

GRADALL®

XL 5110

INDUSTRIAL MAINTENANCE MACHINE

SPECIFICATIONS



XL 5110

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. 165 hp (123kW) gross at 2000 rpm, 155 hp (116kW) net at 2000rpm. 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 #C31S 700 CCA batteries, two-stage dry-type air cleaner with centrifugal precleaner, ejector valve and service indicator, spin-on oil filter, spin-on fuel filter/water separator.

Fuel tank capacity: 100 gallons (379L)

Hydraulic System

PUMPS

Power Steering-Axial Piston 0-25 GPM

Main Two Load sensing axial piston pumps; 0-55 GPM (0-208 L/min) each.

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

Auxiliary Tandem gear pump for hydraulic brakes, 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: 6" ID, 3.25" rod (152mm x 83mm) 55.5" (1410mm) stroke.
- 1 tool: 6" ID, 3.25" rod (127mm x 83mm), 18.75" (476mm) stroke.
- 1 telescope: 5" ID, 3.25" rod (127mm x 83mm), 13'6" (3.94m) stroke.

Hydraulic motors

Swing, 28 hp (21kW); tilt, 28 hp (21kW); two remote drive, 140 hp (104kW).

Operating pressures

Hoist	2400 psi (16,536 kPa)
Tilt	3000 psi (20,670 kPa)
Swing	3000 psi (20,670 kPa)
Tool	2000 psi (13,780 kPa)
Telescope	1750 psi (12,058 kPa)
Remote Propel	4700 psi (32,383 kPa)
Pilot system	480 psi (3,307 kPa)

Oil capacity

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

Filtration system

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

Fin- and tube-type oil cooler, with thermal bypass and relief valves.

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

Cab

Cab with safety glass windows, windshield wiper, acoustical lining, four-way adjustable operator's seat, work lights, fire extinguisher, filtered fresh air heater and defroster.

Heavy-duty windshield guard included.

Controls

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

Two foot pedals for hydraulic remote control of undercarriage, travel and brakes. Electric switch selects low range or high range.

Joysticks and pedals are self-centering; when controls are released power for movement disengages and swing and travel brakes set automatically (in low range only). Tilt steering wheel controls rear axle steering.

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

4 x 2; rear-wheel steer, front wheel-drive.

Steer axle: Oscillating axle assembly with Rockwell wheel ends.

Air spring suspension.

Twin steering cylinders.

Drive axle: Variable displacement piston motor and planetary reduction power each drive wheel, air spring suspension.

Oscillating axle assembly with Rockwell wheel ends.

Brakes: Four-wheel service and working air brakes.

Frame: Welded box frame with W18 at 65 lb per ft. A-36 steel beams with T-1 steel top and bottom reinforcement plates. Access ladder and service platform both sides.

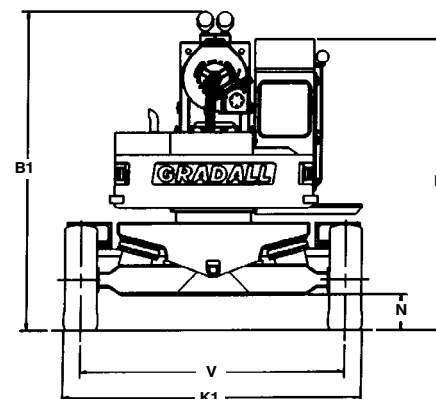
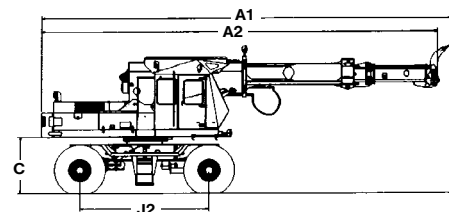
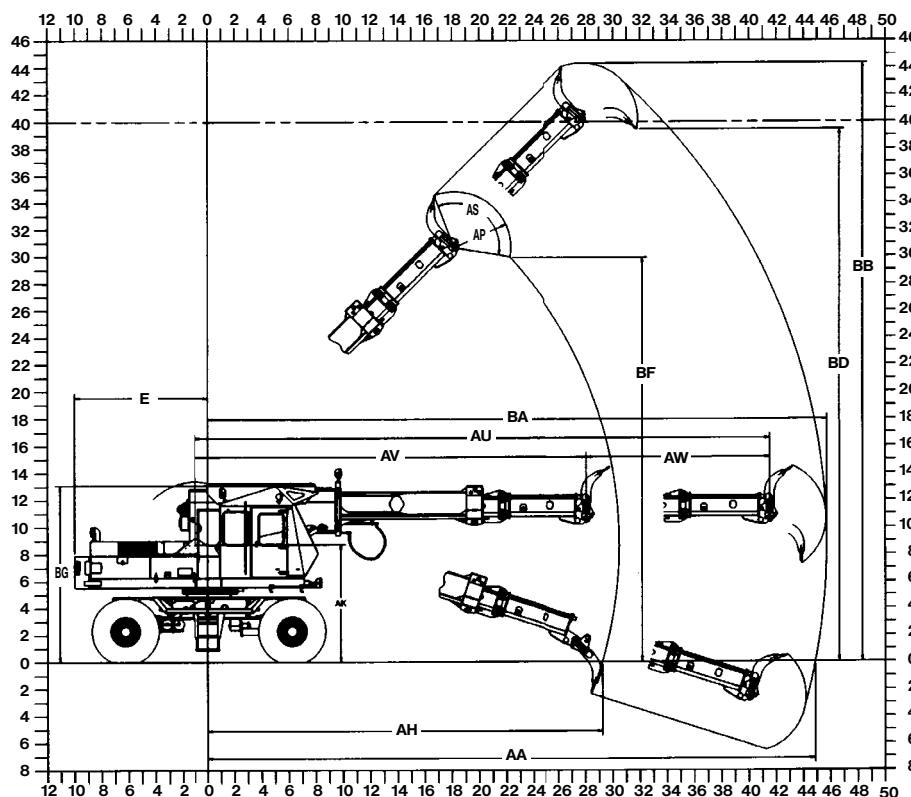
Tires: 16.00 x 25 (24 PLY) ND LCM E-3.

Travel speed: 8 mph.

Gradeability: 35%

Weight

Approximate working weight - 62,000 lb (28,123kg).



(Meters shown in parentheses)

- A1** Overall length (boom level) with scaling hook: 39' 9" (12.1)
- A2** Overall length (boom level) without scaling hook: 38' 5" (11.7)
- B1** Overall height (boom level): 14' 4" (4.4)
- E** Swing clearance, rear of upperstructure: 10' 0" (3.0)
- F** Top of cab to groundline: 13' 1" (4.0)
- G** Clearance, upperstructure to groundline: 5' 6" (1.7)
- J2** Nominal distance between centerlines of drive and steer axles: 12' 6" (3.8)
- K1** Width of chassis: 13' 7" (4.1)
- N** Ground clearance: 1' 7" (0.5)
- V** Wheel centerline to wheel centerline: 12' 0" (3.7)
- AA** Maximum radius at groundline: 44' 11" (13.7)
- AB** Maximum depth: 6' 6" (2.0)
- AH** Minimum radius at groundline: 29' 3" (8.9)
- AK** Boom pivot to groundline: 8' 9" (2.7)
- AP** Scaling hook tooth radius: 4' 2" (1.3)
- AS** Attachment pivot angle: 120°
- AU** Maximum telescoping boom length (boom pivot to attachment pivot): 42' 6" (13.0)
- AV** Minimum telescoping boom length (boom pivot to attachment pivot): 29' 0" (8.8)
- AW** Telescoping boom travel: 13' 6" (4.1)

- AX** Standard boom tilt angle: 270°
- BA** Maximum radius of working equipment: 45' 8" (13.9)
- BB** Maximum height of working equipment: 44' 4" (13.5)
- BD** Minimum clearance of scaling tooth, with attachment pivot at maximum height: 39' 5" (12.0)
- BE** Minimum clearance of scaling tooth at maximum boom height: 29' 11" (9.1)
- BG** Maximum height of working equipment with boom below groundline: 13' 1" (4.0)

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®

JLG®

406 Mill Ave. SW, New Philadelphia, Ohio 44663
 Phone (330) 339-2211 FAX (330) 339-8468
www.gradall.com
 Certified ISO 9001