

GRADALL®

RAILROAD MAINTENANCE



HIGHLY MOBILE SOLUTIONS
FOR RAIL CONSTRUCTION AND MAINTENANCE WORK





VERSATILITY AND MOBILITY, ON BOTH RAILS AND ROADS

PAYS OFF FOR MUNICIPAL TRANSIT SYSTEMS AND RAILWAYS

Gradall railway maintenance machines represent a unique combination of mobility and versatility, able to get to the job – either on rails or pavement – and then efficiently handle a wide range of maintenance and

construction jobs. Armed with Gradall's world-famous full-tilting, telescoping boom, these machines handle rail replacement and repair, trackside maintenance jobs and right-of-way and crossing work.

Gradall railway maintenance machines can respond quickly to handle on-rail emergencies or routine repairs. Available with a highway speed undercarriage, capable of speeds up to 60 mph, machines can get to crossing locations quickly, moving easily over rails to work sites and then back to the equipment yard at the end of the day.

Our rubber tire on-off pavement carriers travel at about 20 mph (depending on model), and are exceptionally stable, able to handle most tasks and work in any direction without the need for optional outriggers.

Rubber tires avoid damage to pavement when working at crossings off-rail. And with the new XL 5330 V model, get even greater boom reach and lift capacity.



TRACKSTAR **RD** | **RAPID DRIVE** "GRADALL"



Our latest option for TrackStar Highway speed models expedites travel on the track, with speeds up to 30 mph in both directions.

OPTIONAL HIGH SPEED TRAVEL FOR XL 4130 V RD AND XL 5130 V RD MODELS

Up to 30 mph on rail / Both directions

STANDARD RAIL GEAR FEATURES

- × Carbon steel frame assemblies pinned on for easy installation and removal
- × 16-inch guide wheels machined from hardened steel castings, fitted to high-strength alloy steel axles with heavy duty tapered roller bearings
- × Wheel brakes work in conjunction with the excavator braking system for maximum braking effort
- × Hi-rail gear controlled from cab
- × Rail sweeps front and rear
- × Steering lock
- × Front and rear axles have 3-inch of slotted suspension, eliminating de-railing over crossings, switch frogs and guide timbers
- × Lift cylinders include counter-balance valves to hold rail gear in the stowed or deployed position
- × Tow bar plates front and rear

MOBILE
ON RAILS & PAVEMENT



Optional Hi-Rail equipment includes:

- × Maintenance free, switchable stub axle shunts
- × Custom profile rail wheels
- × Different width axles for working on non-standard rail gauge
- × Stub axle installation

THE GRADALL BOOM

HOW ONE MACHINE CAN HANDLE MORE JOBS

Gradall's full-tilting, telescoping, triangular boom is a legend in railway maintenance and repair, precisely positioning rails and ties, removing vegetation, demolishing concrete, spreading ballast or repairing crossings with unmatched efficiency.

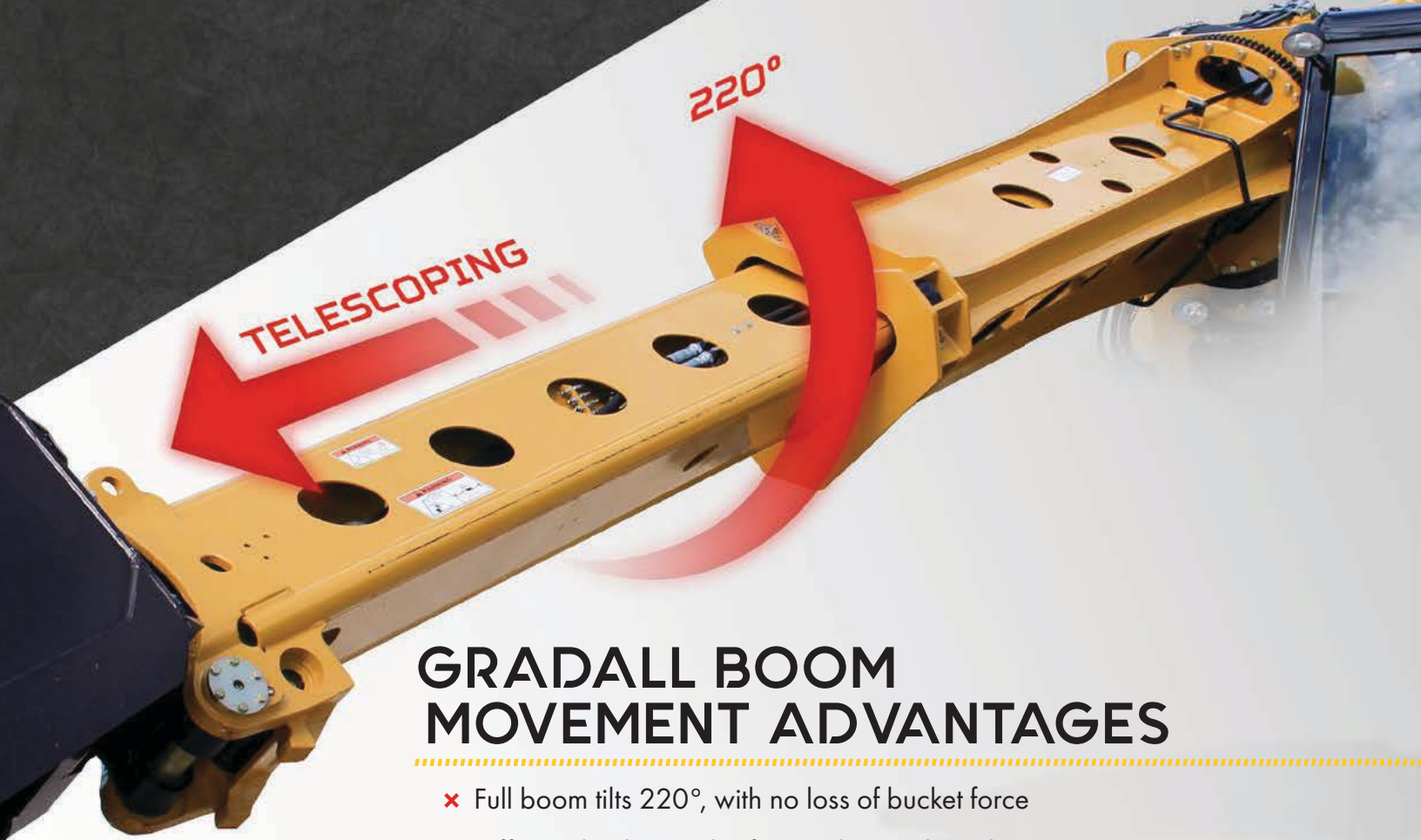
Triangular in shape for extra strength, the entire boom tilts 220° to precisely position material or remove brush and trees quickly and easily. Because the entire boom tilts, there's no loss of power typical with boom-end tilt devices.



LOW PROFILE FOR WORK IN TUNNELS

Maintenance and repair work in tunnels, on rail trestle bridges, under catenary systems or in other low-overhead locations is impossible with most machines. But Gradall's telescoping boom movement creates an exceptionally low working profile, enabling the machine to handle more work with greater speed and efficiency.





GRADALL BOOM MOVEMENT ADVANTAGES

- ✕ Full boom tilts 220°, with no loss of bucket force
- ✕ Efficient bucket angles for grading, rail tie placement and spreading material
- ✕ Two overlapping triangular sections telescope rather than articulate into position
- ✕ Low profile enables full productivity in tunnels and under catenary systems
- ✕ During the complete dig cycle, the entire boom is visible from operator cab



DETAILS MAKE THE DIFFERENCE

FOR EXTRA RAILWAY MAINTENANCE PRODUCTIVITY



APPLICATIONS

- ✕ Rail and tie repair and replacement
- ✕ Crossing construction and repair
- ✕ Mass excavation, demolition
- ✕ Sand and snow removal
- ✕ Emergency response
- ✕ Bridge and tunnel repair
- ✕ New rail line construction
- ✕ Asphalt and concrete repair
- ✕ Ballast spreading
- ✕ Drainage ditch cleaning
- ✕ Landslide cleanup
- ✕ Tree and brush cutting
- ✕ Material handling
- ✕ Ballast tamping
- ✕ Land clearing
- ✕ Ditch cleaning
- ✕ Erosion control
- ✕ Mowing

Oscillation lock cylinders and strong box plate frame construction provide stable work platform that does not require outriggers

OPERATOR CAB

- ✗ Choose Gradall, Deere or SAE joystick pattern using an in-cab switch
- ✗ Excellent visibility of the boom through the entire dig cycle
- ✗ Standard air conditioning
- ✗ With foot pedals, reposition carrier at speeds up to 20 mph

High visibility LED lights

Removable, stowable front window brings fresh air into the cab

All models have LED travel lights, forward and backward.

Volvo Penta meets highest global standards including stage IV (EU) and Tier-4 Final emissions requirements

Short tail swing combines with low working profile to make work in tunnels and tight spaces possible

Emergency backup hydraulic system

All new, modern high-pressure hydraulic system is electronically controlled with pressure-compensated, load-sensing valves, providing additional fuel-saving advantages

Automatic digging brakes for tires and rail wheels provides time-saving productivity

Change of direction alarm is standard

Large internal tooth swing bearing assures smooth, stable upperstructure movement

Carrier designs enable work with third rail systems

Three tire options: super single, dual industrial radial, super lug bias ply

GRADALL®

MOW ATTACHMENTS

MAXIMIZE YOUR GRADALL RAIL PRODUCTIVITY

Equip your Gradall Rail machine with our productive maintenance of way tools



- × Ballast broom
- × Ballast blade
- × Ballast tamper
- × Ballast bucket
- × Sleeper charger
- × Sleeper layer
- × Truck undercutters
- × Excavating buckets
- × Ditching buckets
- × Dredging buckets
- × Grading blade
- × Hydraulic hammer
- × Grapple
- × Tree limb shear
- × Hydraulic coupler
- × Flail mower
- × Kinshofer Nox-Tiltrotator
- × Boom extension

TYPICAL RAIL MAINTENANCE MARKETS

- × Major railroads
- × City transit systems
- × Short line railways
- × Airport transit systems
- × Industrial yard management
- × Rail car leasing companies
- × Rail service contractors
- × Steel and aluminum mills
- × Mines and quarries



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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 sold. Units pictured are equipped without optional equipment. See applicable specifications and price lists for optional equipment.

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