



JCB 214E Series 4 Backhoe Loader Features and Specs

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Features of a JCB 214 Backhoe Loader

- **Loader** - Looking for a little more muscle on your job? with a lift capacity of 6750 lb. a break out force of 11730 lb. and a 1.25 cubic yard bucket this is just what you need to get the job done.
- **Backhoe** - The JCB 214 offers a 14-foot backhoe stick in two options, the classic dipper or the extra dig deeper version for more reach.
- **Heavy Duty Build** - Huge rear frame supports and a unitized one piece mainframe along with grease seals at vital backhoe joints and large diameter pins and bushings make this a machine that will last.
- **Safety** - Secure your machine with a signal key that locks and secures your fuel, cab , hydraulic, engine ext for your convenience. Also standard with hazards, brake lights and turning signals for added visibility.
- **Design** - Comfortable ergonomic design and panels for easy visibility and a spacious ride so you can handle long hours operating.
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Specifications for JCB 214 Backhoe Loader

STATIC DIMENSIONS		
JCB Series 4 Backhoe Loaders feature heavy duty one piece mainframe, componentized driveline and fully enclosed engine compartment. All fluid and component compartments are lockable using the ignition key.		
Machine model	214e-2WD	214e-4WD
	ft-in (meter)	ft-in (meter)
A Transport length	23-0 (7.01)	23-0 (7.01)
B Transportheight– Standard backhoe	11-2 (3.40)	11-2 (3.40)
C Heighttotopof cab/canopy	9-3 (2.82)	9-3 (2.82)
D Overallwidth with bucket	7-4 (2.24)	7-4 (2.24)
E Groundclearance– mainframe	1-2 (0.36)	1-2 (0.36)
F Groundclearance– front axle	1-2 (0.36)	0-10 (0.25)
G Frontwheel track	5-11 (1.80)	6-1 (1.85)
H Rear wheel track	5-5 (1.65)	5-8 (1.73)
J Wheelbase	6-11 (2.11)	7-1 (2.16)

OPERATING WEIGHTS		
Operating weight includes machine equipped with standard loader bucket, 24" HD backhoe bucket and full fluid levels.		
Machine model	214e-2WD	214e 4WD
	lb (kg)	lb (kg)
Base unit – std backhoe	13046 (5919)	13376 (6069)
Cab, Extradig	14368 (6519)	14698 (6669)
Add for:		
SAE operator	176 (80)	176 (80)

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ENGINE

Four cylinder, direct injection diesel. Gear driven water pump, cast iron engine sump, spin-on oil and fuel filters, fuel/water separator, dual element air cleaner, 21" fan. Parent bore engine block, Thermostart cold start aid.

Machine model	214e-2WD	214e-4WD
Manufacturer	Perkins 1000 Series	
Displacement	259 cubic inches (4.25 liters)	
Aspiration	Natural	Natural
Rated Engine RPM	2200	2200
Horsepower Ratings:	HP (kW)	HP (kW)
SAE Gross	76 (56.7)	76 (56.7)
SAE Net	72 (53.7)	72 (53.7)
Maximum Torque:	lb-ft (Nm)	lb-ft (Nm)
SAE Gross	214 (291)	214 (291)
SAE Net	210 (286)	210 (286)
Max. Torque RPM	1400	1400

STEERING

Power hydrostatic system utilizing the main hydraulic pump via a steering priority valve. Emergency power off steering.

Machine model	214e-2WD	214e-4WD
Steering axles	Front	Front
Type	Hydrostatic	
Steering turns – lock to lock	3.00	3.00
	ft-in (meter)	ft-in (meter)

Turning circle – unbraked	25-3 (7.70)	26-5 (8.05)
Loader clearance circle	33-10 (10.31)	34-11 (10.64)
214e Series 4 BACKHOE LOADER		
ENGINE SUPPORT SYSTEM		
Engine support system is designed for ease of daily checks, routine maintenance and longer service intervals. Fuel type Fuel filter Air cleaner Oilfilterandlubrication Cooling system Diesel. Replaceable spin-on cartridge plus water/sediment separator Dual, dry element cyclonic type. Fullflow,spinontypefilter. Hot climate specification, pressurized to 7 psi (0.5 bar), 21" suction fan. Pressurized recovery tank with integral filler neck.		
ELECTRICAL & INSTRUMENTATION		
12 volt negative ground, utilizing wiring and connectors meeting IP67 water and dust ingress test standard. Central fuse panel supplemented with main circuit breakers at battery positive terminal. Gauges Warning system Battery Pre-wire Horn Accessory Reverse alarm Tachometer, engine coolant temp, fuel level, hourmeter. Audible and visual system for engine, transmission, park brake, battery charge condition, air cleaner restriction. 12V, 850 cold cranking amps. Pre-wire for beacon. Front horn button mounted on forward-to- reverse lever. 12V power outlet on instrument panel. Standard fit. Meets SAE requirements.		
TRANSMISSION		
JCB transmissions are designed and built specifically for JCB backhoe loaders. They feature synchronized shifting in all gears and power shift between forward and reverse. Ground speeds aredesigned tomaximizeproduction.Transmissiondisconnect switches on main gear shift lever and loader control lever.		
Machine model	214e-2WD	214e-4WD
Manufacturer	JCB	
Type	Synchro shuttle	

Torque converter	Single stage, dual phase, 11 inch diameter	
Torque converter ratio	2.8:1	2.8:1
Gears forward/reverse	4 forward/4 reverse	
Gear selection	Synchro shift	Synchro shift
Shuttle control – F/R	Power shuttle	Power shuttle
Travel speeds	mph (kph)	mph (kph)
Tires equipped	19.5L-24	19.5L-24
Gear 1	3.4 (5.5)	3.4 (5.5)
Gear 2	5.1 (8.2)	5.1 (8.2)
Gear 3	10.9 (17.5)	10.9 (17.5)
Gear 4	20.6 (33.2)	20.6 (33.2)

FRONT AXLE

JCB front axles are designed and built specifically for backhoe loaders and accept a variety of tire combinations.

Machine model	214e-2WD	214e-4WD
Type	Flame cut bar w/fixed tread	JCB Max- Trac Torque proportioning
	lb (kg)	lb (kg)
Static load rating	36383 (16508)	36383 (16508)
Dynamic load rating	18300 (8303)	18300 (8303)
SAE J43 Rating	11362 (5155)	13440 (6098)

REAR AXLE

JCB rear axles are designed and built specifically for backhoe loaders and accept a variety of tire combinations.

Machine model	214e-2WD	214e-4WD
Type	JCB Max-Trac with outboard planetary drive	
Limited slip	Standard automatic rear axle traction control system	
	lb (kg)	lb (kg)
Static load rating	55125 (25011)	55125 (25011)
Dynamic load rating	27562 (12505)	27562 (12505)
SAE J43 Rating	12956 (5878)	12956 (5878)

OPERATOR'S AREA

Meets SAE ROPS/FOPS requirements 17632lb (8000kg) GVW capacity. Standard features include the following:

	Cab	Canopy
Heavy duty suspension seat	opt	opt
Heavy duty fixed pedestal seat	X	X
Heater/pressurizer	X	
Front and rear wipers	X	
Front and rear window washers	X	
2" seat belt (3" option)	X	X
4 front and 2 rear work lamps	X	X
12V power outlet	X	X
Instrument vandal cover		X
Brake lights, hazard lamps, turn signals	X	X
Interior rear view mirror	X	X

Side-mounted instrument panel	X	X
Deluxe floor mat	X	X
Cup holder	X	X

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