D68ESS-12 Crawler Dozer

WALK-AROUND

Left hand Joystick controls all tractor motions.

The Komatsu S6D114E-1 turbocharged diesel engine provides an output of 116 kW 155 HP, with excellent productivity.

High capacity Mechanical Angle dozer combines the highest power in its class with outstanding productivity.

Komatsu Torqflow transmission offers single lever control of speed (3 forward and 3 reverse) and directional changes.

Modular power train for increased serviceability and durability.
Gull-wing engine side doors for easy and safer servicing

Electronic Fuel Gauge for easy checking of fuel quantity

**D68ESS-12**

**CRAWLER DOZER**

**FLYWHEEL HORSEPOWER**
116 Kw 155 HP @ 1850 rpm

**OPERATING WEIGHT**
Mechanical Angle: 19,100 Kg

**BLADE CAPACITY**
Mechanical Angle: 2.6 M³

**Powerful Winch**
The newly designed towing winch with larger line pull and single lever control increases productivity significantly by shortening winching time

**Wet, multiple-disc brakes**
eliminates brake-band adjustments for maintenance-free operation

Photo may include optional equipment

Forward mounted pivot **shafts** isolate final drives from blade loads

**Bolt-on sprocket (segment type)** for easy maintenance
Engine

Komatsu SGD114E-1
Turbocharged Diesel Engine

Powerful Engine
A powerful S6D114E-1 turbocharge diesel engine provides a massive output of 116 kW 155 HP. The engine power is transmitted smoothly to the final drives via a high-efficiency torque converter. And this engine also meets emission standards without sacrificing power or machine productivity.

Transmission

The Komatsu Torqflow system makes it simple and easy to select speeds and change direction. Both can be done by shifting a single joystick.

Komatsu Torqflow Power Train
The Komatsu Torqflow power train consists of torque converter and planetary power shift transmission. The torque converter is placed between the engine and transmission.

Torq-flow
Engine power is transmitted to the transmission through the torque converter (hydraulic coupling) oil.

Advantages
- Easy gear shifting
- Engine does not stall even a heavy load suddenly comes (TC relieves load)
- Small power gap at speed shift
- Good power persistence in heavy job

Torque Converter
The torque converter automatically varies the power required at the tracks to meet the changing load requirements of the machine. Engine power is transferred by the converter with little change in torque when the load is light.

When a heavy load is encountered, the torque multiplication becomes greater, resulting in reduction of tractor speed. At this moment, the torque converter increases the amount of torque available for the tracks without increasing engine horsepower.
OPERATOR COMFORT

All steering, direction and speed changes are made by a left-hand single joystick control. If the operator wants to move the machine forward and to the left, he simply moves the joystick control forward and to the left. If he desires a gear changes, he merely twists his wrist. The machine responds the movement to the lever providing the operator with the feeling of natural control with Komatsu’s joystick.

Steering Function
- Forward and reverse
- Right and left steering
- First, to second, to third shifting

Blade Function
- Lifting and lowering

Winch Functions
- Brake on and float
- Wind-up and pay-out
- Slow pay-out
- Free drum and engaged

Easy to operate Work Equipment Control Lever
With the Closed center Load Sensing System (CLSS), blade lever stroke is directly proportional with blade speed, regardless of the load and travel speed. This results in superb, fine controllability.

Advantages of CLSS
- More precise and responsive operation due to the pressure compensation valve.

Electric Panel
- Electrical Charge Lamp
- Engine Oil Pressure Caution Lamp
- Engine Water Temperature Gauge
- Fuel Gauge
- Intake Air Heater Lamp
- Service Meter
- Transmission Oil Temperature Gauge
- Transmission Gear Indicator
Low Drive and Long Track Undercarriage
Komatsu's low drive and long track undercarriage offer excellent stability with low ground pressure. Large-diameter bushings, increased track link heights, and improved oil-seals ensure maximum reliability and durability.

Durability
Fewer components means greater reliability. We've designed a simple hull frame made of a thick, single plate. Track frames have a large-section structure for maximum rigidity. Even the box-section construction of the blade back beam is reinforced, all with durability in mind.

Flat Bottom Frame
A flat bottom frame, the monocoque track frames and forward-mounted pivot shafts provide good maneuverability in muddy terrain by preventing mud from building up under the frame.

Modular Designed Power Train Units
The modular design allows easy removal and installation of any individual unit for shorter downtime.
EASY MAINTENANCE

Gull-Wing Engine Side Covers
With a gas-spring cylinder that opens widely, the engine and the auxiliary components can be checked easily.

Remote Greasing
Serviceability has also been improved with the addition of remote greasing of equalizer bar center pin.

Wet, Multiple-Disc Brakes
The wet type multiple-disc brakes eliminate brake-band adjustments for maintenance-free operation.

Reservoir
A radiator coolant reservoir makes it easier to check the coolant level and eliminates frequent refilling.

Check Ports
Oil pressure test ports for the power train are centralized on the right hand side of the operator platform for easy access.