

# KOMATSU®

## CK35-1

**NET HORSEPOWER**  
62.6 kW **84 HP** @ 2500 rpm

**OPERATING WEIGHT**  
4560 kg **10,053 lb**

**CK**  
**35**



Photos may include optional equipment.

COMPACT TRACK  
LOADER

# 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. The right joystick controls the arm and bucket while the left controls the travel.

## ***Maximum Performance and Precise Control with Komatsu Hydraulics***

Komatsu's smooth and precise hydraulic system lets the operator feel the performance of the machine. The Komatsu built system is designed for both single and simultaneous movements which achieves excellent control in positioning the bucket.

## ***Standard Universal Attachment Quick Coupler***

A universal quick coupler enables common attachments to be changed quickly and with minimal effort. Auxiliary hydraulics with flat faced connectors are standard. Most competitors' attachments can be utilized on Komatsu's compact track loaders.



***Automatic Power Control***

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 at any throttle setting without worrying about engine stall outs.

***Outstanding Visibility***

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

***Enhanced Monitor System***

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

***Super Flow (Optional)***

The Super Flow Hydraulic system increases the available oil flow from 21 to 34 GPM and includes case drain and electrical connections. The joystick mounted control system incorporates momentary reverse flow and multiple electrical inputs, enabling the CK35-1 to power most attachments, making it a very flexible and productive machine.

***Versatility***

Thanks to the wide supporting surface the tracks offer, the CK35-1 can effectively work on any type of soil, including mud and snow, thus minimizing downtime related to bad weather. Furthermore, as the specific pressure on the ground is much lower than with the wheeled versions, the CK35-1 can perform at its best even on yielding soil and sand.

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# OPERATORS COMPARTMENT

## ***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 (Optional)***

Convert from the Komatsu pattern to the optional pattern with the flip of a lever. This allows the Komatsu compact track loader to be customized to meet the individual operators needs. This is 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 controls and hydraulic circuits when the operator leaves the machine. A retractable seat belt is provided as standard equipment.



**SPLIT DESIGNED OPERATOR  
ARM REST BAR**

**PPC JOYSTICK CONTROLS**

**PATTERN CHANGE  
VALVE LEVER**

**EXCELLENT OPERATOR  
ENVIRONMENT**

***Split Designed Operator Arm Rest Bar***

The split designed operator arm rest bar is easily engaged from both sides. The gauges and indicator lights are incorporated into the arm rest for increased operator efficiency, comfort and confidence.

***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 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 attachments. The auxiliary hydraulic flow can easily be varied from 1 to 21 gallons per minute or locked on with the auxiliary override option.



# 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, is corrosion resistant, and guards against condensation. AOEling. 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. The floorboard can be removed separately for easy chassis clean out.

## ***Multi-Viscosity Oil Can Be Used for All Fluid Requirements***

The engine and hydraulic systems 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 assistance.



## ENGINE-EPA TIER 2 CERTIFIED

Model ..... Komatsu S4D98E-2NFE  
 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 in<sup>3</sup>**  
 Combustion ..... Direct injection  
 Aspiration ..... Turbocharged  
 Rated power:  
 (SAE J1349) ..... 62.6 kW **84 HP** @ 2500 rpm  
 Max. torque ..... 286 Nm **211 ft. lb.** @ 1600 rpm  
 Cooling system ..... Water  
 Air filter ..... Dry type with dual element  
 Starting system ..... Electric motor with pre-heating  
 air system for cold weather -16° C (3.2° F)



## TRANSMISSION

Type ..... Hydrostatic  
 Pumps ..... 2 x variable displacement  
 Motors ..... 2 x axial piston motors  
 Speeds: - Travel ..... Low 7.25 km/h **4.5 mph**  
 ..... High 12.0 km/h **7.5 mph**  
 Sealed wet-disc parking brakes with automatic engagement when operator exits 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**



## LOADER

Operating load @ 35% ..... 1250 kg **2,755 lb.**  
 Operating load @ 50% ..... 1785 kg **3,935 lb.**  
 Tipping load without counterweights (ISO 8313) ..... 3570 kg **7,870 lb.**



## STANDARD EQUIPMENT

- Accelerator pedal
- Adjustable seat with 50 mm 2" seat belt
- Automatic Power Control system (anti-stall)
- Audible alarm for low engine oil pressure or high coolant temperature
- Auxiliary hydraulics
- Backup alarm
- Bucket self-leveling (up only)
- 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
- Cup holder
- Halogen working lights (2 front)
- Horn
- Loader arm float function
- Operator arm rest bar with sensor for parking brakes & hydraulic system lock-out
- Rear window
- ROPS-FOPS (Level 1) open canopy
- Top window
- Two-speed transmission
- Universal front attachment coupler
- Wet-disc parking brakes



## OPTIONAL EQUIPMENT

- Air conditioning
- Auxiliary hydraulics override control
- Cab enclosure with heater and defroster
- Control pattern change valve
- FOPS (Level 2)
- Lifting hooks on cab roof
- Master electrical disconnect switch
- Rear counterweights (set of 6) 126 kg **278 lb**
- Ride control
- 76 mm 3" seat belt
- SUPERFLOW auxiliary hydraulics version, with additional auxiliary hydraulic circuit for attachments
- Suspension seat
- Working lights (2 rear)
- Amber rotating beacon
- 12 volt electrical outlet



## 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 system neutralizes the control system when the operator exits the cabin. 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 ..... 38.0 ltr. **10.0 US gal.**  
 Fuel tank ..... 73.0 ltr. **19.3 US gal.**  
 Engine oil ..... 12.5 ltr. **3.2 US gal.**  
 Engine coolant ..... 8.0 ltr. **2.0 US gal.**

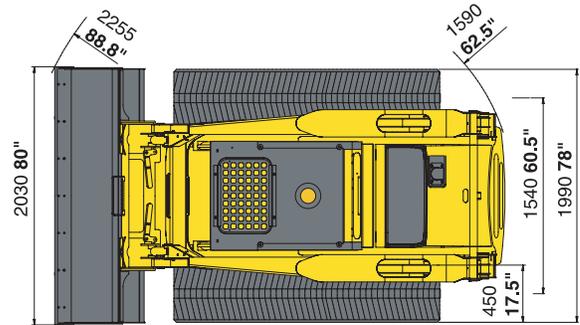
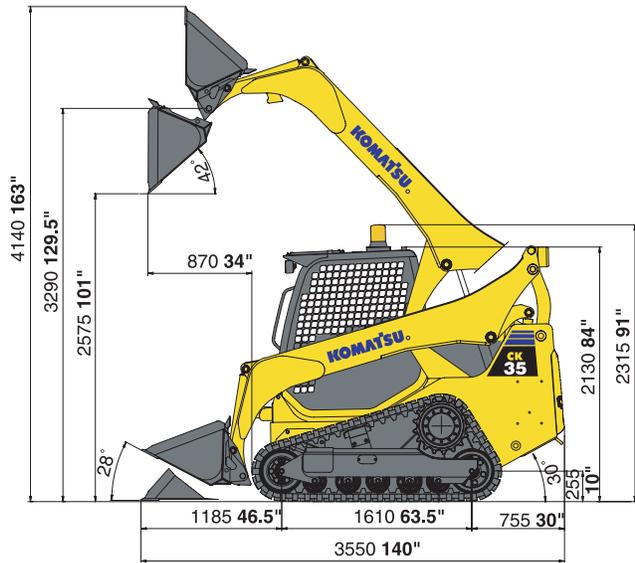


## OPERATING WEIGHT

Operating weight of machine with standard bucket, full tank of fuel and an 80 kg **176 lb** operator (ISO 6016) 4560 kg **10,053 lb.**



## DIMENSIONS



Units: mm in

Dimensions are shown using a long-lip loader bucket.

Bucket	SAE rated	Base Machine with 2030 mm 80" Long Lip Bucket		Base Machine with 126 kg 278 lb Counterweights/2030 mm 80" Long Lip Bucket		Base Machine with 126 kg 278 lb Counterweights/1219 mm 48" Pallet Forks	
		0.49 m <sup>3</sup>	0.64 yd <sup>3</sup>	0.49 m <sup>3</sup>	0.64 yd <sup>3</sup>	N/A	N/A
Bucket capacity	SAE rated	0.49 m <sup>3</sup>	0.64 yd <sup>3</sup>	0.49 m <sup>3</sup>	0.64 yd <sup>3</sup>	N/A	N/A
Attachment weight		232 kg	511 lb	232 kg	511 lb	172 kg	379 lb
Static tipping load		3570 kg	7,870 lb	3842 kg	8,470 lb	2497 kg	5,505 lb
Operating capacity - 50% of tipping load		1785 kg	3,935 lb	1921 kg	4,235 lb	1250 kg	2,755 lb
Operating capacity - 35% of tipping load		1250 kg	2,755 lb	1345 kg	2,965 lb	873 kg	1,925 lb
Dump clearance, maximum height and 42° dump angle		2575 mm	101.5"	2575 mm	101.5"	N/A	N/A
Height to bucket hinge pin		3290 mm	129.5"	3290 mm	129.5"	3290 mm	129.5"
Reach at maximum height and 42° dump angle		870 mm	34"	870 mm	34"	N/A	N/A
Operating height- fully raised		4140 mm	163"	4140 mm	163"	N/A	N/A
Clearance circle-front		2255 mm	88.75"	2255 mm	88.75"	N/A	N/A
Clearance circle-rear		1590 mm	62.5"	1590 mm	62.5"	N/A	N/A
Operating weight		4560 kg	10,053 lb	4686 kg	10,331 lb	4627 kg	10,200 lb

All dimensions, weights, and performance values based on SAE J732c and J742b standards. Static tipping load and operating weight shown include 450 mm 17.7" track width, 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 distributor for items you may require. Materials and specifications are subject to change without notice.

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