**Engine**

- Volvo TAD571 VE, Tier 4f, 4 cycle, inline 4 cylinder, liquid cooled, electronic controlled
- Vertical canister style lube and main fuel filters and fuel/water separation with manual feed pump attached to engine
- Water in fuel indicator and alarm

**Gross Rating:** 173 hp @ 2200 rpm (129kW)

**Net Rating:** 153 hp @ 2200 rpm (114kW)

**Fuel tank capacity:** 99 gallons (375 L)

**Maximum slope:** 30°

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**Net Rating:** 153 hp @ 2200 rpm (114kW)

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**Maximum slope:** 30°

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**SPECIFICATIONS**

**MINE SCALING MACHINE**

**XL 4320 V**

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**Operator Cab**

- All-weather cab
- Tinted safety glass windows
- Acoustical lining
- Four-way adjustable seat
- AM/FM radio
- Filtered fresh air heater
- Defroster
- Air conditioner
- Front window has heat resistant glass
- Rearview mirrors on right and left sides
- Seat belt
- Swing lights

**Controls**

- Two electronic joysticks (hoist and bucket, telescope and swing)
- One rocker switch (tilt) control
- Joysticks mounted on arm pods
- Quick change joystick pattern switch
- Self-centering joysticks; when controls are released, power for movement disengages and swing and tilt brake set automatically
- Tilting/telescoping steering column
- Hydraulic foot pedal controls braking functions

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**Hydraulic System**

- Three Hydraulic Motors
  - Swing, 64 hp (48 kW)
  - Tilt, 50 hp (37 kW)
  - Propel, 113 hp (84 kW)

**Operating Pressures:**

- Hoist ......................... 4,900 psi (331 BAR)
- Tilt ......................... 4,900 psi (331 BAR)
- Swing .......................... 4,200 psi (290 BAR)
- Tool ................................ 4,900 psi (331 BAR)
- Telescope .................. 4,900 psi (331 BAR)
- Propel ...................... 4,900 psi (331 BAR)
- Pilot System ............. 550 psi (38 BAR)
- Braking & Steering ...... 2,400 psi (165 BAR)
- Blade & Stabilizers .... 4,000 psi (270 BAR)

**Filtration System**

- Reservoir system 65 gallons (246 L)
- Pressurized reservoir with visual oil level gauges

- 10 micron return filter
- 10 micron pilot filter
- Fin and tube-type oil cooler with thermal by-pass and relief valves
- Pressure-compensated, load-sensing valves with circuit reliefs in all circuits

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**Boom**

- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 220° boom tilt
- 105° boom pivot angle
- Auxiliary hydraulics

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**Undercarriage**

- Both axles are equipped with internal wet-disc type service brakes
- The steering axle is fitted with oscillation lock cylinders

**Tires:** 10 x 20 Super-Lug

**Axes:** ZF Model 3070 (FTF 2090)

**Transmission:** ZF Model HL 290

**Drive Motor:** Rexroth A6 Series, 160cc/Rev

**Minimum Turning Radius:** 25.5° (765 m)

- Variable displacement high torque piston motor powers the two-speed power shift transmission
- Speed mode selection can also be done while moving
- Electronically operated travel alarm signals excavator movement

**Travel speed on flat surface - MPH (kmh):**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Creep Mode</th>
<th>Standard Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Gear</td>
<td>1.8 mph (2.9 kmh)</td>
<td>5.7 mph (9.2 kmh)</td>
</tr>
<tr>
<td>Second Gear</td>
<td>6.3 mph (10.1 kmh)</td>
<td>12 mph (19.3 kmh)</td>
</tr>
</tbody>
</table>
### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Overall length with attachment open (Travel Position): 26'0&quot; (7.9)</td>
</tr>
<tr>
<td>A1</td>
<td>Overall length without attachment (Travel Position): 23'10&quot; (7.3)</td>
</tr>
<tr>
<td>B</td>
<td>Overall height with attachment open (Travel Position): 11'6&quot; (3.5)</td>
</tr>
<tr>
<td>B1</td>
<td>Overall height without attachment (Travel Position): 11'2&quot; (3.4)</td>
</tr>
<tr>
<td>C1</td>
<td>Width of understructure: 9'0&quot; (2.7)</td>
</tr>
<tr>
<td>D</td>
<td>Minimum clearance, understructure to undercarriage: 3&quot; (78 mm)</td>
</tr>
<tr>
<td>E</td>
<td>Swing clearance, rear of understructure: 8'0&quot; (2.4)</td>
</tr>
<tr>
<td>F</td>
<td>Top of cab guard to groundline: 11'1&quot; (3.4)</td>
</tr>
<tr>
<td>G</td>
<td>Clearance, upperstructure to groundline: 4'2&quot; (1.3)</td>
</tr>
<tr>
<td>H1</td>
<td>Height of optional folding lift yoke lowered: 19'0&quot; (5.5)</td>
</tr>
<tr>
<td>H2</td>
<td>Height of pin of optional folding lift yoke: 3'0&quot; (0.9)</td>
</tr>
<tr>
<td>H3</td>
<td>Overall height of optional folding lift yoke: 4'0&quot; (1.2)</td>
</tr>
<tr>
<td>H4</td>
<td>Height to pin of optional rigid lift yoke: 2'8&quot; (0.8)</td>
</tr>
<tr>
<td>H5</td>
<td>Overall height of optional rigid lift yoke: 3'0&quot; (0.9)</td>
</tr>
<tr>
<td>J1</td>
<td>Axis of rotation to centerline of drive sprockets: 36'0&quot; (11.0)</td>
</tr>
<tr>
<td>J2</td>
<td>Wheelbase of undercarriage: 8'9&quot; (2.7)</td>
</tr>
<tr>
<td>J3</td>
<td>Axis of rotation to front of undercarriage: 7'0&quot; (2.1)</td>
</tr>
</tbody>
</table>

### Function Forces

- **Rated Boom Force:** 22,075 lbs (98.2 kN)
- **Rated Ripper Tooth Force:** 25,405 lbs (113 kN)
- **Boom Rotating Torque:** 25,800 ft lb (34,980 Nm)
- **Boom Rotating Speed:** 7.0 rpm

### Weight

- **Approximate working weight with 36" (914 mm) excavating bucket, fuel tank half full:**
  - 46,580 lbs (21,128 kg)
- **Outriggers:** 2,720 lbs (1,234 kg)
- **Blade:** 1,529 lbs (694 kg)