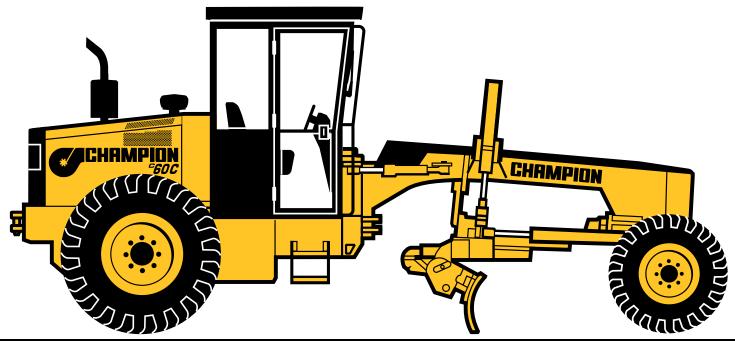




COC/C66C



COMPACT MOTOR GRADERS

KEY FEATURES:

- Infinitely variable ground speeds 0-20 mph (0-32 km/h)
- ROPS/FOPS canopy or fully enclosed cab ROPS/FOPS
- Tight turning radius 17'6" (5 334 mm) from center to outside front tire
- Full range of front and rear attachments
- Fully adjustable, low effort, operator friendly controls
- Single axle drive or All Wheel Drive
- Dual lever speed and directional controls
- Hydraulically Boosted Dual Braking System with reserve power assist
- Heavy duty positive traction differential
- 2 speed rear axle gearbox with neutral position
- 10' (3 048 mm) hydraulic sliding moldboard

MODEL	C60 C C66 C		
Configuration	Articulated Frame Tandem Drive	Articulated Frame All Wheel Drive	
Engine	Cummins QSB4.5 Tier 3		
Output (SAE J1349)	110 hp (82 kW)		
Operating Weight	12,800 lb (5 810 kg)	13,400 lb (6 080 kg)	
Turning Radius	17'6" (5 334 mm)		





OPERATING WEIGHTS

C60 C

Total	. 12,800 lb	(5 810 kg)
Front wheels	3,870 lb	(1 760 kg)
Rear wheels	8,930 lb	(4 050 kg)

C66 C

Total	13,400 lb	(6 080 kg)
Front wheels	4,200 lb	(1 910 kg)
Rear wheels	9,200 lb	(4 170 kg)

Weights shown include ROPS canopy with FOPS protection, all operating fluids and operator.



ENGINE DATA

C60 C / C66 C Standard

Make/ModelCur	mmins QSB4.5 Tier 3
Туре	Turbocharged,
cho	irge air cooled diesel
No. of cylinders	In-line 4
Bore & stroke	4.21" x 4.88"
	(107 mm x 124 mm)
Displacement	275 cu. in. (4.5 L)
Horsepower @	
2500 RPM	110 hp (82 kW)
Peak torque @	
1500 RPM	. 360 lb.ft (489 N.m)
Oil system capacity	2.75 gallon (11 L)

Engine equipped with a dual element, drytype air cleaner with evacuator. 12 volt starting and electrical system with 95 amp (1 140 watt) alternator with 2 - 12 volt batteries, 650 CCA (cold cranking amps) each

Performance: Rated gross horsepower to SAE J1995 standard conditions with water pump, lubricating oil pump and fuel system.



TRANSMISSION

Туре	Hydrosto	atic
Control	Hand le	ver

Transmission is "declutched" by brake pedal. Mechanical neutral lockout with neutral start switch.

Operating pressure	3,000 PSI
	(20 700 kPa)
Maximum pressure	5,000 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. Infinitely variable motor control provides faster job site cycle times.

SPEEDS @ 2500 RPM

Forward and Reverse

Working range	0-10 mph
	(0-16 km/h)
Roading range	0-20 mph
	(0-32 km/h)

Foot controlled forward and reverse pedal available as an option.



DIFFERENTIAL / FINAL DRIVE

Positive traction differential consists of 4 bevel gears and automatic lock-up. Heavy duty flanged sleeve construction is supported by tapered roller bearings, allowing fully floating, non-load carrying drive axles. A heavy duty two speed gearbox provides work and travel modes as well as a neutral position for towing.

Ground clearance............... 16" (406 mm)



WHEELS & TIRES

Front:

Tire size	15 x 19.5, TL, G-2
Ply rating (PR)	8
Rim size	12.25" (311 mm)
Rear:	
Tire size	16.9 x 24, TL
Ply rating (PR)	6
Rim size	

Diamond Tread available as an option.



BRAKES

Service Brakes.....Foot operated

Fade resistant, hydraulically actuated drum brakes effective on rear wheels. System features dual braking circuits for even braking on both sides of the grader. Includes reserve power assist and operator warning system (visual and audible). Hydrostatic drive provides dynamic braking.

All braking systems meet SAE Standard J1473 OCT 90, SAE Recommended Practice J1152 APR 80 and ISO 3450: 1985.



FRONT AXLE



STEERING

equipped with optional leaning wheel cylinder)

Braking and steering systems operate from a separate hydraulic pump.



FRAME

Rear	12" (305 mm)
	heavy gauge box channel
Front	welded box type
	0.5" × 8" × 8"
	(13 mm x 203 mm x 203 mm)

Full front and rear frame sections.



ARTICULATION

4" (102 mm) diameter pivot pins, turning on 4 tapered roller bearings. 2 hydraulic cylinders mounted with clevis style mounting supported on spherical bearings.

Articulation angle24°



CIRCLE ASSEMBLY



CIRCLE DRIVE



DRAWBAR

(25 mm x 102 mm)

"T" bar designed for maximum visibility and support. Connected to frame by shim adjustable ball stud.



MOLDBOARD

- moldboard extended using blade slide and circle sideshift
- right or left......44" (1 120 mm)



CAPACITIES

Fuel tank	39 gallon (148 L)
Hydraulic	30 gallon (114 L)
Coolant	5 gallon (19 L)
Final drive	4.5 gallon (17 L)



CAB & CONTROLS



All hydraulic controls are located on the fully adjustable steering pedestal. 8 low effort, direct acting hydraulic control levers are arranged in accordance with the industry standard for optimum operator convenience, visibility and comfort. Full hydraulic controls provide operation of circle turn, left and right blade lift and float control, articulation, moldboard slide, and optional leaning front wheels, moldboard tilt, circle side shift, and front/rear attachments.

Pedestal instrument cluster: Engine temperature gauge; engine oil pressure gauge; fuel level gauge; volt meter; tachometer; warning lights; hour meter. Right and left hand consoles house the transmission controller, throttle, all electrical switches, heat/AC controls and ignition switch.



HYDRAULICS

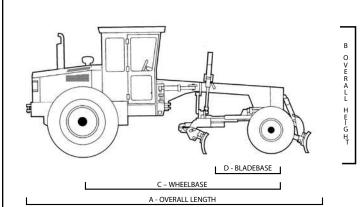
Standard "Single Flow" hydraulic system with feathering blade lift controls provides smooth response.

Hydraulic tank contains a temperature gauge and sight glass for fluid level checks.

"Twin Flow" hydraulic system available as an option.



FILTERS



DIMENSIONS

Α	Overall length	21′4"	(6	502	mm)
В	Overall height	9′6"	(2	896	mm)
С	Wheelbase	. 15′4"	(4	674	mm)
D	Bladebase	6′2"	(1	880	mm)
	Overall width				
	- front tires	7′2"	(2	184	mm)
	- rear tires	7′2"	(2	184	mm)



C66 C AWD operates in low range, forward and reverse speeds from 0-10 mph (0-16 km/h).

Automatically disengages when the operator presses the brake pedal or shifts the transmission to neutral. All wheel drive provides optimum traction in all working conditions. System maintains equalized traction to both front wheels in turns and in all traction situations. Grader retains full front axle mobilities of oscillation and wheel lean.

AUTOMATIC BLADE CONTROL SYSTEMS

All Champion Motor Graders compatible with the latest in Automatic Blade Control (ABC) Technology.

Brackets Package

Moving an existing ABC system to a new Champion Grader, a Bracket Package can be designed and installed during the fabrication process eliminating need for aftermarket brackets and unnecessary welding at the dealer or onsite, making installation of existing system cleaner and faster.

Hydraulics Package

Installing a new ABC system? Factory installation of a MOBA Valve Package at time of fabrication, will eliminate need open machine's hydraulic system, greatly reducing the opportunity of accidental contamination. Combine this with the Brackets Package to just "plug and play" your existing or new Automatic Blade Control System.

Factory Installed Systems

Champion can factory install most any brand of ABC system at the time of the new grader order. Champion works closely with ABC manufacturers to ensure a quality installation.

ATTACHMENTS

Counter Weight Front Mounted 7' (2 134 mm) Blade/Scarifier Front Mounted 8' (2 438 mm) Blade/Scarifier Front Mounted "V" Scarifier Rear Mounted Rippifier Rotary Broom Side Dozer Windrow Eliminator Compaction Roller Plate Tamper

STANDARD EQUIPMENT

Cummins QSB4.5 Tier 3 110 hp (82 kW) Hydrostatic drive "Single Flow" hydraulic system Heavy duty positive traction differential 2 speed rear axle gearbox with neutral position ROPS/FOPS canopy c/w fully adjustable control pedestal, low effort, industry standard controls, feathering type blade lift controls with float - 10' (3 048 mm) hydraulic sliding moldboard Hydraulically Boosted Dual Braking System with reserve power assist Power steering Hydraulic leaning front wheels (C66 C)

Ratchet type park brake with operator warning alarm and indicator

Gauges: engine temperature and oil pressure, volt meter, fuel level, tachometer, hour meter

Muffler

12 volt electrical system

Backup alarm

Seatbelt

Steps and grab handles

Lockable engine side panels

Backup lights

Front and rear directional, brake and tail

lights and hazard lights

2 dual beam headlights

Inside convex rear view mirror External lockable battery box

FRONT MOUNTED BLADE (optional)

With scarifier teeth Size7' x 17" x 5/8" (2 134 mm x 422 mm x 16 mm) 8' x 17" x 5/8" (2 438 mm x 422 mm x 16 mm) Blade ground clearance 16" (406 mm) Replaceable, standard grader cutting edge Number of teeth4 Mounted on front blade. Replaceable tips Cutting depth6" (152 mm) below blade Optional front blade float

OPTIONAL EQUIPMENT

Enclosed ROPS cab with FOPS protection Hydraulic blade tilt Forward-Neutral-Reverse foot control pedal Foot pedal accelerator 7' (2 134 mm) Front Mounted Blade with scarifiers 8' (2 438 mm) Front Mounted Blade with scarifiers Rear Tires: Diamond Tread 16.9 x 24 Traction Lug 16.9 x 24 or 18.4 x 28 "Twin Flow" hydraulic system Cab heater Windshield defroster Beacon light Working lights Windshield wipers Windshield washers Air cleaner service indicator Outside rear view mirrors Rear or side glass in canopy Hydraulic leaning wheels Suspension seat AM/FM CD stereo w/2 speakers Air Conditioning

- Your safety and the safety of those around you depends on using care and judgement when operating and servicing your grader. Do not operate the grader until you read and understand the warnings and instructions in the operator's manual.
- Under our policy of continuous product development and improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



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