NET HORSEPOWER 66 kW **88 HP** @ 2200 rpm

OPERATING WEIGHT 7300 kg 16,090 lb

KOMATSU®

WB146-5 WB146PS-5





BACKHOE LOADER

WALK-AROUND

The Dash 5 Komatsu Backhoe Loaders include the best from our previous series and add innovations for the future. The WB146-5 has the power, speed, balance. control, and operator comfort to be extremely productive in a very competitive world.

Spacious and comfortable operator station allows 360° visibility. Adjustable seat, steering, and backhoe controls allow the machine to better fit any operator. Switches and gauges are clustered to simplify operation.

Corner mounted exhaust enhances visibility

Powerful engine and hydraulics

66 kW 88 HP engine combined with Komatsu's HydrauMind hydraulic system provides fast, precise, and comfortable operation. Two working modes allow the operator to choose between maximum power and minimum fuel consumption.

Dual direction parallel lift loader linkage keeps the bucket or forks level throughout the lifting arc

Heavy-duty cast nose guard provides integral counterweight and front protection to the engine compartment

KOMATSU

Tilting engine hood can be opened when the loader is in the raised or lowered position

Large loader bucket

0.95 m³ 1.25 yd³ loader bucket with bolt-on cutting edge

Steering Cylinders are mounted behind and above the front axle for protection from jobsite debris

NET HORSEPOWER 66 kW 88 HP @ 2200 rpm

OPERATING WEIGHT 7300 kg 16,090 lb





S-Boom design

provides superior visibility and helps the operator avoid obstructions when digging or loading trucks

Dual tapered backhoe buckets are equipped with Extreme
Service (XS) adapters and teeth (optional)

Reversible outrigger pads accommodate both earth and paved surfaces

Photos may include optional equipment

Heavy-duty power shuttle transmission and axles

Optional PowerShift (WB146PS-5) for shift-on-the-fly with column-mounted lever

Large, lockable toolbox located under step

DASH-5 FEATURES



Tilting Steering Column

The steering column has a single lever that locks when released at the desired position.



Excavator Controls

Mounted on tilting towers with changeable control pattern.



Adjustable Wrist Rests

Maximizes ergonomics and operator comfort.



Pilot Actuated Loader Joystick

Multi-function controls for loader, differential lock, declutch, speed-up, and optional 4-in-1 bucket control. Clustered gauges and switches are in plain view and easy to reach.



Pilot Actuated Outrigger Levers

Provide smooth and precise control.



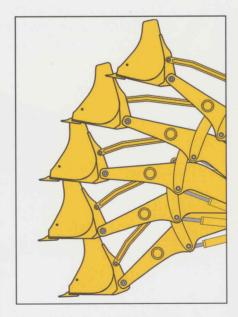
Corner Exhaust/Front Roof Cut-out

Provide an unobstructed view even when loader bucket is at full height.



S-Shape Backhoe

Enhances truck loading, improves visibility, provides strong breakout and lift capacities.



Dual Direction Parallel Lift

Mechanical linkage design keeps the load level from bottom to top (max 11° tilt back).



Extreme Service Buckets

Include XS adapters and multiple tooth designs for most applications.



Tiltable Engine Hood

Allows access to service check points. Locks with the ignition key.



Lockable Toolbox

Secure storage for tools, grease gun, etc.

OPERATOR STATION



The Dash-5 operator station is state-of-the-art. Interior appointments are rugged, yet elegant. The multiple seat and control adjustment mechanisms enable a better fit for both large and small operators and provide hours of comfortable operation. The canopy, or cab, has a true double-entry

platform. The climate controlled cab is quiet and has 10 vents for excellent air circulation. The cab's rounded shape provides a spacious and quiet environment. Visibility is unsurpassed. The one-piece rear window is easy and quick to open and close.

SPECIFICATIONS



ENGINE

Model	Komatsu S4D102LE-2
Type Vertical, 4-	cycle water-cooled diesel engine
Aspiration	
Combustion	
Compression ratio	
Number of cylinders	
Piston displacement	
Horsepower rating - WB146-5/WB14	
Gross horsepower @ 2200 rpm	69 kW 92 HP
Net horsepower @ 2200 rpm (SAE	J 1349)66 kW 88 HP
Max torque @ 1500 rpm	
Air cleaner	Dry filter with safety element
Lubrication system:	
Method	
Filter	Full-flow type
Air cleaner	
	ust evacuator, plus dust indicator
Cooling system	
Starting system	lectric motor with air pre-heating
	system for cold climate



ELECTRICAL SYSTEM

Electric circuit with protected connections in all exposed areas	
Voltage	
Battery	,
Alternator	
Electric starting	1



HYDRAULIC SYSTEM

The HydrauMind hydraulic system affords the operator very precise backhoe movements. This system is energy efficient and incorporates two different working modes: economy and constant power. The advanced hydraulic system includes the "speed up" function to increase the working speed of the front loader.

System
Type
economy/power selector switch (power mode is the default)
Pump type
Pump control systemLoad sensing
Main valve"Load Independent Flow Divider" LIFD modular type
Max delivery
Working pressure



SERVICE REFILL CAPACITIES

Engine oil	
Cooling system	J.S. gal
Diesel tank	J.S. gal
Hydraulic oil tank	J.S. gal
Hydraulic oil system capacity	
Front axle oil	J.S. gal
Rear axle oil	J.S. gal
Gearbox oil, Power Shuttle20.2 ltr 5.3 U	J.S. gal
Gearbox oil, Power Shift	



STEERING

The front steering wheels are controlled by a hydrostatic load sensing steering priority valve system. Minimum turning radius at the outer edge of front tire:



TRANSMISSION

Shifting between 2WD and 4WD is achieved through an electrohydraulic system. The transmission is operated through a torque converter and a power shift reversing shuttle; the mechanical 4speed gearbox is synchronized

Travel Speeds	1st km/h mph	2nd km/h mph	3rd km/h mph	4th km/h mph
Forward	6.3 3.9	11.4 7.1	21.3 13.2	37.8 23.5
Reverse	6.3 3.9	11.4 7.1	21.3 13.2	37.8 23.5

WB146PS-5

Electronically-controlled, four-wheel drive, full powershift transmission. Twist Grip or EGM™ (Electronic Gear Management) gear controls for changing driving direction and gears at full power without disengaging the drive. Twist Grip Controls in manual mode.

Travel	1st 2nd		3rd	4th	
Speeds	km/h mph	km/h mph	km/h mph	km/h mph	
Forward	6.5 4.0	12.0 7.5	23.0 14.3	40.0 24.9	
Reverse	6.5 4.0	12.0 7.5	23.0 14.3		



Heavy duty axles with planetary reduction gears in the wheel hubs. Front axle total oscillation angle is 20°. Differential lock in the rear axle controlled by electro-hydraulic system with a switch on loader

Maximum front strength (Dynamic)	9800	daN	22,031	lb
Maximum front strength (Static) 23	3750	daN	53,392	lb
Maximum rear strength (Dynamic)	7500	daN	16,861	lb
Maximum rear strength (static)	8750	daN	42,152	lb



BRAKES

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



CAB

ROPS (ISO 9249, SAE J1040) and FOPS (ISO 3449, SAE J231) Cab designed to offer the best visibility, ergonomics, low noise, and operator comfort. Two doors, full opening rear window with front and rear windshield wipers. Interior features include a fully adjustable seat, fresh filtered air intake ventilation, and easy to reach front and side dash boards.



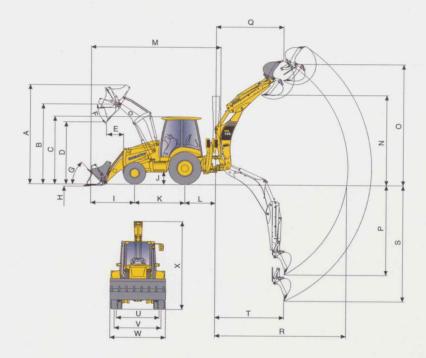
The design of the front loader allows for better tensile strength distribution and parallel movements when raising and lowering the bucket. Due to the linkage geometry, the number of greasing points has been dramatically reduced.

Standard bucket width
Standard bucket capacity (SAE)0.95 m³ 1.25 yd³
Standard bucket weight
Lifting capacity at maximum height
Lifting capacity at ground level5000 kg 11,020 lb
Breakout force



The boom has a rounded profile and reinforced structure built with cast ends allowing for 180° rotation while maintaining high rotation torque.

Bucket breakout force (ISO 6015)	5936 kg 13,087 lb
Arm breakout force (ISO 6015)	

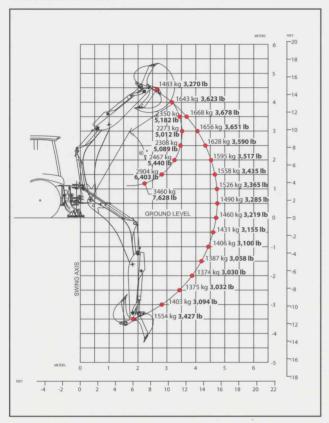


	Α	Maximum height	4230 mm 13'11"
ij	В	Hinge pin height	3367 mm 11'1"
	С	Overall height, ROPS Cab	2935 mm 9'8"
	D	Maximum dumping height	2622 mm 8'7"
	Ε	Reach at maximum height and 45° dump angle	750 mm 2'5"
	F	Dumping angle	45°
	G	Rollback angle	45°
	Н	Digging depth	138 mm 5.4 "
	1	Bucket reach (transport)	2023 mm 6'8"
	J	Ground clearance	430 mm 1'5 "
	K	Wheel base	2175 mm 7'2 "
	L	Backhoe swing center distance	1175 mm 3'10"
	М	Transportation length	7432 mm 24'5"
	N	Dumping height (SAE)	3676 mm 12'1"
		- with retracted telescopic	3658 mm 12'0 "
		- with extended telescopic	4369 mm 14'4"

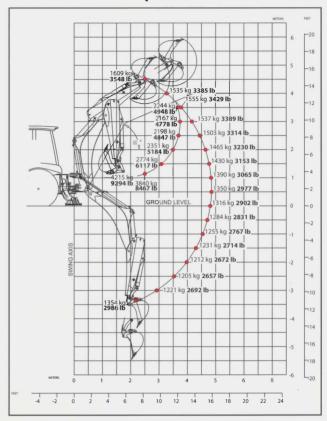
Maximum digging height	5319 mm 17'5 "
- with extended telescopic	5885 mm 19'4"
Digging depth (2' level bottom)	4370 mm 14'4"
- with extended telescopic	5479 mm 18'0 "
Reach at maximum height	2828 mm 9'3 "
- with extended telescopic	3877 mm 12'9"
Maximum reach from swing center	5742 mm 18'10"
- with extended telescopic	6755 mm 22'2"
Maximum digging depth	4423 mm 14'6"
- with extended telescopic	5533 mm 18'2 "
Digging reach	2320 mm 7'7"
Rear tread	1800 mm 5'11"
Front tread	1874 mm 6'2"
Overall width (with bucket)	2356 mm 7'9"
Backhoe transportation height	3676 mm 12'1"
- with telescopic arm	3746 mm 12'4"
	- with extended telescopic Digging depth (2' level bottom) - with extended telescopic Reach at maximum height - with extended telescopic Maximum reach from swing center - with extended telescopic Maximum digging depth - with extended telescopic Digging reach Rear tread Front tread Overall width (with bucket) Backhoe transportation height



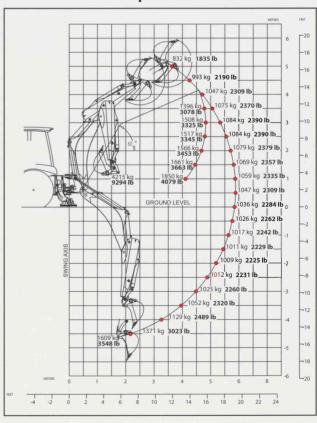
Standard Arm



Retracted Telescopic Arm



Extended Telescopic Arm



BACKHOE LOADER



STANDARD EQUIPMENT

- · Alarm, backup
- · Anti-burst/anti-drift valves (outriggers)
- Backhoe, center mount
- Backhoe controls, excavator type
- · Battery disconnect switch
- · Boom transport & swing lock
- Brakes, wet-disc with dual pedals and lock (4 wheel braking in 4th gear only)
- · Cast nose guard/counterweight
- · Coat hook (cab only)
- Cup holder (only for a cabin without airconditioner)
- Differential lock (100% rear axle on demand)
- · Drive shaft guard (4-wheel drive only)
- · Exhaust in line with ROPS post
- · External tool box
- · Fan, suction, and fan guard
- · Flexible type rear fenders
- Gauges: coolant temperature, fuel level, tachometer, hour meter
- · Hydraulic oil cooler, side by side
- Indicators: air cleaner service, engine coolant temperature, engine oil pressure, torque converter oil temperature, 4 wheel

- drive, low fuel, brake oil level, warning direction indicator, parking brake engagement, brake oil level, differential lock, cold engine preheat, generator warning
- · ISO control pattern for backhoe
- Key start/stop system with auxiliary position
- Lamp, overhead for instrument panel (cab only)
- · Lift cylinder lock bar
- · Lights, working (2 front, 2 rear)
- · Loader return-to-dig and float feature
- Mechanical locks, loader control and backhoe control
- · Mirror, interior
- Multi-function pilot actuated loader control lever (transmission disconnect, multi-purpose bucket controls, differential lock, loader speed up)
- · O-ring face seal hose connections
- Park brake (automatically disengages transmission when activated)
- Powershift transmission (PS series & AWS only)

- · Power shuttle transmission
- Power socket, 12V for a mobile phone (cab only)
- ROPS/FOPS cab with heater (42,320 BTU) and fan
- · Seat belt, retractable, 76 mm 3" wide
- Seat, mechanical suspension with armrests
- · Seat position safety switch
- Spin-on fuel, engine oil, hydraulic transmission oil filters and water separator
- Stabilizer pads, flip-over type
- · Stop lights and tail lights
- · Steering, hydrostatic, load sensing
- · Storage compartment, internal
- · Throttles, hand and foot
- Tiltable engine hood
- Transmission disconnect switch on gearshift lever
- · Vandalism protection (canopy only)
- · Warning horn, front, electric



OPTIONAL EQUIPMENT

- Air conditioner (31,400 BTU)
- · Auxiliary hydraulics for hand hammers
- Backhoe auxiliary hydraulics for hydraulic hammers or other unidirectional flow work tool (120 l/min 31.7 gpm)
- Cold area (-30°C -22°F) arrangement
- · High ambient and high altitude package
- High/low beam lights (2 front)
- Hydraulic quick coupler, loader
- Lights, working (4 front, 2 rear)
- Loader auxiliary hydraulics, multipurpose
- Load stabilizer system
- · Outrigger cylinder guards

- Pre filter
- · Rear view mirrors, exterior
- · ROPS/FOPS canopy
- Windshield, front for canopy with a window washer



AVAILABLE ATTACHMENTS

- · Couplers (front & rear)
- · Buckets (range)
- · Hydraulic breakers

- Brooms / sweeper
- · Compaction plate hydraulic
- Compaction wheels
- · Auger drives





This specification sheet may contain attachments and optional equipment that are not available in your area. Please contact your local Komatsu Utility Division distributor for those items you may require. Materials and specifications are subject to change without notice.

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