LiuGong

4215D

MOTOR GRADER

OPERATING WEIGHT	BLADE WIDTH
45,415 LB (20,600 KG)	14' (4,270 mm)



XTRACARE
WARRANTY

4215D

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SPECIFICATIONS

Operating weight	45,415 lb (20,600 kg)
Operating weight includes the machine weight with standard work device, no additional equipment or accessories, all fluids at required level and an operator 75 kg (165 lb).	
Blade width	14' (42,700 mm)

ENGINE

Description	
Cummins Tier 4f / Stage V approved, 6.7 liter, 6-cylinder straight	
Turbocharged diesel engine equipped with an electronically controlled common rail fuel system.	
Cummins turbocharged system, high transient response.	
Cummins fuel filtration system, high filtration efficiency.	
Air cleaning: Whirlwind pre filter, two stage air filter.	
Cooling system: Air-to-air intercooler, single radiator layout.	
Emission rating	EPA Tier 4f EU Stage V
Engine manufacturer	Cummins
Engine model	B6.7
Rated power	225 hp (168 kW)@ 2,200 rpm
Peak torque	875 lb·ft (1,186 N·m) @ 1,300 rpm
Torque rise	63%
Displacement	6.7 L
Number of cylinder	6
Bore x stroke	4"×5" (107 × 124 mm)
Aspiration	Turbocharged, air-to-air inter-cooled

AXLES

Differential	Manual hydraulic control differential
Rear axle Tandem Oscillation	± 15°
Front axle Type	All welded front frame
Front axle, wheel lean angle	Left / right 12°
Front wheel swing angle	Left / right 16°

TRANSMISSION

Description	
Torque converter: three-member single turbine.	
Transmission: powershift, electronic shift change control.	
Gear shifting system: Number of speeds, forward-6, reverse-3. Compact, high efficiency, low noise, easy to operation.	
Drive	All Wheel Drive
Forward	
1st	3.6 mph (5.8 km/h)
2nd	5.5 mph (8.9 km/h)
3rd	8.8 mph (14.2 km/h)
4th	13.4 mph(21.5 km/h)
5th	19.9 mph (32 km/h)
6th	27.3 mph (44 km/h)
Reverse	
1st	3.8 mph (6.1 km)
2nd	9.3 mph(14.9 km/h)
3rd	20.8 mph (33.5 km/h)

HYDRAULIC SYSTEM

Description	
System supply: variable displacement pump	
Multi-spool valves distribute the oil independently for controlling the position of a grader blade: lift, hold, lower, shift, roll-over and rotation.	
Tilt function: with a tilt cylinder, the front wheel lean angle can be up to a maximum of 12°.	
Pump type	Piston
System pressure	3,045 psi (21 MPa)
Pilot pump flow	58.1 gal/min (220 L/min)

TIRES

Standard tire size	17.5R25**/L-3(REM2)
Inflation pressure	0.5 ~ 0.55 MPa (72.5 ~ 79.77 psi)

STEERING

Description	
Steering system: load-sensing hydraulic steering.	
System supply: the steering system has priority feed from a pump	
Steering cylinders: two double-acting cylinders.	
Steering configuration	Front wheel steering
Steering relief pressure	2,422 psi (16,7 MPa)
Minimum turning radius	24'7" (7,500 mm)
Steering angle	±41°

SERVICE REFILL CAPACITY

Fuel tank	84.5 gal (320 L)
Engine oil	4.8 gal (18 L)
Cooling system	10.6 gal (40 L)
Hydraulic reservoir	33.0 gal (125 L)
Transmission & Torque Converter	8.7 gal (33 L)
Axle oil	23.8 gal (90 L)

BRAKES

Description	
Dual-line braking system, accurate control with the brake valve & gear pump.	
Service brake type	Fully hydraulic, disc type
Parking brake type	Electrical handbrake

CAB

Description	
Instrumentation: all important information is centrally located in the central instrument panel and operator's field of vision.	
Adjustable steering column, high back seat and A/C with all-around air outlets.	

SOUND & ENVIRONMENT

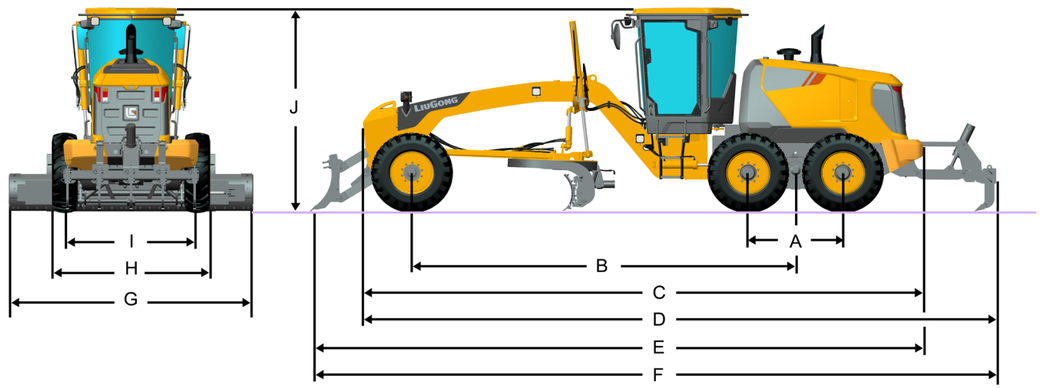
Sound level in cab according to ISO 6394-2008	80 dB
External sound level according to ISO 6396-2008	106 dB
Heating capacity	7 hp (5 kW)
Air conditioning	6 hp (4.6 kW)

DIMENSIONS

A Length - between Tandem Axles	4'12" (1,517 mm)
B Length - front axle to Mid Tandem	20'8" (6,300 mm)
C Length - counterweight to Rear of Machine	30' (9,150 mm)
D Length - counterweight to Ripper	34'5" (10,500 mm)
E Length - dozer to rear of Machine	32'4" (9,851 mm)
F Length - dozer to ripper	37'3" (11,350 mm)
G Width - blade	14' (4,270 mm)
H Width - outside tires	8'10" (2,695 mm)
I Width - tire center lines	7'5" (2,250 mm)
J Height - top of cab	11'5" (3,490 mm)

BLADE RANGE

Moldboard standard Height	2' (610 mm)
Moldboard standard length	14' (4.270 mm)
Moldboard lift above ground	1'12" (600 mm)
Cutting depth	2'3" (680 mm)
Maximum sloping angle	90°
Circle rotation	360°
Bank cut angle	28° - 74°
Cutting pressure	19,952 lb (9,050 kg)



LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.
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ATTACHMENTS

LiuGong attachments with pin-on the machine. Integrated design of the whole system makes a perfect match to achieve the superior productivity.
For more information on other available attachments, please contact your LiuGong dealer for details.

4215D	Type	Standard	Option
Front blade	**Width**	8'12" (2,740 mm)	8'12" (2,500 mm)
	Depth Below Ground	8" (215 mm)	8" (215 mm)
	Lift Above Ground	2'9"(850 mm)	2'9" (850 mm)
	Weight	2317 lb (1,051 kg)	2231 lb (1,012 kg)
Ripper	**Width**	7'3" (2,200 mm)	
	Ripping Depth - Maximum	1'5" (435 mm)	
	Lifting Height	2'4" (716 mm)	
	Ripper Shank Holders, Quantity	5	
	Space Width	1'8" (518 mm)	
	Weight	3,130 lb (1,420kg)	
Scarifier	**Working Width**	4'2" (1,270 mm)	
	Scarifying Depth - Maximum	6" (165 mm)	
	Lifting Height	9" (221 mm)	
	Scarifier Shank Holders, Quantity	11	
	Space Width	5" (115 mm)	

STANDARD EQUIPMENT

ENGINE	
Air filter dust valve	■
Cummins B6.7 Engine, EPA Tier 4f / EU Stage V Engine, rated power 168 kW (225 hp / 228 ps), air- to-air intercooled, 6 cylinders, 4 stroke	■
Turbocharged diesel engine equipped with an electronically controlled common rail fuel system	■
Pre-filter with water separator	■
Fuel filter	■
Electrical stopping engine	■
Engine Air Preheating	■
Foot throttle	■
Fuel-tank fill strainer	■
Fuel-tank set washport	■
Engine oil filter	■
Dipstick	■
Fuel-tank with respiratory function	■
Fuel-tank drain port	■
Fuel moisture alarm	■
Intake resistance indicator	■
Air filter dust valve	■
Emergency shutdown switch	■
Exhaust aftertreatment system	■
Engine starter motor isolation switch	■
Hand throttle	■

HYDRAULIC SYSTEM	
Variable hydraulic control system	■
Hydraulic lifting cylinder with buffer float	■
Articulated steering with hydraulic lock	■
Hydraulic oil tank with filter	■
Hydraulic oil tank with visual level gauge	■
Hydraulic oil tank breathing port	■
Hydraulic oil tank with oil return filter	■
Swing arm dual hydraulic pin lock	■
Independent static hydraulic closed front wheel drive system	■
Variable electronic control multi way valve	■

STEERING SYSTEM	
Load sensing system with steering in priority	■
Emergency steering system	■

WORK DEVICE	
A-shape drawbar structure	■
Large sectional boxed frame	■
Circle bearing	■
Friction plate turbine box	■

ELECTRIC SYSTEM	
Headlights on top of cab, 4 front, 4 rear	■
Two front combination lights	■
Two rear combination lights	■
Four lights on front frame	■
Batteries, free of maintenance	■
Cigarette lighter, 24 V power outlet	■
Electric horn	■
Front windshield wiper	■
White noise reverse alarm	■
Radio/player with USB port	■
LED	■
License plate with light	■
License plate light	■
Dual joystick control system	■
Wall mounted membrane switch panel	■
Graphic display	■

CAB	
Adjustable steering column	■
Air conditioner	■
Cabin heating system	■
Cup holder	■
Front sunshade	■
Equipped with heated air blowing function, 3-point seat belt, and air suspension seat	■
Internal rearview mirror	■
Fire extinguisher	■
External electrically adjustable rearview mirror	■
Front and rear wipers	■
Side wiper	■
Rear glass defroster&mirror defrost	■
Rotating warning light	■
Rearview Camera	■
Adjustable follow-up seat armrest box	■
Fresh air filtration system	■
Silicone oil shock absorber cab	■
ROPS&FOPS cab	■

INDICATOR GROUP	
Intake air filter alert	■
Battery charging	■
Parking brake applied	■
Power cut-off	■
Turning lights	■
Transmission oil pressure alarm	■
Beam of front light	■
Intake heating indication	■
Headlight high beam indicator	■
Low engine oil pressure	■
Engine coolant temperature	■
Transmission oil temperature	■
Fuel level	■
Hour meter	■
Voltage	■
Service brake low pressure alarm protection	■
Parking brake low pressure alarm protection	■
Blade buffer float indicator	■
Hydraulic lock indicator light	■
Frame alignment indicator light	■
Post treatment regeneration indicator light	■
Fan reverse indicator light	■
Emergency turn signal indicator light	■
Urea level	■
Transmission gear display	■
Handle turn signal indicator light	■
Engine malfunction alarm	■
Fault code display	■
All wheel drive mode display	■
Automatic lubrication indicator light	■
Fuel water content alarm	■
Travelling speed	■

TYRE & RIM	
17.5R25 ** /L-3(REM2)	■

FRONT AXLE	
Front axle - LiuGong	■
Oscillating front axle	■
Front axle tilt	■
Front axle steering	■
Front axle locking device	■

FRONT AXLE	
Rear axle - Liugong axle and manual hydraulic control differential	■
Disc service brake system	■
Tandem oscillation	■
Tandem chain drive	■

TRANSMISSION	
ZF 6BP210 automatic power shift transmission	■
F6/R3	■
Transmission oil level sight gauge	■
Transmission oil filler	■

ATTACHMENTS	
Blade 14'*2'*1" (4270*610*19 mm)	■
Front fender	■
Double row tooth ripper	■
Parking wedge	■
Rear fender	■

COOLING SYSTEM	
Aluminum radiator	■
Coolant level sight gauge	■
Hydraulic driven temperature controlled fan	■
Fan reversal	■

OPTIONAL EQUIPMENT

ENGINE	
Oil bath air filter	□

TIRE & RIM	
Snow chain	□

ELECTRIC SYSTEM	
Strip light	□

OTHERS	
Blade 12'12"*2'*1" (3,960*610*19 mm)	□
Front blade	□
Ripper	□
Scariffer	□

Note: ■ for standard equipment
□ for optional equipment

LIUGONG

TOUGH WORLD. TOUGH EQUIPMENT.

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