

KOMATSU

CK50-8

PRELIMINARY



Crawler skid steer loader

Engine power

53.7 kW / 72.0 HP @ 2500 rpm

Operating weight

5290 kg

Operating capacity

Standard bucket (0.45 m³): 1630 kg

"Deep profile" bucket (0.50 m³): 1490 kg

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1630 kg Standard bucket (0.45 m³)

1490 kg "Deep profile" bucket (0.50 m³)

Industry-leading hydraulics for powerful attachment handling

Flexibility on the jobsite

- Outstanding stability with an operating capacity of more than 1.6 tonnes
- Easy operation with ride control, return to dig, self levelling, and three drive modes, including slow speed control
- Improved efficiency with an axial piston pump for the work equipment
- Higher breakout force from a redesigned loader arm and pressure relief lines for work equipment and auxiliary hydraulics

Powerful and environmentally friendly

- Full compliance with EU Stage V emission regulations using DPF
- Drawbar pull, bucket breakout force, lifting pin height, and lifting cylinder force are all at the highest level in this class

Safety first

- Improved visibility with rear-view camera
- Enhanced safety with Human Detection System (option)
- Compliance with the latest safety standards, including EN474 and ISO19014
- LED lighting system
- FOPS level 2 top guard (option)
- Secondary engine shutdown switch
- Seat belt caution indicator
- Anti-theft via monitor password lock

Operator comfort

- Wide cabin with optional air conditioning and a gas-spring-assisted pull-up sliding door
- Suspended operator console and fully adjustable air-suspended seat providing the highest operator comfort
- Pressurised cab to maintain a clean operator environment
- Multi-function high-res touchscreen monitor with 5-inch display and EPC control levers
- Details like USB charger and a Bluetooth® radio further improve operator convenience

Total versatility

- Proportional attachment flow control using an electronically controlled main valve
- Flexible attachment pairing with five optional aux ports (three standard ports)
- Enhanced working mode performance with an electronically controlled HST pump
- "Super Flow" (with drain line and electric connection) is standard

Easy maintenance

- Easy maintenance access through larger inspection area and rearward tilting cabin
- Hydraulically driven, reversible cooling fan facilitating cleaning
- Comprehensive maintenance information shown on the monitor
- 500 hour engine oil service interval

Komtrax

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Error code display
- Integrated communication antenna

Specifications

Engine

Model	Komatsu S4D98E-6N1FE
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2500 rpm
ISO 14396	53.7 kW / 72.0 HP
ISO 9249 (net engine power)	52.3 kW / 70.1 HP
No. of cylinders	4
Bore × stroke	98 × 110 mm
Displacement	3.32 l
Max. torque / engine speed	280 Nm / 1625 rpm
Cooling system	Water
Fuel	Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

Transmission

Type	Hydrostatic
Pumps	2 × variable displacement
Hydraulic motors	2 × axial pistons
No. of speeds	2
Max. travel speed	12.1 km/h
Electronically adjustable track response with three selectable settings (soft, medium, hard)	

Hydraulic system

Type	Komatsu CLSS
Hydraulic pump	Axial piston
Max. pump flow	80 l/min
Max. operating pressure	270 bar
Max. pump flow - "Super Flow"	140 l/min

Operating weight (appr.)

Operating weight, including cab, operator (75 kg), liquids, filled tank and standard equipment, air condition, rear LED lights (without bucket)	5070 kg
Standard bucket (2030 mm)	+ 221 kg
"Deep profile" bucket	+ 245 kg
Pallet forks	+ 188 kg
Bolt-on cutting edge	+ 45 kg
Additional counterweight	+ 127 kg
FOPS level 2 top guard	+ 81 kg

Loader

Standard bucket	
Operating capacity	1630 kg
with add. counterweight	1730 kg
Tipping load	4650 kg
Standard bucket capacity (ISO 7546)	0.45 m³
Bucket breakout force (ISO 14397)	3777 daN (3850 kgf)
"Deep profile" bucket	
Operating capacity	1490 kg
with add. counterweight	1575 kg
Tipping load	4250 kg
Standard bucket capacity (ISO 7546)	0.50 m³
Bucket breakout force (ISO 14397)	3443 daN (3510 kgf)
Lifting cylinder breakout force	3727 daN (3800 kgf)
Operating capacity with pallet forks*	1308 kg
Max. loading height with forks	3150 mm
Max. reach with forks	589 mm

*with add. counterweight

Tracks

Standard track width (rubber tracks)	450 mm
Ground pressure	0.33 kg/cm²
Drawbar pull	4910 daN (5007 kgf)
Track rollers (each side)	5
3 double-flange track rollers	
2 triple-flange track rollers	
Track tensioning	Grease
Track tensioning incorporates the shock absorber	

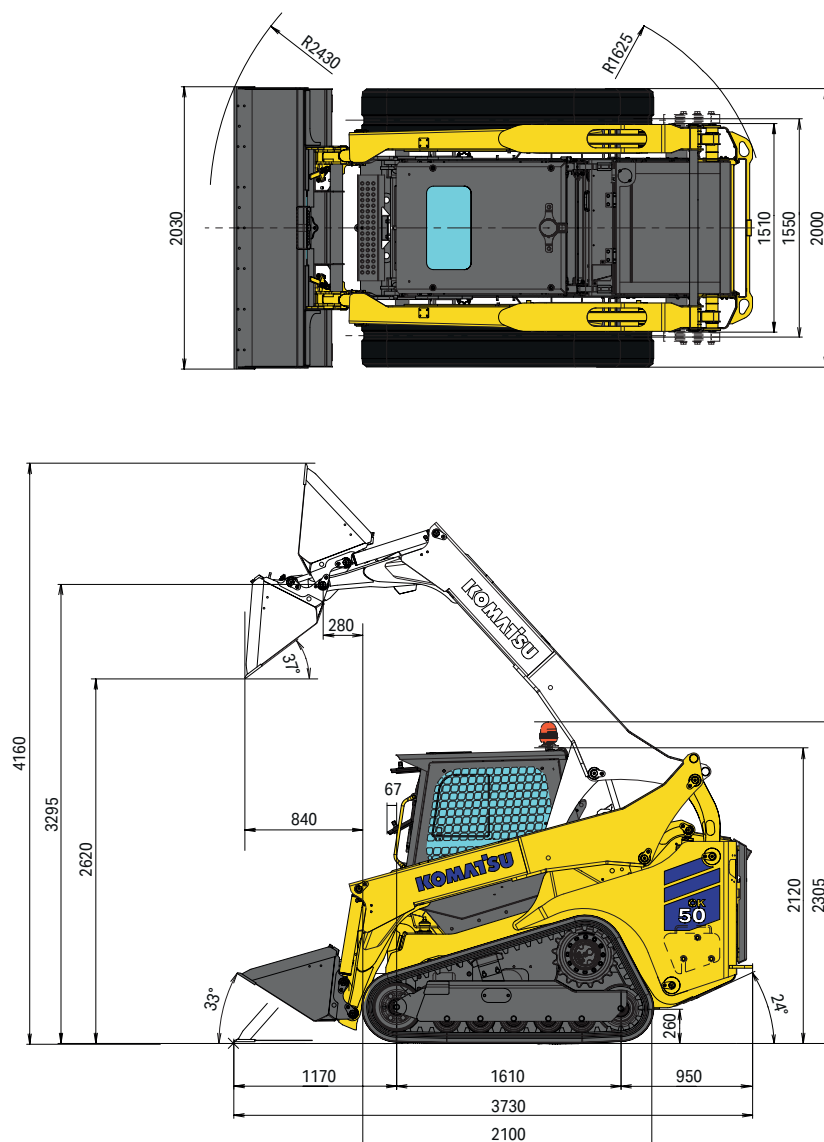
Service refill capacities

Fuel tank	80 l
Cooling system	11 l
Engine oil	7.5 l
Hydraulic system	58 l
Final transmission	14.4 l

Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	79 dB(A) (2000/14/EC Stage II)
LpA operator ear	103 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2.5 m/s² (uncertainty K = 1.2 m/s²)
Body	≤ 0.5 m/s² (uncertainty K = 0.2 m/s²)
Contains fluorinated greenhouse gas HFC- 134a (GWP 1430). Quantity of gas 0.7 kg; CO ₂ equivalent 1.0 t	

Dimensions



Standard and optional equipment

Engine

Komatsu S4D98E-6N1FE turbocharged common rail direct injection diesel engine	●
EU Stage V compliant	●
Cooled EGR system and diesel particulate filter (DPF)	●
Variable speed reversible hydraulic cooling fan	●
Alternator 80 A	●
Starter 3.0 kW	●
Batteries 12 V / 100 Ah	●

Transmission

2-speed transmission	●
Slow speed control system with cruise control function	●

Hydraulic system

Electronically controlled Komatsu main valve	●
Auxiliary hydraulic circuit for attachments	●
Universal mechanical quick-coupler	●
Bucket floating function	●
SUPER FLOW version with 3 elements main valve (with drain line and electric connection)	●
3 pipes attachments auxiliary (1 auxiliary line) + drain to tank	●
14 pins attachment socket	●
5 pipes attachments auxiliary, second auxiliary line (low flow 60 l/min)	○
3 pipes attachments auxiliary, (1 auxiliary line) + drain to tank + presetting for 5 pipes attachment auxiliary	○
Tool control: auxiliary line attachments pressure set up, up to 270 bar through a dedicated monitor function	○

Tracks

450 mm rubber shoes	●
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LED lighting system

2 front working lights	●
2 front lights on loader arm	●
2 rear lights on frame	●
2 rear working lights	○

Cab

Pressurized ROPS (ISO 3471) / OPG (ISO 10262) level 1 tilting cab with heater, air conditioner, safety bar with incorporated 5" touchscreen, pull-up type sliding door and front wiper	●
Adjustable air suspension seat with 2-point seat belt (2")	●
Monitor system including:	
- Instant fuel consumption displayed	
- Weekly and monthly fuel records	
- Eco guidance	
- Maintenance menu	
- Service menu	●
- Seat belt warning lamp	
- Engine lock password	
- Flow and pressure	
- Slow speed control bar	
- Integrated touch screen radio	
Accelerator pedal and EPC levers	●
12 V internal power supply	●
Monitor password lock	●
DAB+ radio with Bluetooth® and USB (type A) port	●
USB (type A-C) port	●
Cab with heater only	○
Sliding side windows	○

Safety equipment

Back-up alarm	●
Horn	●
Battery main switch	●
Rear-view camera	●
Rear-view camera with human detection system	○
Rotating beacon	○
Green beacon for fastened seatbelt	○
Accessories for road homologation	○
Rear-view mirrors	○
FOPS level 2 top guard	○
Dust and mud protection package	○

Service and maintenance

Komtrax – Komatsu wireless monitoring system (4G)	●
Rearward-tilting cab	○

Attachments

Standard bucket (2030 mm, 0.45 m ³)	●
"Deep profile" bucket (2030 mm, 0.50 m ³)	○
Cutting edge on teeth	○
Bolt-on cutting edge	○
Bucket teeth	○
Pallet forks	○

Other equipment

Bucket self-levelling function	●
Return-to-dig function	●
3 drive modes	●
Bucket shaking function	●
Slow speed	●
Lifting eyes	●
Lifting hooks for FOPS level 2 guard (tilting cab)	○
Additional modular rear counterweight (6 pieces, total 127 kg)	○
LSS (Load Stabiliser System)	○

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.

