



ADVANCING THE LEGEND

Gradall Series V excavators represent a unique combination of power, speed, productivity and versatility – unmatched by any machine anywhere in the world.

First invented to meet the global need for one machine that could do the work of many machines and many workers, Gradall continues that focus. Now more than ever, Series V models accommodate environmental and operating efficiency concerns

while continuing to provide governments and contractors with high-value machines that can handle many different jobs in many different locations.

New with GRADALL Series V excavators

- ► Tier-4 Final compliant Volvo Penta diesel engine
- ► Engine meets highest global standards including State IV (EU) and Tier-4 Final emissions requirements
- ► Fuel efficiency increased by 5%
- ► High-performance, high-reliability 24-volt electrical system
- ► Integrated operator cab with optional rollover protection

Asphalt and concrete repair

Mass excavation

Demolition

Barrier placement

Ditching

Sloping

Finished grading

Spreading rip-rap

Curb, gutter and sidewalk replacement

Tree and vegetation trimming

Storm and canal clean-out

Right-of-way clearance

Material movement

Culvert replacement

Mowing

Guardrail clean-out

Debris cleanup

Brush cutting

Bridge replacement

Landscaping

Dredging

TYPICAL EXCAVATOR MARKETS

■ State and federal DOTs

- Road and bridge contractors
- Local and municipal governments
- Specialty contractors



THE GRADALL BOOM

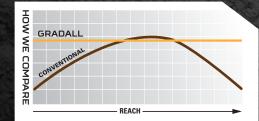


CARVING OUT A SIGNATURE ADVANTAGE OR OPPTIONAL TELESCOPING A

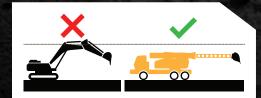
Gradall's full-tilting, telescoping, triangular boom is a legend in the industry, precisely positioning attachments to duplicate the work of a backhoe, grader, excavator, crane and many other machines.

The entire boom tilts 220°, to precisely create grades and position material, or demolish bridges and foundations. Because the entire boom tilts, there's no loss of power typical with boom-end tilt devices.

CROWD FORCE



LOW PROFILE



The unique boom design also delivers full crowd force power throughout the entire dig cycle – a huge advantage over knuckle booms that suffer from a severe reduction in force at stick angles over 90°.

The Gradall boom delivers full power at every angle, while conventional knuckle booms have full power only in the middle of a dig cycle.

With a low profile, Gradall excavators can work in tunnels, under bridges, beneath tree branches and on the ground floors of multi-story buildings where knuckle booms just won't fit.

Full boom tilts 220° without loss of bucket force power

Highly efficient bucket angles for sloping, grading, spreading material

Two overlapping triangular sections telescope rather than articulate into position

Dig down at a 75° angle

Raise up for truck loading

Low profile allows for work in tunnels and under bridges

During the entire dig cycle, the full boom is in full view from the operator cab



HIGHWAY SPEED MOBILITY

PUTS GRADALLS TO WORK ON MORE JOBS IN MORE LOCATIONS

Highway speed Gradall excavator models travel quickly to one or more job sites and then back to the safety of the equipment yard at the end of the day. Without the need for a lowboy trailer to transport the unit, there's a measurable savings in time, labor and expense.

And once it's on the job site, the excavator moves easy on both

pavement and dirt. Without leaving the upperstructure cab, operators can use foot pedals to reposition the carrier around the jobsite or along the length of a ditch.



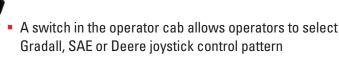
- Both the upperstructure and carrier are powered by a single, fuel-efficient Tier-4 Final Volvo engine
- Carriers available with 4 x 2 or 6 x 4 wheel drive, with optional 4 x 4 or 6 x 6 capabilities
- Front axle lockout cylinders and strong box plate frame construction provide a stable working platform without the need for outriggers
- Six-speed automatic transmission makes driving to job sites easier

- Gradall, SAE or Deere joystick control pattern
- in adjoining lanes
- A state-of-the-art load-sensing hydraulic system eliminating the need for mode selection and saves fuel
- length of the boom through the full dig cycle

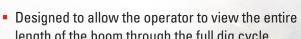
CHASSIS CAB FEATURES CONVENIENCES AND COMFORT

Highway speed Series V Gradall models have a one-person chassis cab with a host of features designed to provide the operator with comfort and safety as he drives to job sites and back.

- Automatic transmission is standard
- Isolated from frame with rubber mounts
- Easily visible gauges for oil pressure, coolant temperature, air tank pressures, fuel level, DEF level, voltmeter and speed.
- Engine and transmission functions have easy-to-see monitors
- Engine shutdown controlled by engine electronics.
- Indicator lights and controls for front axle engagement (4 x 4 or 6 x 6 models) and rear axle differential lock.
- Comfort features include air suspension seat, sliding windows, fresh air heater and defroster and tinted glass.







 Travel over highways at speeds up to 55 mph, reposition from the upper cab on the jobsite up to 5 mph

HIGHWAY SPEED MODELS > Weight 41,720 lbs

Reach 27' 3" Dig depth 18' 4" Mp 215 @ 2300 rpm









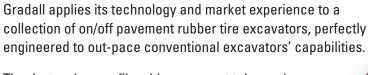






ON/OFF PAVEMENT MODELS

EFFICIENTLY COMPLETE JUST ABOUT ANY JOB, WORKING IN ANY DIRECTION



Thanks to a low profile with a compact telescoping boom, Gradall on/off pavement excavators are perfectly balanced for big jobs without the need for outriggers.

As a result. Gradall models have a 360° working range. You can pick and carry large loads around job sites. Or, you can handle big jobs working at the front, rear or either side of the carrier.

ADVANTAGES AT-A-GLANCE

Drive over pavement at speeds up to 20 mph

 A low center of gravity enables the telescoping, full-tilting boom to work in any direction

Oscillation lock cylinders create a stable work platform, even when moving heavy materials

Outriggers and grading blade are popular options, but they are not typically needed for carrier stability.

Strong frame system uses box plate construction

Short tail swing keeps traffic moving in an adjoining lane

A low center of gravity stabilizes work and mobility functions

One fuel-efficient Tier-4 Final engine provides plenty of power for both the carrier and boom functions

Rubber tires provide mobility on highways or parking lots without damaging the paved surface

> Weight 39,294 lbs

Weight 39,294 lbs
 Reach 27' 3"
 Dig depth 18' 5"
 Hp 172 @ 2000 rp

Weight 43,580 lbs
 Reach 30' 4"
 Dig depth 21' 3"
 Hp 173 hp @ 2200 rp

Weight 51,216 lbs
 Reach 33' 10"
 Dig depth 24' 7"
 HP 173 @ 2200 rp

DETAILS MAKE THE DIFFERENCE

ON/OFF PAVEMENT STABILITY AND MOBILITY ADVANTAGES...

Saves on fuel and eliminates the need for mode selection

GRADALL

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HYDRAULIC SYSTEM

STATE-OF-THE-ART LOAD-SENSING

STORABLE FRONT WINDOW AND HOLD-OPEN DOOR

Easier communication with ground crew



Low emissions, 5% increase in fuel efficiency

COMPACT COUNTERWEIGHT

Does not impede traffic around work area

ELECTRONIC JOYSTICK CONTROLS

In-cab switch for Gradall, Deere or SAE patterns

STANDARD 220° TILTING BOOM

No loss of bucket force power, even with optional 360° Tilting Boom

Operator has full view of strong boom at all times

BOOM DESIGN

TRIANGULAR TELESCOPIC

TILTING/TELESCOPING STEERING COLUMN AND **ELECTRONIC TRAVEL SPEED PEDAL**

Smooth performance with infinite controls

INTERNAL TOOTH SWING BEARING

Smooth, stable upperstructure movements

QUICK ATTACH WEDGE BOLT SYSTEM

Full line of attachments available

STEERING AXLE OSCILLATION LOCK CYLINDERS AND OPTIONAL **STABILIZER ARMS**

No need for outriggers

VARIABLE DISPLACEMENT HIGH-TORQUE PISTON MOTOR

> Two-speed power shift-on-the-fly transmission

FULL TIME 4-WHEEL DRIVE

XL4300v 4

Up to 20 mph speeds



...KEEP BUSY JOBS **MOVING FORWARD**

UPPERSTRUCTURE CABS **DESIGNED FOR COMFORT AND**

Gradall excavator upperstructure cabs are designed to meet the need for greater productivity with a comfortable environment that provides good visibility of the boom through the entire dig cycle. Plenty of windows and mirrors also give the operator a good view of the area around the machine – a big advantage when it comes to repositioning the carrier without leaving the upper cab.

Reliable, all-electric joystick controls are a placed in the arms of the comfortable seating module. To shorten the learning curve for new Gradall operators, joystick control patterns can be changed with an in-cab switch.

ADVANTAGES AT-A-GLANCE

- Cab structure, with optional rollover protection, is integrated into the overall machine frame
- Electronic joystick control system manages upperstructure and boom
- Monitor for critical functions is easy to read and reach
- Operators can easily view job site with ample tinted glass windows and mirrors
- Full length of the boom is visible from the operator cab during the entire dig cycle
- Wide doors and convenient grab handles make it easy to enter and exit
- Standard comfort and convenience features include heating, air conditioning, radio, storable front windows, four-way adjustable seat and work lights
- In-cab switch lets operators choose the joystick pattern they prefer — Gradall, Deere or SAE
- Reposition highway speed model chassis from the upper cab at speeds up to 5 mph with brake and foot pedals, moving around a jobsite, along the side of a road or over the length of a ditch
- Rough terrain wheeled models have a steering wheel for maneuverability
- Comfortable seating module has built-in joystick controls





EXCAVATORS ACHIEVE
EXCELLENT VERSATILITY
AND PRODUCTIVITY ON
SPECIALIZED APPLICATIONS



Maneuver on rocks, dirt and sand with Series V Gradall excavators mounted on long, stable crawler undercarriages. Triple grouser excavator pads enhance tracking capability, traveling at speeds up to 3.4 mph. Tracks are powered with dual-range, high-torque piston motors for efficient, reliable carrier travel. Unlike conventional excavators, the telescoping boom delivers consistent, productive cycle times, even on low-overhead jobs.

MINE SCALING MACHINES

Excellent boom power and unique Gradall boom movements make these Series V machines ideal for scaling — even in hard-to-reach headwall locations. Maneuvering easily on rubber tires, the steering axle is fitted with axle oscillation assembly to create a stable working platform without the need for outriggers. For efficient carrier positioning, use two pedals and a tilt steering column.

RAILWAY MAINTENANCE MACHINES

Available with highway speed or on/off pavement undercarriages, these Series V models with rubber tires travel on pavement as well as rails with several available rail gear options. With a range of attachments, use them to clean up landslides, repair and replace rails, spread dirt and gravel and control vegetation. With a low-profile telescoping boom, these models also work inside tunnels and under bridges.

INDUSTRIAL MAINTENANCE MACHINES

Versatile, rugged, long-reach solutions use a 360° continuous boom tilt to handle challenging jobs including aluminum mill dross skimming and steel mill BOF maintenance work, tap hole replacement, pot cleaning, furnace teardowns and more. Built tough to handle the heat and rigors of mill work, special features also protect operators and machine components in specialized working environments.



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