

GRADALL®

XL 5210

INDUSTRIAL MAINTENANCE MACHINE

SPECIFICATIONS



XL 5210

Upperstructure Engine

Cummins 6BTA5.9 diesel, turbocharged and aftercooled, liquid cooled, 4 cycle, 6 cylinder, 359 cid (5.9L), 4.02" bore x 4.72" stroke (102mm x 120mm), 16.5:1 compression ratio. 174 hp (130kW) gross at 2200 rpm, 162 hp (121kW) net at 2200 rpm. 455 ft-lb (617Nm) gross torque at 1500 rpm.

Altitude capability 9850' (3000m). Derate 4% per 1000' (300m) above 9850' (3000m). Maximum slope: 45°

12 volt starter, 105 amp alternator, two SAE #C31-S 810 CCA batteries, two-stage dry type air cleaner with centrifugal precleaner, ejector valve, safety element and service indicator, spin-on oil filter, spin-on fuel filter/water separator.

Fuel tank capacity: 80 gallons (303L)

Hydraulic System

PUMPS

Main Two load-sensing axial piston pumps; 0-60 GPM (0-227 L/min) each.

Swing Axial piston pump; 0-16 GPM (0-61 L/min).

Auxiliary Tandem gear pump for pilot control and cooling circuits; 20.6 GPM (78 L/min).

SYSTEM MONITOR

Electronic monitor in cab indicates low hydraulic fluid level, high hydraulic fluid temperature, and condition of return and suction filters.

SYSTEM SPECIFICATIONS

Four double acting cylinders

- 2 boom hoist: 4.75" ID, 3.25" rod (121mm x 83mm), 36.25" (921mm) stroke.
- 1 tool: 6" ID, 3.25" rod (152mm x 83mm), 18.81" (478mm) stroke.
- 1 telescope: 4" ID, 2.75" rod (102mm x 70mm), 14' (4.27m) stroke.

Four hydraulic motors

Swing, 28 hp (21kW); tilt, 28 hp (21kW); two crawler drives, 97 hp (72kW) each.

Operating pressures

Hoist 4300 psi (29,627kPa)
Tilt 3000 psi (20,670kPa)
Swing 3050 psi (21,015kPa)
Tool 2400 psi (16,551kPa)
Telescope 3450 psi (23,770kPa)
Crawler 4200 psi (28,965kPa)
Pilot system 480 psi (3,307kPa)

Oil capacity

Reservoir 75 gallons (284 L), system 100 gallons (379 L). Pressurized reservoir with visual oil level gauges.

Filtration system

Combination of 8 micron and 10 micron in-line suction and return filters, plus 10 micron return filter, magnet and 100 mesh strainer in reservoir.

Fin and tube

Type oil cooler, with thermal by-pass and relief valves. Additional hydraulic oil cooling is provided by an auxiliary oil cooler with hydraulic driven fan.

Pressure compensated load sensing valves with circuit reliefs in all valves.

Cab

All-weather cab with heat resistant glass windows, acoustical lining, four-way adjustable operator's seat, filtered fresh air heater and defroster. Front window and roof protector standard.

Controls

Two hydraulic joysticks (hoist & bucket, telescope & swing), one rocker switch (tilt) control upperstructure. Hydraulic joysticks mounted on arm rests, independently adjustable for individual operator comfort and convenience.

Two foot pedals/handles control crawler steering, travel and brakes; toggle switch for selection of crawler speed range.

Joysticks and pedals are self-centering; when controls are released, power for movement disengages and swing and crawler brakes set automatically.

Engine controls

Key operated ignition/starter switch, throttle, hour meter and air cleaner condition indicator. Electronic monitor indicates fuel level, low battery charge, coolant level and lube oil pressure, high coolant temperature, and engine rpm.

Swing

Independent closed loop swing circuit with axial piston pump and motor. Planetary transmission.

Swing speed: 0-3.1 rpm.

Swing brake

Automatic swing parking brake, spring-set hydraulic release. Dynamic braking provided by hydraulic system.

Undercarriage

Tractor type crawler with triple grouser heavy-duty pads.

Sealed track links, lubricated and sealed idlers and rollers, hydraulic track tension adjustment, bolt on track guides, motor and hose guards, front and rear tow eyes.

Track length: 13'3" (4m).

Track pads: 24" (600mm) or 31.5" (800mm)

Overall width: 9'6" (2.9m) with 24" (600mm) pads 10'2" (3.1m) with 31.5" (800mm) pads

Ground clearance: 19" (5m)

Dual range high torque piston motor, 97 hp (72kW), powers each track. Three stage planetary drive with integral speed limiting valve and automatic spring-set hydraulic release wet disc parking brake.

Travel speed on flat, level surface-mph (km/hr):

Speed Selector	
High	0-2.2 (0-3.5)
Low	0-1.4 (0-2.2)

Travel speed range can be shifted while moving.

Gradeability: 100%, limited by engine lubrication requirements.

Drawbar pull: 39,912 lbs. (178kN)

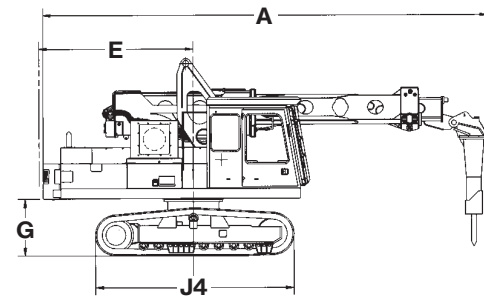
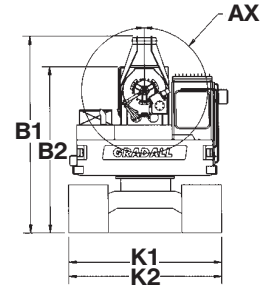
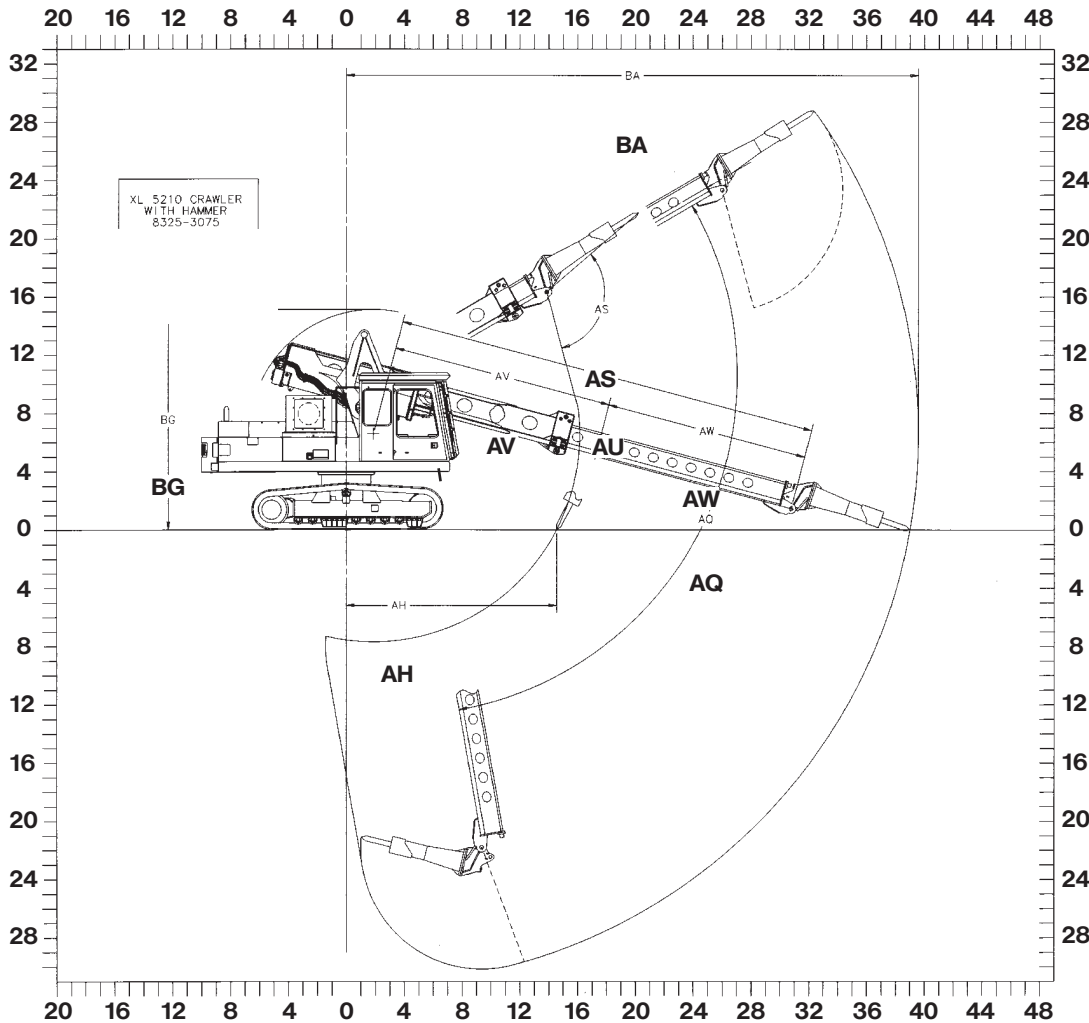
Individual track control. Tracks counter-rotate to pivot machine around on centerline.

Electronically operated travel alarm mounted in counterweight area signals crawler movement in either direction. Meets SAE J-994b Type B classification.

Weight

Approximate working weight with scaling hook, fuel tank half full:

	24" Pads (600mm)	31.5" Pads (800mm)
Weight	55,000 lb. (22,950 kg)	56,100 lb. (25,446 kg)
Bearing Pressure	8.5 psi (.60 kg/cm ²)	6.5 psi (.45 kg/cm ²)



Shown with 8325-3075 Hammer (Meters shown in parentheses)

- A** Minimum transport length (boom level) with hammer: 29'6" (9.3)
- B₁** Overall height (boom level) with optional lifting yoke: 13'2" (4.0)
- B₂** Overall height (boom level) without lifting yoke: 11'1" (3.4)
- E** Swing clearance, rear of upperstructure: 10'3" (3.1)
- G** Clearance, upperstructure to groundline: 3'10" (1.2)
- J₄** Nominal overall length of track assembly: 13'3" (4.0)
- K₁** Width of crawler with 31.5" (800mm) pads: 10'2" (3.1)
- K₂** Width of crawler with 24" (600mm) pads: 9'6" (2.9)
- AH** Minimum radius at groundline: 14'7" (4.4)
- AQ** Boom pivot angle: 30° up & 80° down
- AS** Hammer pivot angle: 115°
- AU** Maximum telescoping boom length (boom pivot to attachment pivot): 29'3" (8.9)
- AV** Minimum telescoping boom length (boom pivot to attachment pivot): 15'4" (4.7)
- AW** Telescoping boom travel: 13'11" (4.2)
- AX** Boom tilt angle (continuous): 360°
- BA** Maximum radius of working equipment: 39'7" (12.1)
- BG** Maximum height of working equipment with hammer below groundline: 15'1" (4.6)

It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

GRADALL®

406 Mill Ave. SW, New Philadelphia, Ohio 44663
 Phone: 330-339-2211 Fax: 330-339-8468
 www.gradall.com



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