9018F
COMPACT EXCAVATOR

Engine
Yanmar 3TNV80F-SSLY

Gross Power
18 hp (13.4 kW)

Operating Weight Cab
4,189 lb (1,900 kg)

Bucket Capacity
0.06 yd³ (0.045 m³)

Maximum Digging Depth
7 ft 6 in (2,290 mm)
# 9018F Specifications

## Engine
- **Emission rating**: EPA Tier 4 Final
- **Make**: Yanmar
- **Model**: 3TNV80F-SSLY
- **Net power**: 17 hp (12.6 kW) @ 2,200 rpm
- **Peak torque**: 48.2 lb-ft (65.3 N·m) @ 1,600 rpm
- **Cylinders**: 3
- **Displacement**: 77.3 in³ (1.26 L)

## Drive and Brakes
- **Max. travel speed**: 2.8 mph (4.5 km/h)
- **Max. drawbar pull**: 3,597 lbf (16 kN)

## Undercarriage
- **Rubber track assembly**: 9 in (230 mm)
- **Bottom rollers, each side**: 3

## Hydraulic System
- **Main pump maximum flow**: 14.5 gal/min (55 L/min)
- **Relief pressure, main**: 21 MPa (3,046 psi)

## Swing System
- **Swing speed**: 9.5 rpm

## Work Range
- **Max. digging depth**: 7 ft 6 in (2,290 mm)
- **Max. digging reach at ground level**: 12 ft 8 in (3,850 mm)
- **Max. digging depth 2.4 m (8 ft) level bottom**: 6 ft 0 in (1,820 mm)
- **Max. digging height**: 11 ft 1 in (3,385 mm)
- **Max. dumping depth**: 7 ft 9 in (2,370 mm)
- **Min. front swing radius**: 5 ft 5 in (1,660 mm)

## Bucket Performance
- **Bucket capacity**: 0.06 yd³ (0.045 m³)
- **Bucket breakout force (ISO)**: 2,023 lbf (9 kN)

## Service Capacities
- **Fuel tank**: 7.4 gal (28 L)
- **Engine oil**: 1.2 gal (4.4 L)
- **Cooling system**: 0.9 gal (3.3 L)
- **Hydraulic reservoir**: 6.3 gal (24 L)

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

### 9018F with 230 mm (9 in) Shoes, 1.07 m (3 ft 6 in) Arm

### Conditions:
- **Boom length**: 1.7 m (5 ft 6 in)
- **Arm length**: 1.07 m (3 ft 6 in)
- **Counterweight**: 70 kg (154 lb)
- **Shoes**: 230 mm (9 in)
- **Bucket**: SAE 0.045 m³ (0.06 yd³), 46 kg (101 lb)

### Blade Down

#### A Reach: m (ft)

<table>
<thead>
<tr>
<th>B: Height (ft)</th>
<th>1.5 m (4 ft 9 in)</th>
<th>2 m (6 ft 7 in)</th>
<th>2.5 m (8 ft 2 in)</th>
<th>3.0 m (9 ft 10 in)</th>
<th>MAX REACH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cf</td>
<td>Cs</td>
<td>Cf</td>
<td>Cs</td>
<td>Front</td>
</tr>
<tr>
<td>9 ft 10 in</td>
<td>lb</td>
<td></td>
<td></td>
<td></td>
<td>591</td>
</tr>
<tr>
<td>6 ft 7 in</td>
<td>lb</td>
<td></td>
<td></td>
<td></td>
<td>489</td>
</tr>
<tr>
<td>3 ft 3 in</td>
<td>lb</td>
<td>1,042</td>
<td>791</td>
<td>747</td>
<td>537</td>
</tr>
<tr>
<td>0 ft</td>
<td>lb</td>
<td>1,512</td>
<td>1,093</td>
<td>968</td>
<td>723</td>
</tr>
<tr>
<td>-3 ft 3 in</td>
<td>lb</td>
<td>1,523</td>
<td>1,102</td>
<td>961</td>
<td>716</td>
</tr>
</tbody>
</table>

### Blade Up

<table>
<thead>
<tr>
<th>B: Height (ft)</th>
<th>9 ft 10 in</th>
<th>6 ft 7 in</th>
<th>3 ft 3 in</th>
<th>0 ft</th>
<th>-3 ft 3 in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 ft 10 in</td>
<td>lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>6 ft 7 in</td>
<td>lb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 ft 3 in</td>
<td>lb</td>
<td>*1,347</td>
<td>791</td>
<td></td>
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<tr>
<td>0 ft</td>
<td>lb</td>
<td>*1,611</td>
<td>1,093</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-3 ft 3 in</td>
<td>lb</td>
<td>*2,127</td>
<td>1,102</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. * Indicates the load is limited by hydraulic capacity rather than 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.

## Dimensions

<table>
<thead>
<tr>
<th>A</th>
<th>12 ft 2 in (3,707 mm)</th>
<th>F</th>
<th>5 ft 2 in (1,580 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>7 ft 10 in (2,370 mm)</td>
<td>G</td>
<td>3 ft 7 in (1,080 mm)</td>
</tr>
<tr>
<td>C</td>
<td>2 ft 6 in/3 ft 6 in</td>
<td>H</td>
<td>3 ft 6 in (1,070 mm)</td>
</tr>
<tr>
<td>D</td>
<td>3 ft 3 in/4 ft 3 in</td>
<td>I</td>
<td>1 ft 5 in (435 mm)</td>
</tr>
<tr>
<td>E</td>
<td>4 ft 1 in (1,230 mm)</td>
<td>L</td>
<td>9 in (230 mm)</td>
</tr>
</tbody>
</table>