

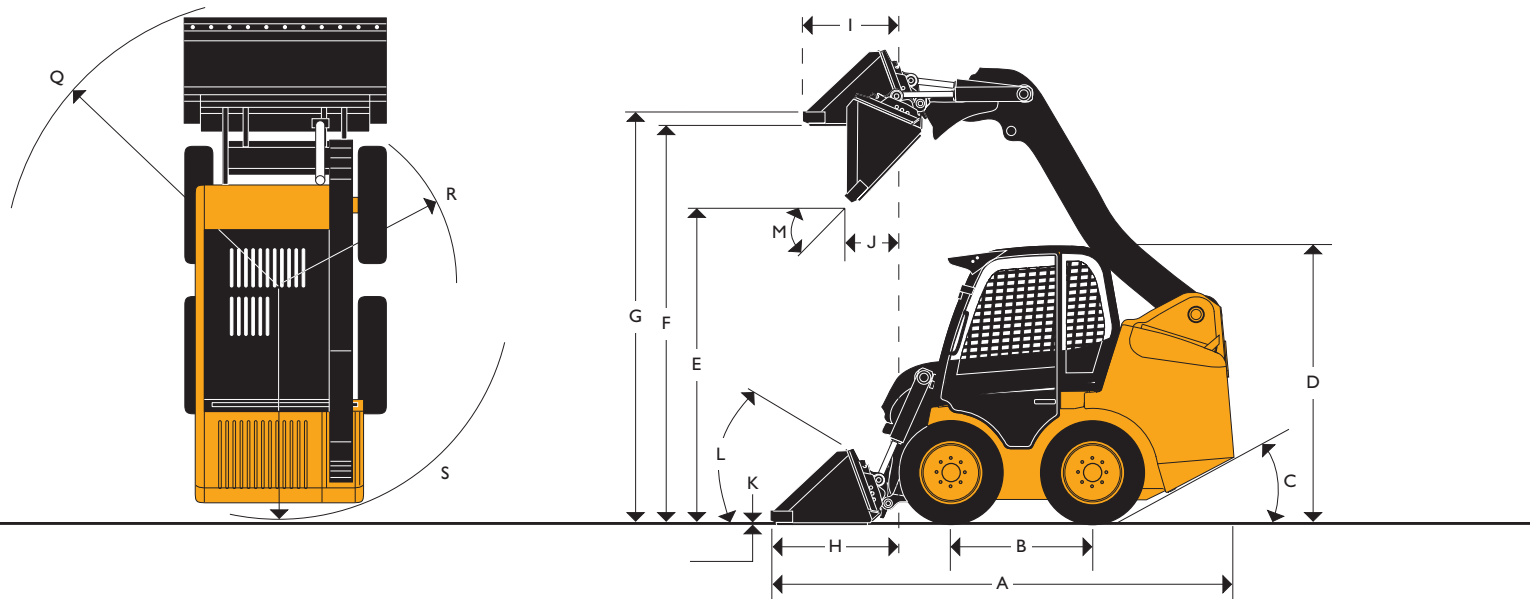


JCB ROBOT SKID STEERS | 160/170



OPERATING WEIGHT: 2410kg and 2510kg

OPERATING CAPACITY: 600kg and 700kg



STATIC DIMENSIONS

	160	170
	m (ft-in)	m (ft-in)
A Overall length	3.21 (10-6.5)	3.27 (10-8.5)
B Wheel base	0.98 (3-2.5)	1.03 (3-4.5)
C Departure angles	degrees 28°	degrees 28°
D Overall height	1.93 (6-4)	1.94 (6-4.5)
E Dump height	2.16 (7-1)	2.29 (7-6)
F Loadover height	2.65 (8-8)	2.78 (9-1.25)
G Pin height	2.80 (9-2.25)	2.93 (9-7.25)
H Reach at ground (toe plate horizontal)	0.87 (2-10.25)	0.86 (2-9.25)
I Max reach at full height	0.86 (2-9.75)	0.76 (2-6)
J Reach at full height – fully dumped	0.57 (1-10)	0.47 (1-6.50)
K Dig depth (toe plate horizontal) clearance	0 (0-0)	0 (0-0)
L Rollback at ground	degrees 30°	degrees 30°
M Dump angle	degrees 40°	degrees 40°
Shovel width – standard	1.43 (4-8)	1.58 (5-2)

	160	170
	m (ft-in)	m (ft-in)
Shovel width – optional	1.55 (5-1)	1.73 (5-8)
Width over tyres – standard	1.37 (4-6)	1.60 (5-3)
Width over tyres – optional	1.52 (5-0)	1.52 (5-0)
Loader breakout – shovel	SAE tonnes 1.36	1.45
Lift capacity at full height	SAE kg (lb) 600 (1322)	700 (1543)
Maximum tipping load	SAE kg (lb) 1200 (2645)	1400 (3086)
Shovel capacity – standard	cu. m (cu. yd.) 0.29 (0.38)	0.36 (0.47)
Pallet fork rated capacity (50% safety factor at 400mm load centre) EN	495kg (1090lb)	555kg (1225lb)
Pallet fork lift height	2.70 (8-10)	2.83 (9-3.5)
Turning radius		
Q Bucket corner radius	1.87 (6-1.5)	1.97 (6-5.5)
R Quick hitch radius	1.20 (3-11.25)	1.22 (4-0)
S Rear chassis radius	1.58 (5-2)	1.62 (5-3.5)



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MACHINE RATING

Rated operating capacity (SAE):	kg
160	600
170	700
Tipping load:	
160	1200
170	1400

ENGINE

4 cylinder: 404C-22, Engine conforms with EC mobile off-highway emissions regulations, Tier 2, 4 stroke, diesel engine. Indirect injection, naturally aspirated – 2.2 litres displacement. Water cooled.

		160	170
Gross power		@ 2600rpm	@ 2800rpm
SAE J1995	kW (hp)	35 (47)	37.5 (50)
NET power		@ 2600rpm	@ 2800rpm
SAE J1349 EEC 80/1269	kW (hp)	33 (44)	35 (47)
Gross torque @ 1800rpm			
SAE J1995	Nm (lb/ft)	143 (105)	143 (105)
NET torque @ 1800rpm			
SAE J1349 EEC 80/1269	Nm (lb/ft)	138 (102)	138 (102)

Exhaust smoke R24.03. Exhaust emissions 97/68/EC. Engine oil service intervals: 500 hours. Fast start glow plugs.

TRANSMISSION

Manual or optional full servo 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 manual or servo hand controls for precise and easy operation.

Travel speeds both forward and reverse:

160	10 kph (6.25mph)
170	11 kph (6.8mph)

CAPACITIES

160 and 170	litres (gal)
Hydraulic system (inc. Tank)	30 (6.5)
Fuel tank	80 (17.6)
Chain Case	17 (3.7)
Engine coolant	8 (1.75)
Engine oil	9.6 (2.1)

CONTROLS

Three machine control format options. Either manual hand only or manual hand and foot controls provide patterns well known and accepted by the skid steer buyer and operator. Alternatively, full servo control joysticks reduce lever efforts to a minimum. With all options the left hand control lever pivots rearwards as the operator restraint is raised providing unparalleled machine entry/exit.

WEIGHT

SAE operating weight.

Fully operational with quickhitch, standard shovel, full fuel tank, fully glazed cab + 80kg operator:

160	2410kg (5310lb)
170	2510kg (5532lb)

TYRES

7 x 15 6PR
 JCB Airboss
 XZM
 XZSL
 Solids
 10 x 16.5 6PR
 31.5/13 x 16.5 Floatation

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

*for hard standing, heavy duty tyres 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 160 and 170 models, standard on 170 HF).

Pump flow 160: 55 litres/minute
(12 gal/min) at 2600rpm engine speed.
Main relief pressure 185 bar (2683 psi).

Pump flow 170: 60 litres/minute
(13 gal/min) at 2800rpm engine speed.
Main relief pressure 185 bar (2683 psi).

- 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 115 litres/min (25 gal/min) pump flow to the front of the machine for operation of high capacity attachments such as cold planers.

LIGHTING AND ELECTRICS

12 volt, negative ground system.

95 Ah low maintenance battery.

55 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. 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 shovel. Mechanical Quickhitch. Hand throttle. Worklights (EC only). Servo emergency lower valve. Fuel gauge. In-line diesel filter. Right hand fender (170 only). Park brake.

OPTIONAL EQUIPMENT

Fully glazed cab with heater/demister. Air conditioning. Suspension seat. Road lights. Work lights (not EC). Reverse alarm. Beacon. Foot throttle (not with foot control format). Fire extinguisher. Toolkit. External mirror. Polyscreen kit. 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 (160 only). Backhoe mounting brackets. Servo speed controller (standard on HF). Heavy duty pre-cleaner. Catalytic converter. Spark arrestor. Tooth guards. Twine cutters. Over tyre tracks. Engine block heater. Single lift point frame. Additional counterweights.