Skid Steer Loader

**SK1020-5**

**ENGINE POWER**
63,9 kW / 85,7 HP @ 2,500 rpm

**OPERATING WEIGHT**
3,420 kg

**OPERATING CAPACITY**
905 kg
Walk-Around

Highly versatile and compact, the SK1020-5 skid steer loader is the result of the competence and technology that Komatsu has acquired over the past 80 years. Developed with constant attention to the needs of customers from all around the world, the end product is a user-friendly skid steer loader with top-class performances.

Outstanding performances
• PPC hydraulic servo-controls
• Closed-centre Load Sensing System (CLSS)
• 2 speed transmission
• Bucket self-levelling
• Automatic Power Control device

Total versatility
• Compact dimensions
• Wide range of attachments
• Available in “Super Flow” version
First-class operator comfort
- Spacious cab
- LCD panel
- Accelerator pedal

Highest safety standards
- ROPS-FOPS cab
- Safety sensors
- Excellent all around visibility
- Negative action brakes

Easy serviceability
- Easy access to all daily inspection points
- Tilting cab for full maintenance
- Extended 250-hour service interval

Komatsu Satellite Monitoring System
Outstanding Performances

Highly efficient
A self-levelling bucket is one of the many standard features of this Komatsu skid steer loader that make it highly efficient in any application. The accelerator pedal and a 2 speed transmission further increase operator productivity.

PPC servo-controls
The PPC servo-controls make the SK1020-5 easy to use. Natural movements and maximum precision guarantee unique efficiency and greatly contribute to reduce operator fatigue. The right joystick controls the movements of the arm and of the bucket; the left one controls the translation.

Automatic Power Control device (APC)
Thanks to the APC device, the operator can always use the engine's full capacity, with no waste of power or overloads. It gives priority to the work equipment, makes the most of the residual power by sending it to the travelling motors, and prevents engine shutdown – even during the toughest operations.
First-Class Operator Comfort

Spacious cab
A spacious cab, with a wide entrance and comfortable seat, provides a level of comfort that is unmatched in this class of machines. Ergonomic controls and the excellent 360° visibility make the operator’s work much easier and safer on any job site. On request, the SK1020-5 can be equipped with an exclusive front door that fits under the roof, and with side windows and heating or air conditioning for maximum comfort in all seasons.

LCD panel
The LCD panel on the safety bar allows to closely monitor all the machine’s main functions: from fuel level to water temperature, air filter condition, engine oil pressure and more.

Accelerator pedal
For an optimised engine usage, lower fuel consumption and improved acoustic comfort the operator can also adjust engine rpm with the accelerator pedal without removing the hand from the joystick.
Safety sensors
In case of unauthorised manoeuvres, a sophisticated system of sensors located on the safety bars and on the seat prevents all machine movements by automatically braking on the transmission and inhibiting the PPC controls. The ROPS-FOPS cab, the excellent dynamic stability of the machine and a 360° visibility combine to give the operator complete confidence in any situation.

Brakes
The service and parking brakes are incorporated into the translation motors. They are hydraulic negative action brakes and can be set “on” or “off” with a button located on the board to the left of the operator. The brakes are always “on” when the engine is not running.
Multiple attachments
A wide range of attachments can be used with this machine, on many different job sites. Perfect for an everyday use on farms, building yards, industrial environments or harbours, the Komatsu skid steer loader stands in for manual labour with unparalleled versatility. The SK1020-5 is also available with an optional “Super Flow” hydraulic system, for using specialized attachments, and for extra power and flexibility.

Compact dimensions
Extremely compact, agile and fast, the SK1020-5 performs best in small places. Thanks to its short clearance circle and user friendly controls, steering operations are always possible in complete safety.
Easy Maintenance

**Easy access to inspection points**

Routine maintenance and check-ups can be performed by simply opening a rear bonnet that also allows the user to clean the inclinable radiators. For extra servicing, the tilting cab offers complete access to the transmission and to the main components of the hydraulic system. Special self-lubricating bushings increase the greasing intervals for all pins up to 250 hours.
Komatsu Satellite Monitoring System

KOMTRAX™ is a revolutionary machine tracking system designed to save you time and money. You can now monitor your equipment anytime and anywhere. Use valuable machine data received via the KOMTRAX™ web site to optimise your maintenance planning and machine performances.

With KOMTRAX™, you can:
• Check when & where your machines are at work
• Be informed of unauthorized machine use or movement
• Set and receive e-mail notification for security alarms

For further details on KOMTRAX™, please ask your Komatsu dealer for the latest KOMTRAX™ brochure.
## Specifications

### ENGINE

The new generation engine has been developed to comply with the strictest emission controls.

**Model** .......................................................... Komatsu SAD98E-2NFE

**Type** .......................................................... 4-cycle water-cooled diesel engine

**Bore × stroke** ................................................................. 98 × 100 mm

**No. of cylinders** .......................................................... 4

**Engine power**

- at rated engine speed .................................................... 2,500 rpm
- ISO 14396 .............................................................................. 63,9 kW / 85,7 HP
- ISO 9249 (net engine power) ..................................... 62,0 kW / 83,1 HP

**Max. torque/engine speed** ........................................ 235 Nm / 1,600 rpm

**Aspiration** .............................................................. turbo

**Cooling system** .......................................................... water

**Air filter type** .............................................................. dry with safety element

**Starter motor** ............................................................. electric motor with pre-heating air system for cold climate

### OPERATING WEIGHT

Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016) .......................................................... 3,420 kg

### HYDRAULIC SYSTEM

**Type** .......................................................... Komatsu CLSS

**Hydraulic pump** .......................................................... gear pump

**Max. pump flow** ......................................................... 80 ltr/min

**Max. operating pressure** .................................................. 210 bar

**Control valve** .......................................................... 3 elements fully servo-controlled SUPER FLOW hydraulic system (option):

- Max. pump flow ......................................................... 130 ltr/min
- Max. operating pressure .................................................. 210 bar

**Control valve** .......................................................... 3 elements

### TYRES

**Standard** .......................................................... 12-16.5 8PR

**Option** .......................................................... 12-16.5 8PR (narrow tread) 33 × 15.5-16.5 14PR (wide tyres)

### CONTROLS

Proportional servo-controls (PPC). The left lever controls the machine movements, the right one controls the working equipment. The pedal controls the auxiliary circuit for attachments. A safety system neutralises all operations when the safety bars are risen or the operator is not seated.

### TRANSMISSION

**Type** .......................................................... hydrostatic

**Pumps** .......................................................... 2 × variable displacement with 2 stage

**Hydraulic motors** .................................................. 2 × axial pistons

**Constant mesh final transmission with “heavy duty” type roller chains, which are immersed in an oil bath.**

**No. of travel speeds** .................................................. 2

**Max. travel speed** ....................................................... 16 km/h

**Oil immersed discs for both parking and working breaks with negative action and automatic insertion.**

### ELECTRIC SYSTEM

**Voltage** .......................................................... 12 V

**Battery** .............................................................. 100 Ah

**Alternator** ............................................................ 40 A

### SERVICE CAPACITIES

- **Hydraulic system** ....................................................... 50 ltr
- **Fuel tank** .............................................................. 73 ltr
- **Hydraulic transmission (chains)** ................................ 16 + 16 ltr
- **Engine oil** ............................................................ 12,5 ltr

### LOADER

- **Operating capacity (ISO 14397)** ................................ 905 kg
- **Tipping load (ISO 14397)** ........................................ 1,810 kg
- **Standard bucket capacity (ISO 7546)** ..................... 0,42 m³
- **Bucket breakout force (ISO 14397)** ....................... 2,242 daN (2,290 kg)
- **Max. loading height with forks** ............................ 2,910 mm
- **Max. reach with forks** ........................................... 2,210 mm

### ENVIRONMENT

**Vibration levels (EN 12096:1997)**

- Hand/arm .......................................................... ≤ 2,5 m/s² (uncertainty K = 1,2 m/s²)
- Body ................................................................. ≤ 0,5 m/s² (uncertainty K = 0,2 m/s²)

* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.
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Standard and Optional Equipment

**ENGINE**
- Komatsu SAD98E-2NFE turbocharged, direct injection diesel engine
- Alternator 40 A
- Battery 100 Ah

**TRANSMISSION**
- 2 speed transmission

**HYDRAULIC SYSTEM**
- Auxiliary hydraulic circuit for attachments
- Universal quick-coupler
- Bucket floating function
- SUPER FLOW version with 3 elements main valve (with drain line and electric connection)

**TYRES AND BRAKES**
- Standard tyres 12-16.5 8PR
- Automatic working and parking brakes
- Narrow tread tyres 12-16.5 8PR
- Wide tyres 33 × 15.5-16.5 14PR

**SERVICE AND MAINTENANCE**
- KOMTRAX™ - Komatsu satellite monitoring system
- Cyclone air pre-filter

**CABIN**
- ROPS / FOPS (Class 1) tilting cab
- Adjustable seat with safety belt
- Safety bars with incorporated display
- Instrument panel including:
  - hour meter
  - LCD fuel level indicator
  - LCD engine water temperature indicator
  - safety warning lights: operator onboard, safety bars lowered
  - other pilot lights: air filter clogging, engine oil pressure, generator, hydraulic oil filter, engine pre-heating, parking brake, working lights, direction indicators, floating
- Accelerator pedal
- 12 V external power supply
- Closed cab with side windows, door (with wiper) and heating or air conditioning
- Deluxe suspension seat with safety belt
- Fixed or sliding side windows
- 12 V internal power supply

**SAFETY EQUIPMENT**
- Back-up alarm
- Horn
- Battery main switch
- Rotating beacon
- Accessories for road homologation
- Rear view mirrors
- FOPS Class 2 cab

**LIGHTING SYSTEM**
- Two front working lights
- 2 rear working lights

**OTHER EQUIPMENT**
- Bucket self leveling
- Mudguards
- Additional modular rear counterweight (6 pieces, total 126 kg)

**ATTACHMENTS**
- 1,880 mm bucket with or without teeth
- 1,730 mm bucket with or without teeth
- 2,030 mm bucket with or without teeth
- Cutting edge on teeth
- Bolt-on cutting edge
- Pallet forks
- Lifting hooks

A wide range of attachments is available. Please consult your distributor for details of the full range.

Other attachments on request

- standard equipment
- optional equipment

Your Komatsu partner:

Komatsu Europe
International NV
Mechelsesteenweg 586
B-1900 VILVOORDE (BELGIUM)
Tel. +32-2-255 24 11
Fax +32-2-252 19 81
www.komatsu.eu

Materials and specifications are subject to change without notice.

Printed in Europe – This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.