



Electric mini excavator

DX85RE-7

The DX85RE-7 is an 10-tonne class tracked battery-electric excavator, built for work where space is tight and emissions matter. Compact electric machines open up sites that larger or diesel equipment cannot serve. No local NOx or particulate emissions means the machine can work indoors and in enclosed spaces. Sharply reduced noise and vibration make it viable in residential streets, near occupied buildings, and during restricted hours – and improve conditions for the operator and for people living alongside the worksite.. Together, that makes the DX85RE-7 a practical answer for confined urban and utility work.

Hydraulic system

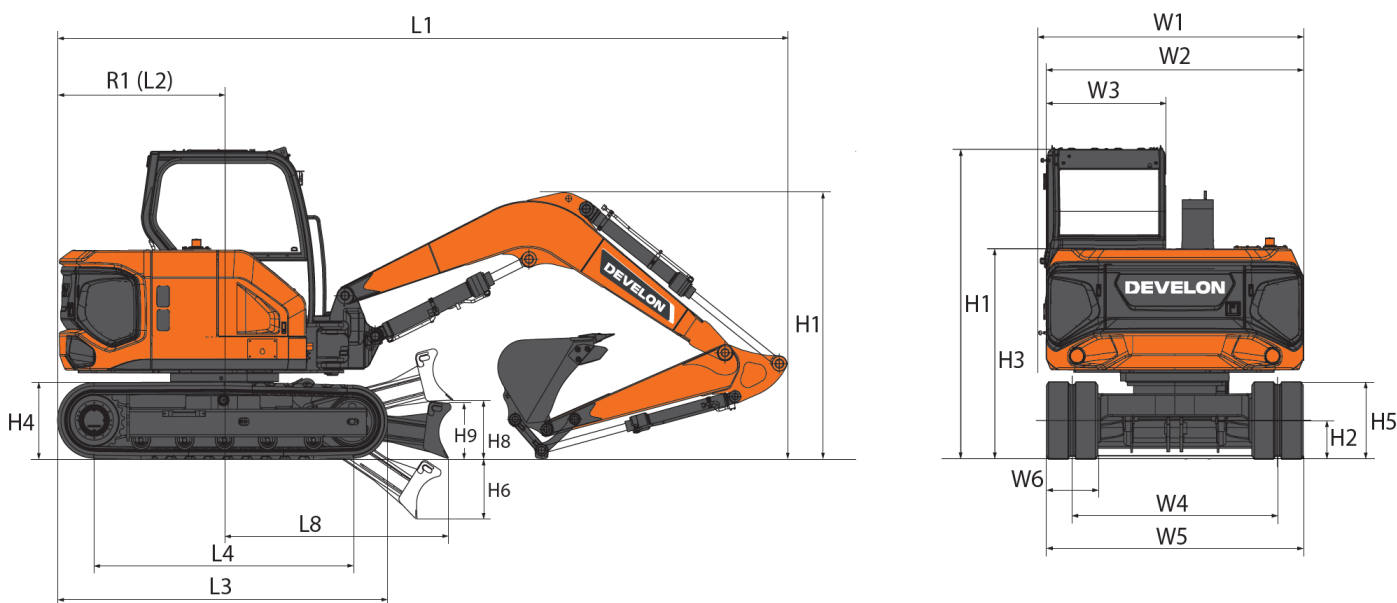
The e-EPOS (Electronic Power Optimizing System) is the brain of the excavator – minimizing fuel consumption and optimizing the efficiency of the hydraulic system for all working conditions. To harmonize the operation of the engine and the hydraulics, the e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link.

- 2 travel speeds offer either increased torque or high speed
- Load-sensing pump system for optimal efficiency
- Auto-deceleration system
- 3 operating modes, 3 power modes
- Flow and pressure control of auxiliary hydraulic circuits from control panel
- Computer-aided pump flow control

Engine and battery data

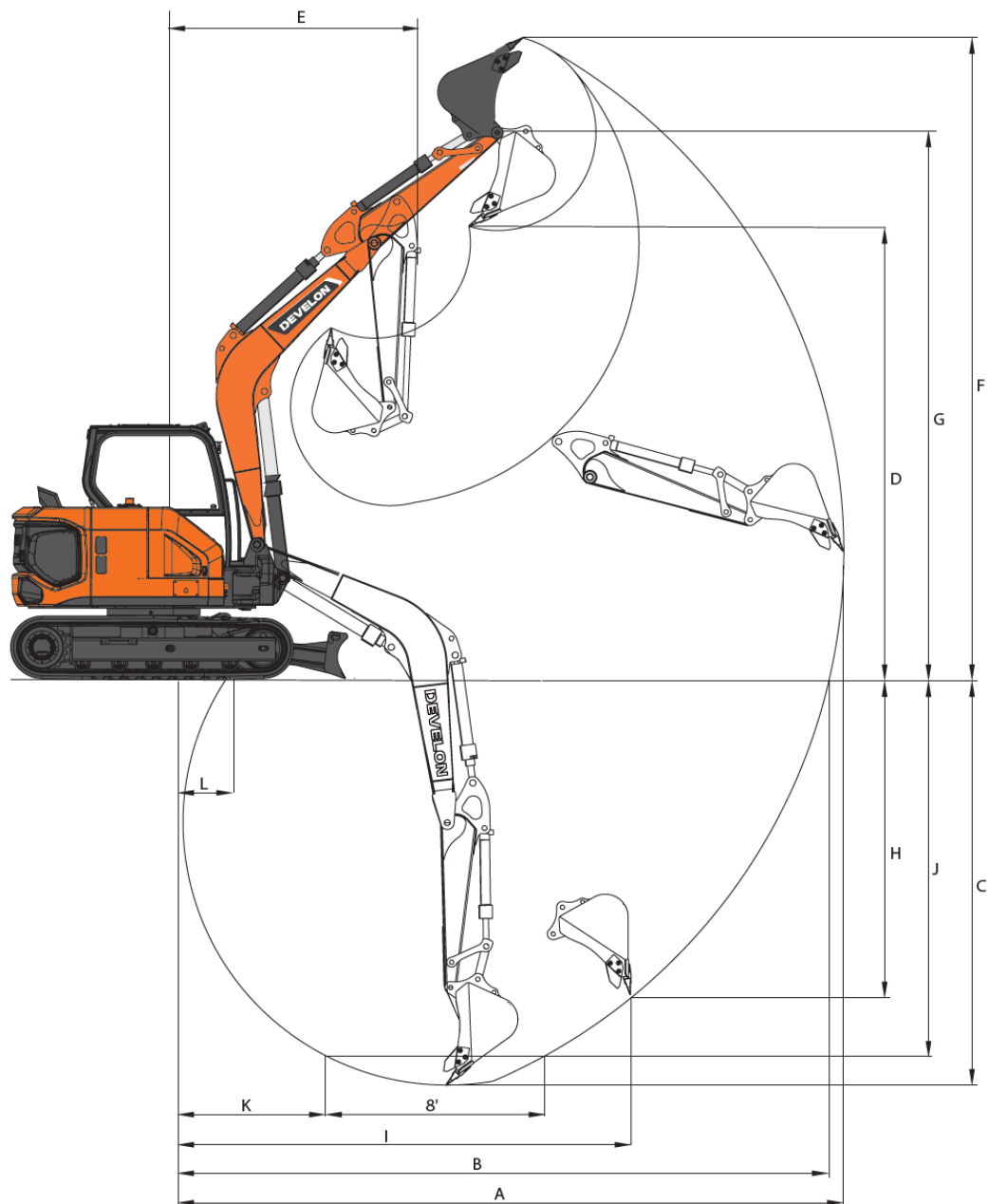
|                             |                                      |
|-----------------------------|--------------------------------------|
| Engine                      | Liquid-cooled permanent magnet motor |
| Power                       | 60 kW                                |
| Operating weight            | 10,3 t                               |
| Battery type                | LiFePO4                              |
| Operating time (indication) | 10 hours                             |
| AC Charging                 | 22 kW                                |
| DC fast charging            | 105 kW                               |

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Main pumps           | Tandem axial piston pump (load sensing)<br>Maximum flow at 2100 rpm<br>149 l/min |
| Relief valve setting |                                                                                  |
| Attachment           | 285 kgf / cm2                                                                    |
| Traveling            | 300 kgf / cm2                                                                    |
| Swing                | 214 kgf / cm2                                                                    |



## DIMENSIONS

| Boom type                       |                         | Unit     | Mono boom |        | Articulated boom |
|---------------------------------|-------------------------|----------|-----------|--------|------------------|
| Boom length                     |                         | mm       | 3380      | 3380   | -                |
| Arm length                      |                         | mm       | 1700      | 2250   | 1700             |
| Bucket capacity                 |                         | m³       | 0.28      | 0.28   | 0.28             |
| Undercarriage (track + grouser) |                         | -        | Rubber    | Rubber | Rubber           |
| L1                              | Overall length          | mm       | 6430      | 6450   | 6640             |
| H1                              | Overall height          | Boom     | mm        | 2335   | 2120             |
|                                 |                         | Cab      | mm        | 2657   | 2657             |
| W1                              | Overall width           | mm       | 2250      | 2250   | 2250             |
| R1                              | Rear swing radius       | Standard | mm        | 1465   | 1465             |
| H2                              | Ground clearance        | mm       | 294       | 294    | 294              |
| L2                              | Rear end distance       | Standard | mm        | 1449   | 1449             |
| W2                              | House width             | mm       | 2250      | 2250   | 2250             |
| W3                              | Cab width               | mm       | 1040      | 1040   | 1040             |
| H3                              | Height over cover       | mm       | 1778      | 1778   | 1778             |
| H4                              | Counterweight clearance | mm       | 758       | 758    | 758              |
| H5                              | Track height            | mm       | 656       | 656    | 656              |
| L3                              | Track length            | mm       | 2952      | 2952   | 2952             |
| L4                              | Tumbler distance        | mm       | 2315      | 2315   | 2315             |
| W4                              | Track gauge             | mm       | 1800      | 1800   | 1800             |
| W5                              | Undercarriage width     | Standard | mm        | 2250   | 2250             |
| W6                              | Shoe width              | mm       | 450       | 450    | 450              |
|                                 | Grouser height          | mm       | 30        | 30     | 30               |
| H6                              | Dozer digging depth     | mm       | 511       | 511    | 511              |
| H8                              | Dozer lift clearance    | mm       | 502       | 502    | 502              |
| H9                              | Dozer blade height      | mm       | 454       | 454    | 454              |
| L8                              | Distance to dozer end   | mm       | 1972      | 1972   | 1972             |
| Boom swing angle (left/right)   |                         | °        | 60/60     |        |                  |



## WORKING RANGE

| Boom type                           | Unit           | Mono boom   |             | Articulated boom   |
|-------------------------------------|----------------|-------------|-------------|--------------------|
| Boom length                         | mm             | 3380        |             | Arti (1890 + 1880) |
| Arm length                          | mm             | 1700        | 2250        | 1700               |
| Bucket capacity                     | m <sup>3</sup> | 0.28        |             | 0.28               |
| A Max. digging reach                | mm             | 7015        | 7530        | 7280               |
| B Max. digging reach (ground level) | mm             | 6850        | 7380        | 7130               |
| C Max. digging depth                | mm             | 4110        | 4670        | 4040               |
| D Max. dumping height               | mm             | 4705        | 5050        | 5425               |
| E Min. swing radius (boom swing)    | mm             | 2775 (2080) | 2945 (2250) | 2755 (2060)        |
| F Max. digging height               | mm             | 6690        | 7035        | 7440               |
| G Max. bucket pin height            | mm             | 5715        | 6060        | 6430               |
| H Max. vertical wall depth          | mm             | 3180        | 3700        | 3490               |
| I Max. radius vertical              | mm             | 4825        | 5005        | 4630               |
| J Max. depth to 8' line             | mm             | 3735        | 4345        | 3870               |



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Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual DEVELON equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of DEVELON units may show other than standard equipment.

**DEVELON**

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