4-WHEEL STEERING BACKHOE LOADERS WB97S-2





KOMATSU



The Komatsu rigid backhoe loaders.

The only machine that combines style, prestige and power.

More than 30 years of experience, and know-how, the world's finest design tradition and state-of-theart Japanese technology have gone into the design and manufacture of the new Komatsu "Utility" range backhoe loaders. 4-WHEEL STEERING BACKHOE LOADERS

avance WB97S-2

NET

HORSEPOWER: 73 kW - 97,8 HP (SAE J 1349)

OPERATING WEIGHT: from 8000 to 8900 kg

Machines built for operators with the environment in mind.







Environmentally friendly. Respect for the environment was one of the main objectives that Komatsu designers set themselves in creating the new backhoe loaders. The noise level of the new backhoe loaders and their exhaust emissions are among the lowest possible today, thanks to the use of new generation Komatsu engines.





Comfortable and simple to operate.

With a Komatsu backhoe loader, work is easy and above all, enjoyable.

The performance and productivity of a machine also depend on the operator.
The person who works many hours each day at the controls of a machine is well aware of this, and so is Komatsu.

This is why the new backhoe loaders have been designed for operators, in the interests of business men and with total respect for the environment in which the machine operates. Anyone who's not already a skilled operator will very soon become one with the new generation of Komatsu backhoe loaders. The ergonomically designed controls offer ease of operation, using a hydraulic system that responds smoothly and precisely. The cab allows all-round visibility and it is very quiet.

The ergonomically designed seat is comfortable and fully adjustable. Meanwhile, the machine works quickly and powerfully, reducing operator fatigue and improving productivity.



SPECIFICATIONS



ENGINE

A new generation engine developed to comply with stricter emissions controls.

Model	Komatsu S4D106-1FA
Type vertical, 4-cycle v	water-cooled diesel engine
Displacement	4412 cm ³
Cyl. bore x stroke	
No of cylinders	
Compression ratio	
Combustion	direct injection (DI)
Aspiration	turbo
Max power	84,2 kW
Rater power:	
(SAE J 1349) 73	3 kW / 97,8 HP - 2200 rpm
(80/1269/EC) 72	2 kW / 96,5 HP - 2200 rpm
Max torque	375 Nm - 1500 rpm
Cooling system	radiator
Air filter di	ry filter with safety element
Starting system electric	motor with pre-heating air system for cold climate



HYDRAULIC SYSTEM

SyncroSystem hydraulics allows the operator very precise and simultaneous backhoe movements. This system is energy efficient and incorporates two different working modes: maximum power and constant power.

The advanced hydraulic system includes also the function "speed up" to increase the working speed of the front loader.

SyncroSystem
Close Load Sensing System CLSS
with working/power selector switch
Variable displacement axial pistons type
stem Load Sensing set to adjust
the hydraulic power
LIFD "load independent flow divider"
modular type
165 d/min
200 bar



FRAME

The re-designed frame is modular and has been developed for computer based welding processes; every main element is bolted directly to the frame to improve maintenance and to reduce down time.



TRANSMISSION

Electronically-controlled, four-wheel drive, full power shift transmission. EGM (Electronic Gear Management) gear controls for changing driving direction and gears, in automatic or manual mode (using two buttons), at full power without disengaging the drive.

agging the drive.

Other functions incorporated: system self-diagnosis, automatic connection/disconnection of the four wheel drive, and activation of the anti-theft alarm using a PIN code.

Travel speed:

SPEED	FORWARD	REVERSE
151	6,5	6,5
2 rd	12	12
3 rd	23	23
4th	40	



STEERING

The front and rear steering wheels are controlled by a loadsensing hydrostatic power steering system with a priority valve and by an electronic device for the selection of the 3 steering modes.

Steering radius, with 4 steering wheels and inner wheel not breker!

P. 1 Co. 1 Co. Co. 1		
loader outer	angle	4700 mm
outer wheel	-	4460 mm

The values are valid either with 24" and with 28" tyres.



BRAKES

Oil-immersed disc brakes are actuated by individual braking on each rear wheel. Total integral braking on the 4 wheels is activated by operating the two pedals at the same time.

Disc diameter	270 mm
Total friction area	2310 cm ²

The parking or safety brake acts on the service brakes through a hand operated lever.



AXLES

Heavy-duty axles with planetary reduction gears in the wheel hubs. Front axle total oscillation angle 16°. Limited slip differential on both axles.

Max front strength (Dynamic)	8000 daN
	10000 daN



TYRES

Standard:		
front and rear	16,9 x 24 -	12 PR
Option:		
front and rear	16,9 x 28 -	12 PR



CAB

New ROPS(ISO 9249, SAE J1040) FOPS (ISO 3449, SAE J 231) cab designed in order to offer the best visibility, ergonomy, low noise and comfort.

Two doors, full opening windows with front and rear wind-

screen wipers.

Internal lay out includes full adjustable seat, fresh filtered air intake ventilation and easy to read front and side dash board.

CAPACITIES

Engine oil	8.6 <i>l</i>
Cooling system	18 ℓ
Diesel tank	130 €
Hydraulic oil tank	
Front axle oil	
Rear axle oil	
Gearbox oil	



WEIGHT

Operating standard machine weight	8000 kg
Total machine weight	8900 kg
OPERATING WEIGHT INCREASE	
4 IN BUCKET	250 kg
4 IN BUCKET	150 kg



NOISE LEVEL

Dynamic test:	
	LwA 101 dB(A) (cab)
	LpA 78 dB(A) (cab)

The values are given according to the directive EC 89/514 and EC 95/27.



LOADER

The new design of the front loader allows a better tensile strength distribution and the upkeep of movement parallelism when lifting and lowering the bucket. Furthermore, thanks to the linkage geometry the greasing points have been dramatically reduced.

Standard bucket width	2420 mm
Capacity (ISO 7546)	1,1 m ³
STD bucket weight	450 kg
Lifting capacity at maximum height:	3847 daN (3925 kgf)
Lifting capacity	
at ground level (ISO 8313):	5195 daN (5300 kgf)
Breakout force (ISO 8313):	6383 daN (6500 kgf)



BACKHOE

The new boom has a rounded profile and a reinforced structure built with cast ends, allows 180° rotations, always maintaining high rotation torque. Vertical outriggers with adjustable wear device.

Standard bucket width	600 mm
Capacity (SAE)	
STD bucket weight	
Bucket breakout force (ISO 6015):	5780 daN (5900 kgf)
Dinner digging force (ISO 6015):	



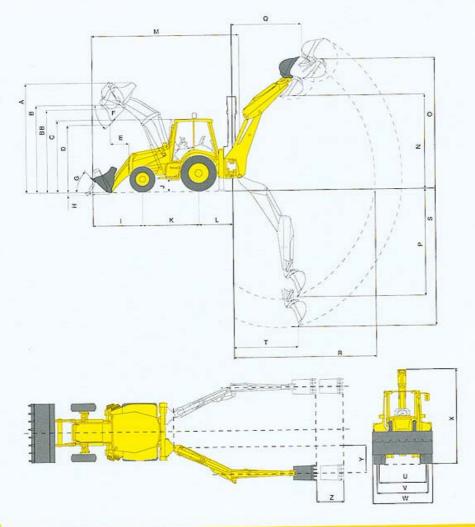
ELECTRIC SYSTEM

Electric circuit with protected connections in all exposed areas.

Voltage	12 V
Battery	120 Ah
Alternator	80 A
	3 kW

WB97S-2

SPECIFICATIONS



†

DIMENSIONS

^	max. height	4220 mm	P.	digging depth SAE	4500 mm
-	pin height	3400 mm		- with telescopic	5650 mm
В.	forter to a disa beight	3200 mm	Q.		2500 mm
BB.	forks loading height	2750 mm		- with telescopic	3500 mm
C. (cab height	0750 mm		- with off-set	2510 mm
D. (dumping height	2750 mm	-	max reach from swing centre	5550 mm
Ε	dumping reach (45°)	750 mm	R.	max reach from swing centre	6550 mm
	dumping angle	45°		- with telescopic	4950 mm
G.	rollback angle	45°	S.	max digging depth	6100 mm
Н.	digging depth	110 mm		- with telescopic	6100 mm
	bucket reach (in transport)	1930 mm	T.	digging reach	2/50 mm
j.	ground clearance	430 mm	U.	rear tread	1950 mm
ζ.	wheel base	2175 mm	V.	front tread	1950 mm
	b - the a suriag centre distance	1320 mm	W.	overall width (with bucket)	2420 mm
-	backhoe swing centre distance	5905 mm	X.	transport hoe height	3660 mm
VI.	transport length	9700 mm	,,,	- with telescopic	3700 mm
N.	dumping height SAE			- with off-set	· 3760 mm
	max dumping height	3950 mm	.,	off-set	1080 mm
	- with telescopic SAE	4830 mm	Y.	OII-Set	1150 mm
	- with telescopic max	5050 mm	Z.	telescopic stroke	1150 11111
0.	max digging height	5510 mm			
	- with telescopic	6510 mm			

STANDARD EQUIPMENT

- · Foot pedal and hand control accelerator
- Key start/stop system with auxiliary position Front and rear electric horn

- Front and rear electric norm
 Maintenance-free battery 120 Ah
 General purpose front bucket 1,1 m²
 Electro-hydraulic backhoe shifting lock
 Swing transport lock
 Limited slip differential
 ROPS/FOPS cab with heater and fan

- Seat belt
- Tiltable bonnet

- Flicatio Bollinds Electro hydraulic slide frame release lock Front and rear working lights Air cleaner, dry type, radial seal with clogging indicator
- Clothes hook
- Load sensing, variable displacement axial pump
- Front mudguards
- Front mudguards
 Electronic display showing the following indications in sequence: partial service hours, engine filter, oil motor, fuel filter, air cleaner, transmission filter, brake oil, coolant, hydraulic oil, types of oil, maintenance operations to be performed every 500, 1000 and

- 2000 hours, language selection (Italian, English, German, French, Spanish, Portuguese), speed (km/h, Mp/h), tyre pressure Maintenance and operation alarms
- Other Indicators: fuel level, converter oil pressure/temperature, brake applied, rev. counter, hydraulic oil fevel and coolant level visual gauges
- Transmission neutral switch
 Revolving light
 Antifreeze -26°C

- Lights for road travel Glass-holder
- Prearrangement for the installation of a radio set
- 12V external electric plug Adjustable seat
- Internal and external mirror
- Lifting cylinder safety bracket Front counterweight
- Front and rear windshield wipers
- Full power shift transmission with electronic control (EGM)
 Lockable internal storage compartment

OPTIONS

- Air conditioning
 LSS (Load Stabilizer System)
 Audible reversing alarm
 Front loader Attachments:

- 4 in 1 bucket
 Flip-over forks on 4 in 1 bucket
- Hydraulic and mechanic rapid coupling
 Cutting edge fixed under the front bucket teeth
 Forks (for use with quick hitch)
- Front blade
- Additional front counterweight De-luxe seat with 3" safety belt

- Bolt-on cutting edge Prop shaft guard BH control patterns
- BH control patterns
 Auxiliary hydraulic circuits, loader:
 auxiliary 3rd spool valve
 with floating function for front attachment
 front auxiliary hydraulic pipework

 Auxiliary hydraulic lines backhoe

 Hammer pipework

 Hose burst check valves: loader/backhoe

 Telescopic dipper

 Offset hoom

- · Offset boom
- Offset boom with telescopic dipper
 RETURN-TO-DIG (front bucket)
- · Attachments backhoe:
 - Quick coupling: Mechanical
 Range of buckets
- Hydraulic hammer
 160Ah, battery
 Radio set reproducer











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 subjected to change without notice.









BANGKOK MOTOR WORKS CO.,LTD.

54 MOO 2 BANGNA-TRAD HIGHWAY KM.22 T.SRISAJORAKHAEYAI, BANGSAOTHONG MINOR DISTRICT. SAMUTPRAKARN 10540

TEL. (662) 7401500-19, 7401600 FAX. 7401597-8

E-mail: bmwc_bkk@ksc.th.com

