CK20-1

CK30-1

ENGINE POWER
CK20-1: 52.1 kW / 69.9 HP @ 2,500 rpm
CK30-1: 63.9 kW / 85.7 HP @ 2,500 rpm

OPERATING WEIGHT
CK20-1: 3,750 kg - CK30-1: 4,290 kg

OPERATING CAPACITY
CK20-1: 930 kg - CK30-1: 1,130 kg

Skid Steer Loader
Walk-Around

The Komatsu CK20-1 and CK30-1 crawler skid steer loaders are powerful, fast and easy to use. These machines perfectly combine the compactness and manoeuvrability that typically characterise the wheeled versions, with the exceptional floating and traction ability of the tracks to offer an ideal solution for the toughest applications on soft and slippery soil.

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

**Highest safety standards**
- ROPS-FOPS cab
- Safety sensors
- Excellent all around visibility
- Negative action brakes
First-class operator comfort

• Spacious cab
• LCD panel
• Accelerator pedal

Easy serviceability

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

Crawler undercarriage

• Highest traction
• Excellent stability
• Reduced vibrations, higher comfort
• Long track life

ENGINE POWER
CK20-1: 52,1 kW / 69,9 HP @ 2.500 rpm
CK30-1: 63,9 kW / 85,7 HP @ 2.500 rpm

OPERATING WEIGHT
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OPERATING CAPACITY
CK20-1: 930 kg - CK30-1: 1.130 kg
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 CK20/30 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 CK20/30 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.
Undercarriage

The tracks ensure exceptional stability and traction on all types of soil including mud and snow, minimizing weather-related downtime. The wide base gives excellent stability to the machine, greatly reducing vibrations and increasing operator comfort. The hard steel ensures high resistance to all parts that are most subject to wear, such as gears, rollers and idlers. At the same time, a bigger section and multiple rubber covered steel reinforcements give the shoes a longer duration.
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.

The bonnet: quick engine check
The hatchback: simple inspection and cleaning of the radiators
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.
ENGINE
The new generation engine has been developed to comply with the strictest emission controls.
Model .............................................. Komatsu 4D98E-2NFE
Type ................................................ emissionised, direct injection, diesel engine, 16 valves
Displacement .................................................. 3.319 cc
Bore × stroke ................................................. 98 × 110 mm
N° of cylinders .................................................. 4
Engine power
at rated engine speed ............................................... 2.500 rpm
ISO 14396 ....................................................... 52,1 kW / 69,9 HP
SAE J1349 (net engine power) ......................... 51,8 kW / 69,5 HP
Max. torque .................................................. 235 Nm @ 1.600 rpm
Cooling system .................................................. water
Air filter .......................................................... dry with safety element
Starting ......................................................... electric motor with pre-heating air system for cold climate

OPERATING WEIGHT
Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016) .......................... 3.750 kg

HYDRAULIC SYSTEM
Type .................................................. Komatsu CLSS (Closed Load Sensing System)
Hydraulic pump ....................................................... gear pump
Std. flow ......................................................... 62 ltr/min
Max. pressure .................................................. 205 bar
Super flow (opt.) .................................................. 100 ltr/min
Max. pressure .................................................. 205 bar
Main valve ....................................................... 3 fully servo-controlled elements

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.

LOADER
Operating capacity (ISO 14397) ........................................ 930 kg
Tipping load (ISO 14397) ........................................ 2.660 kg
Standard bucket capacity (ISO 7546) ................................ 0,4 m³
Bucket breakout force (ISO 14397) .................. 1.716 daN (1.750 kg)

TRANSMISSION
Type .......................................................... hydrostatic
Pumps .......................................................... 2 × variable displacement
Hydraulic motors .............................................. 2 × axial pistons
Travel speeds .................................................. 2
Max. travel speed .............................................. 12 km/h
Max. drawbar pull ............................................... 3.678 daN
Oil immersed discs for both parking and working breaks with negative action and automatic insertion.

TRACKS
Standard track width ............................................. 320 mm
Ground pressure .............................................. 0,37 kg/cm²
Track rollers (each side) ........................................ 4
Track tensioning ................................................ grease

ELECTRIC SYSTEM
Voltage .......................................................... 12 V
Battery .......................................................... 100 Ah
Alternator ...................................................... 40 A

SERVICE CAPACITIES
Hydraulic system ............................................... 38 ltr
Fuel tank ....................................................... 64 ltr
Engine oil ...................................................... 12,5 ltr

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

**Model** Komatsu S4D98E-2NFE

**Type** emissionised, direct injection, turbo-charged diesel engine, 16 valves

**Displacement** 3,319 cc

**Bore × stroke** 98 × 110 mm

**N° of cylinders** 4

**Engine power**
- at rated engine speed 2,500 rpm
- ISO 14396 63,9 kW / 85,7 HP
- SAE J1349 (net engine power) 62,0 kW / 83,1 HP
- Max. torque 286 Nm @ 1,600 rpm

**Cooling system** water

**Air filter** dry with safety element

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

**OPERATING WEIGHT**

Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016) 4,290 kg

**HYDRAULIC SYSTEM**

**Type** Komatsu CLSS (Closed Load Sensing System)

**Hydraulic pump** gear pump

**Std. flow** 80 ltr/min

**Max. pressure** 205 bar

**Super flow (opt.)** 130 ltr/min

**Main valve** 3 fully servo-controlled elements

**LOADER**

Operating capacity (ISO 14397) 1,130 kg

Tipping load (ISO 14397) 3,220 kg

Standard bucket capacity (ISO 7546) 0,45 m³

Bucket breakout force (ISO 14397) 2,242 daN (2,280 kg)

**TRANSMISSION**

**Type** 2 x variable displacement hydrostatic

**Pumps** 2 x axial pistons

**Hydraulic motors** 2 x variable displacement

**Travel speeds** 2

**Max. travel speed** 12 km/h

**Max. drawbar pull** 4,185 daN

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

**TRACKS**

Standard track width 450 mm

Optional track width 320 mm

Ground pressure 0,32 kg/cm²

Track rollers (each side) 5

Track tensioning grease

**ELECTRIC SYSTEM**

Voltage 12 V

Battery 100 Ah

Alternator 40 A

**SERVICE CAPACITIES**

Hydraulic system 50 ltr

Fuel tank 73 ltr

Engine oil 12,5 ltr

**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.
## Skid Steer Loader

**CK20-1 / CK30-1**

### Standard and Optional Equipment

#### ENGINE
- Komatsu 4D98E-2NFE direct injection diesel engine (CK20-1)
- Komatsu S4D98E-2NFE turbocharged, direct injection diesel engine (CK30-1)
- Alternator 40 A
- Battery 100 Ah

#### 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)

#### TRANSMISSION
- 2 speed transmission

#### TRACKS
- 320 mm rubber shoes (CK20-1)
- 450 mm rubber shoes (CK30-1)
- 320 mm rubber shoes (CK30-1)

#### 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
- Tilting cab auxiliary device

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

#### OTHER EQUIPMENT
- Bucket self-leveling
- Additional modular rear counterweight (6 pieces, total 126 kg)
- Cold area arrangement

#### ATTACHMENTS
- 1,730 mm bucket with or without teeth (CK20-1)
- 2,030 mm bucket with or without teeth (CK30-1)
- 1,880 mm narrow bucket with or without teeth (CK20-1, CK30-1)
- 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

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