

MODEL 4867R

LITTLE Giant



Rail Gear Detail



MODEL 4867R HYDRO-SCOPIC EXCAVATOR

Here's the best of both worlds - A Badger Hydro-Scopic Excavator mounted on a Little Giant heavy-duty carrier with rail gear for maintenance-of-way operations. Drive on highways or on the rails to dig ditches or do general purpose excavating. Powered by two heavy-duty Cummins Tier III engines, this machine can stand in for trenchers, backhoes, graders and loaders.

THE BOOM HOISTS AND TELESCOPES

The excavator swings and the bucket tilts and curls. All of these can occur simultaneously, even while the carrier is in motion, under full control from the excavator cab, utilizing only one operator as well.

- 4867R even works with great accuracy under water to clear or enlarge running ditches or dig in flooded excavation sites.
- Little Giant Truck Mounted Hydro-Scopics are built on a heavily reinforced, wide flange "I" Beam designed and engineered specifically by us for these excavators.
- 6x4 or 6x6 drivetrains available.



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Specifications of Model 4867R

Carrier Engine

Cummins ISC-Tier III, turbo-charged, chargeair cooled, 6-cylinder, 4-cycle, liquid-cooled, isolation-mounted diesel engine. 260 peak hp (186kw) @ 2,400 rpm, 660 lbs.-ft peak torque (895Nm) @ 1,300 rpm; 504.5 cid (8.3L), 4.49" bore x 5.32" stroke (114mm x 135mm), 18.0:1 compression ratio Twostage dry-type air cleaner. Spin-on coolant, fuel/water separator and combination full flow/bypass lube filters. 12 volt DC, 100 amp alternator with integral solid-state regulator. Mechanical fuel pump.

Battery: One SAE 12 volt DC, 1150 CCA @ 0°F (-22°C).

Radiator: Fin and flat tube type radiator with silicone coolant and heater hoses. Brazed aluminum charge-air cooler.

Fuel Tank: 100-gal. (378L) fuel tank with inline filter.

Carrier Air System

13.2 cfm (374CL) compressor. CR 2000 desiccant type air dryer with heated automatic ejector valve, spin-on cartridge.

Transmission

Allison four speed automatic transmission. Two speed auxiliary transmission with full reversing capability.

Axles

6 x 4 Front: Eaton EFA20-F4: 20,000 lbs. capacity. Rear Eaton 403 tandem 40,000 lb (18,144kg) rated capacity. Cab-controlled inter-axle and differential lock.

Steering

Integral hydraulic power steering.

Suspension

Front: Two 9-leaf springs with mechanical stops.

Rear: Henderickson steel equalizer beams, 8" (20cm) oscillation.

Brakes

Independent front and rear service brake system incorporates spring set emergency and air applied service and parking brakes with automatic slack adjusters on both rear axles.

Wheels

Aluminum - disk type.

Tires

12R-22.5 (G)14 PR rear and 385/65R 22.5 (j) 18PR front highway tread.

Frame

Reinforced wide-flange "WF" beams 18" x 71 lbs. /ft, fully welded crossmembers.

F.R.A. Compliant

Carrier Cab

All-weather steel cab, isolation-mounted, acoustic-lined, seat belt, tinted safety glass windows with adjustable side windows, ventilator in cowl, 2-speed electric windshield wiper with washer, fire extinguisher, sun visor, heat and defroster fans and interior light.

Carrier Standard Equipment

Sealed halogen high/low beam headlights with highbeam indicator. Turn signals, clearance lights, tail lights, back-up lights, stop lights and 4-way hazard lights 3-light identification cluster front and rear. Cab interior light.

West Coast and convex mirrors. Tow hooks front and rear. Key-operated ignition/start. Lighted gauges for engine oil pressure and coolant temperature, voltage, fuel level, speedometer, odometer, tachometer, hour meter and dual air pressure. Audio-visual alarm system, with shut down, monitors low coolant level, high coolant temperature and low engine oil pressure. Low air pressure warning light. Push-pull air valve for emergency/parking brakes.

Rail Guide Wheels: Hydraulic actuated.

Hydraulic Outriggers: Out and down - cab or ground control.

Carrier Options

Spark arrester muffler. Vandalism covers.

Air ride seat. Air conditioning.

Upper Structure Engine

Cummins QSC-4.5 turbo-charged, 4-cylinder, 4-cycle, liquid-cooled, isolation-mounted diesel engine. 160 peak hp (113kw) @ 2,500 rpm, 136 net hp (101kw) @ 2,500 rpm, 400 lbs.-ft. peak torque (542Nm) @ 1,600 rpm, 359 cid (5.88L), 4.02" bore x 4.72" stroke (102mm x 120mm), 17.5 :1 compression ratio. Two-stage dry-type air cleaner. Spin-on lube filter, fuel filter/water separator. Mechanical fuel pump. 12 volt DC, 105 amp alternator with integral solid-state regulator.

Battery: One SAE 12 volt DC I,150 CCA @0°F (-22°C).

Radiator: Fin and flat tube type radiator with box type shroud and 24" (61cm) diameter 6-blade fan.

Fuel Tank: 50-gal (189L) fuel tank with in-line filter.

Upperstructure Air System

8.5 cfm (241CL) compressor. Bendix AD-9 desiccant type air dryer with heated automatic ejector valve, spin on cartridge.

Hydraulic System, Variable Flow

Two tandem-section gear-type, one single section gear-type hydraulic pumps. Pumps mounted to engine by gear box, 11" (28cm) single plate clutch for cold weather starting. Cross pressure sensing unloading valves in both tandem pumps provide variable flow output for horsepower summation: minimum 106 gpm. (401L/min.), maximum 141 gpm (535L/min.) @ 2,500 rpm, 100°F (38°C) oil temperature. Manual pump unload selector valve.

Hydraulic System, Fixed Flow

Three-section triple gear-type hydraulic pump direct flange mounted to engine. Maximum 138 gpm (627L/min.) @ 2,500 rpm and 100°F (38°C) oil temperature.

Six double-acting cylinders. Two boom hoist 5" ID (127mm), 2.5" (63mm) rod, 40.87" (1,038mm) stroke, self-aligning bearings. One boom telescope 4.5" ID (144mm), 3" (76mm) rod, 144" (3,658mm) stroke, self-aligning bearing in rod end. One tool 5" ID (127mm), 2.5" (63mm) rod, 18.09" (460mm) stroke, self-aligning bearing in housing end. Two axle lockouts: 3" ID (76mm), 1.25" (32mm) rod, 5" (127mm) stroke. One 44 hp (33kw) hydraulic swing motor, dual staging relief valves and oil-cooled automatic swing/parking break. One 80 hp (60kw) hydraulic remote travel motor. One cylinder type rotary actuator 6" ID(152mm), 180° rotation.

Swing

Speed: 9 rpm, 0° to 90° 2.7 seconds.

Upperstructure Cab

All-weather, isolation-mounted, acoustic-lined steel cab with tinted safety glass windows and skylight. Heater, defroster, fan, fire extinguisher, 3-way adjustable cushioned seat. Front window self-stores in cab. Sliding rear window. Swing-open side door, manual holder and interior light.

Upperstructure Control

Upperstructure digging control: two hydraulic joystick controllers with adjustable pedestals for tool-hoist and swing-telescope functions and electrical rocker switch for boom tilt function. All controls are dead-man type when released, machine movements automatically stop. Push-pull air valve for emergency brakes.

Buckets & Attachments

Buckets fabricated of steel plate with T-1 steel cutting edges and wear strips, hardened steel bushings in ears, replaceable tooth points with flex pins on excavating buckets.

- **Ditching Buckets:** 60" (152cm), 66" (168cm), 72" (183cm).
- **Excavating Buckets:** 24" (61cm), 30" (76cm), 36" (91cm), 42" (107cm), 48" (122cm).
- **Specialty Buckets:** 42" (107cm) pavement removal bucket.
- **Boom Extensions:** 4' (1.2m), 6' (1.8m), 8' (2.4m), 12' (3.7m), material (unloading).
- **Attachments:** 8' (2.4m) grading blade, single-tooth ripper, brush mower, grapple, magnet, hammer and auger attachments also available.



Custom Built in America. For Today. For the Future.



Little Giant Corporation is a Division of Manitex International, Inc.



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