

KOMATSU

951XC-1



Operating weight

51,313 lbs. (23,275 kg)

Horsepower

287 net HP (214 kW) @ 1,850 rpm

Tractive force

54,404 lbf. (242 kN)

951XC-1

Engine

6-cylinder diesel engine with turbo and intercooler. Conforms to the requirements of EU Stage V (Europe), Tier 4F (North America) and Stage II (other countries).

Engine type	Stage V: 74 LFTN-D5 Tier 4F: 74 LFTN-D4 Stage II: 74 LFEN-A2
Engine displacement	452 in ³ (7.4 L)
Power, max.	Stage V and Tier 4F: 287 HP (214 kW DIN)
Torque	Stage V, Tier 4F and Stage II: 944 lb-ft (1,280 Nm)
AdBlue tank	11 gal (42 L)
Fuel tank capacity (approx.)	123 gal (466 L)

Transmission

Hydrostatic-mechanical, controlled via MaxiXT. Transfer gearbox with two positions. Disengageable front-wheel drive.

Differential locks	Front and rear axles Mechanical electro-hydraulic control
Driving speed 951XC-1-1	0-13 mph (0-21 km/h)
Tractive force 951XC-1-1	54,404 lbf (242 kN)

Hydraulic system

Dual-circuit load-sensing system with variable piston pumps

Flow	139 GPM (528 L/min)
System pressure	4061 PSI (280 BAR)
Hydraulic oil tank (approx.)	66 gal (250 L)
Other	Pressure filter for hydrostatic circuit. Return oil filter for hydrostat and working hydraulics. Hydraulic oil level alarm.

Frames/Axles

Front axle	Geared bogie of "high-clearance" type with portal gears housed in the rims. Differential with mechanical differential lock.
Rear axle	Swing axle with hub reduction. Differential with mechanical differential lock. Hydraulic stabilizers.
Wheels	front/rear: 710-800/26.5"

Brake system

Fully hydraulic multi disc brakes. Brake pressure accumulators charged via automatic hydraulic accumulator charging valve.

Driving brake	Four multi disc brakes in oil bath acting on front and rear axles
Working brake	Same as driving brake. Automatically engaged when working.
Parking brake	Spring-action brake with electro-hydraulic control. Emergency brake.
Brake performance	Conforms to ISO 11169 and VVFS 2003:27

Crane

	270H
Reach	28.5/33.8' (8.7/10.3 m)
Lifting torque, gross	275 kNm
Slewing torque, gross	60 kNm
Head	C124/S132/C144/S172/C164

Steering

Hydraulic articulated steering with two dual-acting hydraulic cylinder

Joystick steering	Load-sensing (LS) proportional steering from crane
Electric steering	Finger-controlled mini steering wheel on right-hand panel
Steering angle	38.5 degrees

Electrical system

Voltage	24V
Battery capacity	2 x 180 Ah
Alternator	2 x 100 A

Lighting

Working lights	16 LED lights: 7 lights roof mounted, 2 cab door, 2 boom, 3 crane base, 2 engine hood
Service lights	LED lights in service compartments

Ergonomics

Levelling for good posture. Cab coupled to swing axle. Crane and cab on horizontal, rotating platform. Hydraulic stabilization when maneuvering

Horizontal leveling	Longitudinal 22°/20° and lateral 16°
Rotation	180 degrees



Overall dimensions

A	Width	9'9" (2,980 mm)
B	Length, total	26'4" (8,015 mm)
C	Length, front axle to articulated joint	6'4" (1,930 mm)
D	Length, articulated joint to rear axle	7'1" (2,150 mm)
E	Transport height	13'1"/12'11" (3,980*/3,940** mm)
F	Ground clearance	2'4" (708 mm)

NB: Stated dimensions are nominal and may vary depending on production tolerances and optional equipment.

* Dimension up to roof, upright cab (with tyre compression)

** Dimension cab tilted back with tilted light bar (with tyre compression)

Heads

	Komatsu C124	Komatsu S132	Komatsu C144	Komatsu S172	Komatsu C164
Weight (from)	2,668 lbs. (1,210 kg)	3,042 lbs. (1,380 kg)	3,102 lb. (1,407 kg)	3,693 lb. (1,675 kg)	3,688 lb. (1,673 kg)
Felling/cutting diameter	26 in (660 mm)	28 in (710 mm)	29.5 in (750 mm)	29.5 in (750 mm)	32.7 in (830 mm)
Feed speed	0-16 ft./s (0-5 m/s)	0-16 ft./s (0-5 m/s)	0-16/0-21 ft./s (0-5/0-6.5 m/s**)	0-16 ft./s (0-5 m/s)	0-16 ft./s (0-5 m/s)
Feed force, gross	23.7/28.3 kN**	21.0/26.1/28.7 kN**	21.0/26.1/28.7 kN**	40.2 kN	29.6/35.4 kN**
Front knives, max. opening	24.6 in (625 mm)	25.2 in (641 mm)	25.6 in (650 mm)	29.8 in (757 mm)	29.5 in (750 mm)
Feed rollers, max. opening	26.4 in (670 mm)	25.4 in (625 mm)	29.5 in (750 mm)	28.1 in (713 mm)	33.5 in (850 mm)

*depends on saw bar **depends on engine

Engine and related components

Engine - AGCO Power 74 LFTN-D4, EPA Tier 4 Final 287 NET HP (214 kW DIN) @ 850 RPM	●
After-cooled, turbocharged direct injection	●
Air cleaner, double element	●
Engine hood guard, tubular steel (std)	●
Reinforced engine hood guard, tubular steel	○
Pump, 24V electric fuel fill	○

Electrical system

Alternator, 2 x 100 amp, 24V	●
Batteries, 2 x 12V, 180 Ah; heated by the diesel heater	●
Emergency start battery cable kit	●
16-LED working lights (7 roof, 2 cab door, 2 boom, 3 crane base, 2 hood)	●
Roof-mounted LED lights	○
Extra LED working lights	○

Drivetrain

Hydrostatic-mechanical low/high range transmission	●
Front/rear axle, pivoted with hub reduction and hydraulic stabilizer lock	●
Bogie protection plates	●
Front-rear differential with mechanical lock	●
Internal multi-disc wet brakes	●
Hydraulic articulation frame steering	●
±40 degree articulation steering angle, electrical steering cylinder end damping	●

Operator Environment*

Cab, ROPS (ISO8082), FOPS (ISO8083), OPS (ISO8084), WCB (G603)*	●
EME control handle steering plus finger-controlled miniature electric	●
Mini-levers advanced control handles (ILOS EME-levers)	○
Steering control on right side panel	●
Automatic climate control with heating, air conditioning and filtered air intake	●
AM/FM Radio/CD, MP3 player interface, AUX/USB connection, Bluetooth	●
Polycarbonate windows (15mm front, 10mm side)	●
Front/roof window wipers and washers	●
Fully adjustable Be-Ge 3000 high back air suspension seat, air vented	●
Turnable operator seat	●
Seat belt, retractable	●
Sun blinds, drink cup holder, coat hook	●
4 cab ceiling-mounted interior LED lights	●
Heating and cooling boxes for food/beverages	●
Rear emergency escape	●
Rear view video camera	○
Komatsu MediaZone	○

Hydraulic controls

Load sensing 2-circuit hydraulic system, 139 gpm (528 ltr/min) pump flow	●
High pressure filter for hydrostatic travel circuit	●
Low hydraulic oil warning	●
24V electric hydraulic tank oil fill pump	●
24V hydraulic system vacuum pump	●
Shell Tellus S2 VX46 hydraulic oil	●
Thermostatically controlled hydraulic oil cooling	●

Leveling system

Automatic cab/crane leveling	●
Leveling - Longitudinal: 20 degrees (36%) / 22 degrees (40%) - Lateral: 16 degrees (28%)	●
Cab/crane rotation, ± 180 degrees	●

Crane

Crane damping, centralized greasing	●
270H crane with 33' 9" (10.3 m) reach	●
270H crane with 28' 3" (8.6 m) reach	○

Control system

MaxiXT control system for machine, head and measuring control, information and administration system. Includes length optimizing bucking function. Other software includes:	●
MaxiXT value bucking function	●
Maxi XT operational monitoring system	●
MaxiS 1.1 stem profiles and file analyses	●
MaxiP for reading PRD files	●
Maxi PC X40, Microsoft Windows operating system, 8GB RAM, 128 GB solid state drive, wired keyboard with track ball	●
12" color screen	●
GPS receiver	●
MaxiPC X40 computer touchscreen	○

Tires

710-26.5 Nokian Forest King F2	○
710-26.5 Nokian TRS2	○
800-26.5 Nokian Forest King F2	○
800-26.5 Nokian TRS2	○
Spare - 710-26.5 Nokian Forest King F2	○
Spare - 710-26.5 Nokian TRS2	○
Spare - 800-26.5 Nokian Forest King F2	○
Spare - 800-26.5 Nokian TRS2	○

Other equipment

Heater, fuel fired jacket water and hydraulic oil preheater 9.1 kW capacity (also heats the 2 x 12V batteries)	●
Rear service access ladder	●
Electrically-controlled platform step under cab door	●
Automatic central lubrication system	●
Tool box and tools	●
O-ring kit for hydraulic hoses	●
Rear frame tie-down hook	●
Fire extinguishers, 2 x 13.2 lb (6 kg), hand held	●
Back-up (reverse) alarm signal	●
Documentation in memory stick and paper formats	●
Marks and plates, English	●
Marks and plates, French	○
Control equipment XL	○

- standard equipment
- optional equipment

*NOTE: Wheeled Komatsu harvester manufactured on or after 1st of May - 2019, is not for sale or use in British Columbia due to the window glazing not meeting WCB 26.13.4, saw chain shot protection as enacted by B.C. Reg. 9/2017, effective May 1, 2017.

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