950E EXCAVATOR

Engine
Cummins QSG12 Tier 4 Final

Gross Power
400 hp (298 kW)

Operating Weight
108,467 lb (49,200 kg)

Bucket Capacity
2.88 yd³ (2.2 m³)

Maximum Digging Depth
25 ft 9 in (7,860 mm)
### ENGINE
- **Emissions rating**: EPA Tier 4 Final / Stage IV
- **Make**: Cummins
- **Model**: QSG12
- **Gross power**: 400 hp (298 kW) @ 2,100 rpm
- **Net power**: 378 hp (282 kW) @ 2,100 rpm
- **Peak torque**: 1,500 lb-ft @ 1,400 rpm
- **Number of cylinders**: 6
- **Displacement**: 720 in³ (11.8 L)

### DRIVE AND BRAKES
- **Max. travel speed**:
  - High: 3.4 mph (5.5 km/h)
  - Low: 2.1 mph (3.3 km/h)
- **Max. drawbar pull**: 71,939 lbf (320 kN)

### UNDERCARRIAGE
- **Shoe width, triple grouser**: 31.5 in (800 mm)
- **Track shoes each side**: 51
- **Bottom rollers each side**: 9
- **Top rollers each side**: 2

### HYDRAULIC SYSTEM
- **Main pumps total flow**: 2 × 100 gal/min (380 L/min)
- **Relief pressure, implement**: 4,685 psi (32.3 MPa)
- **Relief pressure, power boost**: 5,120 psi (35.3 MPa)

### REFERENCE ARM
- **Arm length**: 11 ft 1 in (3.38 m)
- **Arm digging force, (ISO) - Power Boost**: 64,745 lbf (288 kN)

### WORKING RANGES
- **Maximum digging depth**: 25 ft 9 in (7,860 mm)
- **Maximum digging reach at ground level**: 38 ft 9 in (11,810 mm)
- **Maximum digging depth 2.4 m (8 ft) level bottom**: 25 ft 4 in (7,715 mm)
- **Maximum digging height**: 35 ft 5 in (10,785 mm)
- **Maximum dumping height**: 24 ft 8 in (7,520 mm)
- **Maximum vertical wall digging depth**: 21 ft 1 in (6,435 mm)

### BUCKET PERFORMANCE
- **Bucket capacity**: 2.88 yd³ (2.2 m³)
- **Bucket digging force, (ISO) - Power Boost**: 50,582 lbf (225 kN)

### SERVICE CAPACITIES
- **Fuel tank**: 172 gal (650 L)
- **Engine oil**: 9.0 gal (34 L)
- **Final drive (each)**: 4.0 gal (15 L)
- **Swing drive**: 2 × 1.4 gal (5.3 L)
- **Cooling system**: 8.7 gal (33 L)
- **Hydraulic reservoir**: 77 gal (290 L)
- **DEF tank**: 15.0 gal (56.8 L)

### SWING SYSTEM
- **Swing speed**: 8.5 rpm
- **Swing torque**: 165,300 N-m (121,919 lb-ft)

### Dimensions
- **A**: Reach from swing center
- **B**: Bucket hook height
- **C**: Lifting capacity
- **Cf**: Rating over front
- **Cs**: Rating over side

#### 950E with 800 MM (31.5 IN) SHOES, 3.38 M (11 FT 1 IN) ARM

<table>
<thead>
<tr>
<th>B: Height (ft)</th>
<th>3 m (10 ft)</th>
<th>4.5 m (15 ft)</th>
<th>6 m (20 ft)</th>
<th>7.5 m (25 ft)</th>
<th>9 m (30 ft)</th>
<th>MAX REACH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
</tr>
<tr>
<td>25 ft</td>
<td>lb</td>
<td></td>
<td></td>
<td></td>
<td>*25,287</td>
<td>24,471</td>
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<tr>
<td>20 ft</td>
<td>lb</td>
<td></td>
<td>*42,108</td>
<td>*42,108</td>
<td>*32,276</td>
<td>*32,276</td>
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<tr>
<td>10 ft</td>
<td>lb</td>
<td>*50,265</td>
<td>45,724</td>
<td>*36,244</td>
<td>30,798</td>
<td>*29,299</td>
</tr>
<tr>
<td>5 ft</td>
<td>lb</td>
<td>*48,017</td>
<td>41,403</td>
<td>*39,088</td>
<td>29,432</td>
<td>*30,975</td>
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<tr>
<td>0 ft</td>
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<td>42,880</td>
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<tr>
<td>-5 ft</td>
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<td>*35,274</td>
<td>*50,442</td>
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<tr>
<td>-10 ft</td>
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<td>*55,490</td>
<td>*45,327</td>
<td>43,475</td>
<td>*35,957</td>
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<tr>
<td>-15 ft</td>
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<td>*45,040</td>
<td>*37,280</td>
<td>*37,280</td>
<td>*29,961</td>
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</tbody>
</table>

1. * Indicates the load is limited by hydraulic capacity rather then the tipping capacity.
2. The above loads are in compliance with the ISO 10567 hydraulic rating standard. They do not exceed 87% of the hydraulic lifting capacity of 75% tipping load.
3. Rating at bucket lift hook.