XL 3320 V
MINE SCALER MACHINE

SPECIFICATIONS

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: 172 hp @ 2000 rpm (128kW)
Net Rating: 152 hp @ 2000 rpm (114kW)

Fuel tank capacity:

Maximum slope: 30°

Gross Rating:
- 172 hp @ 2000 rpm (128kW)

Fuel saving auto idle feature sends engine rpm to idle when control circuits are in neutral for seven seconds

Three Hydraulic Motors
- Swing, 51 hp (38 kW)
- Tilt, 50 hp (37 kW)
- Propel, 113 hp (84 kW)

Operating Pressures:
- Hoist...4,900 psi (331 BAR)
- Tilt...3,000 psi (207 BAR)
- Swing...4,900 psi (331 BAR)
- Tool...5,500 psi (38 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 (207 BAR)

Oil Capacity
- Reservoir system 65 gallons (246 L)
- Pressure regulated with visual oil level

Filtration System
- 10 micron return filter
- 10 micron pilot filter
- Low pressure system with thermal by-pass and relief valves

Pressure-compensated, load-sensing valves with circuit relief in all circuits

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

Hydraulic System
- One load-sensing, axial piston pump; oil flow 0-100 gpm (0-378 L/min)
- Tandem gear pump (steering, brake/pilot) 10 gpm (38 L/min), 6 gpm (23 L/min)

System Monitor
- Low hydraulic fluid level
- High hydraulic fluid temperature
- System operating pressure
- System pilot pressure

Three Hydraulic Motors
- Propulsion
- Tilt
- Swing

Drive Motor: Rexroth A6 Series, 160cc/Rev

Minimum Turning Radius: 25 1/2° (658 mm)
- 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>Creeper Mode</th>
<th>Standard Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>1.8 mph (2.9 kmh)</td>
<td>5.7 mph (9.2 kmh)</td>
</tr>
<tr>
<td>Second</td>
<td>6.3 mph (10.1 kmh)</td>
<td>12 mph (19.3 kmh)</td>
</tr>
</tbody>
</table>

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

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

Tires: 10 x 20 Super-Lug

Axles: ZF Model 3070 (FTF 2090)

Transmission: ZF Model HL 290

Creeper Mode
- Standard Mode
Dimensions

| A | Overall length with attachment open (Travel Position): 24’0” (7.3) |
| B | Overall height with attachment open (Travel Position): 71’6” (2.2) |
| C1 | Width of upper structure: 9’0” (2.7) |
| D | Minimum clearance, upper structure to undercarriage: 3” (78 mm) |
| E | Swing clearance, rear of upper structure: 7’6” (2.3) |
| F | Top of cab guard to groundline: 11’1” (3.4) |
| G | Clearance, understructure to groundline: 4’2” (1.3) |
| H1 | Height of optional folding lift yoke lowered: 19’6” (5.9) |
| H2 | Height of pin of optional folding lift yoke: 3’7” (1.1) |
| H3 | Overall height of optional folding lift yoke: 4’0” (1.2) |
| H4 | Height to pin of optional rigid lift yoke: 2’8” (0.8) |
| H5 | Overall height of optional rigid lift yoke: 3’0” (0.9) |
| J1 | Axis of rotation to centerline of drive sprockets: 36” (0.9) |
| J2 | Wheelbase of undercarriage: 8’9” (2.7) |
| J3 | Axis of rotation to front of undercarriage: 7’0” (2.1) |

J4 Nominal overall length of undercarriage: 12’3” (3.7)
J5 Axis of rotation to front option attachment pin: 6’9” (2.1)
J6 Axis of rotation to rear option attachment pin: 4’9” (1.4)
J7 Outrigger length, attachment pin to pad in up position: 2’7” (0.8)
J8 Outrigger length, attachment pin to pad in down position: 3’3” (1.0)
J9 Blade length, attachment pin across blade in up position: 3’4” (1.0)
J10 Overall width of undercarriage: 8’6” (2.6)
J11 Overall width outrigger (up position): 8’4” (2.5)
J12 Overall width blade: 8’6” (2.6)
J13 Overall width outrigger (down position): 10’8” (3.3)
J14 Ground clearance (per SAE J1234): 11” (275 mm)
J15 Ground clearance (outrigger option): 12” (300 mm)
J16 Blade above ground (option): 18” (457 mm)
J17 Maximum lift of blade (option): 7’0” (166 mm)
J18 Maximum lift of outrigger (option): 6’0” (142 mm)
J19 Maximum radius of blade (scaling hook): 28’2” (8.6)
J20 Maximum radius of overall (S-29 Hammer): 31’5” (9.6)
J21 Minimum radius at groundline: 10’5” (3.2)
J22 Minimum radius to groundline: 10’5” (3.2)
J23 Minimum radius at groundline: 10’5” (3.2)
J24 Minimum radius at groundline: 10’5” (3.2)
J25 Minimum radius at groundline: 10’5” (3.2)
J26 Minimum radius at groundline: 10’5” (3.2)
J27 Minimum radius at groundline: 10’5” (3.2)
J28 Minimum radius at groundline: 10’5” (3.2)
J29 Minimum radius at groundline: 10’5” (3.2)
J30 Minimum radius at groundline: 10’5” (3.2)
J31 Minimum radius at groundline: 10’5” (3.2)

Swing

- Priority swing circuit with axial piston motor
- Planetary transmission

Swing speed: 8.0 rpm

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

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:
  - 42,294 lb (19,184 kg)
- Outriggers: 2,720 lb (1,234 kg)
- Blade: 1,529 lb (694 kg)