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.

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

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 near level throughout the lifting arc.

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



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.

BACKHOE LOADER

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Front roof cutout provides a better view of loader at full height.



Telescopic arm option increases dig depth to 5533 mm 18'2".

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.

WB146-5/WB146PS-5

BACKHOE LOADER

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 near level from bottom to top (max 11° tilt back).





Heavy Duty Buckets include XS adapter system.



Tiltable Engine Hood

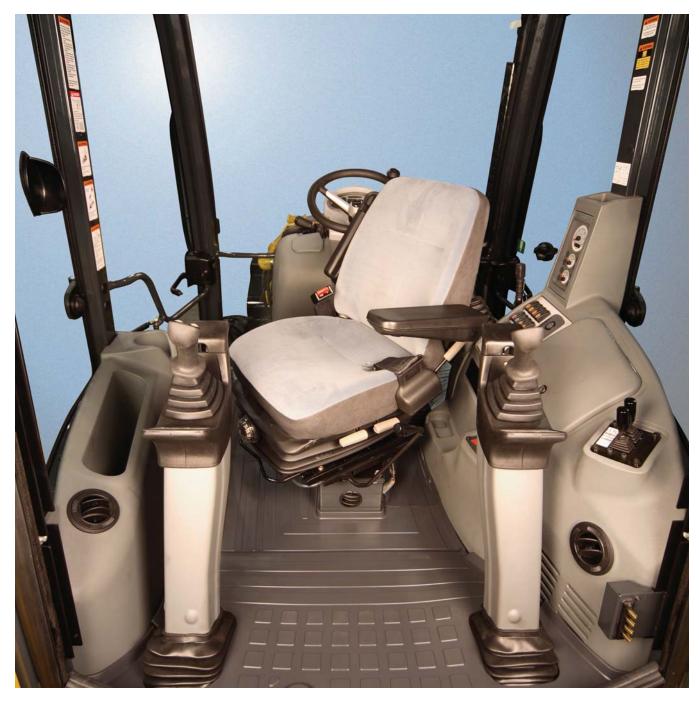
Allows access to service check points. Locks with the ignition key.



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. 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



Model	gine ged
Compression ratio	
Number of cylinders	4
Piston displacement	in³
Horsepower rating - WB146-5/WB146PS-5	
Gross horsepower @ 2200 rpm	HP
Net horsepower @ 2200 rpm (SAE J 1349)	HP
Max torque @ 1500 rpm	t lb
Air cleaner	ent
Lubrication system:	
Method	tion
Filter Full-flow t	уре
Air cleaner Dry type with double elements	and
dust evacuator, condition indica	ator
Cooling system	ator
Starting system Electric motor with air pre-hea	
system for cold clim	_



ELECTRICAL SYSTEM

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



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 typeVariable displacement axial piston
Pump control systemLoad sensing
Main valve "Load Independent Flow Divider" LIFD modular type
Max delivery
Working pressure



SERVICE REFILL CAPACITIES

Engine oil	•
Diesel tank	.150 ltr 39.6 U.S. gal
Hydraulic oil tank	41 ltr 10.8 U.S. gal
Hydraulic oil system capacity	97 ltr 25.6 U.S. gal
Front axle oil	7.5 ltr 2.0 U.S. gal
Rear axle oil	14.5 ltr 3.8 U.S. gal
Gearbox oil, Power Shuttle	20.2 ltr 5.3 U.S. gal
Gearbox oil, Power Shift	28.0 ltr 7.4 U.S. gal



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:

Without brakes	4000 mm 13'1"
With brakes	3400 mm 11'2"



TRANSMISSION

WB146-5

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 4-speed gearbox is synchronized

Travel	1st	2nd	3rd	4th
Speeds	km/h mph	km/h mph	km/h mph	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 EGMTM (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 Speeds	1st km/h mph	2nd km/h mph	3rd km/h mph	4th 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	



AXLES

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 lever. Maximum front strength (Dynamic) 9800 daN 22,031 lb Maximum front strength (Static) 23750 daN 53,392 lb Maximum rear strength (Dynamic) 7500 daN 16,861 lb Maximum rear strength (static) 18750 daN 42,152 lb



BRAKES



CAB

ROPS and FOPS Level 2 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.



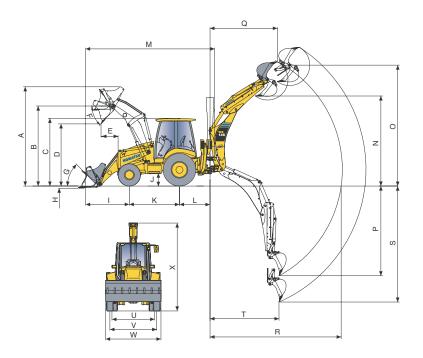
The design of the front loader allows for better tensile strength distribution and parallel movements when raising and lowering the bucket. Due to the linkage geometry, the number of greasing points has been dramatically reduced.

Standard bucket width	2356 mm 7'9"
Standard bucket capacity (SAE)	0.95 m ³ 1.25 yd ³
Standard bucket weight	454 kg 1,000 lb
Lifting capacity at maximum height	3900 kg 8,598 lb
Lifting capacity at ground level	5000 kg 11,020 lb
Breakout force	6000 kg 13,224 lb



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)	6126 kg 13,505 lb
Arm breakout force (ISO 6015)	

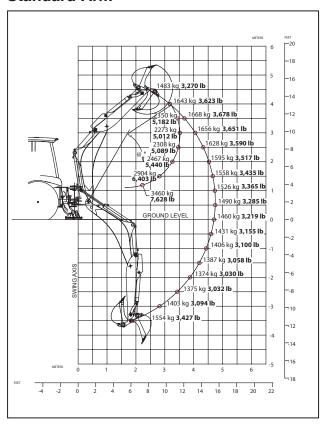


Α	Maximum height	4230 mm	13'11"
В	Hinge pin height	3367 mm	11'1"
С	Overall height, ROPS Cab	2935 mm	9'8"
D	Maximum dumping height	2622 mm	8'7"
Ε	Reach at maximum height and 45° dump angle	750 mm	2'5"
F	Dumping angle	45°	
G	Rollback angle	45°	
Н	Digging depth	138 mm	5.4"
I	Bucket reach (transport)	2023 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"
M	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"

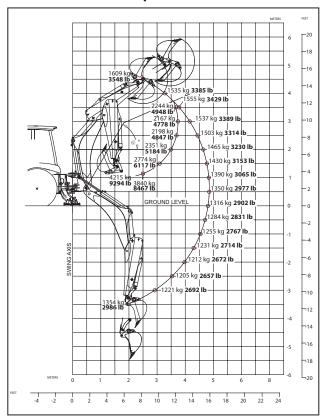
0	Maximum digging height	5319 mm	17'5"
	- with extended telescopic	5885 mm	19'4"
Р	Digging depth (2' level bottom)	4370 mm	14'4"
	- with extended telescopic	5479 mm	18'0"
Q	Reach at maximum height	2828 mm	9'3"
	- with extended telescopic	3877 mm	12'9"
R	Maximum reach from swing center	5742 mm	18'10"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



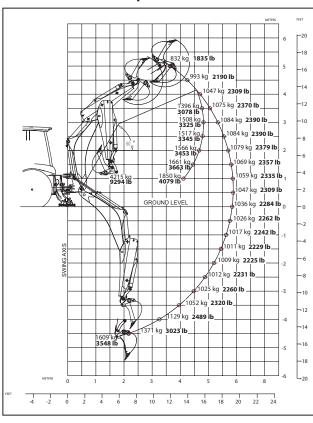
Standard Arm



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
- · Horn, front, electric
- · Horn, rear, electric
- · 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
 Multi-function pilot actuated loader
- 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 model only)

- · Power shuttle transmission
- Power socket, 12V for a mobile phone (cab only)
- Rearview mirror (interior right side mount)
- ROPS and FOPS level 2 Cab with heater (42,320 BTU), air conditioner (31,400 BTU), and fan
- · Seat belt, retractable, 76 mm 3" wide
- Seat, mechanical suspension with armrests
- 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
- Tires front, 14 x 17.5, 10 ply, R4
- Tires rear, 19.5 x 24, 10 ply, R4
- Transmission disconnect switch on gearshift lever
- Vandalism protection (canopy only)



- · 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, 4 rear)
- Loader auxiliary hydraulics, multipurpose
- Load stabilizer system (ride control)
- Outrigger cylinder guards
- Pre filter

- Rear view mirrors (exterior right and/or left mount)
- ROPS and FOPS Level 2 canopy



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 distributor for those items you may require. Materials and specifications are subject to change without notice.

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