

SPECIFICATION



MINI EXCAVATOR | 35Z-1

Operating weight: 7840 lbs Net engine power: 23.1 hp



Choosing a compact excavator just got tougher.

The new 35Z-I are Tier 4 final machines with no need for electronic control, aftertreatment or EGR. The zero tailswing allows for easy and safe maneuverability, and has 100% steel bodywork.



EASE OF USE.

New dig end geometry and superior visibility makes dumper loading easy. Tilt-rotate option available to give you ultimate flexibility.

TOUGH.

Hoses are routed through the dig end for maximum protection against damage and wear, while O-ring face sealed hydraulic connections protect against leaks.

A BETTER PLACE TO WORK.

With a spacious cab, clear flat floor and hands-free bluetooth radio with media socket, our 35Z-I excavator cabs are great places to work.



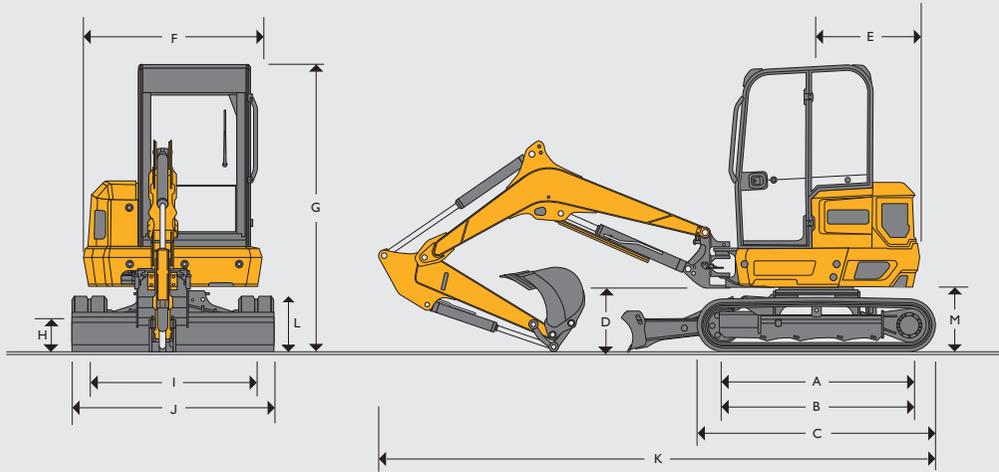
SAFETY.

Seatbelt-activated green beacon (optional), follow-me-home lights, lift overload system and JCB's unique 2GO system, all contribute to safer working.

LOW COST OF OWNERSHIP.

Minimum downtime with the help of an on-screen health check display and an easy-to-clean sloping undercarriage for a rapid turnaround.

STATIC DIMENSIONS



Machine model		35z-1
A	Sprocket idler centers	ft-in 5ft 3in
B	Track length on ground	ft-in 5ft 3in
C	Undercarriage overall length – rubber	ft-in 6ft 9in
	Undercarriage overall length – steel	ft-in 6ft 9in
D	Kingpost clearance	ft-in 1ft 10in
E	Tailswing radius (Standard / Heavy counterweight)	ft-in 2ft 11in / 3ft 3in
F	Overall width of superstructure	ft-in 5ft 1in
G	Height over cab	ft-in 8ft 2in
H	Ground clearance	ft-in 0ft 11in
I	Track gauge	ft-in 4ft 7in
J	Width over tracks	ft-in 5ft 9in
K	Transport length with standard dipper	ft-in 15ft 11in
L	Track height	ft-in 1ft 7in
M	Counterweight clearance	ft-in 1ft 10in

ENGINE

Machine model		35z-1
Model		EPA Tier 4 Final Perkins 403J-17
Fuel		Diesel
Cooling		Water cooled
Gross power ISO 14396	HP	24.7 (@ 2200rpm)
Net power	HP	23.1 (@ 2000rpm)
Gross torque ISO 14396	lbf	67.8 (@ 1600rpm)
Displacement	cc	1662
Gradeability	degrees	30
Starter motor	HP	2
Battery	volt / amps	12V / 80Ah
Alternator	amps (Air con)	85

UNDERCARRIAGE

Machine model		35Z-1
No of top rollers		1
No of bottom rollers		4
Track width rubber (STD)	ft-in	1ft 0in
Track width steel	ft-in	1ft 0in
Ground bearing pressure (400mm tracks)	psi	4.5
Track tensioning		Grease
Travel speed – low	mph	1.74
Travel speed – high	mph	2.8
Tractive effort	lbf	5755

HDRAULIC SYSTEM

Machine model		35z-1
Pump		
Nominal output @ 2000rpm	gpm	20.08
Excavator/track main relief pressure	psi	3626
Slew main relief pressure	psi	3133
Auxiliary hydraulic pressure (Low)	psi	STD: 2756 ADJ: 1740-3626
Auxiliary hydraulic pressure (High)	psi	STD: 2756 ADJ: 1740-3626
Auxiliary hydraulic flow (Low)	gpm	7.93
Auxiliary hydraulic flow (High)	gpm	18.49
Hydraulic pump		Variable Displacement Piston

WEIGHTS

Machine model		35z-1
Operating weight*	lbs	7840
Shipping** weight	lbs	7432
Canopy	lbs	-179
Heavy counterweight	lbs	542
1600 dipper	lbs	33
No quick hitch or pipework	lbs	-117
No lifting kit or HBCVs	lbs	-53

*35Z-1 Operating weight to ISO 6016 including cab, rubber tracks, 4'3" dipper, standard counterweight, 2-way dozer, High Flow Aux circuit, lifting kit inc. HBCVs, hydraulic quick hitch, 18" bucket, full tanks and a 165lbs operator.

**Shipping weight to ISO 6016 is Operating weight of machine, without an operator or bucket/attachment, and with the fuel level at 10% of tank capacity.

SERVICE CAPACITIES

Machine model		35z-1
Fuel tank	gal	13.2
Engine coolant	gal	1.85
Engine oil	gal	1.37
Hydraulic system	gal	12.55
Hydraulic tank	gal	5.36

OPERATOR ENVIRONMENT

Machine model		35z-1
Cab/canopy height	ft-in	5ft 2in
Cab/canopy height with FOGS guard LEVEL I	ft-in	5ft 3in
Cab/canopy length	ft-in	4ft 2in
Cab/canopy width	ft-in	3ft 5in
Door aperture width	ft-in	1ft 7in

STANDARD EQUIPMENT

Fully glazed ROPS & TOPS certified cab with programmable Intermittent wiper with wash/wipe, 3 speed heater/demister with adjustable air vents, LCD display, Digital clock, Internal lockable toolbox, Cup holder & bottle holder, Coat hook, bluetooth radio, 12V accessory socket, Interior light, Full audio/visual warning systems, Auto idle throttle, 8 power bands, ISO servo controls with electro-hydraulic dozer lever, Electro-proportional thumb controlled high flow double acting auxiliary, 10 programmable auxiliary flow rates, Joystick mounted hammer switch, Neutral start, Full control isolation, "2GO" hydraulic isolation, High back suspension seat, removable floormat, Beacon ready kit, Two speed tracking, Auto-kickdown track motors, 12in short pitch rubber tracks, Double element air cleaner, Heavy-duty alternator, Heavy-duty battery, Hydraulic slew braking with disc type park brake, ORFS hydraulics, Colour coded hydraulic hoses, 500 hour dig end & dozer greasing intervals, Heavy duty boom cylinder guard, Protected boom worklight, Quick release auxiliary couplers, 100% steel bodywork, dedicated tie down and lifting points, CESAR datatag (UK only).

OPTIONAL EQUIPMENT

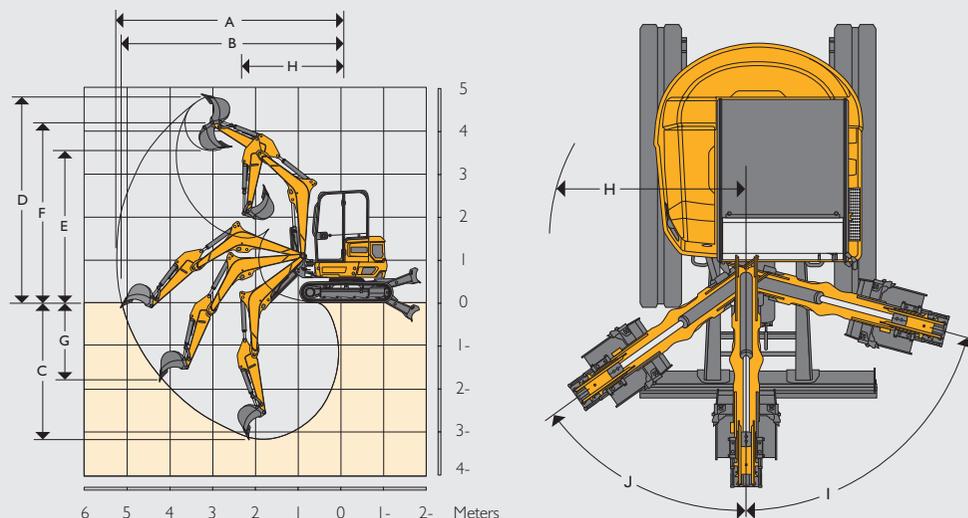
Air-conditioning, FOPS guard stage I, Hose burst check valve lifting kit (dozer, boom & dipper), Mechanical quickhitch, Hydraulic quickhitch, Hydraulic quickhitch ready pipework, General purpose digging buckets, Ditch/grading buckets, Hydraulic hammers, LED rotating beacon, Travel alarm, Toolkit, Seatbelt engaged green beacon, Hydraulic thumb, Grease gun & cartridge, Exterior cab mounted mirrors, JCB Immobiliser (Unique key or keypad system), Dozer float, 4-way angled dozer blade, Dual pattern controls (ISO/SAE change-over), Thumb ready dipper, Special paint options, ROPS & TOPS certified canopy, Tilt rotate ready installation, JCB Livelink.

*Standard and optional specifications may vary depending on regions. Please contact your dealer for more information.

DOZER

Machine model		35z-1	35z-1
Dozer type		2-way	4-way
Dozer length	ft-in	5ft 5in	5ft 7in
Max height above ground	ft-in	1ft 5in	1ft 5in
Dig depth below ground	ft-in	1ft 4in	1ft 6in
Approach angle	degrees	29	27
Width	ft-in	5ft 9in	5ft 9in
Height	ft-in	1ft 2in	1ft 2in
4-way pivot angle	degrees	-	25

WORKING RANGE



		35z-1	
Dipper length	ft-in	4ft 3in	5ft 3in
Boom length	ft-in	8ft 0in	
A Max digging reach	ft-in	16ft 1 1/2in	17ft 10in
B Max digging reach on ground	ft-in	16ft 6in	17ft 6in
C Max digging depth – dozer up	ft-in	10ft 0in	10ft 1 1/2in
Max digging depth – dozer down	ft-in	10ft 6in	11ft 5in
D Max digging height	ft-in	15ft 0in	15ft 6in
E Max dump height	ft-in	11ft 1in	11ft 7in
F Max height to dipper nose pivot pin	ft-in	13ft 1in	13ft 7in
G Max vertical wallcut depth	ft-in	5ft 3in	6ft 2in
H Min front swing radius (no offset)	ft-in	7ft 10in	8ft 1in
Min front swing radius (fully offset)	ft-in	6ft 2in	6ft 5in
I Boom swing left	degrees	75	
J Boom swing right	degrees	55	
Bucket rotation	degrees	191	
Dipper rotation	degrees	109.2	
Bucket tearout	lbf	7284	
Dipper tearout	lbf	5058	4429
Slew speed	rpm	8.3	

LIFT CAPACITIES – RUBBER TRACKS, 8FT 0IN BOOM, 4FT 3IN DIPPER, STANDARD COUNTERWEIGHT, NO BUCKET. **35Z-I**

Load Point	4ft 11in			8ft 2in			11ft 6in			14ft 9in			Capacity at maximum reach		
															
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side
ft-in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs						
8ft 2in							1076	1634	1182						
6ft 7in				1799	2390	1956	1049	1830	1153						
4ft 11in				1693	3276	1843	1016	2079	1118	683	1761	756	683	1761	756
3ft 3in							983	2332	1082	672	1834	745	672	1834	745
1ft 8in				1556	4445	1700	957	2540	1054	664	1894	736	664	1894	736
0ft 0in				1539	4548	1682	939	2668	1036						
-1ft 8in	3219	3294	3481	1539	4467	1680	933	2696	1027						
-3ft 3in	4072	4663	4295	1548	4224	1691	935	2595	1032						
-4ft 11in	4114	6261	4336	1572	3777	1715	955	2258	1052						
-6ft 7in	4193	6036	4418	1612	2961	1759									

LIFT CAPACITIES – RUBBER TRACKS, 8FT 0IN BOOM, 5FT 3IN DIPPER, HEAVY COUNTERWEIGHT, NO BUCKET. **35Z-I**

Load Point	4ft 11in			8ft 2in			11ft 6in			14ft 9in			Capacity at maximum reach		
															
Height	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side	Dozer Up	Dozer Down	Over Side
ft-in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs						
9ft 10in							1230	1259	1332						
8ft 2in							1274	1378	1389	836	1475	917			
6ft 7in							1246	1585	1356	829	1515	908			
4ft 11in				2039	2687	2200	1208	1850	1316	816	1601	893	734	1433	805
3ft 3in				1931	3552	2086	1171	2132	1276	800	1700	877	723	1638	796
1ft 8in				1858	4149	2011	1138	2379	1241	787	1795	864	714	1550	785
0ft 0in				1823	4436	1973	1113	2560	1217	778	1858	853			
-1ft 8in	2782	2846	3007	1810	4491	1960	1100	2652	1202	774	1856	851			
-3ft 3in	3794	3882	4103	1812	4365	1962	1098	2632	1199						
14ft 11in	4749	5073	4967	1830	4054	1978	1107	2465	1208						
-6ft 7in	4822	6557	5042	1861	3483	2011									
-8ft 2in	4941	5064	5163	1920	2352	2077									

 Lift capacity over front.

 Lift capacity full circle.

Notes:

1. Lifting capacities are based on ISO 10567, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is the less. Lifting capacities marked* are based on hydraulic capacity.
2. Lift capacities assume that the machine is on firm level ground and equipped with an approved lifting point.
3. A bucket must be fitted when lifting, the weight of this bucket must be deducted from the above lift capacities.
4. Lift capacities may be limited by local regulations. Please refer to your dealer.



ONE COMPANY, OVER 300 MACHINES.

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Mini Excavator 35z-1

Operating weight: 7840lbs Net engine power: 23.1hp

JCB North America

2000 Bamford Blvd., Pooler, Georgia, 31322 Tel: (912) 447-2000

Download the very latest information on this product range at www.jcb.com

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DWUSA 5633 / Apr 2021

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