XL 3310 V
STEEL MILL MAINTENANCE

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: 172 hp @ 2000 rpm (128kW)
82 gallons (310 L)

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

Maximum slope: 30°
• Variable viscous fan clutch system
• Vacuator valve and service indicator
• Two-stage dry type air cleaner with centrifugal pre-cleaner and safety element
• Vacuumator 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 has heat resistant glass
• Rearview mirrors on right and left sides
• Seat belt
• Swing lights

Controls
• Two electronic joysticks (hoist and bucket, steering and swing)
• One rocker switch (tilt) control
• Joysticks mounted on arm pods
• Quick change joystick pattern switch located on instrument panel
• Joysticks are self-centering when controls are released, power for movement disengages and swing and tilt brake set automatically

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

Operating Pressures:
• Hoist.................................4,900 psi (331 BAR)
• Tilt........................................4,900 psi (331 BAR)
• Swing.................................3,000 psi (207 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 (207 BAR)

Oil Capacity
• Reservoir system 66 gallons (246 L)
• Pressurized reservoir with visual oil level gauges

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

Boom
• Two piece triangular telescoping boom
• Adjustable boom rollers with eccentric shafts
• 360° continuous boom tilt
• 105° boom pivot angle

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

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: 3.50” ID, 2.559” rod (89 mm x 65 mm), 31.0” (787 mm) stroke
• One telescope: 3.5” ID, 2.559” rod (89 mm x 65 mm), 11” (335 mm) stroke
• One single-acting axle oscillation cylinders: 4.528” ID, 4.528” rod (115 mm x 115 mm), 6.25” (159 mm) stroke

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

Axles: ZF Model 3070 (FTF 2090)
Transmission: ZF Model HL 290

Drive Motor: Rexroth A6 Series, 160cc/Rev

Minimum Turning Radius: 25’1” (765 m)
• Variable displacement high torque piston motor powers the 2-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 Speed</th>
<th>Standard Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>1.8 mph (2.9 kmh)</td>
<td>5.7 mph (9.2 kmh)</td>
</tr>
<tr>
<td>2nd</td>
<td>6.3 mph (10.1 kmh)</td>
<td>12 mph (19.3 kmh)</td>
</tr>
</tbody>
</table>
### Dimensions

- **A** Overall length with attachment open (Travel Position): 24'0" (7.3)
- **A1** Overall length without attachment (Travel Position): 21'10" (6.7)
- **B** Overall height with attachment open (Travel Position): 11'6" (3.5)
- **B1** Overall height without attachment (Travel Position): 11'2" (3.4)
- **C1** Width of upperstructure: 9'0" (2.7)
- **D** Minimum clearance, upperstructure to undercarriage: 3" (78 mm)
- **E** Swing clearance, rear of upperstructure: 7'6" (2.3)
- **F** Top of cab guard to groundline: 11'1" (3.4)
- **G** Clearance, upperstructure to groundline: 4'2" (1.3)
- **H1** Height of optional folding lift yoke lowered: 1'9" (0.5)
- **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: 3'6" (1.1)
- **J2** Wheelbase of undercarriage: 8'9" (2.7)
- **J3** Axis of rotation to front of undercarriage: 7'0" (2.1)

### Swing

- **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: 3'1" (1.0)
- **K** Overall width of undercarriage: 8'6" (2.6)
- **K1** Overall width of undercarriage (up position): 8'4" (2.5)
- **K2** Overall width of blade: 8'6" (2.6)
- **L** Overall width of outrigger (down position): 10'5" (3.3)
- **N** Ground clearance (per SAE J1234): 11" (2.8)
- **N1** Ground clearance (outrigger option): 12'3" (3.3)
- **Z** Blade above ground option: 1'11" (585 mm)
- **Z1** Maximum lift of blade (option): 7'0" (166 mm)
- **Z2** Maximum lift of outrigger (option): 6'0" (142 mm)
- **AA** Maximum radius at groundline (scaling hook): 28'2" (8.6)
- **AB** Maximum depth: 19'2" (5.6)
- **AH** Minimum radius at groundline: 10'5" (3.2)
- **AK** Boom pivot to groundline: 6'5" (2.0)
- **AL** Boom pivot to axis of rotation: 11'1" (3.4)
- **AP** Attachment tooth radius (scaling hook): 3'10" (1.2)
- **AQ** Boom pivot angle: 30° Up and 75° Down
- **AS** Attachment pivot angle: 165°
- **AV** Minimum telescoping boom length (boom pivot to attachment pivot): 23'1" (7.0)
- **AW** Minimum telescoping boom length (boom pivot to attachment pivot): 12'1" (3.7)
- **AX** Maximum telescoping boom length: 29'0" (8.8)
- **AY** Boom tilting angle (continuous): 360°
- **BA** Maximum radius of working equipment: 29'0" (8.8)
- **BB** Maximum height of working equipment: 23'7" (7.2)
- **BD** Minimum clearance of attachment with pivot at maximum height: 15'11" (4.8)
- **BF** Minimum clearance of attachment at maximum boom lift: 10'5" (3.2)
- **BG** Maximum height of working equipment with attachment below groundline: 14'11" (4.5)
- **BH** Radius of attachment tooth at maximum height: 21'6" (6.6)

### 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 lbs (19,184 kg)
- **Outriggers:** 2,720 lbs (1,234 kg)
- **Blade:** 1,480 lbs (671 kg)