



MODEL	C50A
Configuration	Articulated
Operating Weight*	9,420 lbs (4 273 kg)
Horsepower (kW)	76 (55)
* Typically equipped: see specifications for details	Model shown may include optional equipment

C-Series C50A

C50A - Articulated Frame



OPERATING WEIGHTS

(C50A)	
Total	4 273 kg
Front wheels 2,900 lbs.	1 450 kg
Rear wheels	3 260 kg
Weights shown include ROPS canopy, all operating operator.	fluids and



ENGINE DATA

Make/Model	Cummins 4B3.9
Type	4 cycle, naturally aspirated, diesel
No. of cylinders	
Bore & stroke	4.02 in. x 4.72 in. (102 mm x 120 mm)
Displacement	
Horsepower	76 @ 2500 RPM (55 kW @ 2500 RPM)
	a dual element, dry-type air cleaner with ting and electrical system with 65 amp

Performance: rated gross horsepower to SAE J1349 standard conditions with water pump, lubricating oil pump and fuel system.



TRANSMISSION

Type
Mechanical neutral lockout with neutral start switch.
Operating pressure
Maximum pressure 5000 PSI (34 500 kPa)
Heavy-duty hydrostatic drive gives complete control to the operator over operating ground speeds. This permits very smooth increases or decreases in operating speeds, essential when fine grading. Easy forward or reverse selection without the need for clutching makes repetitive operation, such as pad work, simpler. SPEEDS @ 2500 RPM
Forward and Reverse



FINAL DRIVE/TANDEMS

Positive traction tandem drive is accomplished through heavy-duty, bi-directional hydrostatic drive motors. Differential action is incorporated in the system, providing smoother turns, reducing tire scuffing, and offering positive traction in low traction conditions. Tandems are fabricated steel box construction with oscillation. Each tandem wheel is driven by chain, sized for long life.

Wall thicknesses (inner & outer)	. 1/2" (13 mm)
Drive chain pitch	1.25' (32 mm)
Oscillation	± 30°



WHEELS & TIRES

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Tire size				****			. 12 x 16.5
Ply rating (p	r.)						6 pr.
Rim size						9.75	" (248 mm)
Bolt-on rim f	front and re	ear.					
All-weather	diamond tr	ead t	ires	availa	able.		



BRAKES

Hydrostatic drive provides dynamic braking. Spring applied parking brake.



FRONT AXLE / STEERING

Front axle type: fully welded steel truss, gusseted for torsional strength and rigidity. Replaceable wear plates on each side of truss. Single oscillation pin with replaceable pin supports.

Oscillation	. 35° up and down
Ground clearance	16" (406 mm)
Steering type: hydraulic power steering. Entire	axle assembly
steers just behind nose assembly.	
Turning radius (outside front wheel)	



FRAME / ARTICULATION

Rear 8" (203 mm) heavy gauge cha	nnel
Front	type
Size	nm)
Full front and rear frame perimeter frame sections. First	
lifetime frame warranty, Articulation joint constructed from	
(76 mm) diameter shaft, turning on 4 tapered roller beari	
Powered by 2 hydraulic cylinders mounted with replaceable joints and dust shields.	ball



CIRCLE ASSEMBLY / DRIVE

Size	31" (787 mm) outside diameter
Type	Full circle construction
Lifted by two hydraulic cylind	ders connected with ball joints at
replaceable bushings. Turnt	ed to frame with bearings and able centered with 3 adjustable able shims. Replaceable wearplate

Circle rotation.... Twin hydraulic cylinder circle drive system uses direct acting hydraulic power permitting moldboard repositioning under full load. Permits moldboard to be repositioned within grader's width



DRAWBAR

Main bar (solid)	. 3" (76 mm) square
Cross bar (solid)	
T-bar designed for maximum visibility and su	pport.
Connected with ball and socket, shim adjustal	ble



MOLDBOARD ASSEMBLY

Size	
	(13 mm thick x 432 mm high x 3 048 mm long)
Replaceab	le cutting edges:
	2 @ 5' x 6" x 1/2" (1 524 mm x 152 mm x 13 mm)
	und clearance
Blade tilt p	ositions
Changed r	manually, standard.
	ch outside front tires:
	ard extended 58' (1 473 mm) right or left
 articulat 	ed & extended 87' (2.210 mm) right or left



CONTROLS

Full hydraulic operation of circle turn, blade lift, front blade, moldboard slide and articulation. Direct acting control levers. Operating pressure 1 700 PSI (11 730 kPa) Operator can use more than one function at a time. Hydraulic tank contains a temperature gauge and sight glass for fluid level checks. Instrument panel: temperature gauge; oil pressure gauge; fuel level gauge; volt meter; tachometer; hour meter.



FRONT-MOUNTED BLADE / SCARIFIER (optional)

Size	1/2" thick x 141/2" high x 6' long
(13 mm thick)	368 mm high x 1 829 mm long)
Blade ground clearance	14" (356 mm)
Replaceable, standard grader cutti	ng edge.
Number of scarifiers	
Cutting depth	6" (152 mm) below blade
Mounted on front blade. Replacea	ble tips.



CAPACITIES / FILTERS

Fuel tank	20 gallon (76 L)
Hydraulic	30 gallon (114 L)
Coolant	4.5 gallon (17 L)
Tandems (ea.)	10 gallon (37 L)
Transmission filter	10 micron suction
Hydraulic filter Suction s	strainer, return 33 micron
Spin-on type filter for easy servicing.	

DIMENSIONS
O

(5 639 mm)
(1 778 mm)
(2 032 mm)
(2 432 mm)
(3 810 mm)
(1 880 mm)

STANDARD EQUIPMENT	
 Cummins 4B3.9 76 HP 	 Seat belt
(55 kW) engine	- Steps and grab handles
 Hydrostatic drive 	 Power steering
 12 volt electrical system 	 Engine side shields
 Back-up alarm 	- Spring applied parking br
- Gauges: engine temperature	 2 dual beam headlights
and PSI, Volt meter, fuel	 Front and rear directional
level, tachometer, hour meter	and hazard lights
 10' (3 048 mm)·hydraulic 	 Back up lights
sliding moldboard	 Inside mirror 6" convex
 Muffler 	round

UIPMENT

ROPS open canopy

OPTIONAL EQUIP
- ROPS cab enclosure
- Cab heater
 Windshield defroster
 Beacon light
 Working lights

- Cummins 4BT3.9 turbo diesel 100 HP (75 kW) Hydraulic blade tilt adjustment Foot pedal accelerator F-N-R foot control pedal
 Independent moldboard
- Windshield wipers
 Tilt steering wheel and
 - floats FOPS installation for cab or Air cleaner service indicator - Mirrors outside canopy

ATTACHMENTS

- 6' (1 829 mm) front-mounted blade
- 4 scarifiers mounted on front blade
- Side dozer

Specifications subject to change without notice. Some items included in this brochure are optional.

