# 120K Motor Grader

### **CATERPILLAR®**



Liigiile			
Engine Model	Cat® C7 ACERT™		
Base Power (1st gear) – Net	93 kW	125 hp	
VHP range – Net	93-108 kW	125-145 hp	
Moldboard			
Blade Width	3.658 m	12 ft	

Gross Vehicle Wt, Typically Equipped		
total	13 032 kg	28,731 lb
front axle	3910 kg	8,620 lb
rear axle	9122 kg	20,111 lb

### **120K Features**

### Cat® C7 Engine

Optimum power and fuel efficiency, combined with Power Management and Electronic Throttle Control, assure maximum productivity.

### **Power Train**

The Power Shift transmission features direct drive and electronic control for smooth, powerful shifts at any speed.

### **Balanced Hydraulics**

Proportional hydraulic flow provides outstanding 'feel' and predictable movements.

### **Machine Safety**

Caterpillar has been and continues to be proactive in developing machines that meet or exceed safety standards.

### **Serviceability**

Grouping service points makes daily maintenance easier and faster, while enhanced diagnostics and monitoring reduce downtime.



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The 120K optimizes your investment by delivering maximum productivity and durability. The Cat C7 engine, direct-drive power shift transmission and load-sensing hydraulics work together to ensure the power and precision to get the job done.

### **Power Train**

### Smooth, responsive performance and reliability.



### **Power Shift Transmission**

Provides on-the-go, full-power shifting and inching capability. Direct drive delivers superior fuel efficiency and better "feel" of blade loads, material hardness and ground speed.

### **Optional Autoshift – Automatic Gear Shifts**

This feature automatically shifts the transmission at optimal points (in gears 3-8) so the operator can focus on the work, improving safety, productivity and ease of operation.

### Oil Disk Brakes – Completely Sealed, Adjustment Free

Oil-bathed, air actuated and spring-released, located at each tandem wheel to eliminate power train braking loads and to reduce servicing time. The large brake surface area provides dependable braking capability and extended life before rebuild.

### Front Axle with Cat Live Spindle Design

Caterpillar sealed spindle keeps the bearings free from contaminants and lubricated in a lightweight oil to reduce owning and operating costs. Two tapered roller bearings support the wheel spindle. The larger tapered roller bearing is outboard where the load is greater, extending bearing life.

# Cat® C7 Engine Maximum power and efficiency.

### **Power Management**

The Cat C7 engine uses ACERT<sup>TM</sup> Technology to provide electronic control, precision fuel delivery and refined air management, resulting in outstanding performance and lower emissions.

Variable Horse Power (VHP) is standard: base power in gears 1 and 2, 7.5 kW (10 hp) increase in gear 3, and an additional 7.5 kW (10 hp) increase in gears 4 through 8. Customized torque curves increase peak torque for improved lugging performance and responsiveness. The Electronic Throttle Control (ETC) provides easier, more precise and consistent throttle operation.



# **Hydraulics**

Balanced hydraulics deliver consistent, precise and responsive control.





### **Balanced Flow, Independent Oil Supply**

Hydraulic flow is proportioned to ensure all implements operate simultaneously. Independent oil supply prevents cross-contamination and provides proper oil cooling, which means less heat build-up and extended component life.

### **Implement Control Valves**

Provide outstanding operator "feel" and predictable system response for unmatched implement control. To help maintain exact blade settings, lock valves are built into all control valves. Line relief valves are also incorporated into selected control valves to protect the cylinders from overpressurization.

### **Load-Sensing Hydraulics (PPPC)**

A load sensing variable displacement pump and the advanced Proportional Priority Pressure-Compensating (PPPC, or "triple-PC") hydraulic valves provide superior implement control and better machine performance. PPPC valves have different flow rates for the head and rod ends of the cylinder. Continuously matching hydraulic flow and pressure to power demands creates less heat and reduces power consumption.

### **Consistent and Predictable Movement**

The hydraulic system uses valves that provide PPPC control for precise implement and machine operation. These valves contain spools that are specifically cut for each hydraulic function on the motor grader. They compensate for differences in flow requirements, based on cylinder size and the difference in surface volume between the rod end (blue) and barrel end (red) of the cylinder. The result is predictable, consistent hydraulic speeds whether extending or retracting the cylinder.



## Structures, DCM

Every component is designed for high strength and optimum durability.

### Frame Structure - Provides Consistency and Strength

Front frame is a continuous top and bottom plate construction. Flanged box section design removes welds from high stress areas, improving reliability and durability. The rear frame structure has two box section channels with fully welded differential case for a solid working platform. An integrated bumper ties the rear frame together into a cohesive unit to handle high stress loads.

### **Drawbar, Circle and Moldboard (DCM)**

The Y-frame drawbar is constructed of two solid beams for strength, durability, and precise blading control. This design allows the addition of a mid-mount scarifier without compromising blade positioning in extreme reach positions.

The circle stands up to high stress loads. Raised wear surfaces prevent circle teeth wear against the drawbar. The 64 uniformly spaced circle teeth are flame cut and heat induction hardened to resist wear, and the circle is secured to the drawbar by four support shoes for maximum support.

The moldboard provides optimal curvature and large throat clearance that helps move all soil types quickly and efficiently. These features deliver excellent load distribution and minimal material buildup in the circle area while allowing large blade loads to roll freely.

### **Blade Lift Accumulators**

This optional feature uses accumulators to help absorb impact loads to the moldboard by allowing vertical blade travel. Blade lift accumulators reduce unnecessary wear and help to avoid unintended machine movement for increased operator safety.

### **Work Tools and Attachments**

Allows expansion of machine versatility, utilization, and performance.







### **Moldboard Options**

Standard moldboard length is 3.7 m (12 ft), with an optional 4.3 m (14 ft) moldboard available from the factory. Left and right side moldboard extensions (available through the Cat parts system) will increase moldboard surface area and extend reach capability.

### **Ground Engaging Tools (GET)**

A wide variety of Cat GET is available from Cat parts system, including cutting edges, and end bits, all designed for maximum service life and productivity.

### **Rear Ripper/Scarifier**

The 120K optional ripper/scarifier is made to penetrate tough material fast and rip thoroughly for easier material movement with the moldboard. The ripper includes three shanks with the ability to add two more if needed. Nine scarifier shanks can also be added for additional versatility.

### **Front Mounted Groups**

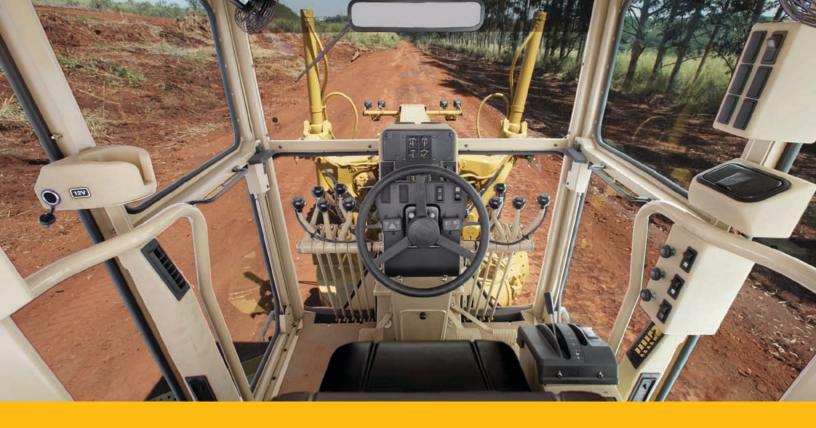
A front mounted push plate/ counterweight or front blade can be ordered.

### **Mid-Mount Scarifier**

Positioned between the front axle and the circle to break up tough material that the blade can then move, all in a single pass. The V-type scarifier can accommodate up to 11 teeth.

### **Snow Removal Work Tools**

Includes snow wings, angle blades, and V-plows. Multiple mounting options are available, increasing machine versatility. (Availability may differ by region.)



# **Operator's Station**

Caterpillar sets the standard for comfort, convenience and visibility.

### Designed to keep operators comfortable, relaxed and productive throughout the long work shift. The 120K features:

- Electronic Clutch Pressure Control (ECPC) optimizes inching modulation and smoothes shifting
- Low efforts on all pedals, hydraulic controls and the transmission shifter
- Rocker switches and transmission shifter are backlit for night time operation
- The operator can adjust implement controls and steering wheel angle independently
- Clear view to the moldboard heel and tandem tires
- Fresh air filters above each cab door for quick replacement

### **In-dash Instrument Cluster**

The instrument panel, with easy-to read, high-visibility gauges and warning lamps, keeps the operator aware of critical system information. The dash cluster panel provides enhanced machine information and diagnostic capability. It includes an engine coolant temperature gauge, an articulation gauge, voltage gauge, and fuel level gauge. Service brake air pressure gauges are also standard. Speedometer and tachometer are optional. All major systems are monitored by warning lights.

### **Additional Cab Features**

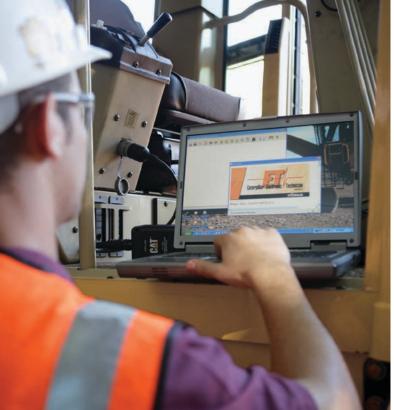
Additional cab features include storage area, an adjustable control console, and a coat hook. The following optional features are also available: power port, air conditioner/heater, suspension seat, defroster fan, sun shade, backup lights, Product Link ready, and AccuGrade<sup>TM</sup> System Ready.

NOTE: Some attachments are not available in all regions

# **Electronic Solutions**

Optimizes machine performance and availability.





### AccuGrade™ Grade Control System

The Cat AccuGrade System automatically controls the blade, improving operator efficiency and productivity.

AccuGrade technology reduces the need for traditional survey stakes or grade checkers, so you can reach grade faster and in fewer passes than ever before.

The Cat AccuGrade System includes Cross Slope, Sonic, Laser, GPS or ATS electronic kits that are available in the AccuGrade price list.

The factory installed AccuGrade Attachment Ready Option provides additional mounting brackets, cab controls and electrical harnesses for easy installation of the AccuGrade Systems.

### **Product Link**

Streamlines diagnostic efforts, and reduces downtime, maintenance scheduling and costs by providing a communication flow of vital machine data and location.

Product Link gives automatic updates on machine parameters such as machine hours, machine condition, location, fault codes and alarms directly to your office computer.

### **Cat ET (Electronic Technician)**

Cat ET is a two-way communication tool that gives service technicians easy access to stored diagnostic data, reducing machine downtime and lowering operating costs.





# Safety

Cat machines continue to meet or exceed safety standards.

### **ROPS/FOPS Cab offers Low Sound and Vibration Levels**

The operator sound pressure level for the cab offered by Caterpillar, when properly installed, maintained and tested with the doors closed, meets or exceeds requirements set forth in ISO 6394:1998. The quiet environment improves operator working conditions. Steel non-skid steps use raised perforations to provide sturdy access to the tandems.

### **Brake Systems and Machine Protection**

Brakes located at each tandem wheel offer the largest total brake surface area in the industry, delivering dependable stopping power and longer brake life. Standard circle drive slip clutch protects the drawbar, circle and moldboard from shock loads when the blade encounters an immovable object. Blade lift accumulators help absorb impact loads to the moldboard by allowing vertical blade travel.

### **Electrical Disconnect Switch and Engine Shutoff Switch**

Disconnect switch provides ground-level lockout of the electrical system to prevent inadvertent machine starts. Engine shutoff allows anyone nearby to shut the machine down in case of an emergency.

### **Additional Safety Features**

Laminated glass on the front windows and lockable doors to reduce theft and vandalism are available with the optional cab. Brake lights, conveniently located grab rails, back up lights and alarm also help ensure a safe work environment.

# **Complete Customer Support**

Cat dealers offer services to help you operate longer with lower costs.





### Your Cat dealer is ready to assist you with your purchase decision and everything after.

- Your Cat dealer can help you make detailed comparisons of the machines you're considering. How long do components last? What is the cost of preventive maintenance? What is the true cost of lost production?
- Look past initial price. Consider the financing options available as well as day-to-day operating costs.
   Many dealers offer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.
- Smart equipment buyers plan for effective maintenance before buying equipment. Ask your Cat dealer about maintenance services before you make your purchase. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help avoid unscheduled repairs.
- You will find nearly all parts at our dealer parts counter. In the rare case when we don't have a part in stock, our dealer network will find it and get it to you fast.
- Improving operating techniques can boost customer profits.
   Ask your Cat dealer about training videos, literature and other ideas to help you increase productivity. Caterpillar offers certified operator training classes to help you maximize the return on your machine investment.
- Your Cat dealer can evaluate the cost to repair, rebuild and replace your machine, so you can make the right choice.
- For more information on Cat products, dealer services and industry solutions, visit us at www.cat.com.







# **Serviceability**

Convenient service points make routine maintenance quick and easy.

### **Grouped Service Points on the left side to help ensure proper maintenance**

Easy access to service areas speeds up maintenance and ensures that routine service is performed on time. Ecology drains shorten service times and help prevent spills. Radiator cleanout access gives the operator the ability to clear away debris and other materials that build up around the radiator. Fuel water separator is easily accessible from the ground.

### **Extended Service Intervals Reduce Downtime, Operating Cost**

• 500 hour engine oil changes • 4,000 hour hydraulic oil changes • 12,000 hour engine coolant changes

### **Diagnostics and Machine Monitoring via Electronic Technician**

The dash cluster panel provides enhanced machine information and diagnostic capability, which allows faster servicing of the transmission and engine. Cat ET is a two-way communication tool that gives service technicians easy access to stored diagnostic data and lets them configure the machine parameters through the Cat Data Link.

### **O-Ring Face Seals**

O-Ring face seals create a reliable connection and are used in all hydraulic circuits to minimize the possibility of oil leaks.

### **Separate Wiring Harnesses**

This modular harness design provides simple disconnects for major machine repairs or rebuilds.

### **120K Motor Grader Specifications**

Engine		
Engine Model	Cat® C7 A0	CERTTM
Base Power (1st gear) – Net	93 kW	125 hp
VHP range – Net	93-108 kW	125- 145 hp
VHP – gears		
1-2 Net	93 kW	125 hp
3 Net	101 kW	135 hp
4-8 Net	108 kW	145 hp
1-2 Gross	103 kW	138 hp
3 Gross	110 kW	148 hp
4-8 Gross	118 kW	158 hp
Displacement	7.2 L	439 in <sup>3</sup>
Bore	105 mm	4.1 in
Stroke	127 mm	5 in
Torque Rise	50%	
Max. Torque	794 N·m	586 ft-lb
Speed @ rated power	2,000 rpm	
Number of cylinders	6	
Derating altitude	3048 m	10,000 ft
Hi Ambient Fan speed – max.	1,350 rpm	
Hi Ambient Capability	50° C	122° F

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.
- Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.
- Maximum torque measured at 1,000 rpm in gears 4-8.

Power Train	
Forward/Reverse Gears	8 fwd/6 rev
Transmission	Direct drive, Powershift
Brakes	
Service	Air actuated, multiple oil-disc
Service, surface area	18 606 cm <sup>2</sup> 2,884 in <sup>2</sup>
Parking	Air actuated, multiple oil-disc
Secondary	Dual Circuit

• Brakes meet the following standards: SAE J/ISO 3450 JAN 98.

Operating Specifications			
Top Speed			
fwd	45.7 km/h	28.4 mph	
rev	36.1 km/h	22.4 mph	
Turning Radius, outside front tires	7.3 m	23 ft 11 in	
Steering Range – left/right	47.5 Degre	es	
Articulation Angle – left/right	20 Degrees		
Fwd.			
1st	3.9 km/h	2.4 mph	
2nd	5.3 km/h	3.3 mph	
3rd	7.7 km/h	4.8 mph	
4th	10.6 km/h	6.6 mph	
5th	16.8 km/h	10.4 mph	
6th	22.8 km/h	14.2 mph	
7th	31.4 km/h	19.5 mph	
8th	45.7 km/h	28.4 mph	
Rev.			
1st	3.1 km/h	1.9 mph	
2nd	5.8 km/h	3.6 mph	
3rd	8.4 km/h	5.2 mph	
4th	13.3 km/h	8.2 mph	
5th	24.8 km/h	15.4 mph	
6th	36.1 km/h	22.4 mph	

• Maximum travel speeds calculated at high idle on standard machine configuration with 14.00-24 12PR (G-2) tires.

Hydraulic System			
Circuit Type	Load Sensing, Closed Center, PPPC		
Pump Type	Variable Piston		
Pump Output	210.5 L/min	55.6 gal/min	
Maximum System Pressure	25 500 kPa	3,699 psi	
Standby Pressure	3600 kPa	522.1 psi	
Reservoir Tank Capacity	24.5 L	6.5 gal	

• Pump output measured at 2,150 rpm

Moldboard		
Blade Width	3.658 m	12 ft
Moldboard		
height	610 mm	24 in
thickness	22 mm	0.9 in
Arc Radius	413 mm	16.3 in
Throat Clearance	120 mm	4.7 in
Cutting Edge		
width	152 mm	6 in
thickness	16 mm	0.6 in
End Bit	,	
width	152 mm	6 in
thickness	16 mm	0.6 in
Blade Pull		
Typical GVW	8210 kg	18,100 lb
Max. GVW	10 572 kg	23,308 lb
Down Pressure		
Typical GVW	7018 kg	15,471 lb
Max. GVW	9037 kg	19,923 lb
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 Blade Pull calculated at 0.9 traction coefficient, which is equal to ideal no-slip conditions, and Gross Vehicle Weight (GVW).

Blade Range		
Circle Centershift		
right	656 mm	25.8 in
left	658 mm	25.8 in
Moldboard Sideshift		
right	663 mm	26 in
left	512 mm	20.2 in
Maximum Blade Position Angle	90 Degrees	
Blade Tip Range		
forward	40 Degrees	
backward	5 Degrees	
Max. shoulder reach	outside of tin	res
right	1928 mm	75.9 in
left	1764 mm	69.4 in
Max. lift above ground	410 mm	16.1 in
Max. depth of cut	775 mm	30.5 in
Ripper		
Ripping depth – max.	262 mm	10.3 in
Ripper shank holders, quantity	5	
Ripper shank holder spacing	533 mm	21 in
Penetration force	4343 kg	9,575 lb
Pryout force	2279 kg	5,024 lb
Machine length increase, beam raised	1058 mm	41.7 in

Scarifier		
Mid, V-Type:		
Working width	1184 mm	46.6 in
Scarifying depth, max.	229 mm	9 in
Scarifier shank holders quantity	11	
Scarifier shank holder spacing	116 mm	4.6 in
• The mid mount see	rifier is posi	tioned

• The mid-mount scarifier is positioned under the drawbar between the moldboard and front axle.

Frame		
Circle		
diameter	1530 mm	60.2 in
blade beam	30 mm	1.2 in
thickness		
Drawbar		
height	127 mm	5 in
width	76.2 mm	3 in
Front axle		
height to center	615 mm	24.2 in
wheel lean,	18 Degrees	
left/right		
total oscillation	32 Degrees	
per side		
Front-top/bottom pla	ite	
width	280 mm	11 in
thickness	22 mm	0.9 in
Front-side plates	,	
width	236 mm	9.3 in
thickness	10 mm	0.4 in
Front-linear weights		
min.	134 kg/m	90 lb/ft
max.	172 kg/m	115 lb/ft
Front-section modulu	18	
min.	1619 cm <sup>2</sup>	99 in <sup>2</sup>

3681 cm<sup>2</sup>

225 in<sup>2</sup>

max.

Tandems		
Height	438 mm	17.24 in
Width	172 mm	6.77 in
Sidewall thickness		
inner	1 mm	1 in
outer	16 mm	0.63 in
Drive chain pitch	44.5 mm	1.75 in
Wheel axle spacing	1510 mm	59.45 in
Tandem oscillation		
front up	15 Degrees	3
front down	25 Degrees	3

Service Refill		
Fuel Capacity	305 L	80.6 gal
Cooling system	40 L	10.6 gal
Engine Oil	25 L	6.6 gal
Trans./Diff./Final Drives	47 L	12.4 gal
Tandem housing (each)	49 L	12.9 gal
Front wheel spindle bearing housing	0.5 L	0.1 gal
Circle drive housing	7 L	1.9 gal

### **120K Motor Grader Specifications**

VA. 1						
Weights						
Gross Vehicle Wt, Base						
total	12 035 kg	26,533 lb				
front axle	3611 kg	7,960 lb				
rear axle	8425 kg	18,573 lb				
Gross Vehicle Wt, Ty	pically Equi	pped				
total	13 032 kg	28,731 lb				
front axle	3910 kg	8,620 lb				
rear axle	9122 kg	20,111 lb				
Gross Vehicle Wt, M	ax.					
total	16 781 kg	36,997 lb				
front axle	5034 kg	11,099 lb				
rear axle	11 747 kg	25,898 lb				

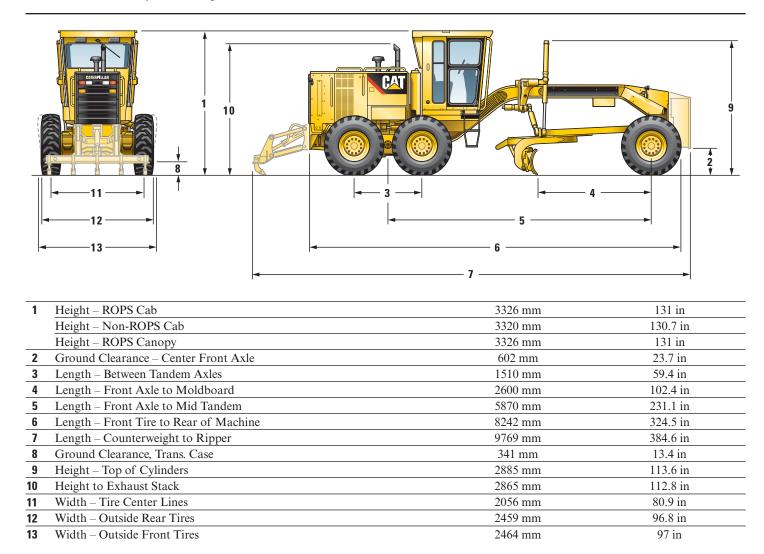
- Base weight calculated on standard machine configuration with 13.00-24 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.
- Typical operating weight calculated on standard machine configuration with Cab High Profile ROPS, 13.00-24 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.
- Max. Vehicle Weight includes all compatible attachments with Cab High Profile ROPS, 13.00-24 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.

Standards	
ROPS/FOPS	ISO 3471:1994/ ISO 3449:1992
Steering	ISO 5010:1992
Brakes	ISO 3450:1996
Sound	ISO 6394:1998 ISO 6393:1998

- The operator sound pressure level measured according to the procedures specified in ISO 6394:1998 is 74 dB(A) for the cab offered by Caterpillar, when properly installed, maintained and tested with the doors and windows closed.
- The exterior sound power level is 109 dB(A) measured according to the static test procedure and conditions specified in ISO 6393:1998 for a standard machine configuration.

### **Dimensions**

All dimensions are subject to change without notice.



### **120K Standard Equipment**

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

#### **ELECTRICAL**

Alternator, 95 ampere, sealed Backup alarm, reversing lights Batteries, maintenance free 750 CCA Electrical system, 24 volt Horn, electric Lights, stop and tail Motor, starting Product Link Ready Working lights

#### OPERATOR ENVIRONMENT

Seat belt

Steering wheel, tilt, adjustable

Storage area, cooler/lunch box Throttle, electronic control

Accelerator Control console, adjustable Gauge cluster (includes voltmeter, articulation, engine coolant temperature, air brake pressure and fuel level) Guard rails, operator station Hydraulic controls, load sensing (right/left blade lift, circle drive, centershift, sideshift, front wheel lean and articulation) Indicator lights (includes high beam, LH and RH turn, low engine oil pressure, throttle lock, check engine, transmission filter bypass and check, centershift pin, brake air pressure, parking brake engaged, AccuGrade, auto shift) Key start/stop switch Meter, hour Power steering, hydraulic Seat, vinyl-covered static

Air cleaner, dry type radial seal with service indicator and automatic dust ejector

Air to air after cooler (ATAAC)

Blower fan

Brakes, oil disc, four-wheel air actuated Differential with lock/unlock

Engine, Cat C7 with ACERT technology, diesel with automatic engine derate and idle control. Meets U.S. EPA Tier 2 and EU Stage II emission standards.

Fuel water separator

Muffler, under hood

Parking brake, multi-disc, sealed and oil cooled

Prescreener

Priming pump, fuel, resiliently mounted Sediment drain, fuel tank

Tandem drive

Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive with electronic shift control and overspeed protection

VHP (Variable Horse Power)

#### OTHER STANDARD EQUIPMENT

Bumper, rear

CD ROM Parts Book

Circle drive slip clutch

Cutting edges,  $152 \text{ mm} \times 16 \text{ mm}$  $(6 \text{ in} \times 5/8 \text{ in}) \text{ curved DH-2 steel}$ 

Doors, Engine compartment

Drawbar, 4 shoe with replaceable nylon

composite wear strips

Endbits, 16 mm (5/8 in) DH-2 steel Frame, articulated with safety lock

Fuel tank, 305 L (80.6 gal)

Ground level engine shutdown

Link bar, 7 position

Moldboard, 3658 mm  $\times$  610 mm  $\times$  22 mm (12 ft  $\times$  24 in  $\times$  7/8 in) blade with hydraulic sideshift and mechanical tip

S·O·S ports, engine, hydraulic, transmission and cooling

Toolbox with padlock

Vandalism protection – including cap locks for hydraulic tank, radiator access cover, fuel tank, engine and transmission oil check/fill and lockable battery boxes.

#### TIRES, RIMS, AND WHEELS

A partial allowance for tires on 229 mm (9 in) single piece rims is included in the base machine price and weight. A tire MUST be selected from the Mandatory Attachments section.

#### **ANTIFREEZE**

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

### **120K Optional Equipment**

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

1	11
kg	1b
98	216
91	201
14	31
0	0
-182	-401
-118	-260
14	31
11	24
2	4
2	4
3	7
7	15
1	2
1	2
8	18
2	4
5	11
1	2
1 .	
	91 14 0 -182 -118 14 11 2 2 3 7 1 1 8

Speedometer
* Cab and Canopy weights represent
changes to Typically Equipped machine
weights.

	kg	1b		kg
POWER TRAIN		,	HYDRAULICS	,
Autoshift	2	4	Pump, hydraulic,	2
Non-Locking	41	90	high capacity	
Differential			Hydraulic arrangemen additional hydraulic va	
OTHER			for rear ripper, mid-mo	
ATTACHMENTS			snow plow and snow w	ring.
AccuGrade ARO	10	22	- 	
Product Link	5	10	BLADES, MOLDBOA	RDS
Dryer, air	13	29	Blade, 4267 mm ×	93
Push plate, counterweight	907	2,000	610 mm × 22 mm (14' × 24" × 7/8")	
Accumulator, blade lift	77	170	Blade, front	1180
Battery, extreme duty (1,400 CCA)	14	31	Cutting edge, 203 mm × 19 mm (8" × 3/4").	50
Ether, starting aid	1	2	For use with 14' blade	1.1
Heater, engine coolant, 220V	1	2	- Endbits, overlay, reversible pair for - 152 mm × 16 mm (6" × 5/8") cutting edges	11

### Notes

### **120K Motor Grader**

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com** 

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Caterpillar dealer for available options.

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