

KOMATSU®

SK820-5

NET HORSEPOWER
40.3 kW **54 HP** @ 2800 rpm

OPERATING WEIGHT
2940 kg **6,480 lb**

SK
820

SKID STEER LOADER



Photos may include optional equipment.

WALK-AROUND

Maximum Performance and Precise Control

Komatsu's smooth and precise hydraulic system lets the operator feel the performance of the machine. The three-spool open center control valve is designed for both single and simultaneous movements to achieve excellent controllability in the positioning of the bucket.

Standard Universal Attachment Quick Coupler

A universal quick coupler enables common attachments to be changed quickly and with little effort. The Komatsu coupler is compatible with all attachments utilizing the universal skid steer coupler. Auxiliary hydraulics with flat faced connectors are standard equipment as well.

Easy to use Travel and Loader PPC Joysticks

Low effort Proportional Pressure Control (PPC) joysticks operate travel and loader functions. Easy to use PPC controls help operators of all skill levels work precisely and efficiently all day long.

Two-Speed Travel

Komatsu's standard equipment two-speed travel system allows for low impact shift-on-the-go speed changes between 10.5 kph **6.5 MPH** work range and 16 kph **10 MPH** travel range. This feature allows the operator to reduce load and carry cycle times as well as travel times between job sites.

Vertical Lift-arm Design

Komatsu's vertical lift-arm design makes it desirable for loading and unloading operations (especially with pallet forks). The front reach is kept virtually constant throughout the entire lift cycle.

Auxiliary Hydraulic Control

The auxiliary hydraulic control provides excellent hydraulic power to front mounted hydraulic attachments. The auxiliary hydraulic flow can be metered from 1 to 16 GPM in either direction or locked into continuous full flow. An auxiliary override option is available allowing the operation of attachments requiring the operator to be outside the cab.



Automatic Power Control (APC)

Patented Komatsu Automatic Power Control hydrostatic travel system is designed to allow full utilization of engine power. The operator can work with full engine power during the toughest job site applications without worrying about engine stall outs.

Outstanding Visibility

The large top and rear tempered glass windows, sloping hood, elevated seat platform, and the large side screen area offer a superior view of the bucket, cutting edge, and work area providing an excellent view of the work at hand as well as the job site.

NET HORSEPOWER

40.3 kW **54 HP** @ 2800 rpm
Turbocharged, diesel engine

OPERATING WEIGHT

2940 kg **6,480 lb**

1050 mm **41.3"**

Long Wheel Base

"APC"

Automatic Power Control

16.0 kph **10 MPH Max.**
Travel Speed

Super Flow Hydraulics (Optional)

The Super Flow Hydraulic system increases the available oil flow for attachments from 16 GPM to 26 GPM and includes case-drain and electrical connections. The joystick mounted control system incorporates momentary reverse flow and multiple electrical inputs enabling the SK820 to power most attachments, making it a very flexible and productive machine.

Intelligent Operator Controls

Komatsu has enhanced operator productivity and efficiency with technologically advanced controls and information systems. The operator arm rest bar incorporates a LCD gauge panel and warning light system. The joystick control levers include switches for horn, two speed travel, loader arm float, and attachment control functions.

Long Wheel Base

The Komatsu SK820 skid steer loader has one of the longest wheel bases in its class, 1050 mm **41.3"**, giving the operator a stable ride and an excellent platform for operating high production attachments.



Photos may include optional equipment.

Enhanced Loader Arm and Bucket Control

The hydraulic self leveling (up only) bucket with 1795 kg **3950 lbs.** breakout force enhances the productivity of the operator on the job site. The 30° rollback angle and 45° dump of the bucket provide good load retention over rough terrain and good material flow in the dump cycle.

OPERATORS COMPARTMENT

Superior Engine Control

The engine speed can be controlled by either the hand throttle, the foot accelerator, or in combination for tight work sites. The ability to regulate engine speed allows the operator to improve fuel economy and reduce noise levels.

Effective Operator Cab Environment

All instrumentation is within the peripheral view of the operator. The function switches are waterproof and placed within easy reach of the operator for comfort and convenience.

Control Pattern Change Valve Lever (Optional)

Convert from the standard ISO control pattern to the optional control pattern with the flip of a lever. This allows the Komatsu Skid Steer Loader to be customized to meet the individual operator's needs. This option is especially useful for rental centers allowing different operators to efficiently use the same machine.

Enhanced Operator Comfort

The operator arm rest bar is ergonomically designed to provide forearm support and incorporates an operator presence switch, which deactivates the travel and hydraulic circuits while activating the travel brakes when the operator leaves the machine. A retractable seat belt is provided as standard equipment.



Split Designed Operator Arm Rest Bar

The split designed operator arm rest bar is easily engaged from the left and right side. The gauges and indicator lights are incorporated into the arm rest bar for enhanced operator efficiency, comfort, and confidence.

**SPLIT DESIGNED OPERATOR
ARM REST BAR**

PPC JOYSTICK CONTROLS

**PATTERN CHANGE
VALVE LEVER**

**SUPERIOR OPERATOR
ENVIRONMENT**

Enhanced Operator Controls

The gauge panel, warning, and indicator lights are mounted on the operator arm rest bar. Monitoring of all critical machine functions is easy, convenient, and doesn't distract the operator from the job at hand.

Easy to use Travel and Loader PPC Joystick

Low effort Proportional Pilot Control (PPC) joysticks operate travel and loader functions. Easy to use PPC controls help operators of all skill levels work precisely and efficiently all day long.

Auxiliary Hydraulic Control

The auxiliary hydraulic control provides excellent hydraulic power to front mounted hydraulic attachments. The auxiliary hydraulic flow can be metered from 1 to 16 GPM in either direction or locked into continuous full flow. An auxiliary override option is available allowing the operation of attachments requiring the operator to be outside the cab.



SERVICEABILITY

Tilt-Forward ROPS/FOPS, Top Engine Cover and Floor Plate

Another patented feature allows the Komatsu cab and engine hood to tilt with the loader arms in the raised or lowered positions. This provides exceptional access to the engine, hydraulic, and mechanical components.

250 Hour Pin Greasing Interval

Minimizes daily downtime, reduces owning and operating costs. The special bronze bushings are specially treated and accompanied with dust seals.

Removable Polyvinyl Fuel Tank

The fuel tank is constructed of polyvinyl plastic, corrosion resistant, and guards against condensation. A large opening with a strainer allows for easy re-fueling and an external level indicator is visible to ensure safety during re-fueling. The fuel tank is easily removed with a fuel shut-off and quick release.



O-Ring Face Seal Fittings and Connectors

Specific torque settings are not required for optimal performance. The fitting and connectors have a low sensitivity to vibration and are reusable even after several disassemblies.

Side-by-Side Radiator and Oil Cooler

The radiator and oil cooler tilt out for cleaning from either side and allow for additional inspection and access.

Hinged Top Engine Cover and Rear Door Panel

The top engine cover opens out of the way and the hinged rear door swings open allowing excellent access for daily service checks.

Multi-Viscosity Oil Can Be Used for All Fluid Requirements

The engine oil, hydraulic oil and chain case oil utilize the same grade of multi-viscosity oil.



ENGINE-EPA CERTIFIED

Model	Komatsu S4D84E-1FD
Type	Diesel engine, 4 cycle
Bore x stroke	.84 x 90 mm 3.31 x 3.54 in
Number of cylinders	4
Displacement	2.0 ltr 122 in³
Combustion	Direct injection
Aspiration	Turbocharged
Rated power: (SAE J1349)	40.3 kW 54 HP @ 2800 rpm
Max. torque	157 Nm 116 ft. lb. @ 1800 rpm
Cooling system	Water
Air filter	Dry type with dual element
Starting system	Electric motor with pre-heating air system for cold weather 0° C (32° F)



TRANSMISSION

Type	Hydrostatic
Pumps	2 x variable displacement with 2 stage and APC system
Motors	2 x axial pistons with two speeds
Final transmission with heavy duty type roller chains immersed in oil bath connected to the four driving axles	
Speeds: - Working	10.5 km/h 6.5 mph
- Travel	16 km/h 10.0 mph
Sealed wet-disc parking brakes with automatic engagement when operator exits the cab	



HYDRAULIC SYSTEM

Type	Komatsu
Pump	Gear
Max. flow - auxiliary hydraulic	.60 ltr./min 16 gal/min
Max. pressure - auxiliary hydraulic	.210 bar 3,045 psi
Control valve	3 elements fully Servo-controlled

High flow auxiliary hydraulic system "SUPER FLOW" (OPTIONAL):

Max. flow	100 ltr./min 26 gal/min
Max. pressure	.210 bar 3,045 psi



LOADER

Performance without rear counterweights	
Operating load (ISO 5998)	.864 kg 1,900 lb.
Tipping load (ISO 8313)	1727 kg 3,800 lb.
Bucket breakout force (ISO 8313) with short lip bucket	1905 kg 4,200 lb.
Bucket breakout force (ISO 8313) with long lip bucket	1601 kg 3,530 lb.



STANDARD EQUIPMENT

- Accelerator pedal
- Adjustable seat with retractable seat belt
- Wet-disc parking brakes
- Automatic Power Control system (anti-stall)
- Backup alarm
- Auxiliary hydraulics
- Cup holder
- Central Monitor Panel including hour meter, fuel level indicator, engine coolant temperature gauge. Warning lights: alternator, engine oil pressure, air filter restriction, hydraulic oil filter restriction, working lights, parking brakes, travel speed, float function and engine preheat
- Halogen working lights (2 front)
- Horn
- Top window
- Rear window
- Loader arm float function
- Two-speed transmission
- ROPS-FOPS (Level I) open canopy
- Operator arm rest bar with sensor for parking brakes & hydraulic system lock-out
- Universal front attachment coupler
- Bucket self-leveling (up only)



OPTIONAL EQUIPMENT

- 12 volt electrical outlet
- Amber rotating beacon
- Auxiliary hydraulics over-ride control
- Cab enclosure with heater and defroster
- Control pattern change valve
- Lifting hooks on cab roof
- Master electrical disconnect switch
- Rear counterweights
- Ride control
- SUPERFLOW auxiliary hydraulics version, with additional auxiliary hydraulic circuit for attachments
- Suspension seat
- Working lights (2 rear)



CONTROLS

Proportional Pressure Control (PPC) joystick levers. The left hand joystick controls the travel, the right joystick controls the loader equipment. The PPC foot pedal controls the auxiliary hydraulic circuit for attachments. An operator presence neutralizes control system when the operator exits the cab. Control pattern change valve is optional equipment. The optional control pattern splits the travel and the loader controls between both joystick levers.



ELECTRIC SYSTEM

Rated voltage	12 V
Battery	.80 Ah
Alternator	.40 A



SERVICE REFILL CAPACITIES

Hydraulic system	38.0 ltr. 10.0 US gal.
Fuel tank	53.0 ltr. 14.0 US gal.
Chain cases	31.0 ltr. 8.0 US gal.
Engine oil	8.0 ltr. 2.0 US gal.
Engine coolant	8.0 ltr. 2.0 US gal.



TIRES

Optional	10-16.5 8PR heavy duty flotation tires 31x15.5 - 15 8PR super wide flotation tires
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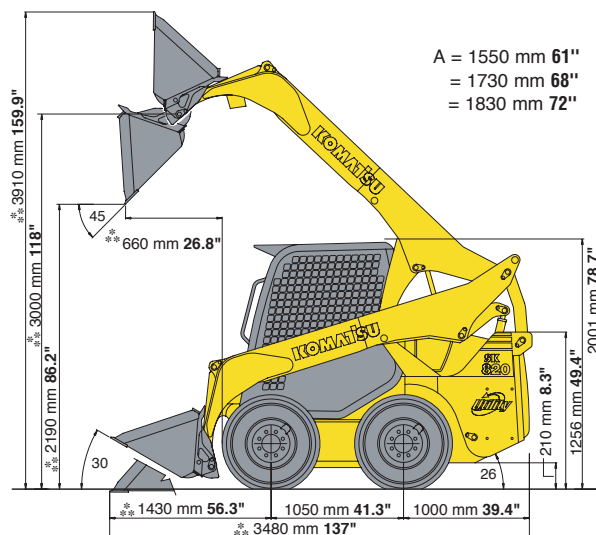


OPERATING WEIGHT

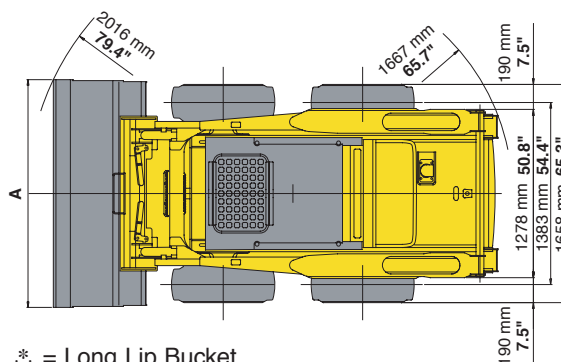
Operating weight of machine with standard bucket, full tank of fuel and an 80 kg 176 lb operator (ISO 6016)	2940 kg 6,480 lb.
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DIMENSIONS



A = 1550 mm 61"
= 1730 mm 68"
= 1830 mm 72"



** = Long Lip Bucket

Bucket		Base Machine with 1730 mm 68" Long Lip Bucket		Base Machine with 126 kg 278 lb. Counterweights & 1730 mm 68" Long Lip Bucket		Base Machine with 120 kg 265 lb. Counterweights & 1219 mm 48" Pallet Forks	
Bucket capacity	SAE rated	0.43 m ³	0.56 yd³	0.43 m ³	0.56 yd³	N/A	N/A
Bucket width		1730 mm	68"	1730 mm	68"	N/A	N/A
Bucket weight (1219 mm 48" Pallet fork weight)		195 kg	430 lb	195 kg	430 lb	172 kg	378 lb
Static tipping load		1727 kg	3,800 lb	1909 kg	4,200 lb	1300 kg	2,860 lb
Operating capacity - 50% of tipping load		864 kg	1,900 lb	955 kg	2,100 lb	650 kg	1,430 lb
Dump clearance, maximum height and 45° dump angle		2190 mm	86.2"	2190 mm	86.2"	N/A	N/A
Height to bucket hinge pin		3000 mm	118"	3000 mm	118"	3000 mm	118"
Reach at maximum height and 45° dump angle		680 mm	26.8"	680 mm	26.8"	N/A	N/A
Operating height	Fully raised	3910 mm	159.9"	3910 mm	159.9"	N/A	N/A
Clearance circle-front		2135 mm	84"	2135 mm	84"	2135 mm	84"
Clearance circle-rear		1665 mm	65.5"	1665 mm	65.5"	1665 mm	65.5"
Operating weight		2940 mm	6,480 lb	3066 mm	6,745 lb	3043 kg	6,695 lb

• All dimensions, weights, and performance values based on SAE J732c and J742b standards. Static tipping load and operating weight shown include 10.00 x 16.5 8PR tires, lubricant, coolant, full fuel tank, ROPS canopy, and operator. Machine stability and operating weight are affected by counterweight, tire size, and other attachments.

N/A - Not applicable

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

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