

KOMATSU

SK820-5



Skid steer loader

Engine power
36.2 kW / 48.5 HP @ 2600 rpm

Operating weight
3030 kg

Operating capacity
900 kg

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A user-friendly machine with **top class performance**



Outstanding performance

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

Easy serviceability

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

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

Total versatility

- Vertical lift design
- Wide range of attachments
- Available in "Super Flow" version

Komtrax

- Komatsu Wireless Monitoring System

Outstanding performance



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 SK820-5 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 SK820-5 can be equipped with an exclusive front door that fits under the roof, and with side windows and heating 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.



Highest safety standards

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.



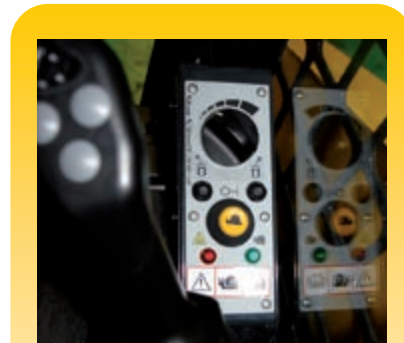
Total versatility

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 SK820-5 is also available with an optional "Super Flow" hydraulic system, for using specialized attachments, and for extra power and flexibility.

Vertical lift

The design of the vertical lift arm makes this model particularly suited for loading and unloading operations, particularly with a pallet fork. And because of this special design, the SK820-5 keeps the bucket reach constant throughout the whole trajectory. This allows higher tipping loads than for conventional models, along with increased ease-of-use and safety when working at maximum height.



Slow Speed Control (SSC)

The SSC option, with its simple and user-friendly continuous controller selector, always guarantees the efficient use of attachments such as a cold planer or a wheel saw.



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

Information & communication technology



Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.



The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.



Specifications

Engine

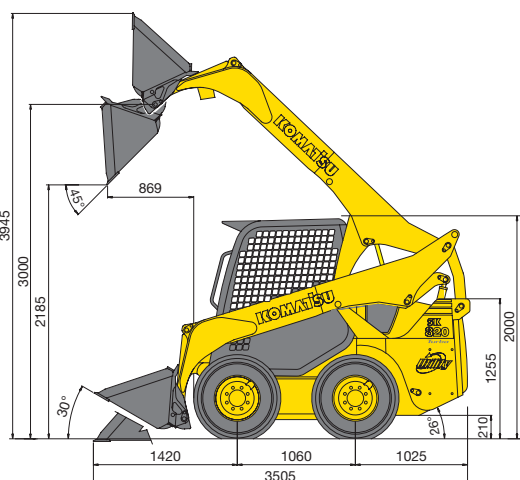
Model	Komatsu S4D84E-6BMFD
Type	4-cycle water-cooled diesel engine
Bore × stroke	84 × 90 mm
No. of cylinders	4
Engine power	
at rated engine speed	2600 rpm
ISO 14396	36.2 kW / 48.5 HP
ISO 9249 (net engine power)	35.0 kW / 46.9 HP
Max. torque / engine speed	156.9 Nm / 1700 rpm
Aspiration	turbo
Air filter type	Dry filter with safety element
Starting system	Electric motor with pre-heating air system for cold climate

Hydraulic system

Type	Komatsu CLSS, Closed Load Sensing System
Hydraulic pump	Gear pump
Max. pump flow	62 l/min
Max. operating pressure	206 bar
Control valve	3 elements fully servo-controlled
Super Flow hydraulic system (option)	
Max. pump flow	100 l/min
Max. operating pressure	206 bar
Control valve	3 elements

Loader

Operating capacity (ISO 14397)	900 kg
Tipping load (ISO 14397)	1800 kg
Standard bucket capacity (ISO 7546)	0.4 m ³
Bucket breakout force (ISO 14397)	1450 daN (1478 kg)
Operating capacity with pallet forks	600 kg



Operating weight (appr.)

Operating weight with standard bucket, fully serviced, +75 kg operator (ISO 6016)	3030 kg
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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.	

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.

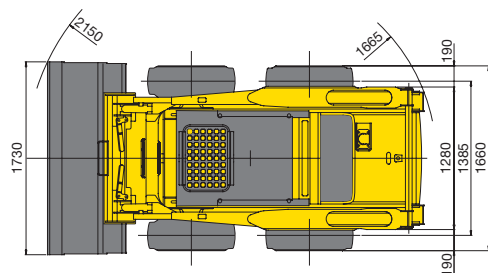
Environment

Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2.5 m/s ² (uncertainty K = 1.2 m/s ²)
Body	≤ 0.5 m/s ² (uncertainty K = 0.2 m/s ²)

Contains fluorinated greenhouse gas HFC-134a (GWP 1430).
Quantity of gas 0,7 kg, CO₂ equivalent 1,0 t.

Service capacities

Hydraulic system	38 l
Fuel tank	68 l
Hydraulic transmission (chains)	15.5 + 15.5 l
Engine oil	8 l
Cooling system	9 l
Windscreen washer fluid	1 l



Standard and optional equipment

Engine

Komatsu S4D84E-6BMFD turbocharged, direct injection diesel engine	●
Alternator 55 A	●
Battery 80 Ah	●
Catalytic muffler	○

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)	○
Slow Speed Control (SSC)	○

Transmission

2 speed transmission	●
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Tyres and brakes

Standard tyres 10-16.5 8PR	●
Automatic working and parking brakes	●
Narrow tread tyres 10-16.5 8PR	○

Service and maintenance

Komtrax – Komatsu wireless monitoring system (4G)	●
ORBCOMM (satellite communication)	○
Cyclone air pre-filter	○

Safety equipment

Back-up alarm	●
Horn	●
Battery main switch	●
Rear view mirrors	●
Rotating beacon	○
Accessories for road homologation	○
FOPS Class 2 protection on top of cab roof	○

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	●
Closed cab with door (with wiper) and heating	○
Closed cab with door (with wiper) and air conditioning	○
Deluxe suspension seat with safety belt	○
Fixed or sliding side windows	○
12 V internal power supply	○

Lighting system

Two front working lights	●
2 rear working lights	○

Loader attachments

1730 mm bucket with or without teeth	●
1550 mm bucket with or without teeth	○
1580 mm bucket with or without teeth	○
Cutting edge on teeth	○
Bolt-on cutting edge	○
Cab lifting hooks	○

Other equipment

Bucket self leveling	●
Mudguards	○
Additional modular rear counterweight (6 pieces, total 126 kg)	○
Pallet fork with 800 mm teeth	○

Further equipment on request

- standard equipment
- optional equipment

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.

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