



MINI EXCAVATORS | 8035 ZTS

Operating weight: 3651 kg Net engine power: 22.7 kW



PRODUCTIVITY AND PERFORMANCE.

THE 8035 ZTS MINI EXCAVATORS OFFER TRUE ZERO TAILSWING AND RECOGNISE THE NEED FOR EVER-MORE-COMPACT MACHINES THAT STILL DELIVER SPEED, POWER AND PRODUCTIVITY. YET THEY NEVER COMPROMISE ON EASE OF OPERATION AND CONTROL.



Benchmarked against conventional as well as zero tailswing models, we know from your feedback that these minis can more than compete, particularly when it comes to stability and power.

Reliability built in.

- 1** The undercarriage gives optimum protection against site damage. And the sloped track frame helps to prevent dirt build up.
- 2** Excavator hoses are routed on top of the boom to give maximum protection against damage.
- 3** Simple design and durable components ensure reliability is built-in.



Componentry.

4 Powerful engine linked to a variable displacement pump provides plenty of digging power. While a two-speed tracking motor, excellent tractive effort and traction.

5 These machines also boast optional hose burst check valves, allowing these excavators to comply with legislation for lifting over 1 tonne.

6 Hydraulic system boasts the latest industry technology "O-Ring Face Seal" (ORFS) hydraulic fittings providing excellent sealing capabilities.



PRODUCTIVITY AND PERFORMANCE.

THE 8035 BOASTS A BIGGER 1.7 LITRE ENGINE TO MATCH THE INCREASED SIZE OF THE MACHINE, GIVING YOU IMPRESSIVE TEAROUT FORCES, AND HIGH LEVELS OF TRACTIVE EFFORT AND TRACKING SPEEDS.

Power and stability.

Z All machines have excellent digging performance giving impressive tearout forces, and high levels of tractive effort.

E Stability is key on ZTS machines, so we've paid close attention to the undercarriages of these models, ensuring they give you the safest platform for hard working. The undercarriage dimensions are optimised to ensure good stability both in line and over the sides of the tracks, and to allow for ease of manoeuvring and low-effort turns.

S ZTS offers more manoeuvrability (especially in confined spaces) because there is no overhang on the tracks.



The powerful 'Maxi-Lift' dozer can effortlessly power down and lift the machine off the ground to gain extra load over height.

Dozer.

10 The unique JCB dozer design also features an improved curved profile at the front which forms material into a roll that then keeps moving away from the machine rather than building up and acting as an obstacle. The H-frame undercarriage design (as well as being more rigid) also features lots of slopes and exit points to help ensure material doesn't build up underneath the machine and impede performance.

Undercarriages are matched to the dig envelope for stability and performance.

Hydraulics.

11 A changeover button on the joystick lets you switch the right pedal between auxiliary service and boom offset function. In boom offset mode, you can operate the slew of the upper structure and the boom at the same time, allowing you to get this JCB mini digger into the correct position straight away. Plus this foot pedal is servo operated for low-effort, precise control.

12 For ready-to-go versatility, all models feature single-acting auxiliary pipework to the dipper as standard for powering breaker attachments.

Double-acting pipework (e.g. for powering earth drills) is also available as an option, allowing you to switch between single and double modes.



EASE OF OPERATION.

ZERO TAILSWING MODELS ALWAYS HAVE AN ADVANTAGE OVER CONVENTIONAL MODELS WHEN IT COMES TO VISIBILITY. IN FACT, THE SAFETY BENEFITS OF THE ZTS DESIGN MEANS IT IS NOW PREFERRED BY SAFETY OFFICERS. AND IN SOME APPLICATIONS, SUCH AS ON HIGHWAYS WHERE WORKING WITHIN ONE LANE WIDTH IS VITAL, ONLY ZTS MODELS ARE NOW SPECIFIED.

Ease of use.

1 Visibility from the working position is excellent. To the left, you can see the whole track. To the right and the rear, the curving style of bonnets on all machines gives an improved view. The hose routing on top of the boom rather than to the side also means there's less to impede visibility, and the large front.

2 Once you are up and running, the efficient heating system allow you to obtain the most comfortable temperature. You can effortlessly store the gas-strut-assisted upper front screen overhead, and the lower front screen can also be removed. Plus, the whole cab structure is isolated from the slew frame for minimum vibration.



2

All machines have short travel joysticks, the most advanced micro technology in the valve block and a variable flow hydraulic pump. These provide the smooth, precise control required by the novice operator, without compromising on the power and speed demanded by professional users.

Good size door width for easy access and the door itself latches back within the tailswing so you can work with it open. To make access even clearer, the left control pod hinges up and we have removed the left foot pedal (a changeover switch on the joystick allows you to control right and left pedal operations with just the right pedal).



1

Better protected.

- 3 All cabs are ROPS and TOPS compliant with optional Level 1 & 2 FOPS protection. Further optional front screen guards provide peace of mind for operators, whilst boom and optional cab worklight guards protect vulnerable components in hazardous applications.
- 4 True ZTS design provides greater safety by reducing risk of impact in tight workspaces.
- 5 For safer lifting operations optional boom, dozer and dipper hose burst check valves are available.

Easy to maintain.

- 6 Gullwing bonnets give easy access to all service points and 500-hour engine oil service intervals. High levels of engine filtration prevent blockages and stoppages. You can check the oil from ground level, the fuel filter system features a combined sedimenter, filter and primer which allows you to prime the system if it runs out of fuel, and you can change the filter without any extra tools. The valve block is to the side which makes replacing hoses easier, plus inside the cab a removable plastic floorplate gives clear access to the slew motor, rotary joint and hydraulic valves. The hoses on the whole mini range are colour coded to help you identify the correct one.
- 7 JCB's undercarriage design with sloping track legs minimises material build-up for easier cleaning.



VALUE ADDED.

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.



1

1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

2 The global network of JCB Parts Centres is another model of efficiency; with 16 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



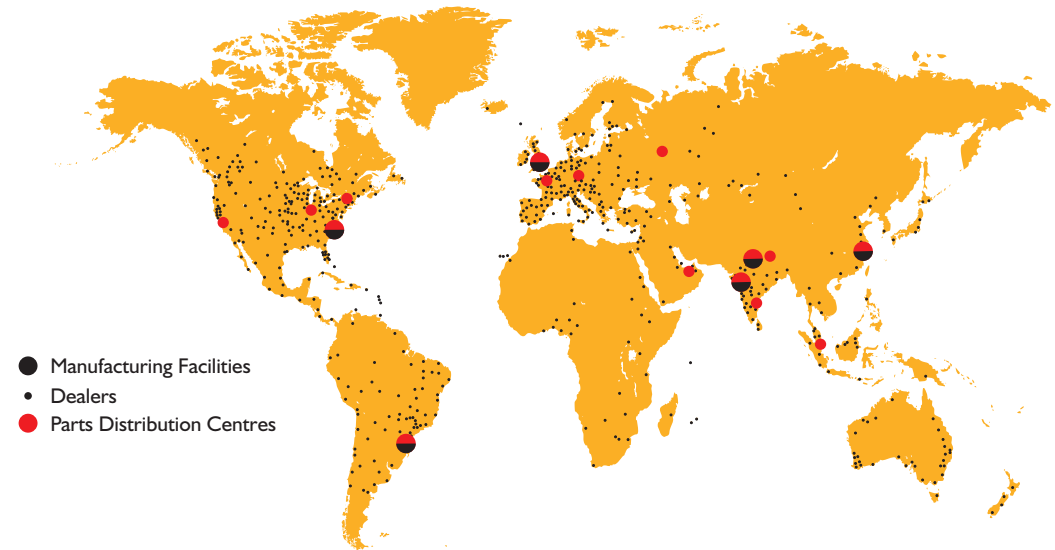
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3 JCB Premier Cover offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.

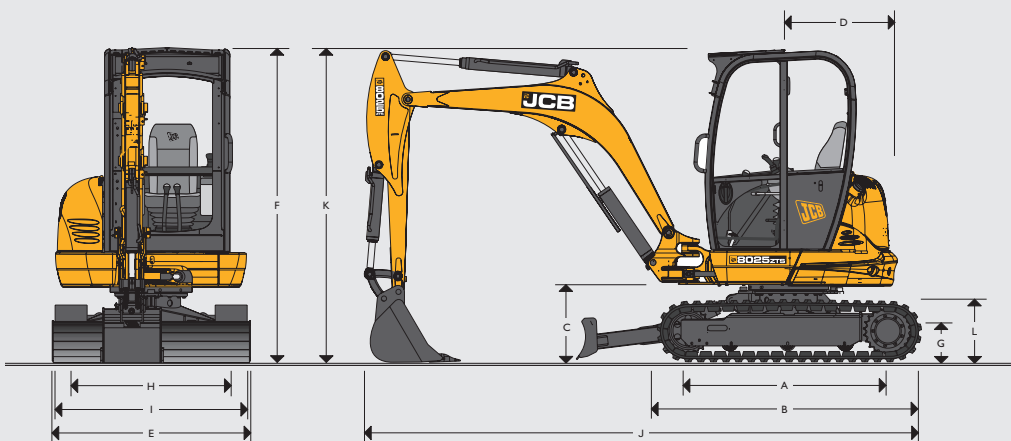


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Note: JCB LIVELINK and JCB Premier Cover may not be available in your region, so please check with your local dealer.



STATIC DIMENSIONS



STATIC DIMENSIONS

A	Sprocket idler centres	mm	1597
B	Undercarriage overall length	mm	2052
C	Kingpost clearance	mm	528
D	Tailswing radius	mm	850
E	Overall width of superstructure	mm	1656
F	Height over cab	mm	2435
G	Ground clearance	mm	270
H	Track gauge	mm	1450
I	Width over tracks	mm	1750
J	Transport length	mm	4462
K	Transport height	mm	2435
L	Track height	mm	480

ENGINE

Model		403D-17 Tier 3
Fuel		Diesel
Cooling		Water cooled
Gross power	kW @ 2200 rpm	23.6
Nett power	kW @ 2200 rpm	22.7
Gross torque	Nm @ 1600 rpm	106.3
Nett torque	Nm @ 1600 rpm	102.3
Displacement	cc	1663
Gradeability	degrees	36
Starter motor	kW	2
Battery	volt/Ah	12/75
Alternator	amp	65

UNDERCARRIAGE

No of bottom rollers		4
Track width	mm	300
Ground bearing pressure	kg/cm ²	0.38
Ground clearance	mm	270
Track tensioning	mm	Grease
Travel speed – low	kph	2.4
Travel speed – high	kph	4.3
Tractive effort	kN	32

HYDRAULIC SYSTEM

Pump		2 Variable & 1 Gear
Nominal output	lpm	110
Excavator/track main relief	bar	245
Slew main relief	bar	190
Auxiliary hydraulic flow	ltr	69
Hydraulic motors		Piston

WEIGHTS

Operating weight*	kg	3651
With canopy	kg	- 100
With FOGS guard	kg	+ 36
With steel tracks	kg	+ 70
With long dozer	kg	N/A
With suspension seat	kg	N/A

OPERATOR STATION

Cab/canopy height	mm	1517
Cab/canopy length	mm	1205
Cab/canopy height	mm	980
Door aperture width	mm	532

SERVICE CAPACITIES

Fuel tank	ltr	40
Engine coolant	mm	8.5
Engine oil	mm	4.5
Hydraulic system	mm	70
Hydraulic tank	mm	45

EEC NOISE LEVELS (95/27/EC DYNAMIC)

Cab / canopy external	dB (LwA)	95
Cab internal	dB (LpA)	77

STANDARD EQUIPMENT

ROPS & TOPS certified canopy, full audio/visual warning systems, slew travel lock, control isolator, lockable toolbox, 12v power socket, lifting points, rubber tracks, ISO servo controls, suspension seat, boom worklight, track pedals, single acting auxiliary circuit, boom ram protection, dozer blade, 1525mm dipper.

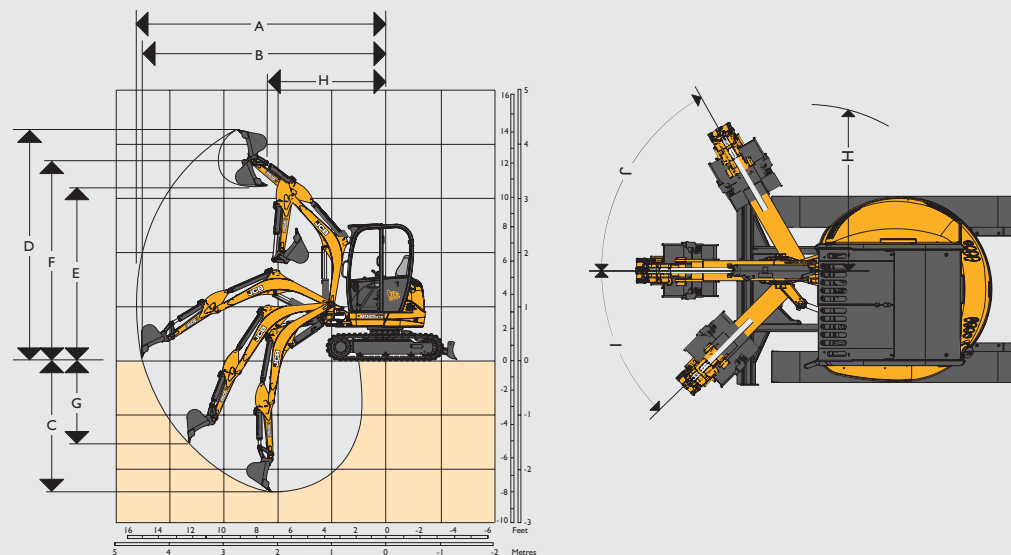
OPTIONAL EQUIPMENT

ROPS & TOPS certified fully glazed cab (includes heater, interior light, foldback door, gas strut assisted front screen), steel tracks, dual pattern controls (ISO/SAE change-over), cab/canopy mounted worklights, double acting auxiliary circuit, air conditioning, engine fan guard, FOPS roof guard, mirror, toolkit, radio, biodegradeable hydraulic oil, fire extinguisher, sunblind (cab builds), battery isolator, Datatag (UK only), travel alarm, immobiliser, yellow roof moulding, hose burst check valves, boom, dipper and dozer, digging buckets (230mm to 760mm), 1000mm ditching/grading bucket, hydraulic breakers, earthdrill, mechanical quickhitch, hydraulic kerb-lifter, bushed king post.

DOZER
















Max height above ground	mm	370
Dig depth below ground	mm	629
Approach angle	degrees	24.5
Width	mm	1750
Height	mm	335
Reach in front of tracks	mm	668

WORKING RANGE



WORKING RANGE

Boom length	mm	2330
Dipper length	mm	1525
A Max digging reach	mm	5436
B Max digging reach on ground	mm	5315
C Max digging depth – dozer up	mm	3179
Max digging depth – dozer down	mm	3512
D Max digging height	mm	4601
E Max dump height	mm	3482
F Max height to dipper nose pivot pin	mm	4009
G Max vertical wallcut depth	mm	2165
H Min. front swing radius (no offset)	mm	2492
Min. front swing radius (fully offset)	mm	1630
I Boom swing left	degrees	45
J Boom swing right	degrees	60
Bucket rotation	degrees	186
Dipper rotation	degrees	119
Bucket tearout	kN	32
Dipper tearout	kN	20
Slew speed	rpm	9.6

LIFT CAPACITIES – STANDARD DOZER, 300MM RUBBER TRACKS, 1525MM DIPPER, NO BUCKET																8035 ZTS
Load Point	2.5m			3.0m			3.5m			4.0m			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	Distance
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm
2.0		-	-	593*	610*	626*	578*	617*	606*	390	623*	431	315	596*	330	4500
1.5	954*	1031*	996*	617	846*	676	490	755*	522	386	697*	414	312	668*	315	4600
1.0	800	1366*	846	606	1061*	614	465	878*	486	388	854*	407	306	711*	307	4610
0.5	720	1579*	800	534	1205*	636	476	996*	481	367	849*	397	315	741*	313	4590
0.0	660	1679*	787	529	1444*	604	438	1066*	483	361	883*	386	301	740*	522	4500
-0.5	684	1804*	759	555	1466*	577	446	1125*	475	378	922*	390	337	819*	337	4380
-1.0	691	1693*	772	499	1321*	585	401	1117*	481	361	935*	399	362	859*	385	4050



Lift capacity front and rear.



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.



WE'VE GOT THEM ALL.

Your nearest JCB dealer

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Operating weight: 3651 kg Net engine power: 22.7 kW

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

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