

# KOMATSU®

## WB93R-5

OPERATING WEIGHT

7.300 kg

RATED POWER

74 kW / 99,2 HP @ 2.200 rpm

**WB**  
**93R-5**

RIGID BACKHOE LOADER



**WB93R-5**

# WALK AROUND

The WB93R-5 belongs to the last generation of KOMATSU backhoe loaders, which have come into the market with a number of innovations.

- Ultimate Comfort
- Modern Design
- Standard PPC Controls for Front Loader
- Backhoe Excavator S-Shape Boom

This Series tracks its origins back to the long Komatsu tradition that brings backhoe loaders to the top of their class for performance, technology and reliability.

## Premium Performance

The WB93R-5 offers high productivity and top performance, with increased breakout force and lifting capacities.

The core of the KOMATSU backhoe loader hydraulics is certainly the consolidated **CLSS (Closed Load Sensing System)**. Thanks to its variable flow, the system efficiently supplies the power the machine requires, as it is needed. With two working modes, "Power" and "Economy", the operator can conveniently choose between maximum power and minimum fuel consumption.

## Excellent Visibility

The wide round glass surface highly increases visibility and brings the machine to the top of its class. The shape of the bonnet and the upper front window make it easy and safe to work with the front loader. On the other hand, while using the backhoe excavator, the operator can easily open the single frame window and comfortably overlook the surrounding area.

## Total Versatility

Several different configurations make this machine suitable for a variety of customer typologies. The wide offer of options makes for a high level of customisation: hydraulic side-shift for the backhoe, LSS, radial tyres, offset boom and quick couplers are just a few.

## Exclusive Design

The front loader design ensures optimal parallel lifting; in addition, the divergent shape of the arm greatly improves visibility and provides excellent loading performance.

The design of the backhoe is completely new: it features a clean and functional layout, with hydraulic piping and hoses along the boom.

## Unique Comfort

Ergonomics and cutting edge technology can be experienced all around the newly redesigned cab. Room for the operator and comfort are key points of the WB93R-5: our wide variety of seats can respond to the most diversified needs and also includes fully adjustable suspension models. The storage compartments (one of which is lockable), the electric 12 V plug and many other small details put comfort at the top; standard PPC controls for the front loader and optional for the backhoe, not to mention an exceptionally low noise level, make working much easier and give a great contribution to production.

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## Absolute Safety

Following the long Komatsu tradition, the WB93R-5 features a full range of safety devices: safety sensors under the seat, electro-hydraulic boom lock, battery disconnect switch (optional). Moreover, for both loader and backhoe, the safety lock is standard, while safety valves can be added as an option.

# OPERATOR'S ENVIRONMENT

# STRONG POINTS



With a ROPS and FOPS structure and a modern design, the cab features a top class automotive style. Its increased internal volume and wide round glass surface offer great comfort to the operator. The optimal air distribution maximizes the ventilation system and the optional air conditioning system, which include ten conveniently located vents. Complete instrumentation, easily reachable control panel and plenty of holders and storage compartments make this machine the best in its class.

## Engine

The WB93R-5 is fitted with a 99,2 HP turbocharged Komatsu engine, which pushes the machine up to a 40 km/h top speed. The high displacement (4.5 l) ensures exceptional power and torque and unparalleled reliability; at the same time, it meets the 97/68/EC Stage 2 emission regulations.

## S-Shape Backhoe

The rounded shape of the backhoe enhances the loading ability of the machine and its capacity to overcome obstacles, while ensuring a high breakout force.

The telescopic arm and the off-set boom, together with a wide range of attachments, significantly increase the machine's versatility.

## Controls

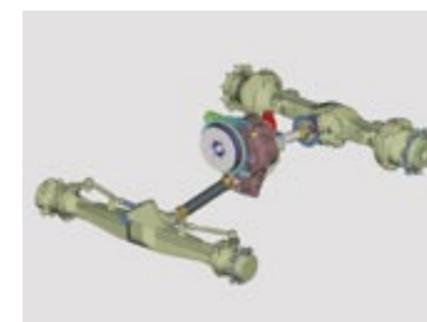
The PPC servo-control is standard for the front loader and optional for the backhoe. The multifunctional joystick for the loader fits the controls for 4x1 bucket, differential lock, declutch and *speed-up* function. PPC controls are also standard for the rear vertical stabilisers.

## Transmission

The "Power Shuttle" transmission provides the machine with four forward and four reverse speeds, with synchronised mechanical shifting. The electro-hydraulic differential lock, together with the "Heavy Duty" axles, increases efficiency and confidence under any conditions. In terms of safety issues, the multi-disk hydraulic brakes are self-adjusting and can be activated by two independent pedals.

## Serviceability

The tiltable engine bonnet has been developed with a focus on accessibility and ease of service. ORFS hydraulic face seal connectors increase the reliability of the machine and allow for simple and fast replacement; in addition, the battery and a roomy toolbox are conveniently located on the side of the machine.





# RIGID BACKHOE LOADER

## STANDARD EQUIPMENT

- Komatsu Stage 2 Turbo engine
- *Power Shuttle* transmission with 4 synchronised gears
- *Load Sensing*, variable displacement axial piston pump
- Side by side radiator
- 4 wheel drive
- Electro-hydraulic 100% differential lock
- Declutch switch
- Foot pedal and hand control accelerator
- Horn
- Maintenance free battery 160 Ah
- 12 V external electric plug
- 12 V internal electric plug
- Antifreeze (-36 °C)
- Front and rear working lights
- Road homologation
- Lights for road travel
- Rotating beacon
- External rear view mirror (left)
- ROPS/FOPS cab with heater and fan
- Tinted glass
- Adjustable steering column
- Adjustable seat with safety belt
- Front and rear washer and windshield wipers
- Internal storage compartments (one lockable)
- Cup-holder
- Sun visor
- Fully opening bonnet
- External lockable toolbox
- Dry type air cleaner with clogging indicator
- Fuel filter with integrated water separator
- Gauges & Indicators: transmission oil temperature, 4WD engagement, brake oil level, differential lock, fuel level, hour meter, preheating, engine speed, engine coolant temperature, engine oil pressure, air filter clogging
- *Safe Position* seat sensor
- PPC servo-control for stabilisers
- PPC lock switch
- 12.5/80-18 Standard Front Wheels
- 16.9/28 Standard Rear Wheels

### LOADER

- PPC servo-control
- *Speed-up* function
- Heavy duty safety bar
- Self-levelling
- General purpose bucket with standard teeth

### BECKHOE

- Mechanical control levers
- Power/Economy working modes
- Electro-hydraulic backhoe boom lock
- Backhoe swing transport lock
- Electro-hydraulic backhoe slide frame release lock
- Hydraulic cushions

## OPTIONAL EQUIPMENT

- Air conditioning
- Additional front counterweights (150 kg, 375 kg)
- De-Luxe mechanical suspension seat
- De-Luxe pneumatic suspension seat
- Drive shaft guard (front)
- Cold area arrangement (-30 °C) with 185 Ah battery and pre-heating systems
- High ambient/altitude arrangement
- TÜV + TBG version (20 km/h or 40 km/h)
- Battery disconnection safety switch
- Rubber pads for stabilisers
- Hose burst valves:
  - loader arm
  - backhoe
  - stabilisers
- Hydraulic biodegradable oil
- Hydraulic hand hammer circuit
- Hydraulic oil filter clogging indicator
- Air cyclone pre-filter
- Fuel filling pump
- Additional rear view mirror (right)
- Four additional working lights on cab
- Radio pre-setting
- Radio
- Backup alarm
- Front mud-guards
- Optional front tires:
  - 365/70 R18
  - 320/80 R18
  - 12.5/20 10PR
- Optional rear tires:
  - 18.4/26
  - 440/80 R28
  - 16.9/30 10PR

### LOADER

- LSS (*Load Stabiliser System*)
- Safety valve deactivation switch
- Auxiliary hydraulic circuits:
  - floating function
  - floating function and "*Return-To-Dig*"
  - front auxiliary hydraulic circuit
- additional front auxiliary hydraulic circuit (6 way valve)
- Attachments:
  - bolt-on cutting edge
  - cutting edge on teeth
  - flip-over forks on 4x1 bucket
- forks (for quick hitch)
- hydraulic and mechanical quick hitch
- 4x1 bucket with pre-setting for flip-over forks and angle opening indicator
- general purpose bucket (for quick hitch)
- 4x1 bucket (for quick hitch)
- dozer blade
- snow blade
- hand hammer

### BACKHOE

- PPC servo-control
- Alternative control pattern
- Hydraulic side-shift
- Auxiliary hydraulic circuits:
  - hammer circuit
- 2-way circuit for attachments (auger, tilting bucket)
- Attachments:
  - Offset boom
  - Telescopic arm
  - Offset boom and telescopic arm
- full range of buckets (300 mm ÷ 900 mm)
- hydraulic hammer
- mechanical quick hitch (for std buckets)
- ditch cleaning bucket (1.400 mm)
- ditch digging bucket (1.000 mm)



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