

PRODUCT SPECIFICATIONS FOR 962M

ENGINE

Net Power - ISO 9249	250 HP
Emissions	Tier 4/Stage IV
Maximum Power - 2,100 rpm - SAE J1995	271 HP
Maximum Net Power - 2,100 rpm - ISO 9249	250 HP
Maximum Power - 2,100 rpm - ISO 14396 - Metric	273 HP
Maximum Net Torque - 1,350 rpm	865 ft·lbf
Maximum Power - 2,100 rpm - ISO 14396	269 HP
Maximum Net Power - 2,100 rpm - SAE J1349	250 HP
Maximum Net Power - 2,100 rpm - ISO 9249 - Metric	253 HP
Displacement	428 in ³
Peak Gross Torque - 1,350 rpm - ISO 14396	918 ft·lbf
Peak Gross Torque - 1,350 rpm - SAE J1995	921 ft·lbf
Engine Model	Cat C7.1
Note	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO2 equivalent of 2.288 metric tonnes.

WEIGHTS

Operating Weight	44591 lb
Note	Weight based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link™, manual diff lock/open axles (front/rear), power train guard, secondary steering, sound suppression and a 3.3

m³ (4.3 yd³) general purpose bucket with BOCE.™

BUCKETS

Bucket Capacities 2.5-9.2 m³ (3.3-12 yd³)

DIMENSIONS - HIGH LIFT

Rack Back - Maximum Lift 59 degrees

Hinge Pin Height at Carry Height 2.58 ft

Wheel Base 11 ft

Height - Top of Exhaust Pipe 11.17 ft

Centerline of Rear Axle to Hitch 5.5 ft

Centerline of Rear Axle to Edge of Counterweight 7.08 ft

Tread Width 7 ft

Height - Top of ROPS 11.33 ft

Ground Clearance 1.17 ft

Height - Top of Hood 8.83 ft

Maximum Width - Over Tires - Loaded 9.25 ft

Lift Arm Clearance at Maximum Lift 11.83 ft

Note All dimensions are approximate and based on Michelin 23.5R25 XHA2 L3 radial tires.

Hinge Pin Height at Maximum Lift 14.83 ft

Overall Length - Without Bucket 23.75 ft

Rack Back at Ground 37 degrees

Rack Back - Carry Height 49 degrees

SOUND

With Cooling Fan Speed at Maximum Value - Exterior Sound Pressure Level (SAE J88:2013)	75 dB(A)*
Note (3)	***European Union Directive 2000/14/EC as amended by 2005/88/EC.
With Cooling Fan Speed at Maximum Value - Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Note (2)	**For machines in European Union countries and in countries that adopt the EU Directives.
With Cooling Fan Speed at 70% of Maximum Value - Operator Sound Pressure Level (ISO 6396:2008)**	69 dB(A)
With Cooling Fan Speed at 70% of Maximum Value - Exterior Sound Power Level (ISO 6395:2008)**	104 LWA***
With Cooling Fan Speed at Maximum Value - Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)
Note (1)	*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

DIMENSIONS - STANDARD LIFT

Tread Width	7 ft
Centerline of Rear Axle to Edge of Counterweight	7.08 ft
Overall Length - Without Bucket	23.75 ft
Ground Clearance	1.17 ft
Height - Top of Exhaust Pipe	11.17 ft
Rack Back at Ground	37 degrees
Wheel Base	11 ft
Centerline of Rear Axle to Hitch	5.5 ft
Height - Top of Hood	8.83 ft
Hinge Pin Height at Carry Height	2.17 ft
Maximum Width - Over Tires - Loaded	9.25 ft

Hinge Pin Height at Maximum Lift	13.92 ft
Height - Top of ROPS	11.33 ft
Note	All dimensions are approximate and based on Michelin 23.5R25 XHA2 L3 radial tires.
Lift Arm Clearance at Maximum Lift	11.33 ft
Rack Back - Maximum Lift	59 degrees
Rack Back - Carry Height	49 degrees

DIMENSIONS

Maximum Width over Tires (loaded)	111 in
Centerline of Rear Axle to Edge of Counterweight	85 in
Wheel Base	132 in
Hinge Pin Height at Carry Height	26 in
Ground Clearance	14 in
Centerline of Rear Axle to Hitch	66 in
Tread Width	84 in
Height - Top of Exhaust Pipe	134 in
Height - Top of ROPS	136 in
Overall Length (without bucket)	285 in
Note	All dimensions are approximate and based on Michelin 23.5R25 XHA2 L3 radial tires.
Hinge Pin Height at Maximum Lift	167 in
Lift Arm Clearance at Maximum Lift	136 in
Height - Top of Hood	106 in

OPERATING SPECIFICATIONS

Note (2) Full compliance to ISO 143971:2007 Sections 1 thru 6. which requires 2% verification between

calculations and testing.

Static Tipping Load - Full 40° Turn - With Tire Deflection

25814 lb

Breakout Force

42489 lbf

Static Tipping Load - Full 40° Turn - No Tire Deflection

27494 lb

Note (1)

For a machine configuration as defined under Weight.

SERVICE REFILL CAPACITIES

Transmission

11.4 gal (US)

Cooling System

15.6 gal (US)

Hydraulic Tank

33 gal (US)

Fuel Tank

72.6 gal (US)

Crankcase

5.8 gal (US)

Differential - Final Drives - Front

11.4 gal (US)

DEF Tank

4.2 gal (US)

Differential - Final Drives - Rear

11.4 gal (US)

HYDRAULIC SYSTEM

Implement Pump Type

Variable Axial Piston

Hydraulic Cycle Time - Total

8.9 s

Implement System - Maximum Operating Pressure

4250 psi

Implement System - Maximum Pump Output at 2,150 rpm

76 gal/min

TRANSMISSION

Forward - 1	4.3 mile/h
Forward - 3	12 mile/h
Reverse - 2	7.5 mile/h
Note	Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 mm (31 in) roll radius.
Reverse - 1	4.3 mile/h
Forward - 2	7.5 mile/h
Forward - 5	24.5 mile/h
Forward - 4	16 mile/h
Reverse - 3	16 mile/h

BUCKET CAPACITIES

Bucket Range	2.5-9.2 m ³ (3.3-12 yd ³)
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ENGINE - TIER 4 FINAL/STAGE IV

Emissions	Tier 4/Stage IV
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962M STANDARD EQUIPMENT

NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

Engine, Cat C7.1 meets Stage IV emission standards

Cat Clean Emissions Module (CEM) with Diesel Particulate Filter (DPF) and Diesel Exhaust Fluid (DEF) tank and pump

Fuel priming pump (electric)

Fuel/water separator

Precleaner, engine air intake

Economy Mode (selectable)

Transmission, automatic counter shaft power shift (5F/3R)

Torque converter, locking clutch with free wheel stator

Switch, transmission neutralizer lockout

Axles, manually actuated differential lock front axle, open differential rear axle

Axles, ecology drains

Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)

Brake wear indicators

Parking brake, disc and caliper

Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand

Radiator, high debris with wide fin spacing

OPERATOR ENVIRONMENT

Cab, pressurized and sound suppressed (ROPS/FOPS)

Viscous mounts

Multi-function 18 cm color LCD touch-screen display for rear vision camera image display (reverse travel activated) and machine status, setting and health parameters

EH controls, SAL (single axis lever) lift and tilt function

Steering, steering wheel

Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)

Air conditioner, heater, and defroster (auto temp and fan)

EH parking brake

Beverage holders (2) with storage compartment for cell phone/MP3 player

Bucket/work tool function lockout

Coat hook (2)

Cab air filter

Ergonomic cab access ladders and handrails

Horn, electric

Light, two dome (cab)

Mirrors, rearview external with integrated spot mirrors

Post mounted membrane 16 switch keypad

2 receptacles, 12V

Seat, Cat Comfort (cloth) air suspension

Seat belt, 51 mm retractable, with indicator

Sun visor, front

Wet-arm wipers/washers front and rear, intermittent front wiper

Window, sliding (left and right sides)

Cab tie-off

COMPUTER MONITORING SYSTEM

With following gauges: Speedometer/tachometer; Digital gear range indicator; Diesel Exhaust Fluid (DEF) level; Temperature: engine coolant, hydraulic oil, transmission oil; Fuel level

With following warning indicators: Temperature: axle oil, engine intake manifold; Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil; Battery voltage hi/low; Engine air filter restriction; Hydraulic oil filter restriction; Hydraulic oil low; Parking brake; DEF low level; Transmission filter bypass

ELECTRICAL AND LIGHTING

Batteries (2), maintenance free 1,400 CCA

Ignition key; start/stop switch

Starter, electric, heavy duty

Starting and charging system (24V)

Lighting system: Four halogen work lights (cab mounted); Two LED stop, turn, tail lights; Two halogen roading lights (with signals); Two halogen rear vision lights (hood mounted)

Alarm, back-up

Alternator, 145-amp brushed

Main disconnect switch

Receptacle start (cables not included)

Secondary steering

CAT CONNECT TECHNOLOGIES

Link technologies: Product Link

Detect technologies: rear vision camera

LINKAGE

Linkage, optimized Z-bar, cast crosstube/tilt lever

Kickout, lift and tilt, automatic (adjustable in cab)

HYDRAULICS

Hydraulic system, load sensing

Steering, load sensing

Ride control, 2V

Remote diagnostic pressure taps

Hoses, Cat XT™

Couplings, Cat O-ring face seal

Hydraulic oil cooler (swing out)

Oil sampling valves

FLUIDS

Premixed extended life coolant with freeze protection to -34° C

OTHER STANDARD EQUIPMENT

Hood, non-metallic power tilting

Service centers (electrical and hydraulic)

Auto idle shutdown

Fenders with mud-flap/rear with extension

Ecology drains for engine, transmission, and hydraulics

Grill, airborne debris

Filters: fuel, engine air, engine oil, hydraulic oil, transmission

Fuel cooler

Grease zerks

Hitch, drawbar with pin

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Precleaner rain cap

Sight gauges: engine coolant, hydraulic oil, and transmission oil level

Toolbox

Vandalism protection caplocks

962M OPTIONAL EQUIPMENT

NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

Axles: Automatic front/rear differential locks; Axle oil cooler; Seal guards

Fan, VPF (variable pitch fan), automatic and manual control

Radiator, high debris with wider fin spacing

OPERATOR ENVIRONMENT

Door, remote opening system

Cover, HVAC metallic

EH controls, SAL 3rd function - Additional roller switch for 4th function

EH controls, joystick lift and tilt - Additional integrated roller switches for 3rd and 4th functions

Filter, carbon fresh air

Mirrors, heated rearview external with integrated spot mirrors

Precleaner, HVAC

Precleaner, HVAC (RESPA)

Radio, AM/FM/CD/USB/MP3 Bluetooth

Radio, CB ready

Seat, heated air suspension

Seat belt, 4 point harness, with indicator

Steering, EH joystick, speed sensing with force feedback

Roof, metallic

Sun visor, rear

Windows, rubber mounted

Windows, with front guard

Windows, with full guards front, rear and sides

Full time rear vision display Work Area Vision Systems (WAVS)

Cat seat cover, removable

ELECTRICAL AND LIGHTING

Four additional halogen cab mounted work lights or;

Two additional auxiliary front HI LED and two additional auxiliary rear LED cab mounted work lights, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights, LED roading lights

Warning amber strobe beacon

Reversing strobes

Speed limiter 20 km/h

External seat belt indicator light

STARTERS, BATTERIES, AND ALTERNATORS

Cold start - 240V

CAT CONNECT TECHNOLOGIES

Link technologies: VIMS™

Payload technologies: Cat Production Measurement 2.0 (CPM); Printer, Cat Production Measurement; Aggregate Autodig

Advanced Productivity subscription

Detect technologies: Cat Rear Object Detection

Machine Security System

LINKAGE

High lift

Forestry

Quick coupler ready

WORK TOOLS

Performance Series buckets

Fusion quick coupler, ISO coupler

Forks, pallet

Forks, logging

HYDRAULICS

3rd function with Ride Control: Standard linkage; High lift linkage; Forestry linkage

4th function with Ride Control: Standard linkage; High lift linkage; Forestry linkage

FLUIDS

Premixed extended life coolant with freeze protection to -50° C

Bio-degradable oil, Cat HYDO™

OTHER OPTIONAL EQUIPMENT

Cat Autolube System

Fenders, roading

Guard, power train

Precleaner, turbine

Precleaner, trash

Platform, window washing

Cold weather package: Transmission filter by pass; Fan pump bypass; Jacket water or engine block heater; Ether aid ready

PURPOSE BUILT SPECIALTY MODELS

Industrial & Waste

Forestry

Corrosion Resistance