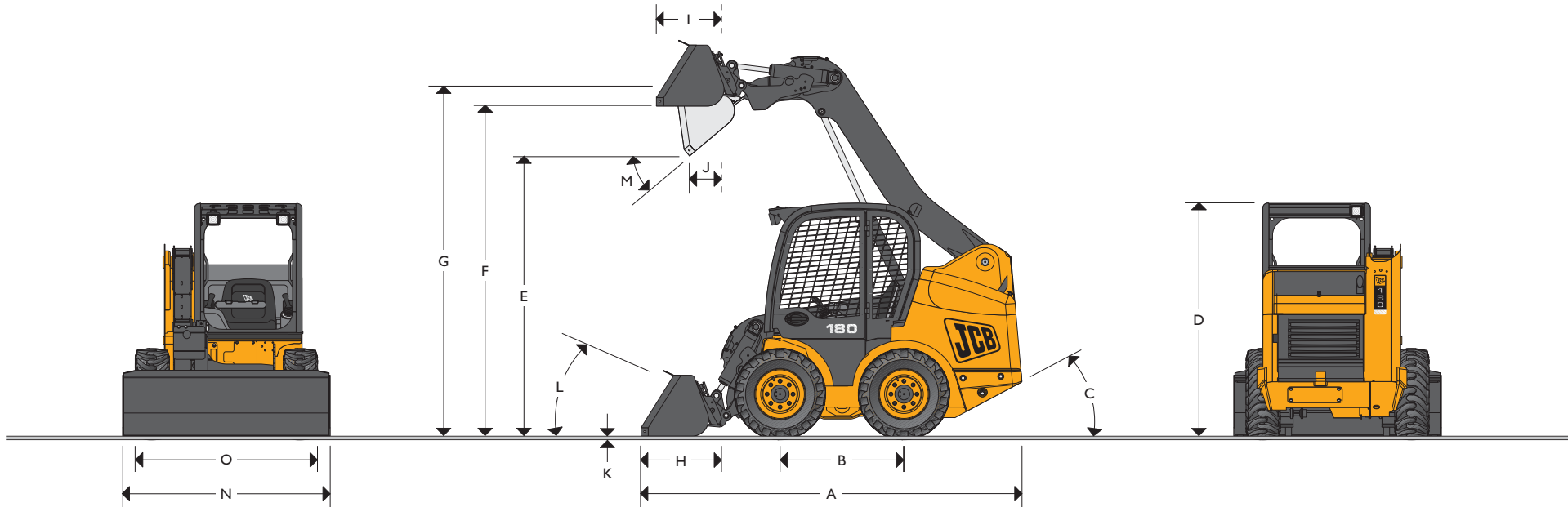




# JCB ROBOT SKID STEER LOADERS | 160/170/180



OPERATING WEIGHT: 2650kg, 2715kg and 2740kg  
 OPERATING CAPACITY: 630kg, 720kg and 820kg



## STATIC DIMENSIONS

	160 m (ft-in)	170/180 m (ft-in)
A Overall length	3.27 (10-8½)	3.27 (10-8½)
B Wheel base	1.03 (3-4½)	1.03 (3-4½)
C Angle of departure	28°	28°
D Overall height	1.93 (6-4)	1.94 (6-4½)
E Dump height	2.16 (7-1)	2.29 (7-6)
F Loadover height	2.65 (8-8)	2.78 (9-1¼)
G Height to hinge pin, fully raised.	2.80 (9-2¼)	2.93 (9-7¼)
H Reach at ground level (toe plate horizontal)	0.86 (2-9¼)	0.86 (2-9¼)
I Max reach at full height	0.76 (2-6)	0.76 (2-6)
J Reach at full height – fully dumped	0.47 (1-6½)	0.47 (1-6½)
K Dig depth (toe plate horizontal) clearance	-15mm (-½)	-15mm (-½)
L Rollback at ground	30°	30°
M Dump angle	40°	40°
N Shovel width – standard	1.43 (4-8)	1.58 (5-2) / 1.73 (5-8)

	160 m (ft-in)	170/180 m (ft-in)
Shovel width – optional	1.58 (5-2)	1.73 (5-8)
O Width over tyres – standard	1.37 (4-6)	1.52 (4-11¼) / 1.60 (5-3)
Width over tyres – optional	1.52 (5.0)	1.52 (5.0)
Lift capacity at full height	SAE kg 630	720 / 820
Maximum tipping load	SAE kg 1260	1440 / 1640
Shovel capacity – standard	cu.m 0.29	0.36 / 0.45
Pallet fork rated capacity (50% safety factor at 400mm load centre) EN	495kg	555kg / 615kg
Pallet fork lift height	2.70 (8-10)	2.83 (9.3½)
<b>Turning radius</b>		
Bucket corner radius	1.97 (6.5½)	1.97 (6.5½)
Quick hitch radius	1.22 (4-0)	1.22 (4-0)
Rear chassis radius	1.62 (5.3½)	1.62 (5.3½)



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## MACHINE RATING

Rated operating capacity (SAE):		kg
160		630
170		720
180		820
Tipping load:		
160		1240
170		1440
180		1640
Breakout force		
Lift cylinder 160/170/180	kgf	1505
Tilt cylinder 160/170/180	kgf	1863

## ENGINE

		160/170	180
Model		Perkins 404D-22	Perkins 404DT-22
Displacement	litres	2.2	2.2
Fuel		Diesel	Diesel
Cooling		Water	Water
Bore	mm	84	84
Stroke	mm	100	100
Gross power @ 2800 rpm			
ISO 14396	kW (hp)	37.3 (50)	44.7 (60)
Gross torque @ 1800 rpm			
ISO 14396	Nm (lb/ft)	143 (105)	192 (141.6)
Emission certification		EC Stage IIIA/USA EPA Tier 3	EC Stage IIIA/USA EPA Tier 3
Engine oil service intervals		500 hours	500 hours

## TRANSMISSION

The 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 servo controls for precise and easy operation. Transmission power management system maintains full engine power availability maximising loader and attachment control.

**Travel speeds both forward and reverse:** 11 kph (6.8mph)

## CAPACITIES

160, 170 and 180	litres (gal)
Hydraulic system (inc. Tank)	33 (8.7)
Fuel tank	80 (17.6)
Engine coolant	10 (2.64)
Engine oil	9.6 (2.5)
Chain case	17 (3.7)

## CONTROLS

Three machine control format options. JCB full servo controls, which reduce lever efforts to a minimum, alternatively, either full servo hand or servo hand and manual foot controls provide patterns well known and accepted by the skid steer buyer and operator. With all options the left hand control lever pivots rearwards, providing unparalleled machine access/egress.

## WEIGHT

### SAE operating weight.

Fully operational with quickhitch, standard shovel, full fuel tank, fully glazed cab + 75kg operator

**160** 2650 kg

**170** 2715 kg

**180** 2740 kg

## TYRES

**160 Standard** – 700 x 15 – 6pr

**170 Standard** – 10 x 16.5 – 6pr

**180 Standard** – 10 x 16.5 – 8pr

**Available Options** – Standard Track  
Heavy Duty  
Lifemaster  
Extra Floation  
XZM  
XZSL  
JCB Airboss  
Solid Industrial

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

\*For hard standing duties heavy duty tyres are recommended.



# JCB ROBOT SKID STEER LOADERS | 160/170/180



## HYDRAULICS

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

**Pump flow:** 68 litres / minute (17.7gal/min) @ 2800 rpm engine speed  
Main relief pressure 205 bar (3000 psi)

- Low lever efforts give excellent and easy control of transmission loader and attachments.
- Auxiliary hydraulics are actuated via the right hand controller giving 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 124 litres/min (32.5 gal/min) pump flow to the front of the machine for operation of high capacity attachments such as trenchers and patch planers.

## OPERATOR ENVIRONMENT

Full ROPS and Level I FOPS with optional level 2 guard for demolition, full audio and visual warning systems 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.
- Retractable 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. Isolation bar activated safety system. Loader arm safety strut. Centrifugal dry type engine air filter with safety element. Standard shovel. Mechanical quickhitch. Hand throttle. Worklights (EC only). Servo emergency lower valve. Fuel gauge. Hydraulic park brake.

## OPTIONAL EQUIPMENT

Fully glazed cab with heater / demister. Suspension seat. Air conditioning. Road lights. Work lights (not EC). Reverse alarm. Beacon. Foot throttle (not with foot control format). Fire extinguishers. Toolkit. 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. Backhoe mounting brackets. Catalytic converter. Spark arrestor. Tooth guard. Speed controller.



## A GLOBAL COMMITMENT TO QUALITY

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

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 more than 650 dealers and agents, we aim to deliver the best customer support in the industry.

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

