BID SUBMITTAL FORM Alabama County Joint Bid Program

Heavy Equipment – Bid Item: Heavy Duty Motor Grader-Option B

Company Name: THOMPSON TRACTOR	R COMPANY	
Address: P.O. BOX 10367		
BIRMINGHAM, AL 3	35202-0367	
Bid Submitted by: JAY SMITH		
(Name of	company representative)	
Title: SALES OPERATIONS MANAGER	E-mail address: JAYSMITH@THOMP	SONTRACTOR.COM
Phone: (205) 849-4242	Fax: (205) 849-4394	
By submitting this bid, we agree:		Initials
The equipment model number identified below me	eets the bid specs for this bid item	DE
That the bid price will be honored for all counties Dec. 31, 2022.	for the period from Jan. 1, 2022 to	913
The equipment will be delivered at the bid price to joint bid program.	o all counties participating in the	DAS
The company acknowledges the freight preparati in the total bid price for the standard machine.	on and delivery price is to be included	018
The company representative listed above will be this bid item under the joint bid program.	the contact person for purchasing	DB .
The bid is accompanied by a current catalog or model number identified below.	nodel specification document for the	045
The bid is accompanied by a copy of the manufacin the bid specifications.	cturer's standard warranty as required	DE
The bid includes the e-verify documentation requ	ired by Alabama law.	91
If awarded the bid, a performance bond will be pr	ovided upon request.	STE
The bid documents include the Manufacturer's for the Standard Machine.	Suggested Retail Price Sheet (MSRP)	MS

Total Bid Price for Standard Machine: \$263, 867 (Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) *
Freight Preparation and Delivery: \$8,057(Included in Standard Machine Bid Price)
Manufacturer's Suggested Retail Price for Standard Machine: \$ 419,359
Equipment Model #: CATERPILLAR 140 (STEERING WHEEL)
Description: MOTOR GRADER
Signature of company representative submitting bid:
Title: SALES OPERATIONS MANAGER

^{*} 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) for the Standard Machine
Equipment Model #: CATERPILLAR 140 (STEERING WHEEL)
Description: MOTOR GRADER
Signature of company representative submitting bid:
Title: SALES OPERATIONS MANAGER

*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 HEAVY DUTY MOTOR GRADER – OPTION B

GENERAL

These specifications shall be construed as the minimum acceptable standards for a heavy-duty motor grader. 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 manufacturer's equipment. The motor graders must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

The use of specific names or 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 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) copy of the 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 bid. If 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 include service response time of a maximum of 36 hours within notification by county.

Yes No ____ Page #____ or Attachment____

ENGINE

Engine shall be a turbo-charged, direct injection, four-stroke, **6-cylinder** diesel engine and shall be electronically controlled for more efficient fuel injection and fuel burn. **Engine Shall be designed and manufactured by the machine manufacturer.**

Yes $\frac{\alpha}{N_0}$ No Page # 3, 4

Engine displacement shall not be less than **567 cu. in.** and shall develop, as standard, a rated variable net power of at least **177 -250 NP**.

Yes ____ No ___ Page #_______

Engine shall be isolation/resilient mounted to minimize sound and vibration and shall meet currently required EPA emission regulations for manufacturer.

Yes No PROLE PAGE

Engine compartment enclosure doors shall be lockable without the use of external locks and accessible from the ground. All daily service points shall be accessible from ground level and grouped together.

Yes No No Page # PRICE PAGE

Engine will increase its low idle to 1,000 rpm when the battery voltage is below 24.5 volts for more than 5 minutes to ensure adequate system voltage and battery reliability.

Yes No Page # BID SPEC P.

STARTING SYSTEM

Shall be equipped with a 24-volt electrical system. 115-amp alternator.

Yes No Spec P. 1

TRANSMISSION-8 Forward Speeds and 6 Reverse Speeds

Shall be designed and built by the machine manufacturer and shall be a direct drive, powershift, counter-shaft type transmission.

Yes K No Page # Price Page

Shall be equipped with built-in self-diagnostic capability

Yes K No __

A controlled throttle shifting system shall be standard to smooth directional gear changes without use of the inching pedal.

Yes K No Page # S

Final drive shall be a planetary design.

Yes No Page # BID SACC p.(

Machine shall be equipped with an electronic inching pedal for improved modulation and machine control, and with electronic over-speed protection to protect the engine and transmission from over speeding.

Yes No Page # BIS SPEC p; 1

Yes KNO Page # BID SPEC A 3

Also, to be equipped with transmission guard.

TANDEM

Machine to be equipped with differential lock/unlock electro-hydraulically controlled with a multi-disc design.

Yes No Specp.1

Tandems shall be capable of oscillating **15 degrees** front up and **22 degrees** Rear up, with full machine articulation and having no interference between tandem wheel and machine structure

Yes No Page # Pid stac p. 2

CONTROLS AND HYDRAULICS

Conventional lever style controls

Yes K No Page # BID SPEC P. 1

Hydraulics system shall be a closed center, load sensing type, with a variable Displacement, axial piston-type pump.

Yes No Page # BIT Spec A. (

Implement valves shall be electro-hydraulic, designed and built by the machine manufacturer.

Yes XNo Page # ZIX SPEC P. (

Lock valves shall be integrated into the main implement valve to prevent cylinder drift.

Yes No Page # Bid Spec Pil

BLADES

Machine shall be equipped with **14 ft. long, 25 in** high and no less than **7/8** in thick moldboard with hydraulic side shift and tip control.

Yes No re PAGE PAGE

Blade shall also include reversible overlay end bits.

Yes KNO Page # PRICE PAGE

All blade functions shall be hydraulically or electronically actuated.

res No Loecp.

Blade lift accumulators shall be available, to reduce vertical impact damage.

DRAWBAR AND CIRCLE

Circle shall be a single piece, rolled ring forging with raised wearing surface top and bottom

Must be equipped with replaceable wear strips between circle and support shoes.

Rear drawbar shall be equipped with slip clutch designed to protect the circle, drawbar, and moldboard from shock when end of blade encounters, hidden objects.

Drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar structure.

The circle shall be steel construction with 6 replaceable wear shoes.

FRAME

Articulated type main frame.

Articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine.

Shall be that of a flanged box section type frame that runs from the front bolster to the articulation joints.

STEERING WHEEL

Fully hydraulic, **2-cylinder** steering system, with front steering wheel angle not less than **50°** left or right.

TIRES

All six wheels shall be 10 in by 24 in size multi-piece tire rims and shall provide mounting for 14.00 R24 tires.

Yes No Page #_ 71EC SCIECTION

Tires shall be Goodyear, Bridgestone/Firestone, or Michelin only, **14.00 x R24** 12PR Bias Tires.

BRAKES

Service brakes shall be multi-disc, oil-cooled and completely sealed.

Yes No Page # BID SPEC A.

OIL ANALYSIS

To be included at no cost of the duration of the warranty period selected at intervals recommended by the manufacturer's warranty and maintenance schedule.

Yes No ____ Page #____

WEIGHT (STANDARD OPERATING)

Engine Model Emissions		Cat C9.3	
		NOTES 17 17 17 17 17 17 17 17 17 17 17 17 17	
Emissions		U.S. EPA Tier 4 Final/ EU Stage V	
Base Power (1st gear) - Net		133 kW	179 hp
Base Power (1st gear) - Net (Met	ric)		181 hp
VHP Plus Range – Net		133-172 kW	179-231 hp
VHP Plus Range - Net (Metric)			181-234 hp
AWD Range – Net		141-188 kW	189-252 hp
AWD Range – Net (Metric)	**************		192-255 hp
Displacement		9.3 L	567.5 in ³
Bore		115 mm	4.5 in
Stroke		149 mm	5.9 in
Torque Rise		38%	
Maximum Torque (VHP Plus)		1138 N·m	840 lb-ft
Maximum Torque (AWD On)		1247 N·m	920 lb-ft
Speed @ Rated Power		2,000 rpm	
Number of Cylinders		6	
Derating Altitude		3050 m	10,000 ft
High Ambient – Fan Speed			
Standard		1,400 rpm	
Maximum		1,550 rpm	ad sheat
Minimum		500 rpm	
Standard Capability		43° C	109° F
High Ambient Capability		50° C	122° F
Gear – Net Power kW (AWD Off kW (hp)	AWD On kW (hp)
Forward			
1st 133 ((179)	141 (189)	149 (200)
2nd 141 ((189)	149 (200)	164 (220)
3rd 149 ((200)	156 (210)	168 (225)
4th 156 ((210)	160 (215)	172 (231)
5th 160 ((215)	164 (220)	188 (252)
6th 164 ((220)	168 (225)	188 (252)
7th 168 ((225)	172 (231)	188 (252)
	(231)	172 (231)	188 (252)
Reverse	***************************************		
1st 133 ((179)	133 (179)	133 (179)
	(189)	141 (189)	141 (189)
	(200)	149 (200)	149 (200)

Engine (cont'd)

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 Standards in effect at the time of manufacture.
- VHP Plus is standard for the 140 and 140 AWD.
- Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan running at minimum speed, air cleaner, muffler and alternator.
- No engine derating required up to 3050 m (10,000 ft).
- Power as declared per ISO 14396 Rated rpm 2,000 VHP+ = 173 kW (232 hp)

AWD = 189 kW (253 hp)

- All nonroad U.S. EPA Tier 4, European Union (EU) Stage V and Japan (MLIT) Step 4 diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Cat engines equipped with a Selective Catalytic Reduction (SCR) system are required to use:
- Diesel Exhaust Fluid (DEF) which meets the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.

Power Train		
Forward/Reverse Gears	8 Forward/6 Reverse	
Transmission	APECS, Direct Drive, Powershift	
Brakes		1, 10 ft - 2 ft - 1
Service	Multiple O	il Disc
Service, Surface Area	23 000 cm ²	3,565 in ²
Parking	Multiple O	il Disc
Secondary	Dual Circuit	
Hydraulic System		
Circuit Type	Parallel	I the same
Pump Type	Variable Piston	
Pump Output	210 L/min	55.7 gal/min
Maximum System Pressure	24 150 kPa	3,500 psi
Reservoir Tank Capacity	64.0 L	16.9 gal
Standby Pressure	6100 kPa	885 psi
• Pump output measured at 2 150 rpm		

• Pump output measured at 2,150 rpm.

Operating Specifications		
Top Speed		***************************************
Forward	46.6 km/h	29.0 mph
Reverse	36.8 km/h	23.0 mph
Turning Radius, Outside Front Tires	7.8 m	25 ft 7 in
Steering Range – Left/Right	50°	1
Articulation Angle – Left/Right	20°	
Forward		
1st	4.1 km/h	2.5 mph
2nd	5.5 km/h	3.4 mph
3rd	8.0 km/h	5.0 mph
4th	11.0 km/h	6.9 mph
5th	17.1 km/h	10.6 mph
6th	23.3 km/h	14.5 mph
7th	32.0 km/h	19.9 mph
8th	46.6 km/h	29.0 mph
Reverse		
lst	3.2 km/h	2.0 mph
2nd	6.0 km/h	3.7 mph
3rd	8.7 km/h	5.4 mph
4th	13.5 km/h	8.4 mph
5th	25.3 km/h	15.7 mph
6th	36.8 km/h	23.0 mph

[•] Calculated with no slip and 14.0R24 tires.

Service Refill		
Fuel Capacity	394 L	104 gal
Cooling System	57.0 L	15.0 gal
Hydraulic System		
Total	100 L	26.4 gal
Tank	64.0 L	16.9 gal
Engine Oil	30.0 L	7.9 gal
Trans./Diff./Final Drives	70.0 L	18.5 gal
Tandem Housing (Each)	76.0 L	20.0 gal
Front Wheel Spindle Bearing Housing	0.5 L	0.13 gal
Circle Drive Housing	7.0 L	1.8 gal
Diesel Exhaust Fluid	22.0 L	5.8 gal

1530 mm	60.2 in
138 mm	5.4 in
40.0 mm	1.6 in
6	
152 mm	6.0 in
76.2 mm	3.0 in
12.7 mm	0.50 in
305 mm	12.0 in
22.0 mm	0.87 in
321 mm	12.6 in
305 mm	12.0 in
596 mm	23.5 in
18°	
32°	
	138 mm 40.0 mm 152 mm 76.2 mm 12.7 mm 305 mm 22.0 mm 321 mm 305 mm

[•] Front-top/bottom plate – width tolerance ±2.5 mm (0.098 in).

Height	506 mm	19.9 in
Width	201 mm	7.9 in
Sidewall Thickness		
Inner	16.0 mm	0.63 ir
Outer	18.0 mm	0.71 in
Drive Chain Pitch	50.8 mm	2.0 in
Wheel Axle Spacing	1523 mm	60.0 ir
Tandem Oscillation		
Front Up	15°	
Front Down	25°	

Weights – AWD		ng kanik
Gross Vehicle Weight, Base	rengazi M. i	redames
Total	17 966 kg	39,609 lb
Front Axle	4749 kg	10,469 lb
Rear Axle	13 217 kg	29,140 lb
Gross Vehicle Weight, Maximum	==/4	gand and r
Total	25 013 kg	55,144 lb
Front Axle	7745 kg	17,075 lb
Rear Axle	17 268 kg	38,069 lb
Operating Weight, Typically Equipped	the product	seriet de
Total	20 236 kg	44,614 lb
Front Axle	5945 kg	13,107 lb
Rear Axle	14 291 kg	31,507 lb

- Base operating weight on standard machine configuration is calculated with full fuel tank, coolant, lubricants, operator and 14.0R24 tires with single-piece (SP) rims.
- Typically equipped operating weight is calculated with push block, rear ripper/scarifier, 14.0R24 tires with single-piece (SP) rims, and other equipment.

Standards	
ROPS/FOPS	ISO 3471/ISO 3499
Steering	ISO 5010
Brakes	ISO 3450
Sound	ISO 6394; ISO 6395

- The declared dynamic operator sound pressure level is 71 dB(A) for the 140 and 140 AWD when "ISO 6396:2008" is used to measure the value for a European Union "CE" marked machine. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.
- The declared exterior sound power level is 107 dB(A) for the 140 and 140 AWD when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008." The measurement was conducted for a European Union "CE" marked machine at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds and during diesel particulate filter regeneration.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO_2 equivalent of 2.574 metric tonnes.

Moldboard		
Blade Width	3.7 m	12 ft
Moldboard		
Height	610 mm	24.0 in
Thickness	22.0 mm	0.87 in
Arc Radius	413 mm	16.3 in
Throat Clearance	166 mm	6.5 in
Cutting Edge		
Width	152 mm	6.0 in
Thickness	16.0 mm	0.60 in
End Bit		
Width	152 mm	6.0 in
Thickness	16.0 mm	0.60 in
Blade Pull		
Base GVW	11 462 kg	25,269 lb
Maximum GVW	15 541 kg	34,262 lb
Base GVW (AWD)	16 170 kg	35,649 lb
Maximum GVW (AWD)	22 512 kg	49,630 lb
Blade Down Pressure		
Base GVW	7275 kg	16,038 lb
Maximum GVW	13 294 kg	29,309 lb
Base GVW (AWD)	8151 kg	17,970 lb
Maximum GVW (AWD)	13 294 kg	29,309 lb
Blade Range		
Circle Centershift		
Right	728 mm	28.7 in
Left	695 mm	27.4 in
Moldboard Sideshift		
Right	660 mm	26.0 in
Left	510 mm	20.1 in
Maximum Blade Position Angle	90°	
Blade Tip Range		
Forward	40°	
Backward	5°	
Maximum Shoulder Reach Outside of	of Tires	
Right	1978 mm	77.9 in
Left	1790 mm	70.5 in
Maximum Lift Above Ground	480 mm	18.9 in
Maximum Depth of Cut	715 mm	28.1 in

Ripper		
Ripping Depth, Maximum	426 mm	16.8 in
Ripper Shank Holders	5	
Ripper Shank Holder Spacing	533 mm	21.0 in
Penetration Force	9440 kg	20,812 lb
Pryout Force	12 607 kg	27,794 lb
Machine Length Increase, Beam Raised	1031 mm	40.6 in
Scarifier		
Front, V-Type: Working Width	1205 mm	47.4 in
Front, V-Type, 5 or 11 Tooth		
Working Width	1031 mm	40.6 in
Scarifying Depth, Maximum	467 mm	18.4 in
Scarifier Shank Holders	5/11	
Scarifier Shank Holder Spacing	116 mm	4.6 in
Mid, V-Type		
Working Width	1184 mm	46.6 in
Scarifying Depth, Maximum	292 mm	11.5 in
Scarifier Shank Holders	11	
Scarifier Shank Holder Spacing	116 mm	4.6 in
Rear		
Working Width	2133 mm	84.0 in
Scarifying Depth, Maximum	426 mm	16.8 in
Scarifier Shank Holders	9	
Scarifier Shank Holder Spacing	267 mm	10.5 in
Weights		
Gross Vehicle Weight, Base		
Total	16 974 kg	37,420 lb
Front Axle	4238 kg	9,343 lb
Rear Axle	12 736 kg	28,077 lb
Gross Vehicle Weight, Maximum		
Total	25 013 kg.	55,144 lb
Front Axle	7745 kg	17,075 lb
Rear Axle	17 268 kg	38,069 lb
Operating Weight, Typically Equipped		
Total	19 344 kg	42,647 lb
Front Axle	5468 kg	12,055 lb
Rear Axle	13 876 kg	30,592 lb

Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

- Air cleaner, dual stage, dry type, diesel, with automatic engine derate and automatic dust ejector, service indicator through Cat Messenger
- · Air-to-air after cooler (ATAAC)
- · Belt, serpentine, automatic tensioner
- · Brakes, oil disc, four-wheel, hydraulic
- · Demand fan, hydraulic, swing-out
- Diesel exhaust fluid tank, 22.0 L (5.8 gal) ground level access, and sediment drain
- · Differential Lock/Unlock, Automatic
- · Drain, engine oil, ecology
- · Economy mode
- · Electronic over speed protection
- Engine, C9.3, U.S. EPA Tier 4 Final/ EU Stage V emission standards
- Fuel tank, 394 L (104 gal), ground level access and sediment drain
- · Parking brake multi-disc, sealed, oil-cooled
- · Priming pump, fuel
- · Rear axle, modular
- · Sediment drain, fuel tank
- · Tandem drive
- Transmission, 8F/6R, powershift, direct drive, Advanced Productivity Electronic Control Strategy (APECS)

ELECTRICAL

- · Alarm, back up
- · Alternator, 150 ampere, sealed
- Batteries, maintenance free, heavy duty, 1125 CCA
- · Breaker panel, ground accessible
- · Cab harness and electrical hydraulic valves
- · Electrical system, 24V
- Grade Control Ready Cab harness, software, electrical hydraulic valves, bosses and brackets
- Lights, roof-mounted roading, reversing, LED stop and tail
- · Product Link
- · Starter, electric

OPERATOR ENVIRONMENT

- Accelerator
- · Air conditioning with heater
- · Arm and wrist rest, electronically adjustable
- Articulation, automatic Return-to-Center
- · Cat Messenger operator information system
- · Centershift pin indicator
- · Coat hook
- Cup holder
- · Display, digital speed and gear
- · Doors, left and right side with wiper
- · Gauge, machine level
- Gauge cluster (analog) fuel, articulation, engine coolant temp, engine RPM, hydraulic oil temp, regen, DEF
- · Hour meter, digital
- Joystick hydraulic controls right/left blade lift with float position, circle drive, blade sideshift and tip, centershift, front wheel lean, articulation and power steering
- · Joystick, adjustable armrests
- · Joystick gear selection
- · Joystick hydraulic power steering
- · Ladders, cab, left and right side
- · Lights, night time cab
- · Mirror, inside rearview, wide angle
- · Power port, 12V
- · Radio Ready, Entertainment
- ROPS cab, sound suppressed 70 dB(A)
- · Seat, cloth-covered, comfort suspension
- · Seat belt, retractable 76 mm (3 in)
- · Storage area for cooler/lunchbox
- · Throttle control, electronic
- · Windows, laminated glass:
- fixed front with intermittent wiper
- -door with intermittent wipers (3)
- · Windows: tempered
- -left and right side wipers
- rear and intermittent wiper

FLUIDS

- · Antifreeze
- Extended Life Coolant to -35° C (-30° F)

TIRES, RIMS AND WHEELS

 Partial allowance for tires on 254 × 607 mm (10 × 24 in) multi-piece rims is included in the base machine price and weight

OTHER STANDARD EQUIPMENT

- · Accumulators, brake, dual certified
- · Anti-glare paint
- · Bumper, rear, integrated with hitch
- · CD ROM Parts Book
- · Clutch, circle drive slip
- · Cutting edges
- $-152 \times 16 \text{ mm } (6 \times 5/8 \text{ in})$
- curved DH-2 steel
- -19 mm (3/4 in) mounting bolts
- · Doors (3), engine compartment, locking
- Drawbar 6 shoes, replaceable wear strips
- Electrical hydraulic valves, hydraulic lines for base 8 functions
- Endbits
- -16 mm (5/8 in) DH-2 steel
- 19 mm (3/4 in) mounting bolts
- · Fluid check, ground level
- · Frame, articulated, with safety lock
- · Ground level engine shutdown
- · Hammer (emergency exit)
- · Horn, electric
- · Hydraulic lines for base functions
- Lockout, hydraulic implement (for roading and servicing)
- Moldboard
- · Mounting, cab roof accessories
- Pump, hydraulic, high capacity, 98 cm³ (6 in³)
- Radiator, cleanout access (both sides with swing doors)
- · Secondary steering
- · Serviceability, LH side
- S·O·SSM ports: engine, hydraulic, transmission, coolant, fuel
- · Tandem walkway/guards
- Tool box

Optional Equipment

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

	kg*	lb*		kg*	lb*		kg*	lb*
ELECTRICAL			POWER TRAIN			WORK TOOLS/G.E.T.		
 Alternator, 280 ampere 	2	5	 All Wheel Drive 	892	1,967	 Blade extension, left hand, 	113	249
Batteries:			 Precleaner, snow 	2	5	610 mm (2 ft)		
- extreme duty, 1,400 CCA • Lights:	14	30	• Starter, extreme duty, 1,000 Amps	22	48	 Blade extension, right hand, 610 mm (2 ft) 	113	249
– Headlights, high	38	84	 Transmission, autoshift 	2	5	 Counterweight 	427	939
– Headlights, low	35	77				 Cutting edges, curved 	43	95
- Working lights, basic	9	20	OTHER ATTACHMENTS			 Endbits, overlay 	24	52
- Working lights, plus,	10	22	Auto Articulate			 Front lift group, mounting 	5	11
LED	10		Stable Blade			 Front lift group, mechanical 	680	1,500
Warning: beacon or strobe	2	5	Cat GRADE:Digital Blade Slope Meter			 Grader bit, narrow and super penetration 	181	400
– Mounting for	5	11	- Cross Slope Indicate			Mid-Mount Scarifier,	917	2,017
warning light	5	11	- Cross Slope			Package		
wai iniig iigin			- Cat Production			 Moldboard 		
GUARDS			Measurement			$-4267 \text{ mm} \times 610 \text{ mm}$	147	323
Articulation guard	5	11	AccuGrade ARO	46	101	\times 22 mm (14 ft \times 24 in		
• Fenders, front	121	266	Integrated cross slope	47	103	\times 7/8 in)		
• Fenders, front, AWD	56	124	 Accumulators, blade lift 	55	121	$-4267 \text{ mm} \times 686 \text{ mm}$	284	625
• Fenders, rear	156	344	Camera, rearview	9	20	\times 25 mm (14 ft \times 27 in		
• Front axle guard	13	30	Cat Product Link 321SR	13	29	× 1 in)	470	1.040
• Sound suppression	110	243	Cat Product Link 522	13	29	160/160 AWD only: -4877 mm × 686 mm	472	1,040
(bottom)		CT00.5	Circle Saver	4.5	10	× 25 mm (16 ft × 27 in		
Sound suppression	15	33	Drain, ecology, engine	2	5	× 1 in)		
(enclosure)			Wiggins	_	,	• Push plate	1285	2,833
Transmission	141	311	Heater, engine coolant:			• Ripper, rear	1042	2,292
			-120V	1	3	• Ripper tooth	28	61
OPERATOR ENVIRONMENT			-240V	1	3	• Scarifier, front	434	956
 Mirrors, outside: 			· Hydraulic arrangements wit	h one or		• Snow Arrangement	161	355
-heated 24V	15	33	more additional hydraulic v			Snow Wing Ready Package	119	262
-mounted	15	33	available for rear ripper, doz	er, snow		• Tow hitch	53	116
 Comfort Plus Arrangement 	2	4	plow and snow wing.			Tow meen		
 Comfort Premium Arrangement 	3	7	 Snow wing mounting, frame ready 	91	200	MACHINE ARRANGEMENTS	. 2	4
			 Starting aid, ether 	0.5	1	Canadian Arrangement Farangement	289	637
			 Reversing fan, automatic or manual 	6	13	European ArrangementTUV Roading Arrangement		994

^{*}Weights shown are to be added to the standard configuration when option is chosen.

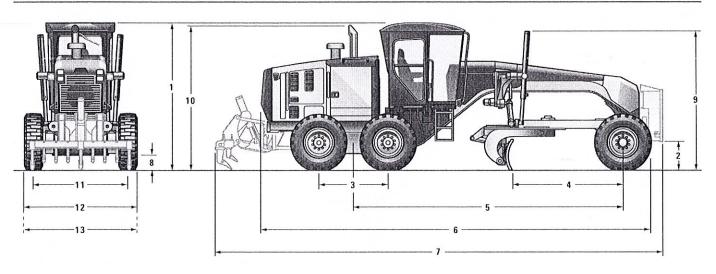
Motor Graders Specifications

ptional Tire Arrangements		是是一个人的人的意思。
ommon Tire Options		
10/140 AWD	<u> </u>	
Rim Size	Wheel Group	Tires
9 × 24	Single-Piece	14.0R24
13 × 25	Single-Piece	17.5R25
10 × 24	Multi-Piece	14.0R24
10 × 24	Multi-Piece	14.0-24
14 × 25	Multi-Piece	17.5R25
14 × 25	Multi-Piece	17.5-25
50/150 AWD		
Rim Size	Wheel Group	Tires
9 × 24	Single-Piece	14.0R24
13 × 25	Single-Piece	17.5R25
10 × 24	Multi-Piece	14.0R24
10 × 24	Multi-Piece	14.0-24
14 × 25	Multi-Piece	17.5R25
14 × 25	Multi-Piece	17.5-25
60/160 AWD	0.00 0.00	St. 2 and an army of the state
Rim Size	Wheel Group	Tires
9 × 24	Single-Piece	14.0R24
13 × 25	Single-Piece	17.5R25
10 × 24	Multi-Piece	14.0R24
10 × 24	Multi-Piece	14.0-24
14 × 25	Multi-Piece	17.5R25
14 × 25	Multi-Piece	17.5-25

Note: Consult your dealer for individual tire width, size and brand.

Motor Graders Specifications

Dimensions



		140/140	140/140 AWD		AWD	160/160 AWD	
		mm	in	mm	in	mm	in
1	Height – Top of Cab	3308	130	3308	130	3308	130
2	Height – Front Axle Center	596	23.5	596	23.5	596	23.5
3	Length – Between Tandem Axles	1523	60.0	1523	60.0	1523	60.0
4	Length - Front Axle to Moldboard	2552	100	2552	100	2552	100
5	Length - Front Axle to Mid Tandem	6123	241	6123	241	6123	241
6	Length - Front Tire to Rear of Machine	8912	351	8912	351	8912	351
7	Length - Counterweight to Ripper	10 136	399	10 136	399	10 136	399
8	Ground Clearance at Rear Axle	339	13.3	339	13.3	339	13.3
9	Height to Top of Cylinders	3040	120	3040	120	3040	120
10	Height to Exhaust Stack	3256	128	3256	128	3256	128
11	Width - Tire Center Lines	2140	84.3	2140	84.3	2140	84.3
12	Width - Outside Rear Tires	2511	98.9	2511	98.9	2511	98.9
13	Width – Outside Front Tires	2511	98.9	2511	98.9	2511	98.9

[•] Calculated with 14.0R24 Tires.

140 HEAVY DUTY MOTOR GRADER B

140	HEAVY DUTY MOTOR GRADER B	2022 Pricing
515-2449	140 MOTOR GRADER STEERING WHEEL	\$392,267
439-9110	14' PLUS MOLDBOARD	\$1,570
439-9110	BLADE, 14' X 27" X 1"	Ψ1,070
	INCLUDES END BITS WITH OVERLAY	
507-7694	TOWING HITCH	\$624
522-6393	COLD WEATHER PACKAGE (ETHER STARTING AID)	\$868
380-6774	NON SY-KLONE PRECLEANER	\$0
559-2201	HYDRAULIC LINK BAR	\$0
522-6751	STANDARD DRAWBAR	-\$3,136
566-5529	NO GRADE CONTROL TECHNOLOGY	\$0
453-2908	MANUAL LOCK OUT	\$1,534
524-8998	BASE HYDRAULICS	\$0
526-9853	BLADE ACCUMULATORS	\$5,356
515-2231	HEAVY DUTY STARTER	\$0
562-3742	ROADING LIGHTS W/ FOLD DOWN ARM	\$2,158
522-6688	CAB PLUS	\$2,111
518-3382	AIR SUSPENSION SEAT	\$2,938
565-2320	EXTERNAL MIRRORS	\$0
519-3712	CELULAR PRODUCT LINK PLE641	\$0
558-3846	STANDARD FAN	\$0
586-5268	14.00R24 BS VKT * E-2MP BRIDGESTONE TIRES	\$7,114
	RADIAL TIRES WITH MULTI-PIECE RIMS	
522-6654	COOLANT	\$0
0P-1939	WINDHSHIELD WASHER	\$0
0P-3978	FUEL ANTIFREEZE	\$0
386-1254	ENGLISH INSTRUCTIONS	\$0
516-2552	ENGLISH DECALS	\$0
519-3700	HALOGEN LIGHTS	\$738
501-4739	HALOGEN CAB ROOF LIGHTS	\$0
518-3017	WARNING STROBE	\$650
524-1768	REAR VISION CAMERA	\$0
518-3026	AM/FM BLUETOOTH RADIO	\$666
522-2419	TRANSMISSION GUARD	\$3,900
		\$202.007
	TOTAL BID PRICE FOR STANDARD MACHINE	\$263,867
	FREIGHT PREPARATION AND DELIVERY	\$8,057
7	OTAL MANUFACTURER'S SUGGESTED RETAIL PRICE FOR STANDARD MACHINE	\$419,359

140LVR

140LVR MOTOR GRADER PIRACICABA, BRAZIL

Ship Weight lbs LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector Air-to-air after cooler (ATAAC) Belt, serpentine, automatic tensioner Brakes, oil disc, four-wheel, hydraulic Demand fan, hydraulic Electronic over-speed protection Engine, C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB tier 4 final & EU stage IV certified engine & aftertreatment Parking brake, multi-disc, sealed and oil cooled Sediment drain, fuel tank Tandem drive Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Steering wheel

Articulation

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy
duty, 1125 CCA
Breaker panel
Electrical system, 24 volt
Lights, reversing
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater

Centershift pin indicator Display, digital speed and gear Load sensing hydraulic controls: -Right/left blade lift -Circle drive -Center shift -Side shift -Blade tip -Front wheel lean Doors, left and right side Gauge, machine level Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM and hydraulic oil temp, DEF/AdBlue) Lights, night time cab Messenger Display -Meter

-Hour digital
Mirror
Inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, 77dB(A) ISO 6394
Storage area for cooler/lunchbox
Throttle control, electronic
Windows: laminated glass
Fixed front with intermittent wiper
windows: tempered
Left and right side wipers
Cab Storage

TECHNOLOGY PRODUCTS

RADIOS

Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below: https://dealer.cat.com/en/products/technology.html

PRODUCT LINK

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below: https://dealer.cat.com/pl/certification

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left
hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Seat belt, retractable 3"
Secondary steering
Tandem walkway/guards

FLUIDS

Antifreeze Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified Drawbar,6 shoe w/replaceable wear strips Fluid check, ground level Fuel tank, 100 gallon (378 L) Ground level fueling DEF/AdBlue Tank, 3.3 gallon (12.5 L) Hydraulic lines for base functions Pump, hydraulic, high capacity

Supersedes 21AUG2021 Caterpillar: Confidential Green

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight Ibs	LIST PRICE AT DEALER
LANE	SELECTIO	N		
	0P-9002	LANE 2 ORDER	0	NC
	0P-9003	Only for dealers enrolled in the Base Orders Manage LANE 3 ORDER	ement (BOM) program.	NC
PERF	ORMANCE	PACKAGES		
<i>IV</i>	IOLDBOARL	os		
L	320-9924	MOLDBOARD, 12' BASIC		NC
L	526-7045	MOLDBOARD, 14' BASIC		
L	439-9110	MOLDBOARD, 14' PLUS INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		
R	EAR WORK	TOOLS		
Р	523-8156	NO HITCH		NC
P	507-7694	HITCH, TOWING	0	
Р	515-4649	RIPPER-SCARIFIER, REAR	ripper shanks. I nine	
L	558-2400	RIPPER, SNOW WING READY FOR USE IN LANE 3 ONLY Hydraulic, rear mounted ripper with three straight Includes the mount for the Caterpillar Mastless Snoright side of the ripper backplate. Can accommodate two additional ripper shanks, nin and the Caterpillar Mastless Snow wing which must separately.	ripper shanks. w Wing on the ne scarifier teeth,	

USE

REF NO.

LANE 2 / 3 MANDATORY

Ship Weight

LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires. * * To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library. All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC

L	515-5399	TIRES,14.0R24 SOIL TRACTION MP
L	515-5400	TIRES,17.5R25 SOIL TRACTION MP

140LVR-015

REF USE NO.

LANE 2 / 3 MANDATORY

Ship Weight lbs LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

APPLICATION SPECIFIC (Cont.)

L	515-5404 515-5405	TIRES,14.0R24 SOIL TRACTION MP Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,17.5R25 SOIL TRACTION MP Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER
	SHIPPING TIE	RFS
	Simi inva in	iLS
L	448-5577	TIRES, 14.0 SHIPPING, MP
		FOR USE IN LANE 3 ONLY Due to the height of the shipping tires, unloading will most likely
		require a crane to avoid damaging the bottom of the machine.
		Shipping tire for use during shipment of machine only.
		Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER
L	440-3433	TIRES, 17.5 SHIPPING, MP
		FOR USE WITH LANE 3 ONLY Due to the height of the shipping tires, unloading will most likely
		require a crane to avoid damaging the bottom of the machine.
		Shipping tire for use during shipment of machine only.
		Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER
L	448-5584	TIRES, 14.0 SHIPPING, AWD, MP
		Due to the height of the shipping tires, unloading will most likely
		require a crane to avoid damaging the bottom of the machine.
		Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims.
		Must be replaced with pneumatic tire before delivering to customer.
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER
L	440-3434	TIRES, 17.5 SHIPPING, AWD, MP
		Due to the height of the shipping tires, unloading will most likely
		require a crane to avoid damaging the bottom of the machine.
		Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims.
		Must be replaced with pneumatic tire before delivering to customer
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER

USE NO. LANE 2 / 3 MANDATORY Ship Weight LIST PRICE Ibs AT DEALER

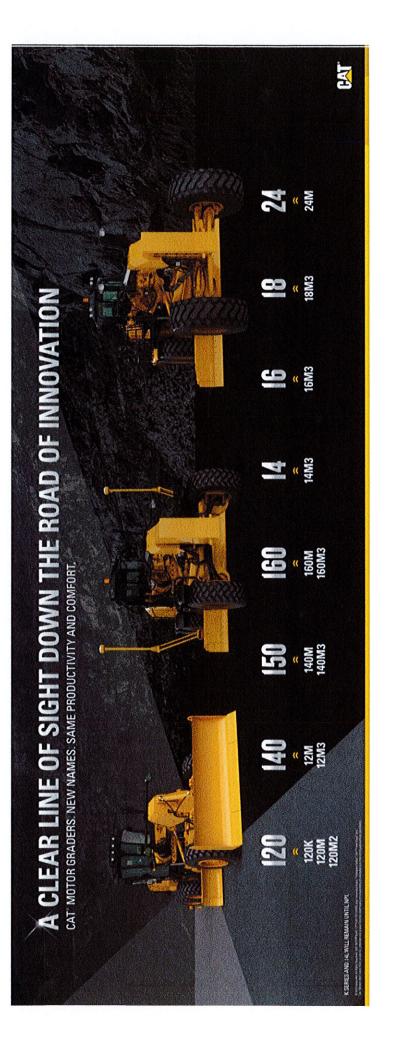
TIRES, RIMS, AND WHEELS (CONT.)

MAXAM

L	578-9458	TIRES 17.5R25 MA MS202 ** MP
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.*
		ONLY FOR USE WITH: 515-2449 140 13A MOTOR GRADER
L	578-9460	TIRES 14.00R24 MA MS202 * MP
		FOR USE IN LANE 3 ONLY
		Maxam MS202 2* on 14- x 25- multi-piece rims.
+		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.*
L	578-9462	ONLY FOR USE WITH: 515-2449 140 13A MOTOR GRADER
L	376-9462	TIRES 17.5R25 MA MS202 ** MP
		Maxam MS202 2* on 14- x 25- multi-piece rims.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.**
		ONLY FOR USE WITH: 515-8361 140 13A AWD MOTOR GRADER
L	578-9463	TIRES 14.00R24 MA MS202 * MP
		FOR USE IN LANE 3 ONLY
		Maxam MS202 2* on 14- x 25- multi-piece rims.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (8600 lbs) 3900kg.** ONLY FOR USE WITH: 515-8361 140 13A AWD MOTOR GRADER
		ONLY FOR USE WITH: 515-8361 140 13A AWD MOTOR GRADER
	MICHELIN	
L	252-0701	TIRES,14.0R24 MX XSNO+ * G2 MP
		FOR USE IN LANE 3 ONLY
		Michelin XSNO 1* on 10" x 24" multi-piece rims.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**
L	252-0771	ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER
	232-0771	TIRES, 17.5R25 MX XTLA * L2 MP
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL
		TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER
L	249-7845	TIRES,14.0R24 MX XSNO + * G2 MP
		Michelin XSNO 1* on 10" x 24" multi-piece rims.
		Proof Time.
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**
	252.0670	THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER
L	252-0679	THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP
L	252-0679	THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP 1,069 Michelin XGLA2 1* on 10" x 24" multi-piece rims.
L	252-0679	THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP 1,069 Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL
L	252-0679	THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP
L L	252-0679 252-0777	THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER TIRES,14.0R24 MX XGLA2 * G2 MP

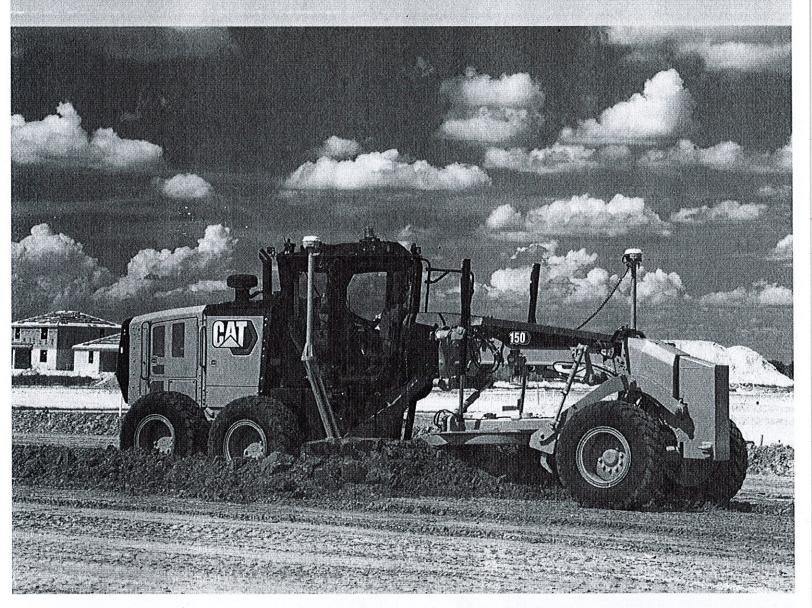
REF Ship Weight LIST PRICE LANE 2 / 3 MANDATORY **USE** NO. lbs AT DEALER TIRES, RIMS, AND WHEELS (CONT.) MICHELIN (Cont.) L 252-0681 Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER L 252-0773 Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** 515-8361 140-13AAWD MOTOR GRADER ONLY FOR USE WITH: L 252-0779 THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER BRIDGESTONE L 252-0775 Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER L 586-5268 FOR USE IN LANE 3 ONLY Bridgestone VKT 3* on 10- x 24- multi-piece rims. THE TIRE MANUFACTURE DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING 3650 kg (8,045 lbs).** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER L 586-5273 FOR USE IN LANE 3 ONLY 6 X Bridgestone VKT 3* on 10- X 24- Multipiece Rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING 3650 kg (8045 LBS). ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER 249-7841 L Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** 515-8361 140-13A AWD MOTOR GRADER ONLY FOR USE WITH: L 600-4199 Offers optimum traction and low ground pressure for fine grading applications. Bridgestone VTS 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13A MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight Ibs	LIST PRICE AT DEALER
TIRES	S, RIMS, AN	ND WHEELS (CONT.)		
	OODYEAR	, e =,		
L	310-7326	TIRE, 17.5R25 GY RL2+6S 1*MP	ND THIS TIRE FOR IND) IVIDUAL
FLUID	os			
C	OOLANT AI	NTIFREEZE		
P P	522-6654 522-6655	COOLANT (-40C) Standard engine coolant COOLANT (-50C) Engine coolant recommended for extreme low temper	0	NC
FL	JEL ANTIFR	When the second recommendation is the second		
	0P-3978	FUEL ANTIFREEZE, -25C (-13F)		NC
DOC	JMENTATION TO SERVICE	ON		
]	NOTE: This pa			
L	386-1254	LANGUAGE, ENGLISH	0	NC
L	386-5928	LANGUAGE, SPANISH	0	NC
///	STRUCTION	NS, OPERATION MANUALS		
	421-8926	SERIALIZED TECHNICAL MEDIA KIT FOR USE IN LANE 3 ONLY The technical media kit, will include the Operation & Manual (OMM) and other media specified on the Fact required to ship products from the manufacturing factific may contain multiple Operation & Maintenance & based on the final country of destination. Contents we any additional media or translations not included in be ordered through https://publications.cat.com	Maintenance tory Notification cility. Januals (OMM) vill vary.	NC
	The word "	CAGES rt number will provide the films in ANSI or ISO Pictogram WARNING" is on picto decals for ANSI. nly are on picto decals for ISO.	ms	
Р	516-2552	DECALS, ENGLISH (US)	0	NC



140/150/160 Motor Graders





	140/140 AWD		150/150 AWD		160/160 AWD	
Engine Model	Cat® C9.3		Cat C9.3		Cat C9.3	
Base Power (1st gear) – Net	133 kW	179 hp	149 kW	200 hp	165 kW	221 hp
Base Power (1st gear) - Net (Metric)		181 hp		202 hp		224 hp
VHP Plus Range – Net	133-172 kW	179-231 hp	149-188 kW	200-252 hp	165-203 kW	221-272 hp
VHP Plus Range – Net (Metric)		181-234 hp		202-255 hp		224-276 hp
AWD Range – Net	141-188 kW	189-252 hp	156-203 kW	210-272 hp	172-219 kW	231-293 hp
AWD Range – Net (Metric)		192-255 hp		213-276 hp		234-298 hp
Moldboard – Blade Width	3.7 m	12 ft	3.7 m	12 ft	4.2 m	14 ft
Operating Weight, Typically Equipped	19 344 kg	42,647 lb	19 935 kg	43,950 lb	20 660 kg	45,547 lb
Operating Weight, Typically Equipped AWD	20 236 kg	44,614 lb	20 827 kg	45,917 lb	21 552 kg	47,514 lb

Features

Emissions Reduction

Cat emissions reduction technology is designed to be transparent to the operator and meets U.S. EPA Tier 4 Final/EU Stage V standards.

Operator Comfort

Industry leading cab and intuitive joystick controls give you unmatched comfort and visibility. New seat offers you heated/ventilated options.

Ease of Service

Drawbar-Circle-Moldboard features make it easy to maintain factory tightness for better grading results. New engine enclosure lights make service more convenient in low light.

Efficient Performance

New Economy Mode helps you save fuel — up to 10 percent.

Integrated Technologies

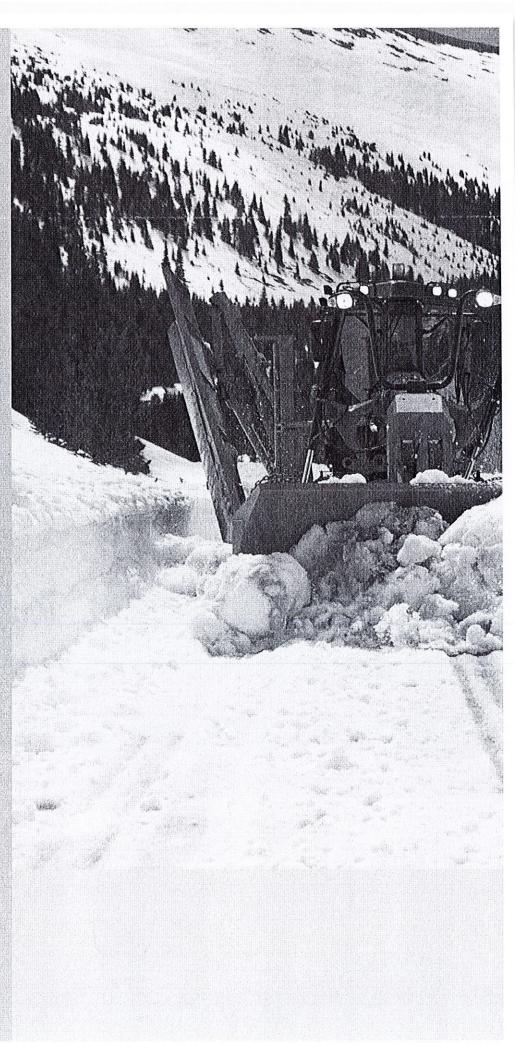
Cat Connect makes smart use of technology and services to help you monitor, manage and enhance job site operations.

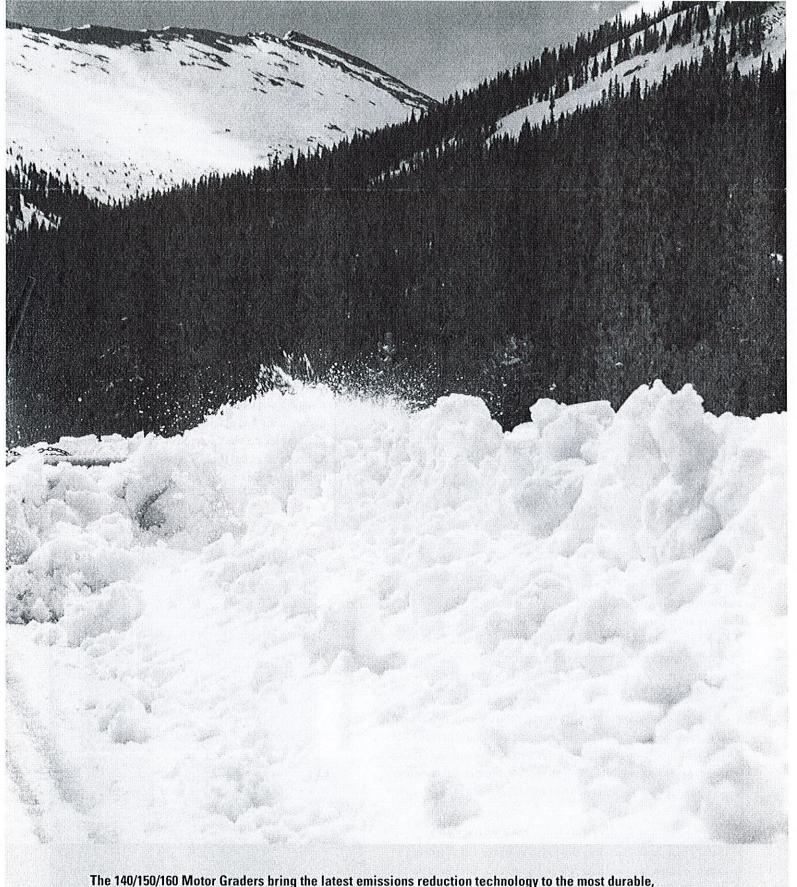
Safety

Features like Operator Not Present monitoring, hydraulic lockout and redundant steering and braking systems help you meet your safety goals.

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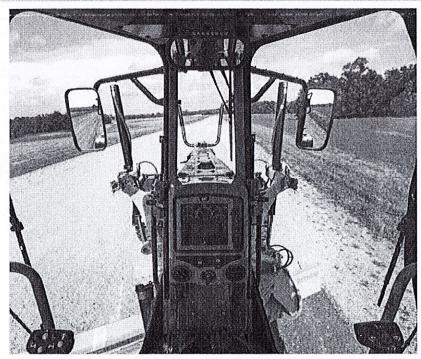




The 140/150/160 Motor Graders bring the latest emissions reduction technology to the most durable, productive and comfortable motor graders on the market. From building roads to maintaining them, motor graders are designed to help you get more work done in less time. Outstanding durability, unprecedented operator comfort and ease of service help to maximize your return on investment. The 140/150/160 Motor Graders meet U.S. EPA Tier 4 Final/EU Stage V standards.

Operator Station

Comfort, productivity, advanced technology



Visibility

Good visibility is key to your safety and efficiency.

Angled cab doors, tapered engine enclosure and a sloped rear window make it easy to see the moldboard and tires, as well as behind the machine.

An optional rear vision camera further enhances lines of sight all around the machine.

In-Dash Instrument Cluster

A redesigned message display shows machine performance and diagnostic information, including DEF tank levels. Now located in the center console, it also displays Cat Grade Control Cross Slope readings conveniently in front of the operator.

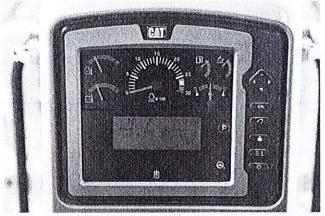
Comfort and Control

Experience the most comfortable cab in the industry.

Joystick controls replace levers, so hand and arm movement is reduced by 78%, helping reduce operator fatigue for better productivity. Rocker and control switches are in easy reach.

An updated seat with softer cushions and three-position cushion tilt adds to your overall comfort. You can even upgrade to a heated or heated/ventilated seat. An optional seat belt indicator feature is also available. Control pods can be adjusted electronically, making it easy to set your ideal operating position. Multiple isolation mounts significantly reduce sound and vibration for a more relaxed work environment.

The high capacity Heating, Ventilation and Air Conditioning (HVAC) system dehumidifies and pressurizes the cab, seals out dust and helps keep windows clear. Pop-out louvers circulate fresh air. An optional deluxe radio with CD features MP3 and Bluetooth technology.





Machine and Implement Controls

Unprecedented precision and ease of operation



Two electro-hydraulic joysticks with electronically adjustable control pods help position operators for optimal comfort, visibility and productive operation.

Joystick Functions

The left joystick controls machine direction, steering, articulation, return-tocenter, wheel lean, gear selection, left moldboard lift cylinder and float.

The right joystick controls drawbar, circle and moldboard functions as well as electronic throttle control and manual differential lock/unlock.

The steer tire angle matches the joystick position. A brake tensioning system holds the joystick in position until the operator moves it. The steering control automatically reduces steering sensitivity at higher ground speeds for predictable control.

Infinitely variable roller switches control the rear ripper and/or front lift group (when equipped). Optional Programmable Auxiliary Hydraulic Pod controls up to six additional hydraulic circuits.

Electronic Throttle Control

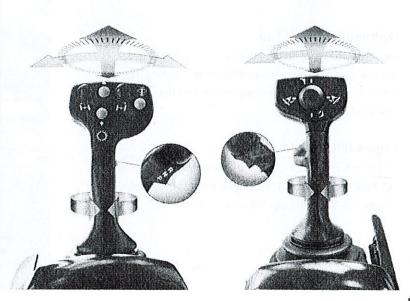
Electronic Throttle Control helps improve productivity by providing the best match of horsepower and torque for the demands of the application.

Articulation Return-to-Center

Automatically returns the machine to a straight frame position from any angle with the touch of a button.

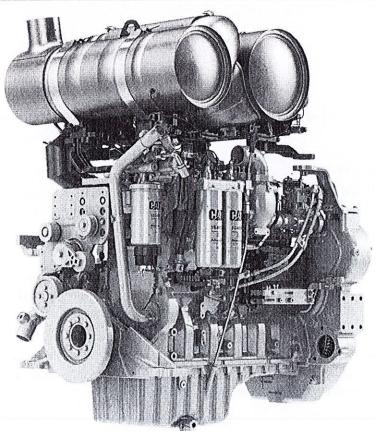
Selectable Blade Lift Modes

Choose the blade lift modulation mode that best fits your application or operating style: Fine, Normal, or Coarse.



Engine

Power and reliability



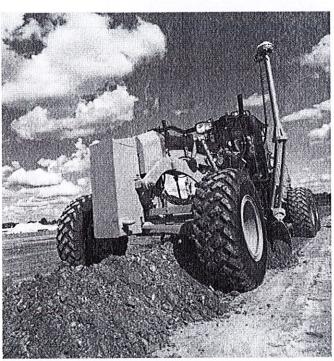
A Cat C9.3 engine gives you the performance you need to maintain consistent grading speeds for maximum productivity. Every U.S. EPA Tier 4 Final/EU Stage V engine is equipped with a combination of proven electronic, fuel, air and aftertreatment components. Applying proven technologies systematically and strategically helps meet your high expectations for productivity, fuel efficiency, reliability and service life.

Hydraulic Demand Fan

The hydraulic demand fan automatically adjusts speed according to cooling requirements. When cooling demand is reduced, you benefit from more power to the ground and improved fuel efficiency.

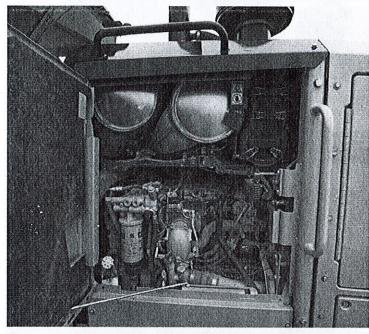
Engine Idle Shutdown Timer

This standard feature can be software-enabled by your Cat dealer to shut down the engine after a set period of time to save you fuel and help reduce emissions.

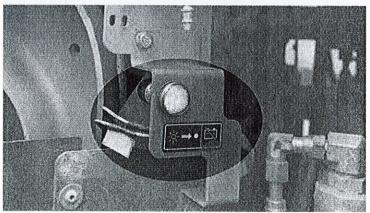


Emissions Technology

Proven, integrated solutions







Emissions reduction technology on the 140/150/160 Motor Graders is designed to be transparent, with no action required from the operator. There is no need to stop. Regeneration runs automatically at cold start-up and, if needed, in the background while you work.

Aftertreatment Technologies

Caterpillar designed Tier 4 Interim products with Tier 4 Final standards in mind. To meet the additional 80 percent reduction in NOx emissions required by EPA Tier 4 Final/EU Stage V emission standards, Caterpillar engineers only needed to add one new system to the already proven aftertreatment solution in use, Selective Catalytic Reduction (SCR).

Diesel Exhaust Fluid

Selective Catalytic Reduction utilizes Diesel Exhaust Fluid (DEF), which can be conveniently filled from ground level. Simply refill the DEF tank when you refuel. A gauge on the dash shows your fluid level.

When you turn the machine off, a pump will automatically purge the DEF lines. A light located inside the rear engine compartment will turn off, telling you the purge is complete and that it is safe to turn off the electrical disconnect. If the engine/aftertreatment temperatures are high, a Delayed Engine Shutdown will activate automatically to cool the machine and then purge the lines.

For complete aftertreatment information, please refer to your machine's Operation and Maintenance Manual.

Power Train

Maximum power to the ground

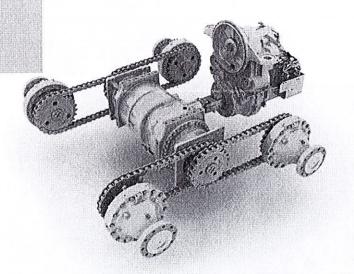
- Standard Automatic Differential Lock/Unlock monitors machine and application parameters to unlock/re-lock the differential during operation, improving production and enhancing comfort while protecting the power train.
- Full Electronic Clutch Pressure Control optimizes inching modulation for smooth shifts and directional changes.
- Programmable Autoshift option simplifies operation by allowing you to program the transmission to shift at optimal points to match your application.
- New standard Economy Mode can be turned on to help save fuel by reducing engine speed so the machine works in a more efficient range. The average fuel savings is up to 10 percent, depending on the application.
- Power Shift Countershaft Transmission maximizes power to the ground.
- Engine Over-Speed Protection prevents downshifting until an acceptable safe travel speed has been established.

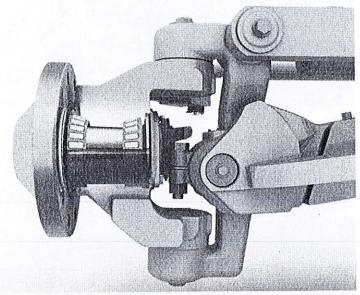
Front and Rear Axles

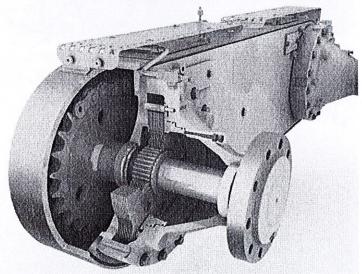
The sealed spindle keeps front axle bearings lubricated and protected from contaminants. The Cat "Live Spindle" design places the larger tapered roller bearing on the outside, where the load is greater, extending bearing life. A bolt-on modular rear axle improves serviceability and contamination control with easy access to differential components.

Hydraulic Brakes

Oil-bathed multi-disc service brakes are hydraulically actuated for smooth, predictable braking and lower operating costs. Brakes are located at each tandem wheel and have a large total brake surface area to give you dependable stopping power and longer life.

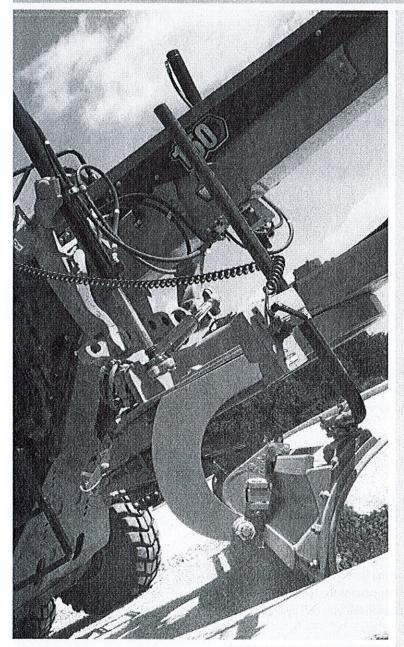


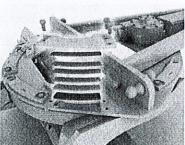


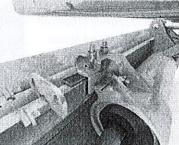


Structures and Drawbar-Circle-Moldboard

Service ease and precise blade control







Caterpillar designs motor grader frame and drawbar components to give you performance and durability. The one-piece forged steel circle stands up to high stress loads, and a sacrificial wear system helps keep your service time and costs down.

The articulation hitch features a large tapered roller bearing to carry loads evenly and smoothly. It is sealed to prevent contamination and a locking pin prevents articulation for safety during service or transport.

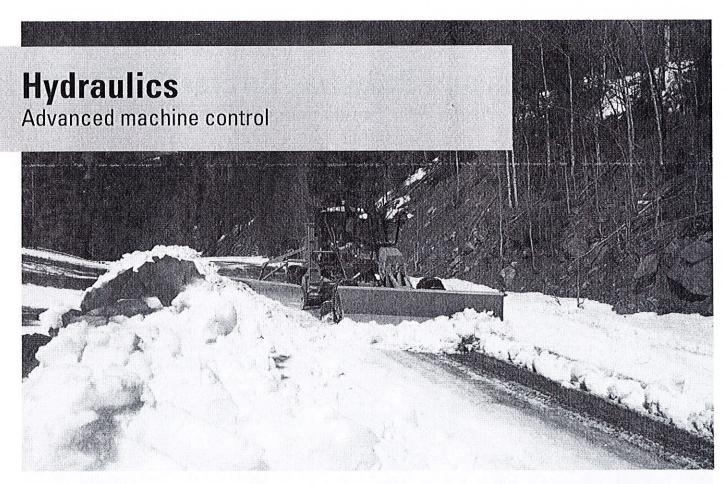
Easy Maintenance for More Uptime

The drawbar, circle and moldboard are designed to make it easy to keep the components tight. One person can easily adjust or replace the patented top-adjust drawbar wear inserts from the top of the drawbar plate, reducing downtime to save you money. Durable nylon composite wear inserts maximize circle torque and component life. Sacrificial brass wears strips between the blade mounting group and moldboard can be easily adjusted and replaced. The Shimless Moldboard Retention System uses vertical and horizontal adjusting screws to keep moldboard wear strips aligned for reduced blade chatter and precise blade control.

Blade Angle and Moldboard

An aggressive blade angle, optimized moldboard curvature and large throat clearance help you work more efficiently by allowing material to roll more freely along the blade.

Heat-treated rails, hardened cutting edges and end bits, and heavy duty bolts to give you greater moldboard reliability and long service life. The link bar allows extreme moldboard positioning for easier bank sloping and ditch cutting/cleaning.



Responsive Hydraulics

A proven load-sensing system and advanced electro-hydraulics give you superior implement control and responsive hydraulic performance that helps make your operator's job easier. Continuously matching hydraulic flow/pressure to power demands creates less heat and reduces power consumption.

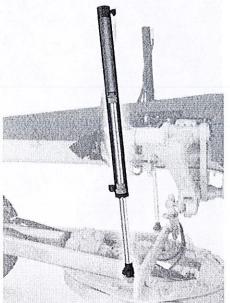
- Consistent, Predictable Movement Proportional Priority Pressure-Compensating (PPP-C) valves have different flow rates for the head and rod ends of the cylinder, so you can count on consistent, predictable implement response.
- Balanced Flow Hydraulic flow is proportioned to give you confidence that all implements will operate simultaneously without slowing the engine or speed of some implements.

Blade Float

Allows the blade to move freely under its own weight. By floating both cylinders, the blade can follow the contours of the ground. Floating only one cylinder permits the toe of the blade to follow a hard surface while the operator controls the slope with the other lift cylinder.

Independent Oil Supply

Large, separate hydraulic oil supplies prevent cross-contamination and provide proper oil cooling, which reduces heat build-up and extends component life. Cat XT™ hose allows high pressures for maximum power and reduced downtime.





All Wheel Drive (AWD)

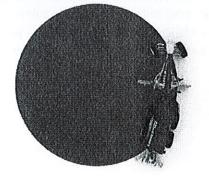
Expanded machine versatility





Without Steering Compensation

With Steering Compensation



If you work in soft underfoot conditions where traction can be a challenge, optional All Wheel Drive (AWD) can give you the additional power to the ground you need to work more efficiently in mud, gravel, sand or snow. The added traction helps reduce sliding on side slopes.

- Dedicated left and right pumps give you more precise hydraulic control.
 The infinitely variable pumps and motors maximize torque in each gear.
- AWD automatically increases horsepower to maximize your power to the ground.
- Standard Hydrostatic Mode disengages the transmission and provides hydraulic power to the front wheels only. Infinitely variable ground speed between 0-8 km/h (0-5 mph) is ideal for precise finish work.
- Cat Steering Compensation System enables a "powered turn" by adjusting
 the outside front tire speed up to 50% faster than the inside tire. This gives
 you improved control, reduces surface damage and greatly reduces
 turning radius in poor underfoot conditions.



Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technologyequipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offer improvements in these key areas:



Equipment Management - increase uptime and reduce operating costs.



Productivity - monitor production and manage job site efficiency



Safety - enhance job site awareness to keep your people and equipment safe.

Featured Cat Connect technologies include:

Link

Link technologies provide wireless capability to machines enabling two-way transfer of information collected by on-board sensors, control modules, and other Cat Connect technologies using off-board apps, such as our VisionLink software.

Product Link™/VisionLink®

Product Link takes the guesswork out of equipment management. Track location, hours, fuel usage, productivity, idle time, diagnostic codes and more through the online VisionLink interface. Manage your fleet in real time so you can maximize efficiency, improve productivity, and lower operating costs.







Grade

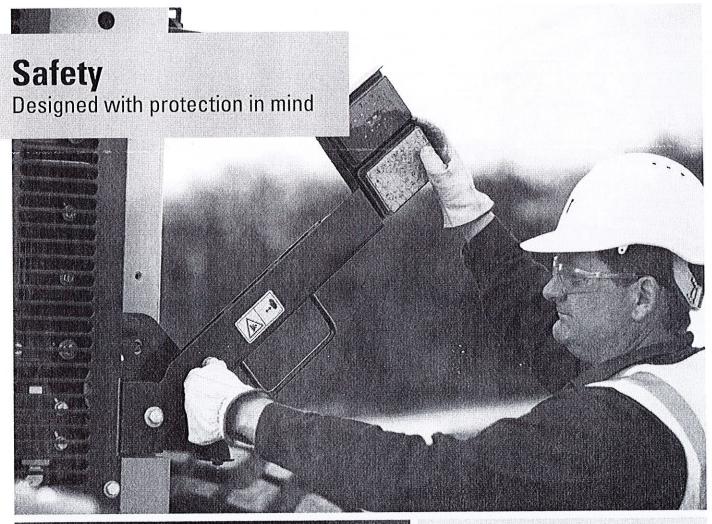
Grade technologies combine digital design data, in-cab guidance, and automatic blade controls to enhance grading accuracy, reduce rework, and lower costs related to production earthmoving and rough, fine and finish grade applications.

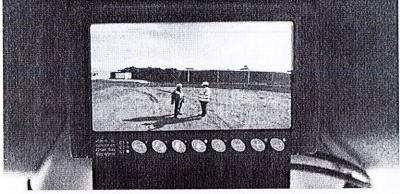
Cat Grade Control Cross Slope

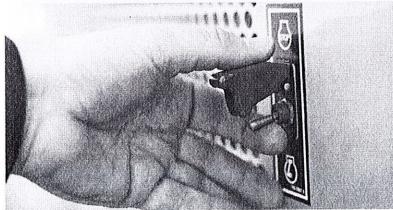
Cat Grade Control Cross Slope is an optional fully integrated, factory installed system that helps your operator improve grading efficiency and more easily maintain accurate cross slopes. The system automatically controls one side of the blade, reducing manual operator inputs by as much as 50 percent. Experienced operators can maintain peak efficiency levels throughout more of the work day, while less experienced operators can be more productive faster. The system is job-ready from day one, and scalable for the future with AccuGradeTM upgrade kits that provide additional 2D and/or 3D control.

Cat AccuGrade

AccuGrade is an optional dealer-installed grade control system that provides higher accuracy capabilities to the Cat Cross Slope system by adding Sonic, Laser, GPS, and/or Universal Total Station (UTS) technology when the job requires. In-cab guidance helps operators work more confidently and get to grade faster, in fewer passes, using less material, improving productivity and accuracy by nearly 50 percent over conventional methods. Grade stakes and checkers are minimized, making the job site safer and more cost effective. An AccuGrade Attachment Ready Option can be ordered as a factory or dealer-installed option. It includes built-in mounting points and internal wiring for easy installation of the AccuGrade system.







Safety Features

- Optional rearview camera with in-cab monitor
- New optional seat belt indicator light reminds operator to fasten safety belt
- Grouped, ground level service points
- Laminated front window glass
- Optional LED Lighting
- Ground-level electrical disconnect switch
- Ground-level engine shutoff switch
- Anti-glare paint eases night operation
- . Optional front and rear fenders

Operator Presence Monitoring System

Standard system keeps the parking brake engaged and hydraulic implements disabled until the operator is seated and the machine is ready for operation.

Speed Sensitive Steering

Standard function makes steering less sensitive as ground speed increases for greater operator confidence and control.

Secondary Steering System

Standard feature automatically engages an electric hydraulic pump in case of a drop in steering pressure so the operator can steer the machine to a stop.

Hydraulic Lockout

Disables all implement functions while still providing machine steering control. This standard safety feature is especially useful while roading.

Brake Systems

Brakes are located at each tandem wheel to eliminate braking loads on the power train. Redundant brake systems utilize accumulators to enable stopping in case of machine failure.

Walkways and Grab Rails

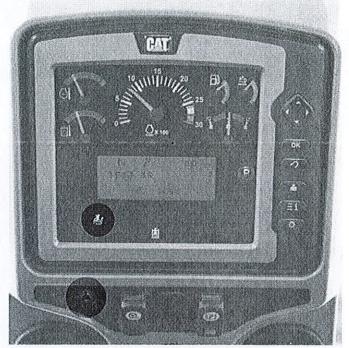
Perforated steel tandem walkways and convenient grab rails give you a sturdy platform when moving on, off and around the machine.

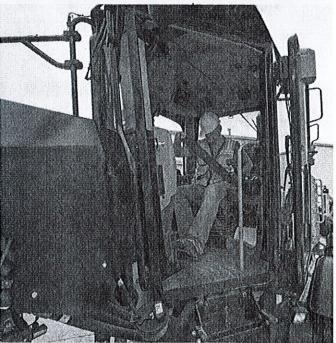
Circle Drive Slip Clutch

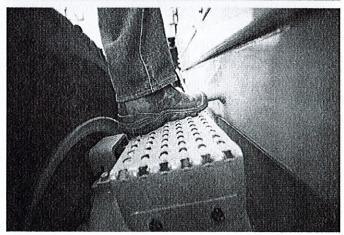
Protects the drawbar, circle and moldboard from shock loads when the blade encounters an immovable object. This standard feature also reduces the possibility of abrupt directional changes in poor traction conditions.

Blade Lift Accumulators

Help absorb impact loads to the moldboard by allowing vertical blade travel. This optional feature helps reduce wear and aids operator safety.







Work Tools and Attachments

Equip your machine for the job



Moldboard Options

The 140, 150, and 160 motor graders come equipped with a 3.7 m (12 ft) moldboard. An optional 4.3 m (14 ft) blade is available for all models, as well as a 4.9 m (16 ft) moldboard for the 160.

Ground Engaging Tools (GET)

A variety of tools are available from Cat Work Tools, including cutting edges, graderbits and end bits, all designed for maximum service life and productivity.

Front Mounted Groups

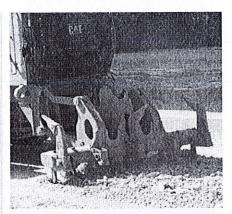
A front mounted push plate or front lift group are available. The front lift group can be combined with a front dozer blade or front scarifier for added versatility.

Rear Ripper/Scarifier

Made to penetrate tough material fast and rip thoroughly for easier movement with the moldboard. The ripper includes three shanks (with holders for five). Nine scarifier shanks can also be added for additional versatility.

Snow Removal Work Tools

Snow plow, snow wing and mounting options increase machine versatility and utilization throughout the year.

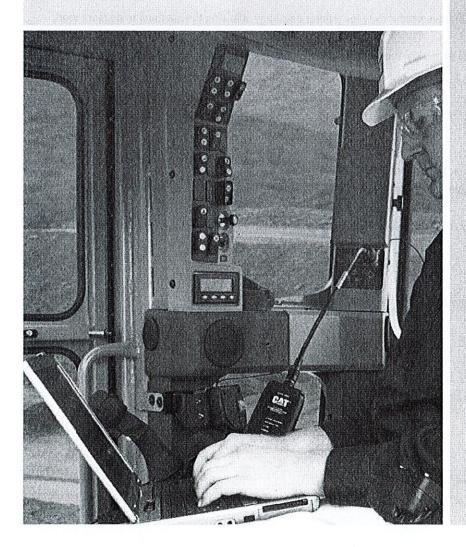


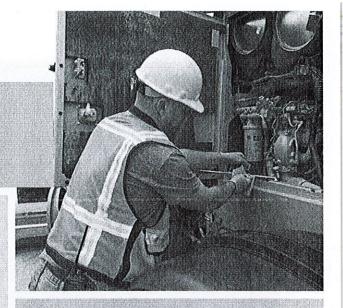


Smart Machine Systems

Advanced Diagnostics

- Cat Messenger, combined with full systems integration, enhances diagnostic capability for quick analysis of critical data.
- Electronic Technician (Cat ET) lets service technicians access stored diagnostic data and configure machine parameters through the Cat Data Link.
- Low Battery Elevated Idle raises idle speed when low system voltage is detected, ensuring adequate system voltage and improving battery reliability.
- Automatic Engine Deration protects the engine by automatically lowering engine torque output and alerting the operator if critical conditions are detected.





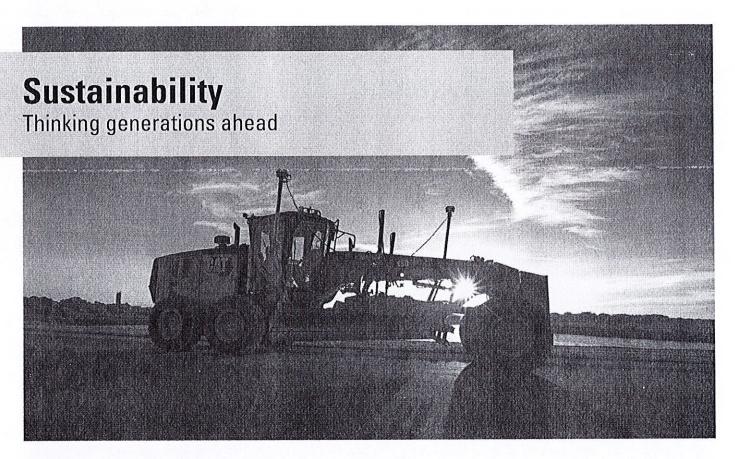
Serviceability and Customer Support

When uptime counts

Cat motor graders are designed to help you increase uptime and reduce costs. Grouped service points and extended service intervals save maintenance time. New optional LED lights in the left hand compartment makes it more convenient to service the machine in low light.

Unparalleled Dealer Support

When it comes to supporting you, Cat dealers are second to none. From machine selection and purchase to maintenance support and rebuilds, Cat dealers have the experience and capabilities to help keep you up and running.



Fuel Efficiency

- Integrated machine systems and technologies improve productivity for greater accuracy, allowing the machine to do more work
 per gallon of fuel.
- New Economy Mode feature allows the machine to work in the most efficient engine speed range to help reduce fuel use.

Green House Gas Emissions

Reduced fuel consumption means reduced CO₂ emissions.

Material Efficiency and Lifecycle Costs

- · Replaceable wear parts save maintenance time and cost, and extend major component life.
- Major components are built to be rebuilt, eliminating waste and saving customers money by giving the machine and/or major components a second – and even third – life.
- Approximately 95% of machine materials can be recycled (ISO 16714) to conserve valuable natural resources and further enhance machine end-of-life value.

Sound

Reduced engine noise and quieter cabs mean lower operator and spectator sound levels.

Safety

- Ecology drains help make draining fluids more convenient and help prevent spills.
- · Cartridge style hydraulic fluid filters provide safe clean draining of filters prior to replacement, helping to prevent fluid spills.
- A variety of safety features help safeguard operators and others on the job site.

	North American buyers only and are subject to change. Model configuration may change depending on couracterpillar dealer for the most up-to-date specifications for your area.
Category	Specification
BASIC SPECIFICATIONS BASIC SPECIFICATIONS	Machine shall be designed and built by the manufacturer. Base Machine Weight shall not be less than 31,508 lb (14,212 kg). Weight shall include: standard machine configurat lubricants, coolants, full fuel tank and operator of 200 lbs (91 kg).
BASIC SPECIFICATIONS	Max saleable weight of the machine shall not be less than 50,420 lb (22,870 kg). Weight shall be the heaviest possible combination of compatible attachments, also including lubricants, full fuel tank and operator of 200 lbs (91 kg).
BASIC SPECIFICATIONS	Machine length from the front outside edge tire to end of tow hitch shall not be less than 334.8 in (8,504 mm).
BASIC SPECIFICATIONS	Machine Wheel Base (distance from front axle to mid tandem) shall not be less than 239.6 in (6,086 mm).
BASIC SPECIFICATIONS	Machine length from counterweight to ripper shall not exceed 394.2 in (10,013 mm).
BASIC SPECIFICATIONS	Machine height to top of the cab shall not exceed 132 in (3,354 mm).
BASIC SPECIFICATIONS	Front frame shall be a flanged box section construction which removes welds from high stress areas
BASIC SPECIFICATIONS	The rear frame shall have two box section channels with an integrated bumper.
BASIC SPECIFICATIONS	
ENGINE	A standard rear hitch shall be provided.
ENGINE	Engine shall be designed and built by the manufacturer.
	Engine shall be a turbo-charged, direct injection, four stroke, 6-cylinder diesel engine.
ENGINE	Engine shall be electronically controlled for more efficient fuel injection and fuel burn.
ENGINE	Engine displacement shall not be less than 7.2L (439 in3).
ENGINE	Engine will increase its low idle speed to 1,000 rpm when the battery voltage is below 24.5 volts for more that minutes to ensure adequate system voltage and battery reliability.
ENGINE	Engine shall develop a rated net flywheel power of a least 171 HP (128 kW) in 1st gear and 191 HP (143 kW) in 4th g through 8th gear.
ENGINE	Rated engine power shall not be achieved at an engine speed greater than 2000 rpm.
ENGINE	Peak engine power shall not be achieved at an engine speed greater than 2000 rpm.
ENGINE	Engine shall be isolation/resilient mounted to minimize sound and vibration.
ENGINE	
ENGINE	Engine shall be certified EPA Tier 3 and European Union Stage IIIa
ENGINE	Altitude deration will not occur at altitudes less than 10,000 ft (3048 m). The deration rate above 3048 m (10,000 ft) sl 1.5% per 305 m (1000 ft).
ENGINE	Engine shall allow for at least 500 hours of operation between oil changes.
	Engine enclosure and daily service points shall be accessible from ground level, and grouped on the left side of the
ENGINE	machine.
ENGINE	Ether starting aid shall be available and must automatically meter ether injection to prevent engine damage.
ENGINE	Engine shall automatically lower engine torque and alert the operator if critical conditions are detected.
ENGINE	Engine compartment doors shall be lockable without the use of external locks.
ENGINE	A jacket water heater shall be available to assist in cold weather starting.
POWERTRAIN/TRANSMISSION	Transmission shall be designed and built by the machine manufacturer.
POWERTRAIN/TRANSMISSION	Transmission shall be a direct drive, power shift, countershaft type.
POWERTRAIN/TRANSMISSION	Transmission shall not have less than 8 forward speeds and 6 reverse speeds.
POWERTRAIN/TRANSMISSION	Transmission shall have 5 working gears between 0-10.8 mph (0-17.4 km/h), for dirt applications.
POWERTRAIN/TRANSMISSION	Differential Lock/Unlock shall be electro-hydraulically controlled, as a standard feature.
POWERTRAIN/TRANSMISSION	Differential Lock/Unlock shall not have speed restrictions for engaging/disengaging.
POWERTRAIN/TRANSMISSION	Differential Lock/Unlock shall be a multi-disc design.
POWERTRAIN/TRANSMISSION	Final drive shall be a planetary design.
POWERTRAIN/TRANSMISSION	A programmable auto-shift transmission option shall be available.
POWERTRAIN/TRANSMISSION	Machine shall be equipped with an electronic inching pedal for improved modulation and machine control.
POWERTRAIN/TRANSMISSION	Transmission shall be isolated/resilient mounted to reduce sound and vibration.
BRAKES	Service brakes shall be multi-disc, oil-cooled and completely sealed.
BRAKES	Service brakes shall be air actuated, utilizing dual independent brake circuits.
BRAKES	Entire braking system shall meet all requirements of ISO 3450: 1996.
AND MORE REPORTS	Service brakes shall provide a minimum of 3,712 in² (23,948 cm²) of total friction material surface area used at each of
BRAKES	four tandem wheels to eliminate braking loads on the power train.
BRAKES	Parking brake shall be multi-disc, oil-cooled, air actuated and sealed
HYDRAULIC SYSTEM	Hydraulics system shall be a closed center, load sensing type, with a variable displacement, proportional pri pressure axial piston-type pump.
HYDRAULIC SYSTEM	Standard hydraulic implement pump shall produce between 0 and 20.9 gallon/min (79.0 L/min) of max oil flow.
HADDATH IC SASTEM	Octional high flow implement numbers all produce between 0 and 55.5 callon/min (210.0 L/min) of may oil flow
HYDRAULIC SYSTEM	Optional high flow implement pump shall produce between 0 and 55.5 gallon/min (210.0 L/min) of max oil flow. Implement valves shall be proportional priority pressure compensating for consistent response, when multi-
HYDRAULIC SYSTEM	functioning any combination of implement controls and independent of engine speed.
HYDRAULIC SYSTEM	Hydraulic system shall be fully sealed, using Duo-cone and O-ring seals to prevent contamination and spillage.
HYDRAULIC SYSTEM	All implement hydraulic connections shall have O-ring face seals for leak prevention.
HYDRAULIC SYSTEM	Lock valves shall be integrated into the main implement valve to prevent cylinder drift.
HYDRAULIC SYSTEM	The maximum hydraulic system pressure shall be no more than 3,698.5 psi (25,500 kPa).
HYDRAULIC SYSTEM	The hydraulic stand-by pressure shall be no more than 522 psi (3600 kPa).
FRONT AXLE AND TANDEMS	Front axle shall be an arched design for maximum ground clearance.

MOTOR GRADERS **BID SPECIFICATION FOR 140 OR EQUIVALENT** Bid specs are intended for use by North American buyers only and are subject to change. Model configuration may change depending on country of use. Please contact your local Caterpillar dealer for the most up-to-date specifications for your area. Category Specification FRONT AXLE AND TANDEMS Front axle oscillation shall be no less than 32 degrees total, per side 16 degrees up, 16 degrees down. FRONT AXLE AND TANDEMS Front wheel steering angle shall be no less than 47.5 degrees left or right. FRONT AXLE AND TANDEMS Front wheel spindle bearings shall be a large diameter roller bearing FRONT AXLE AND TANDEMS Front wheel spindle maintenance intervals shall be no less than 2000 hrs. Mechanical steering stops located at each wheel and steering cylinder relief valves shall be present to prevent steering FRONT AXLE AND TANDEMS system damage during normal operation. FRONT AXLE AND TANDEMS Maximum front wheel lean shall be no less than 18 degrees left or right. FRONT AXLE AND TANDEMS Machine turning radius shall not exceed 24 ft 9 in (7.5 m) using front steering, full articulation and unlocked differential. FRONT AXLE AND TANDEMS Steering tie rod ends shall be heat induction hardened. FRONT AXLE AND TANDEMS Tandem chain pitch shall not be less than 2.0 in (50.8 mm). FRONT AXLE AND TANDEMS Distance between center of tandem wheels shall be no less than 60 in (1523 mm). Tandems shall be capable of oscillating 15 degrees front tandem up and 25 degrees front tandem down, with full FRONT AXLE AND TANDEMS machine articulation and having no interference between tandem wheel and machine structure. OPERATORS STATION An enclosed cab with ROPS (Rollover Protective Structure) according to ISO 3471: 1986-1997shall be provided. OPERATORS STATION FOPS (Falling Object Protective Structure) shall be provided according to ISO 3449. OPERATORS STATION Cab shall be isolation-mounted to the front frame section of the machine. OPERATORS STATION Cab doors shall have a hold-open clasp with a ground-level release and in addition to, a release in the cab. **OPERATORS STATION** Cab shall have fixed front window of laminated glass with intermittent wiper. **OPERATORS STATION** Wipers shall be available on rear windows. OPERATORS STATION A rear sun shade shall be available **OPERATORS STATION** A rear defroster fan shall be available. **OPERATORS STATION** Left and right side cab doors shall be standard. OPERATORS STATION Operator cab fresh air-filter shall be accessible for clean out and replacement, from behind the operator's seat OPERATORS STATION A 25,000 BTU/h (12.3 kW) heater with integral pressurizer and four-speed fan shall be standard OPERATORS STATION Machine shall have no less than 14 adjustable vents, positioned to direct air to front windows and operator. OPERATORS STATION Auxiliary controls shall be available for control of attachment implements and/or work tools An instrument cluster shall be provided that includes a differential lock, throttle lock, brake air, coolant temperature, fuel and OPERATORS STATION articulation angle gauge. **OPERATORS STATION** Digital machine hour meter shall be provided. Seat shall be a cloth-covered suspension seat with, 3-inch (76 mm) retractable seat belts, with adjustments for fore-aft **OPERATORS STATION** position, seat height, seat back angle, thigh support, and lumbar support. OPERATORS STATION Radio ready arrangement including 24V to 12V converter, two speakers, antenna and wiring shall be standard. Machine shall have the AccuGrade™ system fully integrated into the machine design with integral hydraulic and electrical OPERATORS STATION components as part of optional performance package with high flow implement pump AccuGrade™ automatic blade control system attachment ready option shall be available from the factory. This option shall OPERATORS STATION Include additional mounting brackets and electrical harnesses for easy installation of the electronics kit. DRAWBAR, CIRCLE & MOLDBOARD Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides. DRAWBAR, CIRCLE & MOLDBOARD There will de no more than 6 replaceable wear inserts between the circle and drawbar DRAWBAR, CIRCLE & MOLDBOARD Drawbar wear strips shall be replaceable drop-in inserts, made from nylon composite material. DRAWBAR, CIRCLE & MOLDBOARD Circle outside diameter shall be no less than 60.2 in (1530 mm). DRAWBAR, CIRCLE & MOLDBOARD Circle shall be a single piece, rolled-ring forging, with raised wear surfaces on the top and bottom. DRAWBAR, CIRCLE & MOLDBOARD Circle teeth contact surfaces shall be induction-hardened on the front 240 degrees of the circle. DRAWBAR, CIRCLE & MOLDBOARD Moldboard shall have a hydraulic tip control through a range of 40 degrees fore and 5 degrees aft. DRAWBAR, CIRCLE & MOLDBOARD The standard moldboard shall be at least 12 ft (3657 mm) long, 24 in (610 mm) high and no less than 7/8 in (22 mm) thick. A 14 ft (4267 mm) long, 24 in (610 mm) high and no less than 7/8in (22 mm) thick moldboard shall be available. DRAWBAR, CIRCLE & MOLDBOARD DRAWBAR, CIRCLE & MOLDBOARD The standard mounting hardware for cutting edges and end bits shall be 3/4 in (19 mm) DRAWBAR, CIRCLE & MOLDBOARD Moldboard slide rails shall be constructed of a heat-treated, high carbon steel. DRAWBAR, CIRCLE & MOLDBOARD Slide rails shall be hardened and continuously welded DRAWBAR, CIRCLE & MOLDBOARD Throat clearance with standard moldboard shall be at least 4.7 in (120 mm). Blade lift and center shift cylinders shall have replaceable bronze-alloy wear inserts in the ball sockets with removable DRAWBAR, CIRCLE & MOLDBOARD shims to insure the ability to remove free play throughout the useful wear insert life. DRAWBAR, CIRCLE & MOLDBOARD Link bar shall have 7 positions for increased versatility.

MOTOR GRADERS BID SPECIFICATION FOR 140 OR EQUIVALENT Bid specs are intended for use by North American buyers only and are subject to change. Model configuration may change depending on country of use. Please contact your local Caterpillar dealer for the most up-to-date specifications for your area. Specification Category The moldboard retention system shall have two retention points located on the left and right side of the moldboard. The DRAWBAR, CIRCLE & MOLDBOARD surface area shall not be less than 58016 mm² (89.92 in²) The drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar DRAWBAR, CIRCLE & MOLDBOARD ELECTRICAL Machine shall have, 750 CCA heavy-duty maintenance-free batteries standard. ELECTRICAL Machine shall have 190 amp-hour, 1400 CCA extra heavy-duty batteries available. ELECTRICAL Machine shall have an 115-amp alternator as standard. ELECTRICAL Starting system shall be a 24V direct electric type. ELECTRICAL A 24 V to 12 V converter with 10-amp capacity shall be standard. Electrical system shall have a master disconnect switch with a removable key (in addition to the ignition switch), accessible ELECTRICAL from the ground level. ELECTRICAL A 24V to 12V converter with 25-amp capacity shall be available. ELECTRICAL White reversing lamps and red stop lamps shall be standard. ELECTRICAL High and low bar headlights with front turn signals shall be available SERVICEABILITY A guard shall be available to protect the machine's transmission from debris. SERVICEABILITY A guard shall be available to suppress sound from the engine. A two-way communication tool shall give service technicians easy access to stored diagnostic data and allow configuration SERVICEABILITY of machine parameters SERVICEABILITY Machine shall provide 3 points of contact on all areas of the machine, for mounting and dismounting. The articulation joint shall have mechanical locking device to prevent frame articulation while servicing or SERVICEABILITY transporting machine. Left and right side tandem case assemblies shall be covered with punched steel plate to provide an adequate platform for SERVICEABILITY standing and walking. SERVICEABILITY High-speed engine oil drain system shall be made optional Sampling ports shall be accessible from the tandem level and provide access to the engine, hydraulic, coolant, and fuel SERVICEABILITY MINIMUM SERVICE FILL Standard fuel tank capacity shall not be less than 86.6 gallons (305 L). CAPACITIES MINIMUM SERVICE FILL Standard cooling system capacity shall not be less than 10.6 gallons (40 L). CAPACITIES MINIMUM SERVICE FILL Standard hydraulic tank capacity shall not be less than 14.5 gallons (55 L). CAPACITIES MINIMUM SERVICE FILL Standard engine oil capacity shall not be less than 4.8 gallons (18 L). CAPACITIES MINIMUM SERVICE FILL Standard tandem housing capacity shall not be less than 16.9 gallons (64 L) each. CAPACITIES MINIMUM SERVICE FILL Standard front wheel spindle bearing housing shall not be less than 0.1 gallons (0.5 L). CAPACITIES MINIMUM SERVICE FILL Standard circle drive housing capacity shall not be less than 1.9 gallons (7 L) CAPACITIES Machine shall have back-up lights and sounding alarm as standard when reverse gears are selected. SAFETY AND ENVIRONMENTAL A circle drive slip clutch shall be provided as standard, to reduce horizontal moldboard impact damage. SAFETY AND ENVIRONMENTAL SAFETY AND ENVIRONMENTAL Blade lift accumulators shall be available, to reduce vertical impact damage. SAFETY AND ENVIRONMENTAL An external emergency kill switch shall be available for ground level engine shut down. SAFETY AND ENVIRONMENTAL Electrical system shall have a master disconnect switch with a removable key and lock (in addition to the ignition switch). SAFETY AND ENVIRONMENTAL A guard shall be available to protect the machine's transmission from debris Machine shall provide dual exits allowing for emergency egress should one side become obstructed SAFETY AND ENVIRONMENTAL SAFETY AND ENVIRONMENTAL Machine shall have laminated glass for the front windows and doors to protect the operator from shattered glass. ADDITIONAL FEATURES A rear ripper/scarifier shall be available. ADDITIONAL FEATURES Rear ripper shall have five ripper shank holders and 9 scarifier shank holders. Rear ripper shall have a working penetration of maximum 18.2 in (462 mm) and a penetration force of at least 19,166 lb ADDITIONAL FEATURES (8694 kg) ADDITIONAL FEATURES A front lift group shall be available A front scarifier and mid-mount scarifier shall be available. ADDITIONAL FEATURES ADDITIONAL FEATURES A snow wing frame ready option shall be available Rear fenders shall meet ISO-3457 requirements and shall not interfere with the ability to fully open any cab or engine ADDITIONAL FEATURES enclosure, or service access doors An integrated communication tool providing flow of vital machine data and location shall be available. This system shall ADDITIONAL FEATURES give automatic updates on machine parameters such as machine hours, machine condition, location, fault codes and ADDITIONAL FEATURES All core machine systems shall be electronically connected optimizing performance and preventing machine damage



CATERPILLAR LIMITED WARRANTY

For Selected Machine Models Designated by Caterpillar With 12 Month/Unlimited Hour Warranty

Worldwide

Caterpillar Inc. or any of its subsidiaries ("Caterpillar") warrants the following products sold by it to be free from defects in material and workmanship:

This warranty does not apply to new replacement engines.

This warranty does not apply to selected models or new replacement engines designated by Caterpillar in India and China.

(In other areas different warranties may apply. Copies of applicable warranties may be obtained by writing to Caterpillar Inc., 100 N.E. Adams St., Peoria, IL 61629.)

- New earthmoving, construction, material handling, forestry product, paving product, compact wheel loader, mini hydraulic excavator, skid steer loader, multi terrain loader, and compact track loader machines designated by Caterpillar as having 12 -months/unlimited hour warranty. See your Cat dealer for a complete listing of covered models.
- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and compacting plates used on hydraulic hammers are not warranted.

An additional warranty against breakage is applicable to certain Cat ground engaging tools. An additional warranty against wear is applicable to all landfill compactor tips when used in residential waste landfills. Refer to the applicable warranty statements for coverage detail.

This warranty does not apply to Cat batteries, Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators, or Cat Work Tools, which are covered by other Caterpillar warranties.

This warranty is subject to the following:

Warranty Period

For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.

Note: For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user.

Caterpillar Responsibilities

If a defect in material or workmanship is found during the warranty period, Caterpillar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Caterpillar:

 Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.

Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the defect, except in the case of a new replacement engine originally installed by other than a Cat dealer or source approved by Caterpillar. In this

case, labor is limited to repair only, and removal and nestallation is the user's responsibility.

User Responsibilities

The user is responsible for:

- Providing proof of delivery date to the first user.
- Labor costs, except as stated under "Caterpillar Responsibilities."
- Transportation costs, except as stated under "Caterpillar Responsibilities."
- Premium or overtime labor costs.
- Parts shipping charges in excess of those, that are considered usual and customary.
- Local taxes, if applicable.
- Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship.
- Giving timely notice of a warrantable failure and promptly making the product available for repair.
- Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant) and items replaced due to normal wear and tear.
- Allowing Caterpillar access to all electronically stored data

(continued on the reverse side....)

Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
- Failures resulting from abuse, neglect, and/or improper repair.
- problem.

Failures resulting from user's delay in making the product

available after being notified of a potential product

- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel setting changes.
- and unauthorized fuel

For products operating outside of Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

NEITHER THE FOREGOING EXPRESS WARRANTY NOR ANY OTHER WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED, IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT CATERPILLAR EMISSION-RELATED COMPONENTS WARRANTY FOR NEW ENGINES, WHERE APPLICABLE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN.

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ONTHE PART OF ANY OF ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS IS EXCLUDED IN ITS ENTIRETY.

For products operating in Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED.

NEITHER THIS WARRANTY NOR ANY OTHER CONDITION OR WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED (SUBJECT ONLY TO THE MANDATORY RIGHTS), IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

TO THE EXTENT PERMITTED UNDER THE MANDATORY RIGHTS, IF CATERPILLAR IS THE SUPPLIER TO THE USER, CATERPILLAR'S LIABILITY SHALL BE LIMITED AT ITS OPTION TO (a) IN THE CASE OF SERVICES, THE SUPPLY OF THE SERVICES AGAIN OR THE PAYMENT OF THE COST OF HAVING THE SERVICES SUPPLIED AGAIN, AND (b) IN THE CASE OF GOODS, THE REPAIR OR REPLACEMENT OF THE GOODS, THE SUPPLY OF EQUIVALENT GOODS, THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT GOODS.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

CATERPILLAR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNLESS IMPOSED UNDER MANDATORY RIGHTS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION (CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS) IS EXCLUDED IN ITS ENTIRETY.

This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629.



Employment Eligibility Verification



User In TMOR\$402

Mailing Address:

Address 2:

City:

State:

Address 1: P O. Box 10367

AL

Zip Code: 35202-0367

Birmingham

Last Louis



09:22 AM - 01/06/2012 Log Out

View / Edit

Click any 🚱 for help

Home

My Cases

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Change Password

Change Security Questions

My Company

Edit Company Profile

Add New User

View Existing Users

Close Company Account

My Reports

View Reports

My Rescurces

View Essential Resources

Take Tutorial

View User Manual Contact Us

Company Information

Company Name:

Thompson Tractor Co., Inc.

Company ID Number:

Doing Business As (DBA)

Name:

DUNS Number:

Physical Location:

Address 1:

Address 2:

City:

State:

Zip Code:

County:

2401 Pinson Highway

Birmingham

47130

AL

35217

JEFFERSON

1,000 to 2,499

Additional Information:

Employer Identification Number: 630377478

Total Number of Employees:

Parent Organization:

Administrator:

Organization Designation:

Employer Category:

NAICS Code: 423 - MERCHANT WHOLESALERS, DURABLE GOODS

View / Edit

Total Hiring Sites:

40

View / Edit

Total Points of Contact: 3

View / Edit

View MOU

(Rev. October 2007) Department of the Treasury

Name (as shown on your income tax return)

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

,; ,;	Thompson Tractor Co., Inc. DBA Thompson Power Systems, Thompson Lift Truck Co.						
page	Business name, It different from above						
Print or type Specific Instructions on p	and The Cat Rent Store			T	š		
	Check appropriate box: Individual/Sole proprietor Corporation Partnership Limited liability company, Enter the tax classification (Dedisregarded entity, Cecorporation, Pepi		Exempt payee				
	Address (number, street, and apt. or suite no.) Requester's name a		name and a	and address (optional)			
	P O Box 10367 2401 Pinson Hwy. Tarrant, AL 35217						
	City, state, and ZiP code						
	Birmingham, AL 35202-0367				į		
See	List account number(s) here (optional)						
		Lockbox Remit To: P O Box 934085, Atlanta, GA 31193-4005					
	Taxpayer Identification Number (TIN)				•		
Enter your TIN in the appropriate box. The TIN provided must match the name given on Une 1 to avoid Social socurity number Social socurity number Social socurity number Social socurity number							
alien, sole proprietor, or disregarded entity, see the Part Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see How to get a TIN on page 3.				or			
				player identification number			
Note. If the account is in more than one traine, see the chart on page 7 to gotomber to enter.			63 : 0	0377478			
	Certification						
Linder	penalties of certify 1 certify that:						
. T.	a sumber shows on this form is my correct texpaver Identification number (or I am walting	g for a num	ber to be is	saued to ma), and			
2. la	in not subject to backup withholding because: (a) I am exempt from backup withholding, avenue Service (IRS) that I am subject to backup withholding as a result of a fallure to republished me that I am no longer subject to backup withholding, and	or (b) I have	not been	notified by the internal			

3. I am a U.S. citizen or other U.S. person (defined below).

Certification inetractions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to beckup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage Interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here

Signature of U.S. person > Controller

General Instructions

Section references are to the Internal Revenue Code unless

Purpose of Form

A person who is required to file an Information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- 1. Certify that the TIN you are giving is correct (or you are waiting for a number to be Issued),
 - 2. Certify that you are not subject to backup withholding, or
- 3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An Individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the

The U.S. owner of a disregarded entity and not the entity.

Company ID Number: 47130

the Employer issues a tentative nonconfirmation based upon a photo non-match. The Employer will determine whether the employee contests the tentative nonconfirmation as soon as possible after the Employer receives it.

- 4. If the employee contests a tentative nonconfirmation issued by DHS, the Employer will provide the employee with a referral letter and instruct the employee to contact the Department through its toll-free hotline within 8 Federal Government work days.
- 5. If the employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will provide the employee with a referral letter to DHS. DHS will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.
- 6. The Employer agrees that if an employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will send a copy of the employee's Form I-551 or Form I-766 to DHS for review by:
 - · Scanning and uploading the document, or
 - Sending a photocopy of the document by an express mail account (furnished and paid for by DHS).
- 7. The Employer understands that if it cannot determine whether there is a photo match/non-match, the Employer is required to forward the employee's documentation to DHS by scanning and uploading, or by sending the document as described in the preceding paragraph, and resolving the case as specified by the Immigration Services Verifier at DHS who will determine the photo match or non-match.

ARTICLE IV

SERVICE PROVISIONS

The SSA and DHS will not charge the Employer for verification services performed under this MOU. The Employer is responsible for providing equipment needed to make inquiries. To access the E-Verify System, an Employer will need a personal computer with Internet access.

ARTICLE V

PARTIES

This MOU is effective upon the signature of all parties, and shall continue in effect for as long as the SSA and DHS conduct the E-Verify program unless modified in writing by the mutual consent of all parties, or terminated by any party upon 30 days prior written notice to the others. Any and all system enhancements to the E-Verify program by DHS or SSA, including but not limited to the E-Verify checking against additional data sources and instituting new verification procedures, will be covered under this MOU and will not cause the need for a supplemental MOU that outlines these changes. DHS agrees to train employers on all changes made to E-Verify through the use of mandatory refresher tutorials and updates to the E-Verify manual. Even

Company ID Number: 47130

without changes to E-Verify, the Department reserves the right to require employers to take mandatory refresher tutorials.

Termination by any party shall terminate the MOU as to all parties. The SSA or DHS may terminate this MOU without prior notice if deemed necessary because of the requirements of law or policy, or upon a determination by SSA or DHS that there has been a breach of system integrity or security by the Employer, or a failure on the part of the Employer to comply with established procedures or legal requirements. Some or all SSA and DHS responsibilities under this MOU may be performed by contractor(s), and SSA and DHS may adjust verification responsibilities between each other as they may determine.

Nothing in this MOU is intended, or should be construed, to create any right or benefit, substantive or procedural, enforceable at law by any third party against the United States, its agencies, officers, or employees, or against the Employer, its agents, officers, or employees.

Each party shall be solely responsible for defending any claim or action against it arising out of or related to E-Verify or this MOU, whether civil or criminal, and for any liability wherefrom, including (but not limited to) any dispute between the Employer and any other person or entity regarding the applicability of Section 403(d) of IIRIRA to any action taken or allegedly taken by the Employer.

The employer understands that the fact of its participation in E-Verify is not confidential information and may be disclosed as authorized or required by law and DHS or SSA policy, including but not limited to, Congressional oversight, E-Verify publicity and media inquiries, and responses to inquiries under the Freedom of Information Act (FOIA).

The foregoing constitutes the full agreement on this subject between the SSA, DHS, and the Employer.

The individuals whose signatures appear below represent that they are authorized to enter into this MOU on behalf of the Employer and DHS respectively.

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify Operations at 888-464-4218.

Employer Thompson Tractor Co., Inc.

Frank M Wright		
Name (Please type or print)	Title	
Electronically Signed	07/11/2007	
Signature	Date	

Department of Homeland Security - Verification Division

Company ID Number: 47130

INFORMATION REQUIRED FOR THE E-VERIFY PROGRAM						
Information relating to your Company:						
Company Name:	Thompson Tractor Co., Inc.					
Company Facility Address:	2401 Pinson Highway Birmingham, AL 35217					
Company Alternate Address:	P.O. Box 10367 Birmingham, AL 35202-0367					
County or Parish:	JEFFERSON					
Employer Identification Number:	630377478					
North American Industry Classification Systems Code:	423					
Parent Company:						
Number of Employees:	1,000 to 2,499 Number of Sites Verified for: 5					
Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State.						
• GEORGIA	5 site(s)					
Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:						
Name: Kimberly A Stark Telephone Number: (205) 849 - 4279 Fax Number: (205) 849 - 4565 E-mail Address: kimberlystark@thompsontractor.com						

Frank M Wright (205) 849 - 4267 frankwright@thompsontractor.com

Fax Number:

(205) 849 - 4854

Telephone Number: E-mail Address:

325		
	Company ID Number: 47130	
	USCIS Verification Division	
	Name (Please type or print)	Title
	Electronically Signed	07/11/2007
	Signature	Date