

KOMATSU

Utility

SK
818-5



SK818-5

SK818-5

SKID STEER LOADER

NET POWER
SAE J1349
34,7 kW

OPERATING WEIGHT
2.910 kg

OPERATING CAPACITY
870 kg

SK818-5 SKID STEER LOADER

Power, ease-of-use, and simplicity-of-operation are the principal advantages of the new KOMATSU SK818-5 compact loader, designed for vertical lifting. The kinematic motion of the arm optimises the performance of the machine in terms of lifting force and reach. This makes it ideal for handling and lifting pallets.

Hydraulic Servocontrols

The PPC servocontrols are simple to use. The one on the right controls the movements of the arm and the bucket, while the one on the left controls the travel functions. These allow the machine to be manoeuvred with the finest precision and minimal effort.

Engine

The KOMATSU engine, compliant with the European EURO 2 emission standards, guarantees the power and torque required for every work situation. In addition, the low noise levels and vibrations improve the working conditions for the operator, as well as everyone else near the machine.

Hydraulic System

The CLSS hydraulic system (*closed load sensing system*) guarantees progressive control, precision, and smoothness in all movements. Moreover, it combines power and speed that always perfectly match the requirements of the work at hand. Two two-stage axial piston pumps allow this compact loader to travel at 16 km/h in second gear (standard).

Comfort

From the ergonomics of the controls to the space in the cab, from the adjustable seat to the low operating noise, everything has been designed to create a safe, comfortable environment for the operator. This makes work as easy and effortless as possible.





Safety

A sophisticated system of sensors on the safety bars on the seat disables all movements if unauthorised manoeuvres are attempted. This is done by automatically activating a brake on the transmission. The ROPS-FOPS cab, excellent dynamic stability, and 360° visibility allow the operator to work in complete tranquillity at all times.

Instrumentation

The newly designed, KOMATSU-patented dashboard, mounted on the safety bar, is always visible to the operator.

Versatility

The design of the vertical lift arm makes this model especially suitable for loading and unloading operations, even with pallet forks. The arm's kinematic motion is unique, in that the front reach is kept virtually constant over the entire lifting height. It handles higher tipping loads than conventional models, as well as having greater ease and safety when working at the maximum height. The auxiliary hydraulic circuit allows the use of a vast range of equipment, making the SK818-5 the ideal product in terms of versatility and performance.

Super Flow

The Super Flow system increases the flow of available oil to the equipment, and features a drainage system and electrical connections. The joysticks and the proportional pedal allow control over all system functions. A second hydraulic circuit is available for equipment that requires simultaneous movements.

Super Flow circuit flow-rate: 130 (120*) l/min

Second circuit flow-rate: 80 (10*) l/min

* Flow-rate for the combined operation of the two circuits.



Maintenance

A simple opening of the engine bonnet makes refilling and regular checks easy. The tilting radiators can be easily reached by opening the rear door. A single lock for the bonnet and door protects all service and refill points.

- Pins with extended greasing intervals (250 hours)
- Battery with charge gauge
- Air filter with safety cartridge
- Removable tank
- See-through gas oil filter
- Environmentally-friendly draining systems.



Tilting Cab

The combined tilting of the cab, engine bonnet and footboard (patented system) ensures complete access to all of the components. This allows extraordinary maintenance operations to be performed from several positions.



SPECIFICATIONS



ENGINE

A new generation of engine developed to comply with the stricter emission controls (EURO 2).

Model Komatsu 4D88E-1FD
 Type diesel engine, 4 in line cylinders
 Bore x stroke 88x90 mm
 N° of cylinders 4

Combustion direct injection
 Aspiration natural
 Max power 37 kW
 Rated power:
 (SAE J1349) 34,7 kW / 47,2 HP - 2.800 rpm
 (80/1269/EC) 34,0 kW / 46,2 HP - 2.800 rpm
 Max Torque 142 Nm - 1.800 rpm

Cooling system water
 Air filter dry with safety element
 Starting system electric motor with pre-heating air system for cold climate



OPERATING WEIGHT

Operating weight of machine with standard bucket, full tank of fuel and a 80 kg operator (ISO 6016) 2.910 kg



HYDRAULIC SYSTEM

Type Komatsu CLSS (Closed Load Sensing System)
 Pump gear
 Max flow 62 l/min
 Max pressure 210 bar
 Control valve 3 elements fully Servo-controlled

Front equipment hydraulic system "SUPER FLOW" (Optional):

Max flow 100 l/min
 Max pressure 210 bar
 Control valve 3 or 4 elements



CONTROLS

Proportional Servo-controls (PPC). The left hand lever controls the machine movements, the right one controls the working equipment. The PPC 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 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 are always oil connected with the four driving wheels.
 Speeds: - Working 10,5 km/h
 - Travel 16 km/h
 Oil immersed discs for both parking and working breaks with negative action and automatic insertion.



TYRES

Standard 10-16.5 8PR
 Optional 10-16.5 8PR (narrow tread)
 10-16.5 (Airboss)
 31 x 15.5 -15 8PR



ELECTRIC SYSTEM

Rated voltage 12 V
 Battery 80 Ah
 Alternator 40 A



REFILLS

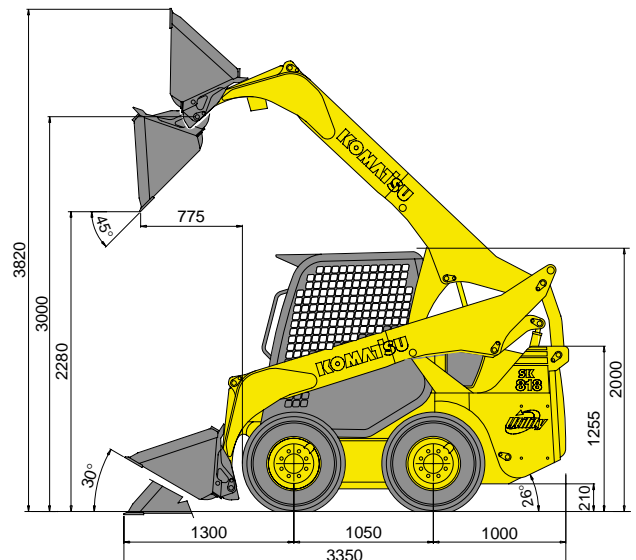
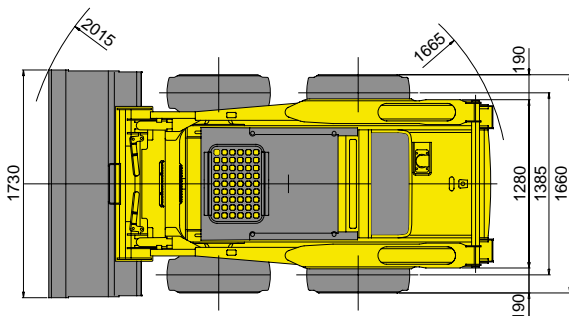
Hydraulic system 38 l
 Fuel 47 l
 Hydraulic transmission (chains) 15,5 + 15,5 l
 Engine oil 8 l



LOADER

Operating load (ISO 5998) 870 kg
 Tipping load (ISO 8313) 1.740 kg
 Standard bucket capacity (ISO 7546) 0,4 m³
 Bucket breakout force (ISO 8313) 1.867 daN (1.950 kg)
 Max loading height with forks 2.800 mm
 Max reach with forks (teeth) 1.875 mm

DIMENSIONS



SK818-5 SKID STEER LOADER

STANDARD EQUIPMENT

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|---|--|---|
| <ul style="list-style-type: none"> • ROPS-FOPS tilting cab • Adjustable seat with safety belts • Safety bars • 2-speed transmission • 2 front working lights • Instrumentation including: counter - LCD fuel gauge - LCD engine water temperature gauge - safety device | <ul style="list-style-type: none"> • warning lights: operator on board, safety bars lowered - other warning lights: clogged air filter, engine oil pressure, alternator, hydraulic oil filter • Automatic parking and working brake • Horn • Accelerator pedal | <ul style="list-style-type: none"> • Self-levelling bucket • Auxiliary hydraulic circuit for attachments • 12V power outlet outside • 10-16.5 8PR tyres • Quick hitch: Universal or KOMATSU • 1.730 mm bucket with or without teeth |
|---|--|---|

OPTIONAL EQUIPMENT

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|--|---|---|
| <ul style="list-style-type: none"> • Bucket float • SUPER FLOW version with 3-element valve (fitted with drain line and electrical line) • SUPER FLOW version with 4-element valve (fitted with drain line and electrical line), with additional auxiliary hydraulic circuit for multi-function equipment • Road homologation • Adjustable seat with shock absorber and safety belts • 10-16.5 8PR tyres with narrow track • Wide tyres, 31x15.5-15 8PR • Airboss tyres, 10-16.5 | <ul style="list-style-type: none"> • Narrow bucket (1.550 mm) with or without teeth • Wide bucket (1.800 mm) with or without teeth • Blade under teeth • Bolted blade (instead of teeth) • 2 rear working lights • Rotating beacon • Pallet fork • Back-up alarm • Rear-view mirrors • Lifting hooks • Side windows • 12V power outlet inside • FOPS class 2 cab | <ul style="list-style-type: none"> • Closed cab with side windows, door (with wiper) and heating • Backhoe pre-setting • Rear hydraulic stabiliser • Load stabiliser system (LSS) • Centrifugal air pre-filter • Master disconnect switch • Catalytic exhaust silencer • Mudguards • Cold climate version • Modular 126kg rear counterweight (6 pieces) |
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COMPANY WITH
 ENVIRONMENTAL MANAGEMENT
 SYSTEM CERTIFIED BY DNV
ISO 14001