

KOMATSU®

SK1020-5

NET HORSEPOWER
62 kW **84 HP** @ 2500 rpm
(Turbocharged)

OPERATING WEIGHT
3435 kg **7,573 lb**

SK
1020

SKID STEER LOADER



Photos may include optional equipment.

WALK-AROUND

Easy to use Travel and Loader PPC Joysticks

Low effort Proportional Pressure Control (PPC) joysticks operate travel and loader operations. Easy to use PPC controls help operators of all skill levels work precisely and efficiently all day long – with minimum effort and reduced operator fatigue.

Maximum Performance and Precise Control

Komatsu's smooth and precise hydraulic system lets the operator feel the performance of the machine. The threespool 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. Auxiliary hydraulics with flat faced connectors are standard. Most competitors' attachments can be utilized on Komatsu's skid steer loaders.

Two-Speed Travel (standard)

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. Improves load and carry cycle times and travel times between job sites.

Auxilliary Hydraulic Control

The auxilliary hydraulic control provides excellent hydraulic power to front mounted hydraulic attachments. The auxilliary hydraulic flow can be metered from 1 to 21 GPM in either direction or locked into continuous full flow. An auxilliary override option is available allowing the operation of attachments requiring the operator to be outside the cab.

Long Wheel Base

The Komatsu SK1020 skid steer loader has one of the longest wheel bases in its class, 1160 mm **45.7"**, giving the operator a more stable ride and a better platform for operating high flow attachments.



Photos may include optional equipment.

Automatic Power Control "APC"

Patented Komatsu anti-stall hydraulic system 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.

Outstanding Visibility

Work with confidence and increased productivity. The standard top and rear shatter resistant windows, large side screen area as well as a superior view of the bucket, cutting edge and corners give the operator excellent 360° job site visibility.

Optional "Super Flow" Auxiliary Hydraulics

The optional "Super Flow" auxiliary hydraulic circuit enables the SK1020 to utilize many high flow attachments. Cold planers, stump grinders, flail mowers and other attachments can be easily operated with the PPC joysticks.

Intelligent Operator Controls

Komatsu has enhanced operator productivity and efficiency with their technologically advanced controls and information systems. The operator arm rest bar incorporates an 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.

Enhanced Loader Arm and Bucket Control

The hydraulic self leveling (up only) bucket with 2290 kg **5,038 lb** breakout force enhances the productivity of the operator on the job site. The 45° dump and 30° rollback angles of the bucket allow for a faster dump cycle and load retention over rough terrain.

NET HORSEPOWER

62 kW **84 HP @ 2500 rpm**
[TurboCharged]

OPERATING WEIGHT

3435 kg **7,573 lb**

1160 mm **45.7"**

Long Wheel Base

"APC"

Automatic Power Control

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



OPERATORS COMPARTMENT

Superior Engine Control

The engine RPM's can be controlled by either the hand throttle, the foot accelerator, or in combination for tight work sites.

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 Komatsu pattern to the optional pattern with the flip of a lever. This allows the Komatsu skid steer loader to be customized to meet the individual operators needs. Especially useful for rental centers or whenever different operators need to use the machine on the job site.

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.

Enhanced Operator Controls

The gauge panel, warning and indicator lights are mounted on the arm rest bar. Monitoring of all critical machine functions is easy, convenient and doesn't distract the operator from the job at hand. The control pattern is back lit to identify which pattern is in operation.

**SPLIT DESIGNED OPERATOR
ARM REST BAR**

PPC JOYSTICK CONTROLS

**PATTERN CHANGE
VALVE LEVER**

**SUPERIOR OPERATOR
ENVIRONMENT**

***PPC Joystick Controls***

Another advanced feature is the low effort Proportional Pressure Control (PPC) joysticks that operate travel and loader operations. Easy to use PPC controls help operators of all skill levels work precisely and efficiently all day long – with minimum effort and reduced operator fatigue.

Auxiliary Hydraulic Control

The auxiliary hydraulic control provides excellent hydraulic power to front mounted hydraulic attachments. The foot pedal can be utilized with Komatsu or optional control pattern.

SERVICEABILITY

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

This patented feature allows the cab to tilt with the loader arms down or up. Access to the engine, hydraulic and hydrostatic components is easily achieved.

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 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 are accessible for cleaning from either side and are tiltable for additional inspection.

Hinged Top Engine Cover and Rear Door Panel

The top engine cover opens out of the way for excellent engine access and the hinged rear door allows for convenient 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.

Loader Arm Maintenance Support Strut

Allows the operator to engage or disengage the maintenance support strut without leaving the operator's seat.



ENGINE-EPA TIER 2 CERTIFIED

| | |
|---------------------|--|
| Model | Komatsu SD4 98E-2 NFE |
| Type | Diesel engine, 4 cycle |
| Bore x stroke | .98 x 110 mm 3.85 x 4.334 in |
| Number of cylinders | 4 |
| Displacement | 3.4 ltr 203 in³ |
| Combustion | Direct injection |
| Aspiration | Turbocharged |
| Rated power: | |
| (SAE J1349) | .62.0 kW 84 HP @ 2500 rpm |
| Max. torque | .286 Nm 211 ft. lb. @ 1600 rpm |
| Cooling system | Water |
| Air filter | Dry type, 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 | .10.0 km/h 6.5 mph |
| - Travel | .16.0 km/h 10.0 mph |
| Sealed wet-disc parking brakes with automatic engagement when operator exists the cab. | |



HYDRAULIC SYSTEM

| | |
|--|------------------------------------|
| Type | Komatsu |
| Pump | Gear |
| Max. flow - auxiliary hydraulic | .80.0 ltr./min 21.0 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 | .130 ltr./min 34 gal/min |
| Max. pressure | .210 bar 3,045 psi |



LOADER

| | |
|--|---------------------------|
| Performance without rear counterweights | |
| Operating load (ISO 5998) | .907 kg 2,000 lb. |
| Tipping load (ISO 8313) | .1814 kg 4,000 lb. |
| Bucket breakout force (ISO 8313) with short lip bucket | 2290 kg 5,038 lb. |
| Bucket breakout force (ISO 8313) with long lip bucket | .1940 kg 4,279 lb. |



STANDARD EQUIPMENT

- Accelerator pedal
- Adjustable seat with 76 mm 3" 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

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



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. Control levers are inoperative when the operator arm rest is raised or the operator is not seated. 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 | .100 Ah |
| Alternator | .40 A |



SERVICE REFILL CAPACITIES

| | |
|------------------|--------------------------------|
| Hydraulic system | .50.0 ltr. 13.0 US gal. |
| Fuel tank | .73.0 ltr. 19.0 US gal. |
| Chain cases | .32.0 ltr. 8.3 US gal. |
| Engine oil | .12.5 ltr. 3.2 US gal. |
| Engine coolant | .8.0 ltr. 2.0 US gal. |



TIRES

| | |
|----------|--|
| Optional | .12-16.5 10PR heavy duty flotation tires |
| | 33 x 15.5-16.5 10PR super wide flotation tires |

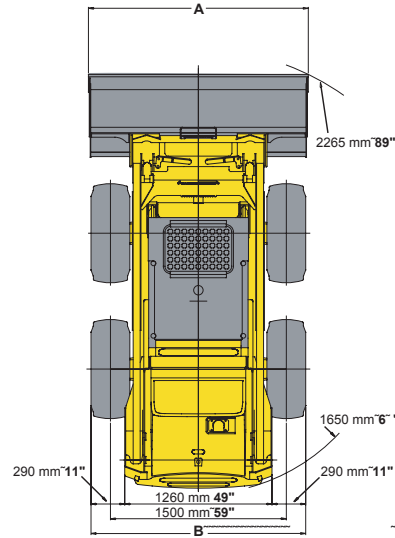
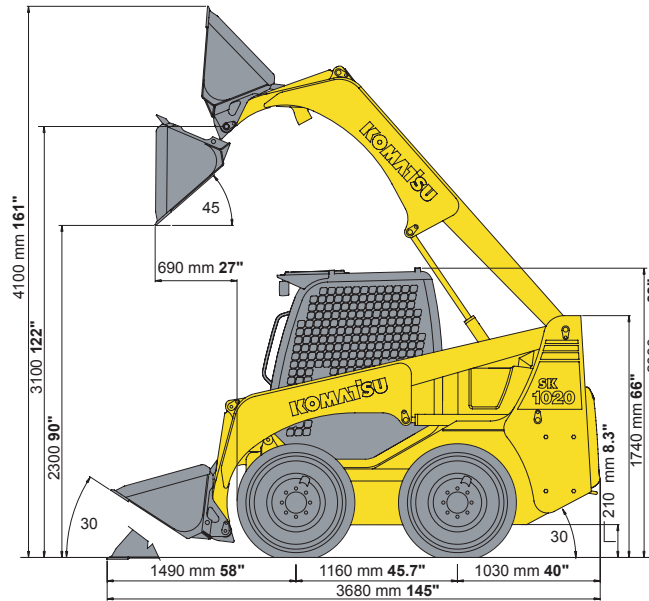


OPERATING WEIGHT

Operating weight of machine with standard bucket, full tank of fuel and an 80 kg **176 lb** operator (ISO 6016) 3435 kg **7,573 lb.**



DIMENSIONS



A = 1730 mm 68"
 = 1880 mm 74"
 = 2030 mm 80"

B = 1675 mm 66" with
 12.00 x 16.5 tires
 narrow width
 = 1830 mm 72" with
 12.00 x 16.5 tires
 wide width
 = 1980 mm 78" with
 33.00 x 15.5 x 16.5 tires
 super wide width

Dimensions are shown using a long-lip loader bucket.

| Bucket | | Base Machine with 1880 mm 74" Long Lip Bucket | | Base Machine with 120 kg 265 lb. Counterweights & 1880 mm 74" Long Lip Bucket | | Base Machine with 120 kg 265 lb. Counterweights & 1219 mm 48" Pallet Forks | |
|--|--------------|--|----------------------------|--|----------------------------|---|-----------------|
| | | | | | | | |
| Bucket capacity | SAE rated | 0.47 m ³ | 0.61 yd³ | 0.47 m ³ | 0.61 yd³ | N/A | N/A |
| Bucket width | | 1880 mm | 74" | 1880 mm | 74" | N/A | N/A |
| Bucket weight (1219 mm 48" Pallet fork weight) | | 211 kg | 465 lb | 211 kg | 465 lb | 172 kg | 378 lb |
| Static tipping load | | 1814 kg | 4,000 lb | 1996 kg | 4,400 lb | 1309 kg | 2,880 lb |
| Operating capacity - 50% of tipping load | | 907 kg | 2,000 lb | 998 kg | 2,200 lb | 655 kg | 1,440 lb |
| Dump clearance, maximum height and 45° dump angle | | 2300 mm | 90.5" | 2300 mm | 90.5" | N/A | N/A |
| Height to bucket hinge pin | | 3100 mm | 122" | 3100 mm | 122" | 3100 mm | 122" |
| Reach at maximum height and 45° dump angle | | 690 mm | 27.1" | 690 mm | 27.1" | N/A | N/A |
| Operating height | Fully raised | 4100 mm | 161" | 4100 mm | 161" | N/A | N/A |
| Clearance circle-front | | 2265 mm | 89.2" | 2265 mm | 89.2" | 2286 mm | 90" |
| Clearance circle-rear | | 1650 mm | 64.9" | 1650 mm | 64.9" | 1650 mm | 64.9" |
| Operating weight | | 3435 kg | 7,573 lb | 3560 kg | 7,848 lb | 3528 kg | 7,761 lb |

• All dimensions, weights, and performance values based on SAE J732c and J742b standards. Static tipping load and operating weight shown include 12.00 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.

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.

KUSS153-05

©2009 Komatsu America Corp.

Printed in USA

K06(3M)CCi

06/09 (EV-1)

