

# 5 TONNE MINI EXCAVATOR

## JCB 50z

COMPACT IN SIZE. HIGH ON PERFORMANCE.

### Performance & Efficiency



ZTS design for higher adaptability in confined areas

### Strength



Heavy-duty boom with internal baffle plates

### Safety & Security



ROPS & TOPS complied canopy

### Maintenance



Long maintenance intervals for Engine and Hydraulics

### Comfort



CAN-based LiveLink to ensure high uptime & better management of the equipment fleet



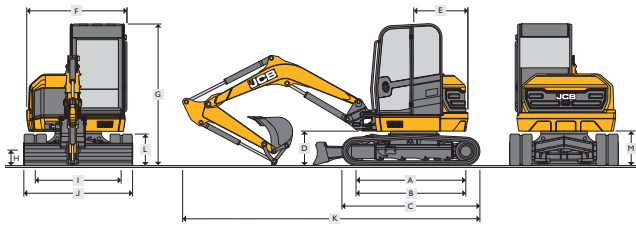
To know more



Scan the QR code

Engine power : 35.7 kW | Operating weight : 5 068 kg

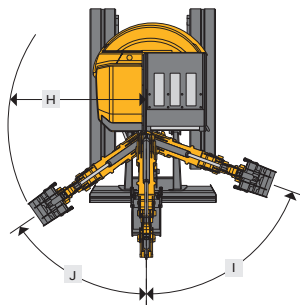
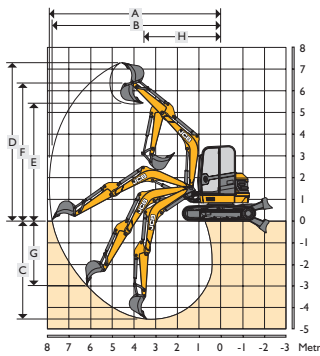
## SPECIFICATION: 50Z MINI EXCAVATOR



### MACHINE

| Model                                   | 50Z |      |
|---|-----|------|
| A Sprocket idler centres                | m   | 1.99 |
| B Track length on ground                | m   | 1.99 |
| C Undercarriage overall length – steel  | m   | 2.49 |
| D Kingpost clearance                    | mm  | 631  |
| E Tailswing radius                      | mm  | 975  |
| F Overall width of superstructure       | m   | 1.82 |
| G Height over cab                       | m   | 2.55 |
| H Ground clearance                      | mm  | 300  |
| I Track gauge                           | m   | 1.55 |
| J Width over tracks                     | m   | 1.95 |
| K Transport length with standard dipper | m   | 5.35 |
| L Track height                          | mm  | 560  |
| M Counterweight clearance               | mm  | 618  |

### WORKING RANGE



| Model                                 | 50Z     |      |
|---------------------------------------|---------|------|
| Dipper length                         | m       | 1.45 |
| Boom length                           | m       | 2.70 |
| A Max digging reach                   | m       | 5.85 |
| B Max digging reach on ground         | m       | 5.72 |
| C Max digging depth - dozer up        | m       | 3.33 |
| Max digging depth-dozer down          | m       | 3.53 |
| D Max digging height                  | m       | 5.39 |
| E Max dump height                     | m       | 4.00 |
| F Max height to dipper nose pivot pin | m       | 4.68 |
| G Max vertical wallcut depth          | m       | 1.97 |
| H Min front swing radius (no offset)  | m       | 2.6  |
| Min front swing radius (fully offset) | m       | 2.12 |
| I Boom swing left                     | degrees | 70   |
| J Boom swing right                    | degrees | 55   |
| Bucket rotation                       | degrees | 181  |
| Dipper rotation                       | degrees | 121  |
| Bucket tearout                        | kN      | 38   |
| Dipper tearout                        | kN      | 22   |
| Slew speed                            | rpm     | 8.3  |

### ENGINE

|               |                  |
|---------------|------------------|
| Machine model | 50Z              |
| Model         | Stage 3A 404D-22 |
| Fuel          | Diesel           |

### HYDRAULIC SYSTEM

| Model                                | 50Z |        |
|--------------------------------------|-----|--------|
| Pump                                 | cc  | 63     |
| Nominal output @ 2000rpm             | lpm | 126    |
| Excavator/track main relief pressure | bar | 240    |
| Slew main relief pressure            | bar | 216    |
| Auxiliary hydraulic pressure (Low)   | bar | 190    |
| Auxiliary hydraulic pressure (High)  | bar | 190    |
| Auxiliary hydraulic flow (Low)       | lpm | 40     |
| Auxiliary hydraulic flow (High)      | lpm | 90     |
| Hydraulic pump                       |     | Piston |

### WEIGHTS

| Model                                  | 50Z |       |
|--|-----|-------|
| Operating weight* (400mm steel tracks) | kg  | 4 946 |
| Shipping** weight (400mm steel tracks) | kg  | 4 816 |
| Operating weight* (550mm steel tracks) | kg  | 5 068 |
| Shipping** weight (550mm steel tracks) | kg  | 4 938 |

\* Operating weight to ISO 6016 including cab, steel track, standard dipper, 600mm bucket, full tanks and a 75kg operator.

\*\* Shipping weight to ISO 6016 is mass of the base machine without an operator, with the fuel level at 10% of tank capacity.

Note: Weight for canopy variant would be less by 65 kg.

### UNDERCARRIAGE

| Model                                  | 50Z    |        |
|--|--------|--------|
| No of top rollers                      |        | 1      |
| No of bottom rollers                   |        | 4      |
| Track width steel                      | mm     | 400    |
| Ground bearing pressure (400mm tracks) | kg/cm2 | 0.30   |
| Ground bearing pressure (550mm tracks) | kg/cm2 | 0.22   |
| Track tensioning                       |        | Grease |
| Travel speed – low                     | kph    | 3      |
| Travel speed – high                    | kph    | 4.6    |
| Tractive effort                        | kN     | 35.7   |

### SERVICE CAPACITIES

| Model            | 50Z |                             |
|------------------|-----|-----------------------------|
| Fuel tank        | L   | 76                          |
| Engine coolant   | L   | 12 (Canopy)/13.2 (AC Cabin) |
| Engine oil       | L   | 9.1 max                     |
| Hydraulic system | L   | 100                         |
| Hydraulic tank   | L   | 55                          |

### DOZER

| Model                   | 50Z     |      |
|-------------------------|---------|------|
| Dozer length            | m       | 1.14 |
| Max height above ground | mm      | 433  |
| Dig depth below ground  | mm      | 464  |
| Approach angle          | degrees | 31   |
| Width                   | m       | 1.96 |
| Height                  | mm      | 400  |

## EXCEEDING EXPECTATIONS EVERYWHERE



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