

DOOSAN

Mini Excavators |
DX10Z



Maximum power: 9.9 hp
Operating weight: 1.2 t



Easy to work in confined work environment

Adaptable & smooth

The DX10Z open center hydraulic system with variable displacement pumps uses the engine's power more effectively, maximising pump output and offering more comfort, smoothness and accuracy.

- Fast cycle times, together with class-leading breakout forces, ensure maximum productivity
- Boom and arm cylinder cushioning increases overall smoothness
- Retractable undercarriage lets you enter buildings through the doors
- Variety of attachments provide maximum versatility



710mm minimum width

Thanks to the DX10Z's compact design, it can pass through most European size doors

- The front blade and the undercarriage are retractable to achieve this reduced width, and it provides top-class stability in normal operation.
- Without any tools, the TOPS can be folded down quickly and is integrated into the frame to minimize the overall width of the machine.

Foldable TOPS

The exclusive design of TOPS allows operator to fold down the TOPS in just a few seconds.

- Two pins lock the TOPS in place while operating the machine but allow for quick, efficient removal and installation when passing through narrow space.
- The exclusive feature is the integration of the TOPS into the upper structure which reduces the overall width of the machine and eliminates any bulges on the sides.

Lift more, lift higher

The superior dumping height makes loading trucks easy, while the reach at ground level means you don't need to reposition as often when digging. With enhanced stability and lifting capacity, combined with best-in-class proportional auxiliary flow, the DX10Z offers you the highest versatility in operating a wide range of attachments.

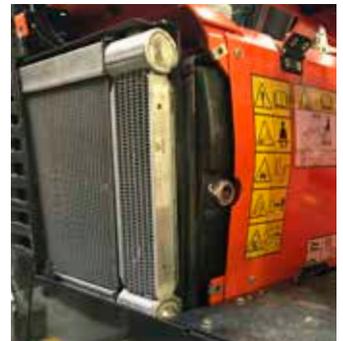


Transportability: The DX10Z fits easily on a conventional trailer. Easier transportability with new integrated upper structure tie-down points.

Maximum stability and versatility

▣ Ergonomics lower effort and raise efficiency

Proportional auxiliary flow means that the excavator's power is matched by smooth, confident manoeuvres. Using sensitive joysticks and clear controls positioned for convenient access, you are able to work safely and confidently with minimum effort. Even the switches have been ergonomically placed and positioned according to the frequency with which they are used. The highest standards of efficiency are at your fingertips.



Maximum stability

Extendable to 1100 mm undercarriage width to ensure maximum stability.

Blade extension for better performance

The sliding-blade-extension eliminates loose parts that require storage space and are easily lost. Simply slide them to the inner position to reduce the overall width.

Box structure design

The box structure design provides strength while minimizing the overall weight of the working group.

The cooling system delivers best-in-class performance

This is critical when working in confined areas where air flow may be minimal. When the machine is frequently used with a hydraulic breaker, the "demolition kit" will provide extra cooling so the breaker can be used 100% of the time even in warm environments. This is unique in the market and makes this model ideal for in-door demolition application.

The comfort of a large excavator

▣ Operating in comfort

The sophisticated ISO-certified TOPS cab – together with excellent visibility and stability – provides optimal operator comfort and safety. Comfortably seated, you have easy access to several storage compartments and a clear all-round view of the worksite. Noise and vibration levels are minimised.



Ergonomic joysticks

The DX10Z has joysticks like large excavators, not levers. They help you work in greater comfort and more precise detail.

Ergonomic operator environment

Spacious cab with ample leg room, robust ergonomic pedals, large & flat floor, cup holder, storage box, etc.

Cab floor panels

Easy tool-free removable cab floor panels for convenient service.



Zero tail swing: For more peace of mind and safety while working close to an obstacle.

More durable and easy maintenance

▣ Dependable performance for low lifetime cost

The reinforced chassis provides strength, while the optimised boom shape ensures uniform load distribution for greater durability. Top quality materials, the most advanced computer-aided design, and endurance testing under the most demanding conditions ensure your excavator keeps on performing. The DX10Z is designed for low maintenance with longer intervals – resulting in more machine availability on-site. Meanwhile, skilled Doosan-trained technicians are available to provide extra support when needed.



Cylinder over boom and internal hose routing

The workgroup of this excavator features a cylinder over boom design eliminating the possibility of damaging the cylinder. The hoses for the auxiliary hydraulics are routed inside the boom to prevent any damage when working. These two features help to increase the durability.

Easy access for maintenance

Right from the start, we paid particular attention to easy service access: these units have a single access point for the daily maintenance of all the main components, for checking the fuel gauge and refueling through the lockable cap.

Lockable cap: Unique & safe access point for all maintenance checks.



Technical specifications

Engine

| | |
|---------------------------------------|---------------------------------|
| Model | Kubota / D722-EF15 (EU Stage V) |
| No. of cylinders | 3 |
| Piston displacement | 0.72 l |
| Max. net power @ 2000 RPM (ISO 9249) | 7.4 kW (9.9 hp) |
| Max. net torque @ 1600 RPM (ISO 9249) | 4.0 kgf/m (39.1 Nm) |
| Bore × stroke | 67 mm × 68 mm |

Hydraulic system

| | |
|---------------------------------------|-------------------|
| Pump type | Dual gear pump |
| Pump capacity | 10.0 l/min |
| Auxiliary flow | 20.0 l/min |
| Auxiliary relief | 184.0 - 192.0 bar |
| Relief pressure for implement circuit | 184.0 - 192.0 bar |

Performance

| | |
|---------------------------------|----------------|
| Bucket digging force (ISO 6015) | 8294 N |
| Arm digging force (ISO 6015) | 5550 N |
| Drawbar pull | 9905 N |
| Travel speed fast / slow | 3.1 / 2.1 km/h |
| Gradeability | 30° |

Weights

| | |
|---|-----------|
| Operating weight with standard bucket, excluding operator | 1176 kg |
| Ground pressure with rubber tracks | 29.70 kPa |

Swing mechanism

| | |
|----------------------|-----------|
| Swing speed | 9.0 RPM |
| Boom swing angle L/R | 70° / 70° |

Environmental

| | |
|--|----------|
| A-weighted emission sound pressure level at the operator's position, LpAd (2000/14/EC) | 80 dB(A) |
| A-weighted sound power level, LwAd (2000/14/EC) | 93 dB(A) |

Fluid capacities

| | |
|----------------------------|--------|
| Fuel tank | 16 l |
| Hydraulic system | 10.1 l |
| Cooling system | 3.0 l |
| Engine oil plus oil filter | 3.5 l |

Lifting capacities • Over blade • Blade down

| Lift point height (mm) | Maximum radius (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius (kg) |
|------------------------|---------------------|--------------------------|-----------------------------|
| 2000 | 2030 | 319* | 319* |
| 1000 | 2620 | 275* | 345* |
| Ground | 2640 | 239* | 404* |
| -1000 | 2030 | 210* | 214** |

Lifting capacities • Over blade • Blade up

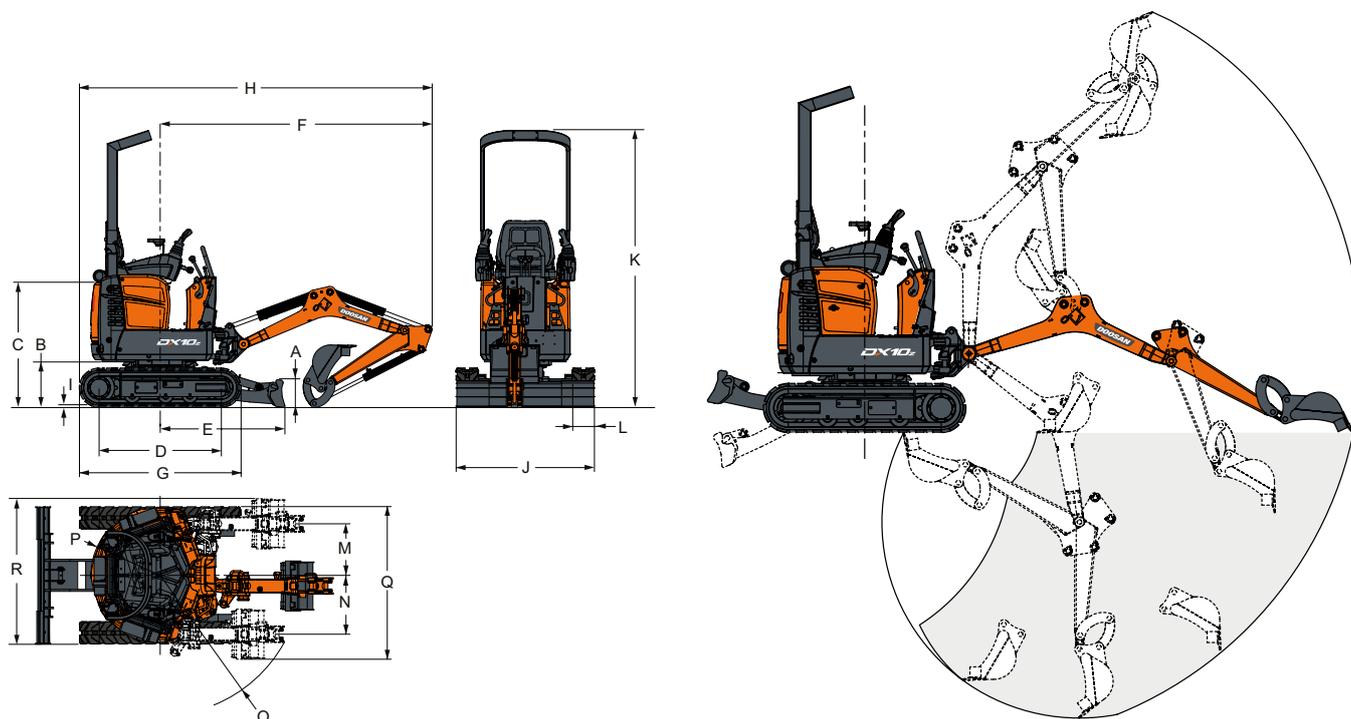
| Lift point height (mm) | Maximum radius (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius (kg) |
|------------------------|---------------------|--------------------------|-----------------------------|
| 2000 | 2030 | 192 | 206 |
| 1000 | 2620 | 121 | 197 |
| Ground | 2640 | 116 | 174 |
| -1000 | 2045 | 171 | 171 |

Lifting capacities • Over side • Blade up

| Lift point height (mm) | Maximum radius (mm) | Lift at max. radius (kg) | Lift at 2000 mm radius (kg) |
|------------------------|---------------------|--------------------------|-----------------------------|
| 2000 | 2030 | 90 | 94 |
| 1000 | 2620 | 54 | 92 |
| Ground | 2640 | 48 | 78 |
| -1000 | 2045 | 73 | 75 |

- Lifting capacities are in compliance with ISO 10567:2007(E).
- The load point is at the end of the arm.
- * Rated hydraulic lift capacity.
- The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.
- For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.
- The configurations indicated do not necessarily reflect the standard equipment of the machine.

Technical specifications



Dimensions

| | | |
|---|-----------------------------------|---------------|
| A | Blade height | 220 mm |
| B | Ground clearance | 363 mm |
| C | Engine cover height | 992 mm |
| D | Length of track on ground | 968 mm |
| E | Machine centre line to blade | 987 mm |
| F | Min. radius in travel position | 2153 mm |
| G | Overall track length | 1280 mm |
| H | Shipping length | 2793 mm |
| I | Track lug height | 16 mm |
| J | Blade width (retracted) | 1100 (710) mm |
| K | Overall height | 2209 mm |
| L | Track width | 180 mm |
| M | LH boom offset | 413 mm |
| N | RH boom offset | 471 mm |
| O | Min. turning radius | 1121 mm |
| P | Swing clearance, rear | 550 mm |
| Q | Working width at max. RH rotation | 1100 mm |
| R | Working width at max. LH rotation | 1100 mm |

Working range

| | | |
|---|----------------------------------|---------|
| A | Bucket pivot angle | 196° |
| B | Max. reach | 3145 mm |
| C | Max. reach at ground level | 3093 mm |
| D | Min. swing radius | 1374 mm |
| E | Max. blade height | 196 mm |
| F | Max. blade depth | 230 mm |
| G | Max. height at min. swing radius | 1899 mm |
| H | Max. digging height | 2685 mm |
| I | Max. dump height | 1818 mm |
| J | Max. vertical wall depth | 1383 mm |
| K | Max. digging depth | 1820 mm |

Standard and optional equipment

| | |
|--|---|
| TOPS canopy (Tip Over Protective Structure (TOPS) – Meets requirements of ISO 12117) | ● |
| Extendable undercarriage | ● |
| Track expansion switch | ● |
| Hydraulically activated track expansion from 710 to 1100 mm | ● |
| Two-speed travel | ● |
| 710 mm dozer blade with two blade extensions (1100 mm extended) | ● |
| 1 st auxiliary line (double acting) on arm | ● |
| Hydraulic joystick control | ● |
| Control console locks | ● |
| Retractable seat belt | ● |
| 180 mm rubber track | ● |
| Boom light metal protection | ● |
| Demolition Kit consists of an hydraulic oil cooler for breaker application | ● |
| Object Handling Device consists of a lifting device on the bucket linkage | ○ |

Standard: ●
Optional: ○

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local DOOSAN dealer for more information about availability or to adapt your machine to your application needs.

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