

# PRODUCT SPECIFICATIONS FOR 962M

US      Metric

**Net Power - ISO 9249**      186 kW

**Emissions**      Tier 4/Stage IV

**Maximum Power - 2,100 rpm - SAE J1995**      202 kW

**Maximum Net Power - 2,100 rpm - ISO 9249**      186 kW

**Maximum Power - 2,100 rpm - ISO 14396 - Metric**      201 kW

**Maximum Net Torque - 1,350 rpm**      1172 N·m

**Maximum Power - 2,100 rpm - ISO 14396**      201 kW

**Maximum Net Power - 2,100 rpm - SAE J1349**      186 kW

**Maximum Net Power - 2,100 rpm - ISO 9249 - Metric**      186 kW

**Displacement**      7 l

**Peak Gross Torque - 1,350 rpm - ISO 14396**      1245 N·m

**Peak Gross Torque - 1,350 rpm - SAE J1995**      1249 N·m

**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.

**Operating Weight**

20226 kg

**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 m<sup>3</sup> (4.3 yd<sup>3</sup>) general purpose bucket with BOCE.™

**Bucket Capacities**2.5-9.2 m<sup>3</sup> (3.3-12 yd<sup>3</sup>)**Rack Back - Maximum Lift**

59 degrees

**Hinge Pin Height at Carry Height**

779 mm

**Wheel Base**

3350 mm

**Height - Top of Exhaust Pipe**

3408 mm

**Centerline of Rear Axle to Hitch**

1675 mm

**Centerline of Rear Axle to Edge of Counterweight**

2147 mm

**Tread Width**

2140 mm

**Height - Top of ROPS**

3444 mm

**Ground Clearance**

361 mm

**Height - Top of Hood** 2691 mm

**Maximum Width - Over Tires - Loaded** 2824 mm

**Lift Arm Clearance at Maximum Lift** 3631 mm

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

**Hinge Pin Height at Maximum Lift** 4524 mm

**Overall Length - Without Bucket** 7228 mm

**Rack Back at Ground** 37 degrees

**Rack Back - Carry Height** 49 degrees

**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** 107 dB(A)

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.

**Tread Width** 2140 mm

**Centerline of Rear Axle to Edge of Counterweight** 2147 mm

**Overall Length - Without Bucket** 7228 mm

**Ground Clearance** 364 mm

**Height - Top of Exhaust Pipe** 3411 mm

**Rack Back at Ground** 37 degrees

**Wheel Base** 3350 mm

**Centerline of Rear Axle to Hitch** 1675 mm

**Height - Top of Hood** 2694 mm

**Hinge Pin Height at Carry Height** 669 mm

**Maximum Width - Over Tires - Loaded** 2824 mm

**Hinge Pin Height at Maximum Lift** 4235 mm

**Height - Top of ROPS** 3447 mm

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

**Lift Arm Clearance at Maximum Lift** 3477 mm

<b>Rack Back - Maximum Lift</b>	59 degrees
<b>Rack Back - Carry Height</b>	49 degrees
<b>Maximum Width over Tires (loaded)</b>	2824 mm
<b>Centerline of Rear Axle to Edge of Counterweight</b>	2147 mm
<b>Wheel Base</b>	3350 mm
<b>Hinge Pin Height at Carry Height</b>	669 mm
<b>Ground Clearance</b>	364 mm
<b>Centerline of Rear Axle to Hitch</b>	1675 mm
<b>Tread Width</b>	2140 mm
<b>Height - Top of Exhaust Pipe</b>	3411 mm
<b>Height - Top of ROPS</b>	3447 mm
<b>Overall Length (without bucket)</b>	7228 mm
<b>Note</b>	All dimensions are approximate and based on Michelin 23.5R25 XHA2 L3 radial tires.
<b>Hinge Pin Height at Maximum Lift</b>	4235 mm
<b>Lift Arm Clearance at Maximum Lift</b>	3477 mm
<b>Height - Top of Hood</b>	2694 mm

<b>Note (2)</b>	Full compliance to ISO 143971:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.
<b>Static Tipping Load - Full 40° Turn - With Tire Deflection</b>	11709 kg
<b>Breakout Force</b>	189 kN
<b>Static Tipping Load - Full 40° Turn - No Tire Deflection</b>	12471 kg
<b>Note (1)</b>	For a machine configuration as defined under Weight.
<b>Transmission</b>	43 l
<b>Cooling System</b>	59 l
<b>Hydraulic Tank</b>	125 l
<b>Fuel Tank</b>	275 l
<b>Crankcase</b>	22 l
<b>Differential - Final Drives - Front</b>	43 l
<b>DEF Tank</b>	16 l
<b>Differential - Final Drives - Rear</b>	43 l
<b>Implement Pump Type</b>	Variable Axial Piston
<b>Hydraulic Cycle Time - Total</b>	8.9 s
<b>Implement System - Maximum Operating Pressure</b>	29300 kPa
<b>Implement System - Maximum Pump Output at 2150 rpm</b>	296 l/min

<b>Forward - 1</b>	6.9 km/h
<b>Forward - 3</b>	19.3 km/h
<b>Reverse - 2</b>	12 km/h
<b>Note</b>	Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 mm (31 in) roll radius.
<b>Reverse - 1</b>	6.9 km/h
<b>Forward - 2</b>	12 km/h
<b>Forward - 5</b>	39.5 km/h
<b>Forward - 4</b>	25.7 km/h
<b>Reverse - 3</b>	25.7 km/h
<b>Bucket Range</b>	2.5-9.2 m <sup>3</sup> (3.3-12 yd <sup>3</sup> )
<b>Emissions</b>	Tier 4/Stage IV

## **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



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  
  
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



