

DEVELON

Mini Excavators

DX20ZE



Battery Voltage	51 V
Battery Power	20.4 kWh
Operating Weight	1941 kg
Bucket capacity	0.05 m ³

TECHNICAL SPECIFICATIONS

ELECTRIC POWER SYSTEM

- Equipped with self-developed battery pack
- 50 V low voltage system
- Safe operation, economical electricity consumption
- Prevention of excessive temperature rise during charging

Nominal Voltage

51 V

Operating Voltage

35 V 58.8 V

Rated Power

20.5 kWh

ELECTRIC MOTOR

Rated Power

9 kWh

Operating mode

2100 rpm

Phase current

200 A

Torque

25 Nm at 2300 rpm

Peak Torque

95 Nm at 2300 rpm

UNDERCARRIAGE

Extremely robust construction throughout – made of high-quality, durable materials, with all welded structures designed to limit stresses.

- Track rollers lubricated for life
- Idlers and sprockets fitted with floating seals
- Track shoes made of induction-hardened alloy with triple grouser
- Heat-treated connecting pins
- Hydraulic track adjuster with shock-absorbing tension mechanism

Lower rollers per side

3

Number of links & shoes per side

72

Link pitch

48 mm

HYDRAULIC SYSTEM

- 2 travel speeds offer either increased torque or high speed
- Auto-deceleration system

Main pump

Variable axial piston pump

Maximum flow 17.6 l/min

	Relief valve settings
Implement	206 kgf/cm ²
Travel	206 kgf/cm ²
Swing	145 kgf/cm ²

HYDRAULIC CYLINDERS

High-strength steel piston rods and cylinder bodies. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
Boom	1	60 × 35 × 439
Arm	1	55 × 35 × 425
Bucket	1	55 × 30 × 315
Dozer	1	70 × 35 × 118
Boom swing	1	60 × 30 × 323

CAB

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

A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396)

Declared: 70 dB(A)

Measured: 69 dB(A)

A-weighted sound power level, LwAd (2000/14/EC)

Declared: 85 dB(A)

Measured: 84 dB(A)

SWING MECHANISM

The swing mechanism uses an axial piston motor, driving a 2-stage planetary reduction gear bathed in oil for maximum torque.

- Swing bearing: single-row, shear type ball bearing with induction hardened internal gear
- Internal gear and pinion immersed in lubricant

Maximum swing speed

9.6 rpm

Maximum swing torque

335 kgf·m

FLUID CAPACITIES

Hydraulic system	28.5 l
Hydraulic oil tank	16 l
Travel device	2 × 0.35 l

DRIVE

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers/foot pedals guarantee smooth travel with counter-rotation on demand. The track frame protects the travel motor, brake and planetary gears.

Travel speed (low - high)

2 - 3.7 km/h

Maximum traction

1.57 t

Maximum gradeability

16.7° / 30%

WEIGHT & GROUND PRESSURE

	Machine weight (kg)	Ground pressure (kgf/cm²)
230 mm rubber shoes	1941	309

TECHNICAL SPECIFICATIONS

COMPONENT WEIGHTS

Item	Weight (kg)	Remarks
Upper structure without front and counter weight	965	Boom Swing Bracket included
Canopy upper	36	
Canopy lower	14	Included: Licence plate & fire extinguisher
Counterweight	120	
Undercarriage	626	Dozer included
Arm assembly	59	Piping & Links included
Bucket	50	
Boom cylinder	18	With cover
Arm cylinder	16	With cover
Bucket cylinder	13	With cover
Dozer	85	
Dozer cylinder	11	

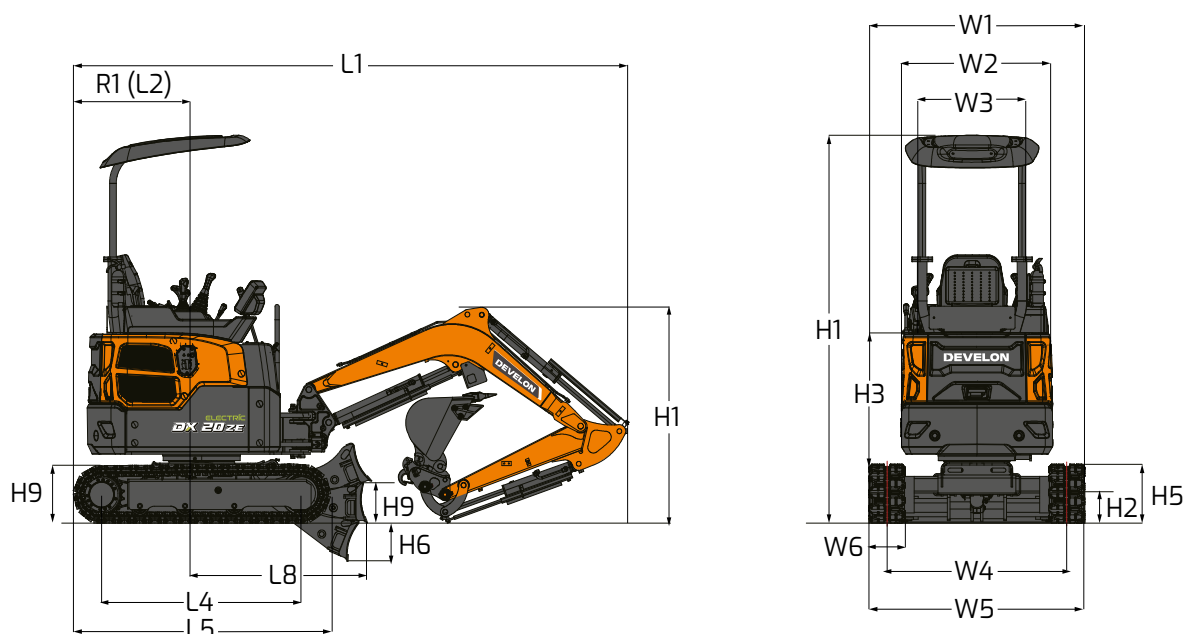
ARMS

	Length (mm)	Weight (kg)	Digging forces (ISO) (ton)
DX20ZE	1100	36	0.785

BUCKETS

	Capacity (m³) SAE	Width (mm)		Weight (kg)	Digging forces (ISO) (ton)
		With side cutters	W/O side cutters		
DX20ZE	0.05	511	485	50	1.532

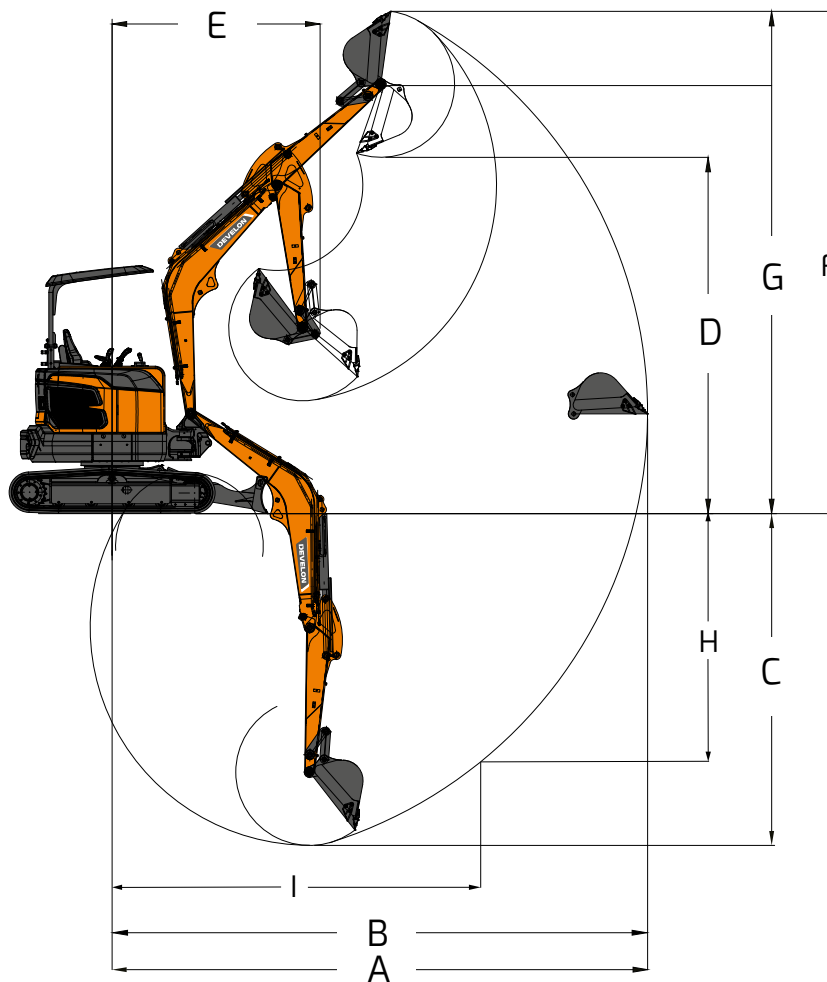
DIMENSIONS



DIMENSIONS

			Unit	DX20ZE
Boom length			mm	1725
Arm length			mm	1100
Bucket capacity			m³	0.05
Undercarriage (track + grouser)			-	Rubber
L1	Overall length		mm	3460
H1	Overall height	Boom	mm	1283
		Cab	mm	2345
W1	Overall width		mm	950 (1360)
R1	Rear swing radius		mm	720
H2	Ground clearance		mm	155
L2	Rear end distance		mm	720
W2	House width		mm	950
W3	Cab width		mm	950
H3	Height over cover		mm	1151
H4	Counterweight clearance		mm	419
A1/A2	Boom swing angle (left/right)		°	45/70
H5	Track height		mm	356
L3	Track length		mm	1612
L4	Tumbler distance		mm	1258
W4	Track gauge		mm	720 (1130)
W5	Undercarriage width		mm	950 (1360)
W6	Shoe width		mm	230
etc.	Grouser/lug height		mm	26
H6	Dozer digging depth		mm	234
H8	Dozer lift clearance		mm	251
H9	Dozer blade height		mm	265
L8	Distance to dozer end		mm	1045

WORKING RANGE



WORKING RANGE

	Unit	DX20ZE
Boom length	mm	1725
Arm length	mm	1100
Bucket capacity	m³	0.05
A Max. digging reach	mm	3975
B Max. digging reach (ground)	mm	3875
C Max. digging depth	mm	2350
D Max. dumping height	mm	3650
E Min. swing radius	mm	1535
F Max. digging height	mm	3650
G Max. bucket pin height	mm	3190
H Max. vertical wall depth	mm	1130
I Max. radius vertical	mm	3340

STANDARD AND OPTIONAL EQUIPMENT

● Standard ○ Optional

Develon Battery Pack

- Nominal Voltage: 51.5 V
- Capacity: 20.4 kWh (26.8 HP)
- On-Board Charger: Power Output 3.3 kW (220 V AC, 16 A)

Hydraulic system

- Hydraulic joystick control
- One way flow auxiliary lines on arm
- Quick coupler piping

Cab & interior

- 4 pillar canopy
- ZHS upper structure concept
- Track expansion switch
- Stationary seat
- Small storage compartment
- 2-speed travel

Safety

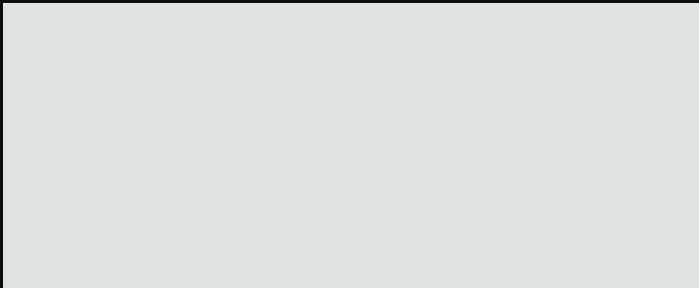
- Battery switch-off
- Boom light protection, metal
- Boom LED lights
- Bucket and arm cylinder guards
- Battery cover

Other

- 1.1 m arm
- 1.725 m boom
- Quick charger

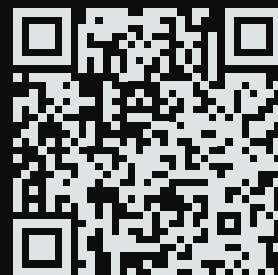
Undercarriage

- Extendable undercarriage
- 950 mm dozer blade with two blade extensions (1360 mm extended)



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DISCOVER MORE:
DX20ZE



DEVELON

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