GRADALL
534D6-42
MATERIAL HANDLER

SPECIFICATIONS

Performance
Rated Capacity
At 24 in. (610 mm) load center, 6,000 lb (2,722 kg)
Maximum Lift Height
42 ft. (128 m)
Frame Leveling
8 degrees
Lift Speed (boom retracted)
Empty, 835 fpm (265 m/min); Loaded 773 fpm (236 m/min)
Boom Speed
Extend 112 fpm (34.1 m/min); Retract 103.75 fpm (31.6 m/min)
Travel Speeds Forward and Reverse
4WD/2WD 75-16 mph (12-25.7 km/h)
Operating Weight
With 48' (12 m) carriage and forks, 18,818 lb (8,538 kg)
Drawbar pull
Loaded 13,750 lb (6,236 kg)

Drive Line Specifications
Engine
Make and Model: Cummins B3.9C-110 turbocharged engine
Fuel: No. 2 Diesel
Cycles: 4
No. of Cylinders: 4
Displacement: 239 cu. in. (3.9 L)
Rated Speed: 2500 rpm
Max. Gross BHP: 80 hp (60 Kw)
Fuel Tank: 38 gal (141 L)
Optional Engine
Make and Model: Cummins B3.9C-110 Turbocharged, aircooled
Max. Gross BHP: 110 hp (82 Kw)

Engine Filters
Two-stage dry air cleaner - centrifugal pre-cleaner with continuous dust ejector PLUS cleanable and replaceable dry filter element. Visual service indicator.
Replaceable element-type fuel filter/water separator. Full-flow replaceable element engine oil filter.
Electrical System
Voltage: 12V
Alternator: 63 amp
Battery: 810 Cold Cranking AMP at 0°F
Hydrostatic Drive
5500 PSI (37923 kpa) closed loop with piston pump and motors.
8 micron suction filter for charge pump.
All hydraulic connections ORS and Code 62 O-ring flanges.
Integral reservoir with implement hydraulics.
Self-contained, swashplate design, variable displacement, over center piston pump. Neutral start switch. (Park brake must also be engaged to start)
2WD and 4WD inching
2WD - 4WD switch on dash.
Forward, neutral, reverse lever on left of steering column.
Single foot pedal control provides both braking and inching for lifting while maneuvering vehicle.
Electro/hydraulic traction lock valve for superior tractive effort.
Axes
Planetary hubs with piston motors on rear axle.
Piston motor-driven planetary front axle with high-bias, limited slip differential.
Brakes
Service - hydraulically wet disc brake on each front wheel.
Hydraulic dynamic braking on front axle and both rear wheels.
Parking Brakes
Wet disc spring-applied electro/hydraulic release, fail safe on both front wheels.
Light on dash indicates when brake is on.
Tires
13.00x24 - 12PR, G2 type (common wheel)
Optional: 13.00R24 radial tires.
Cab
Certified OPS/ROPS structure with horn, back-up alarm and right side rear view mirrors.
Steering
Hydraulic power steering with manual backup. Rear wheel steering, 90° pivot around either front tire. Outside turning radius less than chassis length.
Instruments
Volt meter, hour meter, engine oil pressure gauge, fuel gauge, water temperature gauge. All gauges protected by clear acrylic covers.
Controls
Grouped for operator comfort and convenience.
Boom lift and crowd on single joystick.
Right-hand tilt and sway levers.
Foot throttle.
Floor mounted traction lock switch.
Hydraulic System and Implement
Single-section gear pump.
40 gal. (151.4 L) system capacity.
8 micron filter with visual service indicator and suction strainer.
Lift, crowd, tilt and swivel cylinders have safety checks to prevent dropping of load in the event of hose or other hydraulic failure.

Accessories & Options
Cummins B3.9C-110 turbocharged engine
Winch
Cab Enclosure
Light Package
Rotating Beacon
Auxiliary Hydraulic Circuit
Required for all attachments equipped with cylinders or other hydraulic components.
Consists of valves, controls, hydraulic lines.
Cold Start Package
Radial Tires
Left Hand Tilt/Sway Control
Tilt on Joystick
Attachments
Carriage
48' (12 m)
Carriage
66' (17 m)
Slope Pile Carriage
48' (12 m) & 66' (17 m)
Drywall Carriage
Swing Carriage
100'
Pallet Forks
2' x 4' x 48' (608 mm x 1016 mm x 12 m)
Cubing Forks
2' x 2' x 48' (608 mm x 508 mm x 12 m)
Instant Hook
Vertical Mast
6' (1.8 m)
Swing Mast
6' (1.8 m)
Truss Boom
10' (3.0 m)
Bucket
0.75 CY (0.57 m³) or 1.25 CY (0.95 m³)
Truss Boom With Winch
10' (3.0 m)
IMPORTANT
Rated lift capacities shown are with the machine on a firm, level surface with undamaged, properly inflated tires. Machine specifications and stability are based on rated lift capacities at specific boom angles and boom lengths. If specifications are critical, the proposed application should be discussed with your dealer.

DO NOT exceed rated lift capacity loads, as unstable and dangerous machine conditions will result.
DO NOT tip the machine forward to determine the allowable load.

Max. Reach:
26 ft. (7.9 m)

Max. Lift:
42 ft. (12.8 m)

This machine is designed to meet specifications of ASME B56.6b-1998. 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.

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