XL 5220 V
MINE SCALING MACHINE

SPECIFICATIONS

Engine
- Volvo TAD551 VE, Tier III (optional TAD571 VE Tier 4f), 4 cycle, inline 4 cylinder, liquid cooled, electronic controlled
- Vertical canister style lube filter 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 (129 kW)
590 ft lb Torque @ 1100-1500 rpm (800 Nm)

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

• Variable viscous fan clutch system
• Vertical stacked hydraulic oil cooler, charge air cooler and radiator
• Block heater

Maximum slope: 30°
- 24 volt starter
- 100 amp alternator
- Two SAE #C31-S 1000 CCA batteries
- Two-stage dry type air cleaner with centrifugal pre-cleaner and safety element
- Vacuator valve and service indicator

Fuel tank capacity: 82 gallons (310 L)

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 slides to overhead storage
- Rearview mirrors on right and left sides
- Swing lights
- Non tinted sky light
- Windshield wiper and washer

Hydraulic System

Pumps
- One load-sensing, axial piston pump; oil flow 0-110 gpm (0-435 L/min)
- Gear pump, 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

SYSTEM SPECIFICATIONS

Four Cylinders
- One tool: 5.0” ID, 3.0” rod (127 mm x 76 mm), 25.9” (658 mm) stroke
- Two hoist: 4.75” ID, 3.35” rod (121 mm x 85 mm), 31.0” (787 mm) stroke
- One telescope: 3.75” ID, 2.75” rod (95 mm x 70 mm), 14” (4.27 m) stroke

Four Hydraulic Motors
- Swing, 68 hp (51 kW)
- Tilt, 50 hp (37 kW)
- Two propel motors, 120 hp (89 kW) each

Crawler Drive
- Dual range, high torque piston motor powers each track
- Three-stage planetary drive with integral speed limiting valve and automatic spring-set/hydraulic release wet-disc parking brake

Travel Speed:
- on flat, level surface:
  - High Speed: 3.4 mph (5.5 km/h)
  - Low Speed: 1.9 mph (3.1 km/h)
- Automatic two-speed control shifts crawler drive into low speed under difficult travel conditions
- Manual override switch for loading the machine for transport.

Gradeability:
- 58%, limited by engine lubrication requirements

Drawbar Pull
- 38,324 lbs (170 kN)

Individual Track Control
- Tracks counter-rotate to pivot machine about the swing centerline
- Electronically operated travel alarm signals crawler movement in either direction
**Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
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</thead>
<tbody>
<tr>
<td>A Overall length with attachment open</td>
<td>28'4&quot; (8.6)</td>
</tr>
<tr>
<td>A1 Overall length without attachment</td>
<td>26'3&quot; (8.0)</td>
</tr>
<tr>
<td>B Overall height with attachment open</td>
<td>10'9&quot; (3.3)</td>
</tr>
<tr>
<td>B1 Overall height without attachment</td>
<td>10'5&quot; (3.2)</td>
</tr>
<tr>
<td>C1 Width of upperstructure</td>
<td>9'0&quot; (2.7)</td>
</tr>
<tr>
<td>D Minimum clearance, upperstructure to undercarriage</td>
<td>5' (1.5)</td>
</tr>
<tr>
<td>E Swing clearance, rear of upperstructure</td>
<td>6'6&quot; (2.0)</td>
</tr>
<tr>
<td>F Top of cab guard to groundline</td>
<td>10'5&quot; (3.2)</td>
</tr>
<tr>
<td>G Clearance, upperstructure to groundline</td>
<td>3'5&quot; (1.0)</td>
</tr>
<tr>
<td>J1 Axis of rotation to centerline of drive sprockets</td>
<td>5' (1.5)</td>
</tr>
<tr>
<td>J2 Nominal distance between centerlines of drive sprockets and idlers</td>
<td>11'0&quot; (3.4)</td>
</tr>
<tr>
<td>J3 Axis of rotation to end of track assembly</td>
<td>6'10&quot; (2.1)</td>
</tr>
<tr>
<td>J4 Nominal overall length of track assembly</td>
<td>13'8&quot; (4.2)</td>
</tr>
<tr>
<td>K Width of crawler (standard)</td>
<td>10'6&quot; (3.2)</td>
</tr>
<tr>
<td>L Width of crawler (optional)</td>
<td>9'10&quot; (3.0)</td>
</tr>
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</table>

**N** Ground clearance (per SAE J1234): 18" (454 mm)  
**V** Track gauge, roller centerline to roller centerline: 7'10" (2.4)  
**Y** Width of crawler track assembly (standard): 31'5" (800 mm)  
**V** Width of crawler track assembly (optional): 23'6" (600 mm)  
**AA** Maximum radius at groundline (Scaling Hook): 34'10" (10.6)  
**AB** Maximum depth: 26'2" (8.0)  
**AH** Minimum radius at groundline: 14'9" (4.5)  
**AK** Boom pivot to groundline: 5'6" (1.7)  
**AL** Boom pivot to axis of rotation: 1'11" (585 mm)  
**AP** Attachment tooth radius: 3'10" (1.2)  
**AQ** Boom pivot angle: 30° Up and 75° Down  
**AS** Attachment pivot angle: 165°  
**AU** Maximum telescoping boom length (boom pivot to attachment pivot): 29'6" (9.0)  
**AV** Minimum telescoping boom length (boom pivot to attachment pivot): 15'6" (4.7)  
**AW** Telescoping boom travel: 140° (4.3)  
**AX** Boom tilt angle (continuous): 360°  
**BA** Maximum radius of working equipment: 35'4" (10.8)  
**BB** Maximum height of working equipment: 26'0" (7.9)  
**BD** Minimum clearance of attachment with pivot at maximum height: 18'5" (5.6)  
**BF** Minimum clearance of attachment at maximum boom height: 11'5" (3.5)  
**BG** Maximum height of working equipment with attachment below groundline: 14'2" (4.3)  
**BH** Radius of attachment tooth at maximum height: 27'1" (8.2)  

**Swing**

- Priority swing circuit with axial piston motor  
- Planetary transmission  

**Swing speed:** 70 rpm  

**Swing Brake**

- Automatic spring-set/hydraulic release wet-disc parking brake  
- Dynamic braking is provided by the hydraulic system  

**Weight**

- Approximate working weight with hammer, fuel tank half full and no operator  

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<tr>
<th>Pad Size</th>
<th>Weight</th>
<th>Bearing Pressure</th>
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<tr>
<td>23'6&quot; 600 mm</td>
<td>58,032 lbs (26,322 kg)</td>
<td>93 psi (641 kPa)</td>
</tr>
<tr>
<td>31'5&quot; 800 mm</td>
<td>59,162 lbs (26,835 kg)</td>
<td>71 psi (489 kPa)</td>
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**Function Forces**

- Rated Boom Force: 24,941 lbs (111 kN)  
- Rated Ripper Tooth Force: 25,405 lbs (113 kN)  
- Boom Rotating Torque: 25,800 ft lb (34,980 Nm)  
- Boom Rotating Speed: 70 rpm