

# KOMATSU®

## CK25-1 / CK35-1

**OPERATING WEIGHT**  
CK25-1: 3.820 kg - CK35-1: 4.560 kg

**OPERATING CAPACITY**  
CK25-1: 1.000 kg - CK35-1: 1.470 kg

**NET POWER**  
CK25-1: 51,8 kW / 69,5 HP @ 2.500 rpm  
CK35-1: 62 kW / 84 HP @ 2.500 rpm

**CK**  
**25-1**  
**35-1**

SKID STEER LOADER



## CK25-1 / CK35-1

# WALK-AROUND

## *Tradition and innovation*

The Komatsu CK25-1 and CK35-1 crawler skid steer loaders with vertical lift deliver the best of both worlds. They combine the compactness and manoeuvrability of the wheeled versions, with the exceptional weight distribution and traction of tracks. Moreover, the unique loader arm design improves performance in terms of lifting capacity and reach, making the machine perfect for operations like material handling.

## **S** TABILITY

Exceptional stability and traction force in all weather conditions and soil types.

## **S** PEED

Two speeds: one for maximum drawbar pull, the second for fast motion.

## **P** ERFORMANCE

The unique loader arm design gives these machines greater maximum operating loads, handiness and safety.



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**NET POWER**

CK25-1: 51,8 kW / 69,5 HP

CK35-1: 62 kW / 84 HP

**V**ERSATILITY

The optional Super Flow system enables the best use of any kind of attachment, widening the range of uses of the machines.

**C**OMFORT

A spacious operator environment, ergonomic controls and 360° visibility guarantee exceptional operator comfort.

**C**USTOMIZATION

The CK25-1 and CK35-1 offer several possibilities for customisation to get a 'made-to-measure' machine whatever your requirements.

# STRONG POINTS



## STABILITY

The tracks ensure exceptional stability and traction force on all types of soil. The wide base gives excellent stability to the machine and greatly reduces vibrations to increase operator comfort. The hard steel provides excellent durability for all parts which are subject to wear such as gears, rollers and idlers. At the same time, a bigger cross-section and multiple rubber-covered steel reinforcements ensure extended lifetime for the shoes.

## PERFORMANCE

With a vertical lift, the design of the arm makes this model particularly suitable for loading/unloading operations, especially with pallet forks. Due to this unique design, this machine keeps the bucket reach constant throughout the whole trajectory. This ensures higher tipping loads than for conventional models, as well as simplicity and safety when working at maximum height. The auxiliary hydraulic circuit allows multiple attachments to be used simultaneously, making the CK25-1 and the CK35-1 the very best in terms of versatility and performance.



## SPEED

A two-speed transmission comes as standard. The first speed is used while digging or climbing, whenever maximum drawbar pull is required. The second pushes the CK25-1 and the CK35-1 up to a top speed of 12 km/h, drastically reducing transfer times within the yard and increasing productivity.





### COMFORT

A wide entrance and plenty of room provide the operator with a level of comfort that is much higher than average for this class of machine. In addition, ergonomic controls and excellent 360° visibility make the job much easier and safer in any conditions. The Komatsu-patented LCD panel is mounted on the safety bar. It allows the operator to constantly monitor all main functions of the machine from fuel level to water temperature, air filter to engine oil pressure and more.

### CUSTOMIZATION

The front door slides up and underneath the roof, ensuring extraordinary comfort in any environmental condition: hot, cold, rain or dust. Thanks to this design, the operator can work with the door either open or closed as it doesn't interfere with the arm of the machine at all.



### VERSATILITY

The Closed-centre Load Sensing System (CLSS) ensures precision and smoothness in all movements. In addition, it is capable of combining power and speed to respond to any need. The Super Flow system increases the available oil flow to the attachments, and comes with drainage and electric connection. The joysticks and the proportional pedal ensure a perfect control of all functions. This option allows the user to use any kind of attachment for maximum versatility.

# SPECIFICATIONS

## CK25-1



### ENGINE

The new generation engine has been developed to comply with the strictest emission controls (STAGE 2).

Model .....Komatsu 4D98E-2NFE  
 Type..... emissionised, direct injection, diesel engine, 16 valves  
 Displacement..... 3.319 cc  
 Bore x stroke.....98 x 110 mm  
 N° of cylinders ..... 4  
 Rated power:  
 (SAE J1349).....51,8 kW / 69,5 HP @ 2.500 rpm  
 Max. torque ..... 235 Nm @ 1.600 rpm  
 Cooling system..... water  
 Air filter .....dry with safety element  
 Starting ..... electric motor with pre-heating air system for cold climate



### OPERATING WEIGHT

Operating weight of the machine with standard bucket, full fuel tank and 80 kg operator (ISO 6016) ..... 3.820 kg



### HYDRAULIC SYSTEM

Type..... Komatsu CLSS (Closed Load Sensing System)  
 Hydraulic pump .....gear pump  
 Std. Flow ..... 62 l/min  
 Max. pressure.....205 bar  
 Super flow (opt.)..... 100 l/min  
 Max. pressure.....205 bar  
 Main valve .....3 fully servo-controlled elements



### CONTROLS

Proportional Servo-controls (PPC). The left 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  
 Hydraulic motors ..... 2 x axial pistons  
 Travel speeds ..... 2  
 Max. travel speed ..... 12 km/h  
 Max. drawbar pull..... 3.740 daN  
 Oil immersed discs for both parking and working breaks with negative action and automatic insertion



### TRACKS

Standard track width ..... 320 mm  
 Ground pressure ..... 0,37 kg/cm<sup>2</sup>  
 Track rollers (each side) ..... 4  
 Track tensioning ..... grease



### ELECTRIC SYSTEM

Voltage ..... 12 V  
 Battery ..... 100 Ah  
 Alternator ..... 40 A



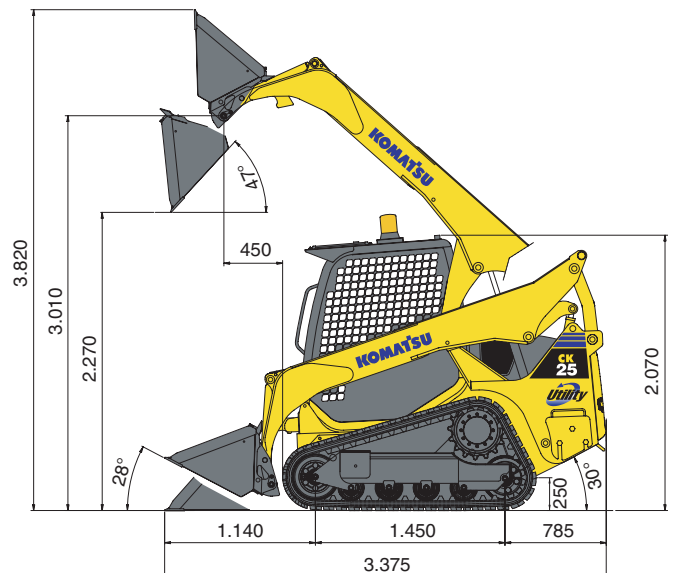
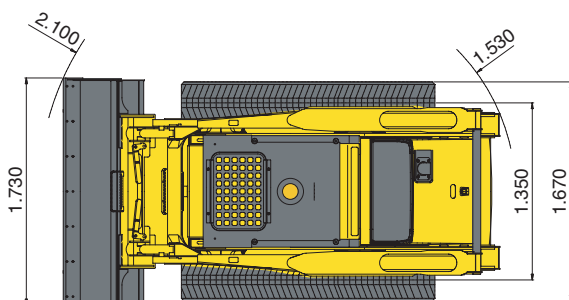
### SERVICE CAPACITIES

Hydraulic system..... 38 l  
 Fuel tank..... 64 l  
 Engine oil ..... 12,5 l



### LOADER

Operating capacity (ISO 5998) ..... 1.000 kg  
 Tipping load (ISO 8313)..... 2.860 kg  
 Standard bucket capacity (ISO 7546) ..... 0,4 m<sup>3</sup>  
 Bucket breakout force (ISO 8313)..... 1.716 daN (1.750 kg)



## CK35-1



### ENGINE

The new generation engine has been developed to comply with the strictest emission controls (STAGE 2).

Model .....Komatsu 4D98E-2NFE  
 Type..... emissionised, direct injection, diesel engine, 16 valves  
 Displacement..... 3.319 cc  
 Bore x stroke.....98 x 110 mm  
 N° of cylinders..... 4  
 Rated power:  
 (SAE J1349).....62 kW / 84 HP @ 2.500 rpm  
 Max. torque ..... 286 Nm @ 1.600 rpm  
 Cooling system..... water  
 Air filter .....dry with safety element  
 Starting..... electric motor with pre-heating  
 air system for cold climate



### OPERATING WEIGHT

Operating weight of the machine with standard bucket, full fuel tank and 80 kg operator (ISO 6016) ..... 4.560 kg



### HYDRAULIC SYSTEM

Type..... Komatsu CLSS (Closed Load Sensing System)  
 Hydraulic pump .....gear pump  
 Std. Flow ..... 80 l/min  
 Max. pressure.....205 bar  
 Super flow (opt.)..... 130 l/min  
 Max. pressure.....205 bar  
 Main valve .....3 fully servo-controlled elements



### CONTROLS

Proportional Servo-controls (PPC). The left 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  
 Hydraulic motors ..... 2 x axial pistons  
 Travel speeds ..... 2  
 Max. travel speed ..... 12 km/h  
 Max. drawbar pull..... 4.600 daN  
 Oil immersed discs for both parking and working breaks with negative action and automatic insertion



### TRACKS

Standard track width ..... 450 mm  
 Optional track width ..... 320 mm  
 Ground pressure ..... 0,32 kg/cm<sup>2</sup>  
 Track rollers (each side) ..... 5  
 Track tensioning ..... grease



### ELECTRIC SYSTEM

Voltage ..... 12 V  
 Battery ..... 100 Ah  
 Alternator ..... 40 A



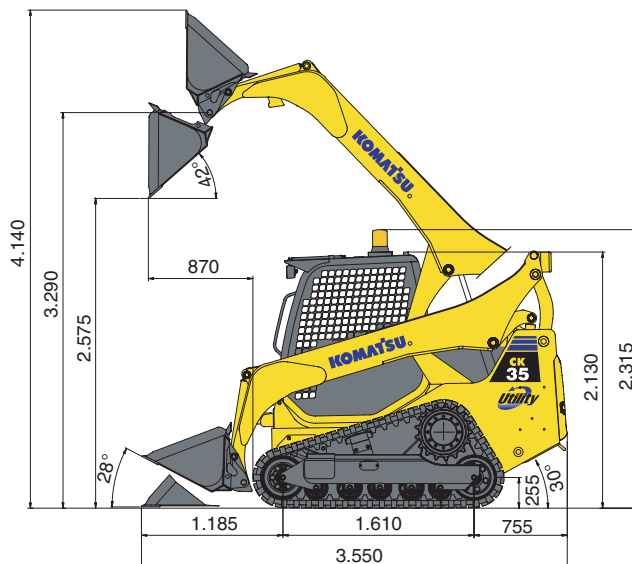
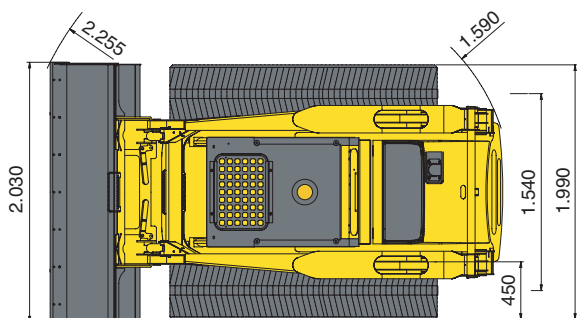
### SERVICE CAPACITIES

Hydraulic system ..... 50 l  
 Fuel tank ..... 73 l  
 Engine oil ..... 12,5 l



### LOADER

Operating capacity (ISO 5998) ..... 1.470 kg  
 Tipping load (ISO 8313)..... 4.200 kg  
 Standard bucket capacity (ISO 7546) ..... 0,45 m<sup>3</sup>  
 Bucket breakout force (ISO 8313).....2.242 daN (2.280 kg)



# SKID STEER LOADER

## STANDARD EQUIPMENT

- |  |  |   |   |
|--|--|---|---|
| <ul style="list-style-type: none"> <li>• ROPS / FOPS (Class 1) tilting cab</li> <li>• Adjustable seat with safety belt</li> <li>• Safety bars with incorporated display</li> <li>• 2 travel speeds</li> <li>• Two front working lights</li> <li>• Instrument panel including:             <ul style="list-style-type: none"> <li>- hour meter</li> <li>- LCD fuel level indicator</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>- LCD engine water temperature indicator</li> <li>- safety warning lights: operator onboard, safety bars lowered</li> <li>- other pilot lights: air filter clogging, engine oil pressure, generator, hydraulic oil filter, engine pre-heating, parking brake, second speed, working lights, direction indicators, floating</li> </ul> | <ul style="list-style-type: none"> <li>• Parking and working brakes</li> <li>• Horn</li> <li>• Accelerator pedal</li> <li>• Bucket self-levelling</li> <li>• Auxiliary hydraulic circuit for attachments</li> <li>• 12 V electrical plug outside</li> <li>• 320 mm rubber shoes (CK25-1)</li> <li>• 450 mm rubber shoes (CK35-1)</li> </ul> | <ul style="list-style-type: none"> <li>• Universal quick coupler</li> <li>• 1.730 mm bucket with or without teeth (CK25-1)</li> <li>• 2.030 mm bucket with or without teeth (CK35-1)</li> </ul> |
|--|--|---|---|

## OPTIONAL EQUIPMENT

- |   |   |  |   |
|---|---|--|---|
| <ul style="list-style-type: none"> <li>• Floating</li> <li>• SUPER FLOW version (with drainage and electric connection) with three element main valve</li> <li>• SUPER FLOW version (with drainage and electric connection) with four element main valve, with extra auxiliary hydraulic element for multi-purpose attachments</li> </ul> | <ul style="list-style-type: none"> <li>• Accessories for road homologation</li> <li>• Deluxe suspension seat with safety belt</li> <li>• 320 mm rubber shoes (CK35-1)</li> <li>• 1.880 mm narrow bucket with or without teeth (CK35-1)</li> <li>• Cutting edge on teeth</li> <li>• Bolted on cutting edge</li> <li>• 2 rear working lights</li> </ul> | <ul style="list-style-type: none"> <li>• Rotating beacon</li> <li>• Back-up alarm</li> <li>• Rear view mirrors</li> <li>• Pallet forks</li> <li>• Lifting hooks</li> <li>• Fixed or sliding side windows</li> <li>• Closed cab with side windows, door with wiper and heating</li> <li>• FOPS Class 2</li> </ul> | <ul style="list-style-type: none"> <li>• Air conditioning</li> <li>• 12 V internal power supply</li> <li>• Master disconnect switch</li> <li>• Cold area arrangement</li> <li>• 126 kg rear modular counterweight (6 pieces)</li> <li>• Tilting cab auxiliary device</li> </ul> |
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