

KOMATSU®

WB142-5

NET HORSEPOWER
57 kW **76 HP** @ 2200 rpm

OPERATING WEIGHT
6585 kg **14,513 lb**

WB
142

BACKHOE LOADER



Photos may include optional equipment.

WB142-5 BACKHOE LOADER

WALK-AROUND

The Dash 5 Komatsu Backhoe Loaders include the best from our previous series and add innovations for the future. The WB142-5 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. An adjustable suspension seat is standard. 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
57 kW **76 HP** engine combined with a Komatsu-designed hydraulic system provides fast, precise, and comfortable operation. Two working modes allow the operator to choose between maximum power and minimum fuel consumption.

Self-leveling keeps the bucket level when raising the loader arms.

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

Large loader bucket
0.77 m³ **1.00 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
57 kW 76 HP @ 2200 rpm

OPERATING WEIGHT
6585 kg 14,513 lb

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

Standard arm has a 4276 mm **14'0"** dig depth.

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.

Large, lockable toolbox located under step allows easy access to the battery and hydraulic filter.

Heavy-duty power shuttle transmission and axles

allow the WB142-5 to travel up to 37 km/h 23 mph.

WB142-5 BACKHOE LOADER

DASH-5 FEATURES



Steering wheel with a knob for easy maneuvering and front dash with critical warning lights.



Clustered gauges and switches are in plain view and easy to reach.



Mechanical controls can be ordered with Backhoe or ISO control patterns. Outrigger levers are conveniently located between the backhoe controls.



Front roof cutout provides a clear view of the loader bucket, even at maximum height.



Corner mounted exhaust further improves forward visibility.



Bucket automatically self levels as the loader arms are raised.



S-shape backhoe enhances truck loading and provides strong breakout and lift capacities.



Backhoe boom is narrow providing excellent visibility.



Heavy-duty buckets include XS adapter system.



A tiltable engine hood allows access to service check points and can be locked with the ignition key.



Lockable toolbox provides secure storage for tools, grease gun, etc. Also allows access to battery and hydraulic filter.



The ignition key operates all key locks on the machine.

OPERATOR STATION



The Dash-5 operator station is state-of-the-art. Interior appointments are rugged. The multiple seat adjustment mechanisms enable a better fit for both large and small operators and provide hours of comfortable operation.

The ROPS/FOPS Level 2 canopy has a true double-entry platform. Controls, switches, and gauges are well placed to make operation of the machine easy.

WB142-5 BACKHOE LOADER

SPECIFICATIONS



ENGINE

ModelKomatsu 4D102LE-2
TypeVertical, 4-cycle water-cooled diesel engine
AspirationNaturally
CombustionDirect injection
Compression ratio18:1
Number of cylinders4
Piston displacement4.5 ltr **275 in³**
Horsepower rating
Gross @ 2200 rpm60 kW **80 HP**
Net @ 2200 rpm (SAE J 1349)57 kW **76 HP**
Max torque @ 1300 rpm298 Nm **221 ft lb**
Lubrication system:
MethodGear pump, force-lubrication
FilterFull-flow type
Air cleanerDry type with double elements and
dust evacuator, condition indicator
Cooling systemRadiator
Starting systemElectric motor with air pre-heating
system for cold climate



ELECTRICAL SYSTEM

Electric circuit with protected connections in all exposed areas
Voltage12 V
Battery100 Ah (860 CCA)
Alternator95 A
Electric starting3.0 kw



HYDRAULIC SYSTEM

The WB142-5 hydraulic system affords the operator very precise backhoe movements. This system is energy efficient and incorporates two different working modes. In Power mode, both pumps will provide maximum flow and pressure according to demand. In Economy mode, flow and pressure are automatically regulated to provide optimum fuel economy.

Pump typeTandem fixed displacement pumps
Main valvesClosed center, flow sharing valves provide excellent
multi-function capability
Max delivery140 ltr/min **37 gal/min**
Working pressure207 bar **3,002 psi**



SERVICE REFILL CAPACITIES

Engine oil	9 ltr	2.4 U.S. gal
Cooling system	14 ltr	3.7 U.S. gal
Fuel tank	120 ltr	31.7 U.S. gal
Hydraulic oil tank	41 ltr	10.8 U.S. gal
Hydraulic oil system capacity	97 ltr	25.7 U.S. gal
Front axle oil	7 ltr	1.9 U.S. gal
Rear axle oil	14.5 ltr	3.8 U.S. gal
Gearbox oil, Power Shuttle	18 ltr	4.8 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	4100 mm	13'6"
With brakes	3600 mm	11'10"



TRANSMISSION

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

Travel Speeds	1st km/h mph	2nd km/h mph	3rd km/h mph	4th km/h mph
Forward	5.2 3.2	8.5 5.3	18.5 11.5	37.0 23.0
Reverse	5.2 3.2	8.5 5.3	18.5 11.5	37.0 23.0



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 the loader lever.

Maximum front strength (Dynamic)	7500 daN	16,875 lb
Maximum front strength (Static)	18750 daN	42,188 lb
Maximum rear strength (Dynamic)	6830 daN	15,368 lb
Maximum rear strength (Static)	17100 daN	38,475 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.
Disc diameter300 mm **11.8"**



CANOPY

ROPS/FOPS (Level 2) canopy designed to offer superior visibility.



LOADER

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	2180 mm	7'2"
Standard bucket capacity (SAE)	0.77 m ³	1.00 yd³
Standard bucket weight	410 kg	904 lb
Lifting capacity at maximum height	2870 kg	6,325 lb
Lifting capacity at ground level	3670 kg	8,089 lb
Breakout force	4590 kg	10,116 lb

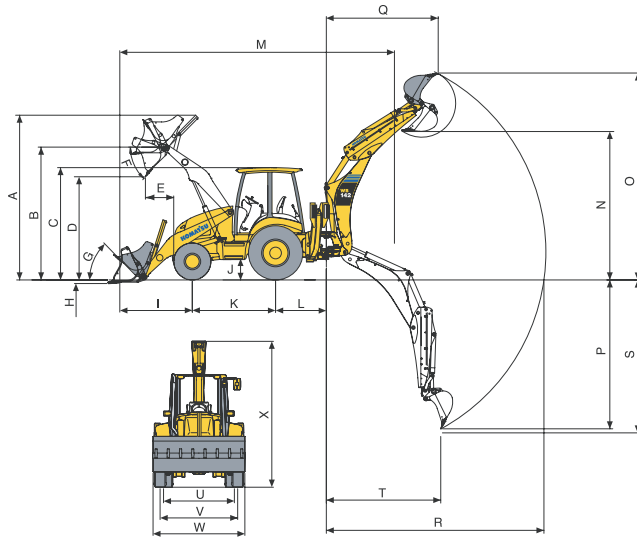


BACKHOE

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

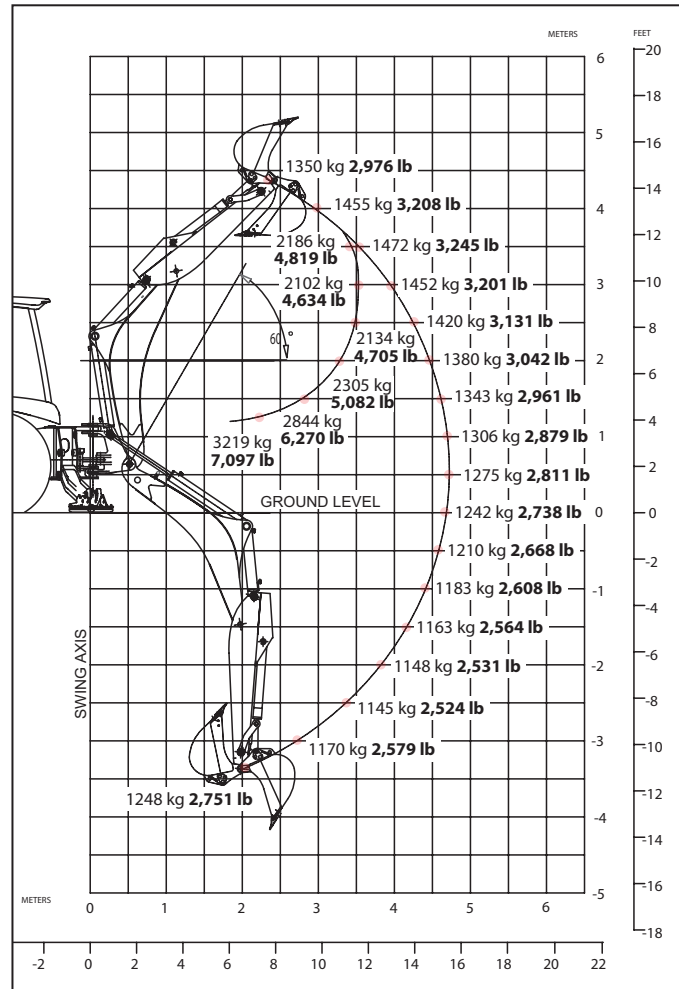
Bucket breakout force (ISO 6015)	5150 kg	11,351 lb
Arm breakout force (ISO 6015)	3550 kg	7,670 lb

General Dimensions



A	Maximum height	4080 mm	13'5"
B	Hinge pin height	3255 mm	10'8"
C	Overall height, ROPS Canopy	2820 mm	9'4"
D	Maximum dumping height	2615 mm	8'7"
E	Reach at maximum height and 45° dump angle	910 mm	3'0"
F	Dumping angle	45°	
G	Rollback angle	45°	
H	Digging depth	100 mm	4.0"
I	Bucket reach (transport)	1900 mm	6'3"
J	Ground clearance	380 mm	1'3"
K	Wheel base	2175 mm	7'2"
L	Backhoe swing center distance	1175 mm	3'10"
M	Transportation length	7060 mm	23'2"
N	Dumping height (SAE)	3600 mm	11'10"
O	Maximum digging height	5210 mm	17'1"
P	Digging depth (2' level bottom)	4276 mm	14'0"
Q	Reach at maximum height	2640 mm	8'8"
R	Maximum reach	5580 mm	18'4"
S	Maximum digging depth	4318 mm	14'2"
T	Digging reach	2380 mm	7'10"
U	Rear tread	1680 mm	5'6"
V	Front tread	1780 mm	5'10"
W	Overall width (with bucket)	2180 mm	7'2"
X	Backhoe transportation height	3660 mm	12'0"

Lifting Capacity — Standard Arm





STANDARD EQUIPMENT

- Alarm, backup
- Backhoe, center mount
- Backhoe controls, mechanical
- Battery disconnect switch
- Boom transport & swing lock
- Brakes, wet-disc with dual pedals and lock (4 wheel braking in 4th gear)
- Cast nose guard/counterweight
- Cup holder
- Differential lock (100% rear axle on demand)
- 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
- Key start/stop system with auxiliary position
- Lift cylinder lock bar
- Lights, working (2 front, 2 rear)
- Loader float feature
- O-ring face seal hose connections
- Outrigger anti-drift valve
- Park brake
- Power shuttle transmission
- Rear view mirror (interior-right side mount)
- ROPS/FOPS(Level 2) canopy
- Seat belt, retractable, 76 mm 3" wide
- Seat, mechanical suspension
- Spin-on fuel, engine oil, transmission oil filter, and water separator
- Stabilizer pads, flip-over type
- Stop lights, tail lights, and hazard lights
- Steering, hydrostatic, load sensing
- Storage compartment
- Throttles, hand and foot
- Tilttable engine hood
- Transmission disconnect switch on gearshift lever
- Vandalism protection
- Warning horn

ROPS/FOPS meets all OSHA/MSHA standards and regulations criteria



OPTIONAL EQUIPMENT

- Backhoe auxiliary hydraulics for hydraulic hammers or other unidirectional flow work tools
- Buckets (range)
- Cold area (-30°C -22°F) arrangement
- Lights, working (4 front, 4 rear)
- Rear view mirrors, exterior-right and/or left mount
- SAE backhoe control pattern



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.

KUSS183-02

©2007 Komatsu America Corp.

Printed in USA

D08(5M)C

8/07 (EV-1)

KOMATSU®

www.KomatsuAmerica.com

Komatsu America Corp. is an authorized licensee of Komatsu Ltd. Materials and specifications are subject to change without notice. **KOMATSU** is a registered trademark of Komatsu Ltd., Japan