XL 7320 V
MINE SCALER MACHINE

SPECIFICATIONS

Engine

- Volvo TAD572 VE, Tier 4f, MSHA Certified
- 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: 215 hp @ 2200 rpm (160kW)
671 ft lb torque @ 1100-1500 rpm (910Nm)

Net Rating: 195 hp @ 2200 rpm (145kW)
- Variable viscous fan clutch system
- Camera system with three external cameras
- Cab cage with protective rock guard
- Pressure cab with Heppa Filter
- Cab tilt angle is infinitely adjustable from level to 23° upward
- Air conditioner
- Defroster
- Filtered fresh air heater
- AM/FM radio
- Four-way adjustable seat
- Acoustical lining
- Tinted safety glass windows
- Acoustical lining
- Four-way adjustable seat
- AM/FM radio
- Filtered fresh air heater
- Air conditioner
- Front window slides to overhead position
- Rearview mirror on left side
- Seat belt
- Swing lights
- Locking toolboxes on each side
- Access ladders on both sides and both ends of machine
- Oscillating front steer axle with automatic lock-out cylinders
- Four-wheel enclosed sealed wet-disc brakes
- Full-time 4 x 4 drive with 2-speed Powershift transmission
- Rigid mount rear axle
- Powershift transmission
- Four-wheel enclosed sealed wet-disc brakes
- Access ladders on both sides and both ends of machine
- Locking toolboxes on each side
- Minimum Turning Radius (curb-curbs): 38 ft (11.6 m)
- Maximum Gradeability: 47%
- Maximum Travel Speed: 11 mph (17.7 kph)
- Tires: 16.00 x 25 (28 ply)

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
- Switch on the FWD/REV selector provides 1st/2nd gear selection
- Tilting/telescoping steering column
- Hydraulic foot pedal controls braking functions
- Travel speed is regulated with an electronic foot pedal control
- Switch on the FWD/REV selector provides 1st/2nd gear selection
- Independent rocker switches control park brake and travel alarm mode
- Fuel saving auto idle feature sends engine to idle when control circuits are in neutral for seven seconds

Boom

- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 270° boom tilt
- 74° boom pivot angle
- Auxiliary hydraulics

Hydraulic System

Pumps
- One load-sensing, axial piston pump; oil flow 0-110 GPM (0-416 L/min)
- Tandem gear pump (steering, brake/pilot) 10 GPM (38 L/min), 6 GPM (23 L/min)

System monitor
- Electronic monitor in cab indicates
  - Low hydraulic fluid level
  - High hydraulic fluid temperature
  - System working pressure
  - System pilot pressure

Filtration System
- 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

Operator Cab

- Temperature compensated oil intake filter
- Manual feed pump attached to engine
- Vertical stacked hydraulic oil cooler, charge air cooler and radiator
- Vertical canister style lube and main fuel pre-cleaner, vacuator valve and remote service indicator
- Water in fuel indicator and alarm

Fuel tank capacity: 90 gallon (341 L)

Three hydraulic motors
- Swing, 68 hp (51 kW)
- Tilt, 28 hp (21 kW)
- Propel, 113 hp (84 kW)

Operating pressures:
- Hoist…………………..4,900 psi (331 BAR)
- Tilt…………………..2,400 psi (165 BAR)
- Swing…………………4,900 psi (331 BAR)
- Tool…………………..4,900 psi (331 BAR)
- Telescope……………3,300 psi (228 BAR)
- Propel…………………..4,900 psi (331 BAR)
- Pilot System…………550 psi (38 BAR)
- Braking & Steering……2,400 psi (165 BAR)

System specifications

Six cylinders
- One tool: 5.0” ID, 3.0” rod, (127 mm x 76 mm) 25.9” (658 mm) stroke
- Two hoist cylinders: 4.25” ID, 3.0” rod, (108 mm x 76 mm) 53.43” (1357 mm) stroke
- One telescope: 4.5” ID, 3.25” rod, (114 mm x 83 mm) 136” (3.94 m) stroke
- Two single-acting axle oscillation cylinders: 4.528” ID, 4.528” rod (115 mm x 115 mm), 6.25” (159 mm) stroke

Oil Capacity
- Reservoir system 61 gallon (231 L)
- Pressurized reservoir with visual oil level gauges

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**Dimensions**

<table>
<thead>
<tr>
<th>47' Boom</th>
<th>52' Boom</th>
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<tbody>
<tr>
<td><strong>A1</strong> 36' 9&quot; (11.2)</td>
<td>43' 0&quot; (13.1)</td>
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<tr>
<td><strong>A2</strong> 34' 7&quot; (10.5)</td>
<td>40' 10&quot; (12.4)</td>
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<tr>
<td><strong>B1</strong> 13' 8&quot; (4.2)</td>
<td>13' 6&quot; (4.1)</td>
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<tr>
<td><strong>C1</strong> 13' 4&quot; (4.1)</td>
<td>13' 4&quot; (4.1)</td>
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<tr>
<td><strong>E</strong> 10' 0&quot; (3.0)</td>
<td>10' 0&quot; (3.0)</td>
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<tr>
<td><strong>F1</strong> 13’ 2” (4.0)</td>
<td>13’ 2” (4.0)</td>
</tr>
<tr>
<td><strong>F2</strong> 13’ 6” (4.1)</td>
<td>13’ 6” (4.1)</td>
</tr>
<tr>
<td><strong>FA</strong> 25°</td>
<td>25°</td>
</tr>
<tr>
<td><strong>G1</strong> 5’ 2” (1.6)</td>
<td>5’ 2” (1.6)</td>
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<tr>
<td><strong>G2</strong> 5’ 4” (1.6)</td>
<td>5’ 4” (1.6)</td>
</tr>
<tr>
<td><strong>J2</strong> 12’ 6” (3.8)</td>
<td>12’ 6” (3.8)</td>
</tr>
<tr>
<td><strong>K1</strong> 13’ 1” (4.0)</td>
<td>13’ 1” (4.0)</td>
</tr>
<tr>
<td><strong>K2</strong> 13’ 6” (4.1)</td>
<td>13’ 6” (4.1)</td>
</tr>
<tr>
<td><strong>N</strong> 1’ 4” (0.4)</td>
<td>1’ 4” (0.4)</td>
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<tr>
<td><strong>V</strong> 11’ 7” (3.5)</td>
<td>11’ 7” (3.5)</td>
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**47' Boom**

- **AA** 41’ 6" (12.7)
- **AB** 3’ 10" (1.2)
- **AH** 26’ 3" (8.0)
- **AK** 9’ 4" (2.8)
- **AP** 4’ 5" (1.3)
- **AS** 114°
- **AU** 38’ 7" (11.8)
- **AV** 25’ 0" (7.6)
- **AW** 13’ 6" (4.1)
- **AX** 270°
- **BA** 42’ 6" (13.0)
- **BB** 47’ 1" (14.3)
- **BD** 43’ 0" (13.1)
- **BE** 31’ 8” (9.6)
- **BG** 14’ 3” (4.3)

**52' Boom**

- **AA** 47’ 10" (14.6)
- **AB** 6’ 2" (1.9)
- **AH** 32’ 2” (9.8)
- **AK** 9’ 4" (2.8)
- **AP** 4’ 5" (1.3)
- **AS** 114°
- **AU** 44’ 9" (13.6)
- **AV** 31’ 3" (9.5)
- **AW** 13’ 6" (4.1)
- **AX** 270°
- **BA** 48’ 9" (14.9)
- **BB** 52’ 3" (15.9)
- **BD** 48’ 2" (14.7)
- **BE** 36’ 10" (11.2)
- **BG** 14’ 3” (4.3)

**Function Forces**

- **Rated Boom In:** 23,210 lbs (103 kN)
- **Rated Boom Out:** 27,357 lbs (122 kN)
- **Rated Ripper Tooth Force:** 19,888 lbs (89 kN)
- **Boom Rotating Torque:** 18,375 ft lb (24913 Nm)

**Weight**

- **Approximate working weight:** 77,500 lb (35,153 kg)