Drive - Reversing fan features selectable intervals and manual override. MISCELLANEOUS Hydraulics Field Installed

Code	Description	QTY List Prid	ce (USD)
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
	Guards	Field Installed Attachments - (Optional
AT390802	Cab FOPS Guard FOPS Level II, ISO 10262 Certified		\$3,259.00
	Operator Environment	Field Installed Attachments - 0	Optional
BYT11141	Full Length Front Guards		\$1,547.00

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.

160 P Excavator

13-Sep-2022



Code	Description			
04D0FF	160 P Excavator	1	\$256,743.00	
	Option Codes			
0202	Destination Code - United States	1	No Added Cost	
0259	English Customer Delivery Packet	1	No Added Cost	
0602	Level 2	1	\$1,600.00	
	Includes: - Seat, Heated Air-Suspension - Standard Front LED Worklights			
1100	Rear Camera System	1	No Added Cost	
170K	JDLink™	1	No Added Cost	
	Includes integrated cab wiring harness, antenna, and JDLink Modem (MTG).			
	JDLink connectivity is enabled separately through the JDLink websi subject to country availability.	te. Conn	ectivity service is	
2000	Less Grade Reference Ready Mounts	1	No Added Cost	
4070	John Deere PowerTech PSS 4.5L meets FT4/EU Stage	1	No Added Cost	
6667	One Piece Boom w/Arm Cyl. and Plumbing	1	No Added Cost	
	5.1 M (16 ft 8 in) Boom			
6717	Arm: Standard	1	No Added Cost	
	2.6 M (8 ft 6 in) Arm with Bucket Cylinder and Linkage			
7001	Auxiliary High-Flow Lines with AFL and Auxiliary Relie Includes: - Combination auxiliary hydraulic piping with dedicated stop valves	1 for each	\$4,988.00	
	 Auxiliary Function Lever (AFL) right-hand joystick for electronic pro Ability to set, confirm, and adjust the auxiliary relief pressure for ar 	portiona	l auxiliary control.	

Total			\$263,331.00
7800	Less: Bucket	1	No Added Cost
	Recommended for general conditions and soft terrain.		
5707	700 mm (28 In.) Steel Track with Triple Semi-Grouser S	1	No Added Cost
7040	Less: Hydraulic Coupler Ready	1	No Added Cost

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

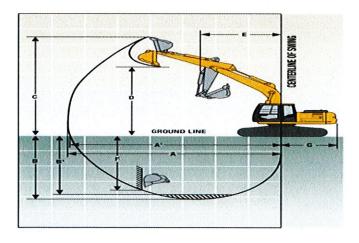
160 P Preliminary Specifications

Excavator / 100 1 / C		LIGIIII	illary	oheci
Base engine for use in U.S., U.S. Ter				
Manufacturer and Model	John Deere PowerTech PV			
Non-Road Emission Standards	Certified to Final Tier 4 / EU	J 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 l	U.S. and U.S. Territories			
Manufacturer and Model	John Deere 4045H			
Non-Road Emission Standards	meets Tier 3 / Stage IIIA er	nissions		
Net Rated Power (ISO 9249)	90 kW @ 1,900 rpm	120.60	hp	
Cylinders	4			
Displacement	4.5 L	274.61	cu in.	
Off Level Capacity	70% 35°	_,	Ju III.	
Aspiration	turbocharged, air-to-air cha	rge air cooler		
	Cooling	. 32 4.1 000101		
Cool-on-demand hydraulic-driven, suct		drive		
The state of the s	Powertrain			
Two Speed Propel with Automatic Shift				
Maximum Travel Speed				
Low	3.4 km/h	2.1	1 mph	
High	5.4 km/h		9 mph	
Drawbar Pull	17 250 kg	38029.74		
Diamouri dii	Hydraulics	30023.74	IU.	Land Contract
Open Center, Load Sensing	Tiyaraanoo			
Main Pumps	two variable-displacement a	axial-niston n	umns	
Maximum Rated Flow	191.0 L/m	50.46	gpm	2 x
Pilot Pump	one gear	30.40	gpiii	۷ ۸
Maximum Rated Flow	33.6 L/m	8.88	gpm	
Pressure Setting	3,930 kPa	570.00	psi	
System Operating Pressure	0,800 KFa	370.00	ρai	
Implement Circuits	34 336 kPa	4980.02	nei	
Travel Circuits	34 336 kPa	4980.02	psi psi	
Swing Circuits	34 336 kPa	4980.02		
Power Boost	38 000 kPa	5511.43	psi	
Controls	30 000 KPa	5511.43	psi	
	Judraulia Bilat Cantrala with Chut C	æ		
Pilot Levers, Short Stroke, Low Effort F	iyaradılıcı Filot Controls With Shut C	<u>'II</u>		

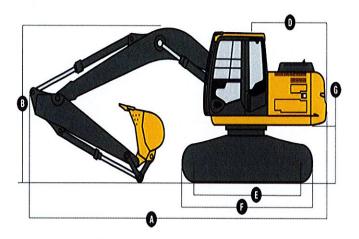
	Cylinders		A DESCRIPTION OF THE PARTY OF T
Boom (2)			
Bore	110 mm	4.33	in.
Rod Diameter	80 mm	3.15	in.
Stroke	1110 mm	43.70	in.
Arm (1)			
Bore	120 mm	4.72	in.
Rod Diameter	90 mm	3.54	in.
Stroke	1365 mm	53.74	in.
Bucket (1)			
Bore	105 mm	4.13	in.
Rod Diameter	75 mm	2.95	in.
Stroke	935 mm	36.81	in.
	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		

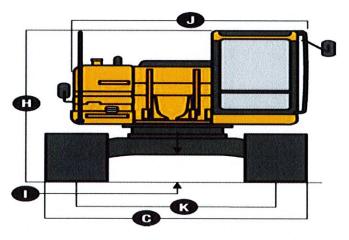
Carrier Rollers (per side)	2		
Track Rollers (per side)	7		
Shoes (per side)	43		
Track Adjustment	Hydraulic		
Track Guides	Front and Center		
Track Chain	Sealed and Lubricated		
	Ground Pressure		
600 mm (24-in.) Triple Semi-Grouser Shoes	41 kPa	5.95	psi
700 mm (28-in.) Triple Semi-Grouser Shoes	35 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	n Length 2.60 m (8 ft 6 ir	1.)		
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	m	349.21	in.	29 ft 1 in.
A' Maximum Reach at Ground Level	8.7	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	m	225.98	in.	18 ft 10 in.
C Maximum Cutting Height	8.88	m	349.61	in.	29 ft 2 in.
D Maximum Dumping Height	6.17	m	242.91	in.	20 ft 3 in.
E Minimum Swing Radius	2.91	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 i	n.)		
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 Dimens	sions	POSTERO DE LA CONTRACTOR DE LA CONTRACTO		





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	101.	
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		0.4.6.
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

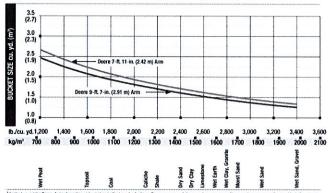
The load point is the arm tip position (bucketless), using standard counterweight, situated on firm, level, uniform supporting surface.
Figures do not exceed 87% of hydraulic capacity or 75% of weight needed to tip machine. Figures in bold are hydraulically-limited capacities. Remaining figures are stability-limited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

ift Capacity 160P			ulically lin	ited capacity	an Sala		
Arm: 2.60 m (8 ft 6 in.)	Bucket: N/A Shoe: 600 mm (24 in						
	Horizontal Dis						
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							
20 ft							
4.5 m			4,570	4,300			
15 ft		Section 1	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 P		
-10 ft	23,240	23,930	15,990				
Arm: 2.60 m (8 ft 6 in.)		Bucket: N/A			Shoe: 600 mm (24 in		
lifting over side m	1.5	3.0	4.5	6.0	7		
oad Point Height ft	5	10	15	20			
6.0 m							
20 ft		respective to					
4.5 m			4,570	3,490			
15 ft			9,920	7,510			
3.0 m		8,880	5,100	3,360	* 142		
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	State Colored	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			
0.0	10,310	8,470	4,580	200			
-3.0 m	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)				
Market Control of the	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 Ground line m		0.000	15,720	10,770	
Glound 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	<u> </u>
-3.0 m -10 ft	10,310 23,240	11,050 23,930	7,490 16,120	Constitution of	
Arm: 2.60 m (8 ft 6 in.)		Bucket: N/A	10,120	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	25
6.0 m 20 ft					
4.5 m			4,570	3,520	
15 ft			9,920	7,590	
3.0 m 10 ft	30 100 50 50 50	8,880 18,910	5,150 11,140	3,390 7,320	
1.5 m		10,910	4,830	3,250	
5 ft			10,430	7,010	
Ground line m		6,260	4,630	3,140	
-1.5 m	5,740	14,450 8,410	10,000 4,570	6,780 3,100	
-5 ft	12,870	18,080	9,870	6,710	
-3.0 m	10,310	8,560	4,640		
-10 ft	23,240	18,410	10,010	7	
Lift Capacity 160P Arm: 3.10 m (10 ft 2 in.)	T F	Bucket: N/A	aulically III	Shoe: 600	mm (24 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	3,380	25
20 ft				7,170	
4.5 m				3,870	
15 ft 3.0 m		7,410	5,280	8,490 4,470	3,360
3.0 m 10 ft		15,820	11,420	9,750	6,760
1.5 m		7,570	6,780	4,960	3,560
5 ft		18,220	14,660	10,700	7,680
Ground line m		6,850 15,760	7,420 15,970	4,820 10,390	3,500 7,550
-1.5 m	5,170	9,640	7,310	4,750	7,000
-5 ft	11,580	21,990	15,720	10,240	
-3.0 m	8,710	11,680	7,330	4,780	
-10 ft -4.5 m	19,610	25,280 9,390	15,780 6,330	10,310	
-15 ft		20,090	13,350		
Arm: 3.10 m (10 ft 2 in.)	. E	Bucket: N/A		Shoe: 600	
Lifting over side m Load Point Height ft	1.5	3.0 10	4.5 15	6.0 20	7.5
6.0 m	5	10	15	3,380	25
20 ft			42.0	7,170	
4.5 m				3,530	
15 ft 3.0 m		7,410	5,180	7,600 3,380	2,400
10 ft		15,820	11,200	7,300	5,160
1.5 m		7,570	4,820	3,220	2,320
5 ft		18,220	10,410	6,940	5,010
Ground line m		6,850 15,760	4,570 9,870	3,080 6,660	2,270 4,890
-1.5 m	5,170	8,210	4,470	3,020	4,000
-5 ft	11,580	17,650	9,650	6,520	
-3.0 m	8,710 19,610	8,310 17,880	4,490 9,700	3,040 6,590	
-10 ft					

-15 ft | 18 490 | 10 100 |

Lift Capacity 160P				Bold = hydraulically limited capacity					
Arm: 3.10	Arm: 3.10 m (10 ft 2 in.)		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	ALC: NO.	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			
	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 Committee of the	-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.)	Control of E	Bucket: N/A	35000	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		Contraction I		3,560				
	15 ft	ACCEPTANCE OF	Grand Street	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		8 (X88)			
	-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 are not continued for a finded accession. And unknown