



JCB WHEELED ROBOT SKID STEERS | 190/1110

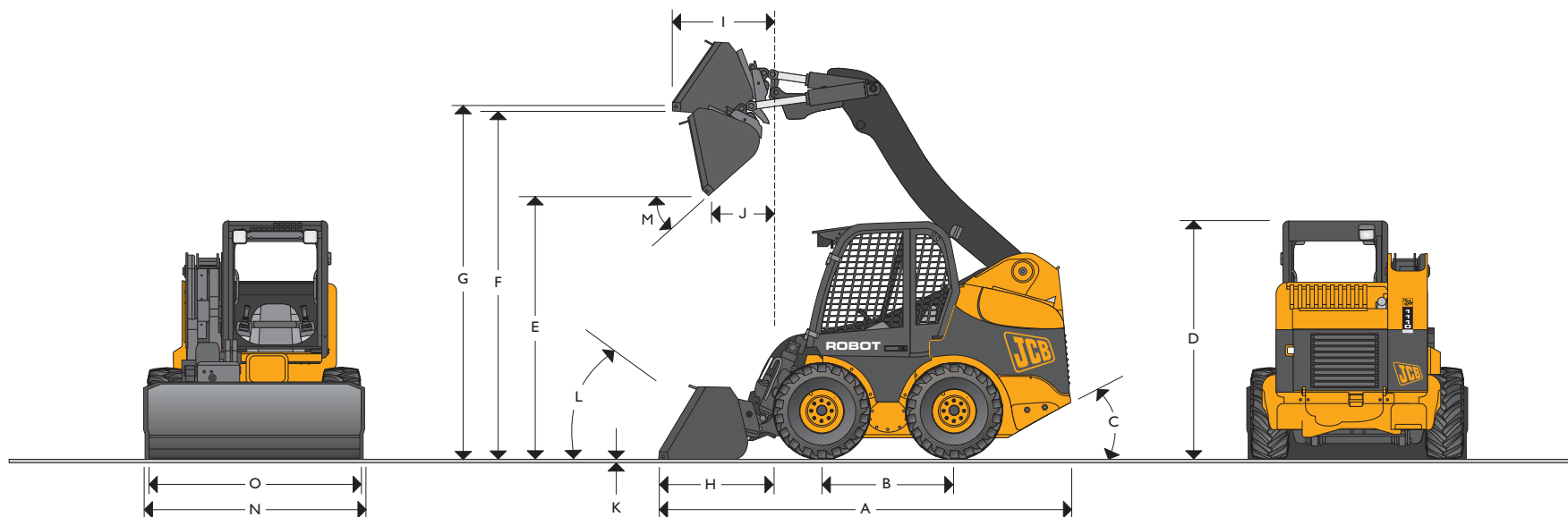


OPERATING WEIGHT:

7717lb and 8214lb (3500kg and 3725kg)

OPERATING CAPACITY:

1985lb and 2425lb (900kg and 1100kg)



STATIC DIMENSIONS

		190	1110
		ft-in (mm)	ft-in (mm)
A	Overall length	11-6 (3500)	11-6 (3500)
B	Wheel base	3-8 (1126)	3-8 (1126)
C	Departure angles	degrees 28°	degrees 28°
D	Overall height	6-7 (2014)	6-7 (2014)
E	Dump height	7-11 (2423)	7-11 (2423)
F	Loadover height	9-8 (2954)	9-8 (2954)
G	Pin height	10-3 (3114)	10-3 (3114)
H	Reach at ground (toe plate horizontal)	3-4 (1004)	3-4 (1004)
I	Max reach at full height	3-1 (941)	3-1 (941)
J	Reach at full height – fully dumped	2-1 (633)	2-1 (633)
K	Dig depth (toe plate horizontal) clearance	0.37 (9)	0.37 (9)
L	Rollback at ground	degrees 30°	degrees 30°
M	Dump angle	degrees 40°	degrees 40°

		190	1110
		ft-in (mm)	ft-in (mm)
N	Bucket width – standard	6-2 (1879)	6-2 (1879)
	Bucket width – optional	6-8 (2031)	6-8 (2031)
O	Width over tires – standard	5-7 (1691)	5-7 (1691)
	Width over tires – optional	5-11 (1792)	5-11 (1792)
	Loader breakout – bucket	SAE lb (kg) 4387 (1990)	4387 (1990)
	Maximum tipping load	SAE lb (kg) 3969 (1800)	4851 (2200)
	Bucket capacity – standard	cu. yd. (cu. m) 0.65 (0.5)	0.68 (0.52)
	Pallet fork rated capacity (50% safety factor at 24in load center) EN lb (kg)	1557 (706)	1777 (806)
	Pallet fork lift height	9-11 (3024)	9-11 (3024)
Turning radius			
	Bucket corner radius	7-3 (2199)	7-3 (2199)
	Quick hitch radius	4-3 (1296)	4-3 (1296)
	Rear chassis radius	5-6 (1664)	5-6 (1664)

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MACHINE RATING

Rated operating capacity (SAE):	lb (kg)
Wheeled 190 (50%)	1985 (900)
Wheeled 1110 (50%)	2425 (1100)
Tipping load:	
Wheeled 190	3969 (1800)
Wheeled 1110	4851 (2200)

ENGINE

4 cylinder: 1104C-44. Engine conforms with EC mobile off-highway emissions regulations, Tier 2. Direct injection, 190 is naturally aspirated – 4 liters, 1110 is turbo displacement. Water cooled.

		190	1110
Gross power @ 2200rpm			
SAE J1995	hp (kW)	80 (60)	92 (69)
NET power @ 2200rpm			
SAE J1349 EEC 80/1269	hp (kW)	70 (52.5)	82 (61.5)
Gross torque @ 1200rpm			
SAE J1995	lb/ft (Nm)	223 (302)	286 (388)
NET torque @ 1200rpm			
SAE J1349 EEC 80/1269	lb/ft (Nm)	219 (297.5)	283 (383.5)

Exhaust smoke R24.03. Exhaust emissions 97/68/EC Stage 2. Engine oil service intervals: 500 hours.

TRANSMISSION

The full servo and optional manual controlled hydrostatic transmission giving zero to maximum speed, both forward and reverse at full power.

Independent transmission systems for both the left and right side, controlled through either servo or optional manual controls for precise and easy operation.

Travel speeds both forward and reverse:

190 Wheeled	6.9 mph (11 kph)
1110 Wheeled	6.9 mph (11 kph)
Optional 2 speed	11.2 mph (18kph)

CAPACITIES

190 and 1110	US gal (liters)
Hydraulic system (inc. Tank)	9.2 (35)
Fuel tank	28.2 (107)
Chain cases:	
LH	2.85 (10.8)
RH	3.3 (12.5)
Engine coolant	3.9 (15)
Engine oil	2.25 (8.5)

CONTROLS

Three machine control format options. JCB full servo controls reduce lever efforts to a minimum and are logical and simple to use. Alternatively either manual hand or manual hand and foot controls well known and accepted by the skid steer buyer and operator. With all options the left hand control lever pivots rearwards as the operator restraint is raised, providing unparalleled machine entry and exit.

WEIGHT

SAE operating weight.

Fully operational with quickhitch, standard bucket, full fuel tank, fully glazed cab + 176lb (80kg) operator:

190 Wheeled	7717lb (3500kg)
1110 Wheeled	8214lb (3725kg)

TIRES

Standard – 12 x 16.5 – 10 pr

Available Options – Heavy Duty
Wide Track
Lifemaster
33/15.5 x 16.5 Extra Floatation
XZM
XZSL
JCB Airboss
Solids

Floatation tires are fitted for most applications. *For arduous conditions and hostile environments JCB Airboss tires or solid tires are recommended.

*For hard standing, heavy duties are recommended.

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HYDRAULICS

In addition to the main hydrostatic drive pumps, there is a dedicated loader and attachments supply pump (auxiliary hydraulics circuit optional on 190 and 1110 models, standard on high flow machines).

Pump flow: 20 US gal/min (76 liters/minute) at 2200rpm engine speed.

Main relief pressure 2682 psi (185 bar).

- Low lever efforts give excellent and easy control of transmission loader and attachments.
- With manual hand and servo control formats the auxiliary hydraulics are foot pedal operated. With manual hand and foot controls the auxiliary hydraulic circuit is actuated via the right hand control lever. Both formats give progressive control of oil flow for precise attachment control.
- Hydraulic supply pipes run neatly on top of the loader arm under a protective guard for long life.
- Full flow, spin-on type hydraulic oil filter.
- Engine oil throughout for ease of servicing.
- The optional hi-flow circuit provides 32 US gal/min (120 liters/min) pump flow to the front of the machine for operation of high capacity attachments such as cold planers and trenchers.

LIGHTING AND ELECTRICS

12 volt, negative ground system.

95 Ah low maintenance battery.

72 amp alternator.

Roof console mounting of ignition, control switches, fuel gauge and hourmeter.

Also incorporated into the roof console the warning light cluster, with a warning buzzer to draw operator's attention to any malfunction, which includes:

- No charge pressure
- Blocked airfilter
- Engine water temperature
- Engine oil pressure
- Hydraulic oil pressure
- Alternator

Cab mounted fuse and relay box designed to keep dirt and water out.

OPERATOR ENVIRONMENT

Full ROPS and Level 1 FOPS with optional Level 2 guard for demolition. Soundproofing gives noise levels complying with EC regulations. Convenient and safe access through side door – thanks to JCB's unique single arm design.

- Unequalled all-round visibility.
- Fully adjustable seat.
- Seat belt fitted as standard.
- Drainage cover for easy cleaning of cab.

All in a bigger, more comfortable cab with a superior control layout.

STANDARD EQUIPMENT

ROPS and FOPS integrated canopy. Full audible and visual warning systems. Restraint activated safety system. Loader arm safety strut. Centrifugal dry type engine air filter with safety element. Self lubricating axle bearings. Standard bucket. Mechanical quickhitch. Hand throttle. Servo emergency lower valve. Fuel gauge. Oil immersed fail safe hydraulic park brake.

OPTIONAL EQUIPMENT

Fully glazed cab with heater/defroster. Air conditioning. Suspension seat. Road lights. Work lights. Reverse alarm. Beacon. Foot throttle (not with foot control format). Fire extinguisher. Toolkit. Roof screen (standard on cab) Self levelling lift. Float. Level 2 FOPS guard. Heavy duty rear door guard. Front screen guard. Auxiliary hydraulics. Bolt on lift points. Battery isolator. Accessory socket. Right hand fender. Backhoe mounting brackets. Catalytic converter. Spark arrestor. Tooth guards. Steel tracks. Twine cutters.

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A GLOBAL COMMITMENT TO QUALITY

JCB's total commitment to its products and customers has helped it grow from a one-man business into the World's 5th largest manufacturer of backhoe loaders, crawler excavators, wheeled excavators, telescopic handlers, wheel loaders, dump trucks, rough terrain fork lifts, industrial fork lifts, mini/midi excavators, skid steer loaders and tractors.

By making constant and massive investments in the latest production technology, the JCB factories have become some of the most advanced in the World.

By leading the field in innovative research and design, extensive testing and stringent quality control, JCB machines have become renowned all over the world for performance, value and reliability.

And with a global sales and service network of over 400 distributors and agents, the company exports over 70% of its production to all five continents.

Through setting the standards by which others are judged, JCB has become one of Britain's most impressive success stories.



JCB Headquarters Savannah, 2000 Bamford Blvd., Pooler, GA 31322. Tel: 912.447.2000. Fax: 912.447.2299. www.jcb.com

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