XL 5210 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: 173 hp @ 2200 rpm (129 kW)
Net Rating: 153 hp @ 2200 rpm (114 kW)

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 has heat-resistant glass
- Rearview mirrors on right and left sides
- 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 located on instrument panel
- Joysticks are self-centering; when controls are released, power for movement disengages and swing and tilt brake set automatically

Hydraulic System
- One load-sensing, axial piston pump: oil flow 0-110 gpm (0-435 L/min)
- Gear pump, 6 gpm (23 L/min)

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), 310° (787 mm) stroke
- One telescope: 3.75" ID, 2.75" rod (95 mm x 70 mm), 14° (427 mm) stroke

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

Operating Pressures:
- Hoist.........................4,900 psi (331 BAR)
- Tilt.........................4,900 psi (331 BAR)
- Swing......................4,500 psi (310 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)

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

A  Overall length with attachment open: 28’4” (8.6)
A1 Overall length without attachment: 26’3” (8.0)
B  Overall height with attachment open: 10’9” (3.3)
B1 Overall height without attachment: 10’5” (3.2)
C1 Width of upperstructure: 9’0” (2.7)
D  Minimum clearance, upperstructure to undercarriage: 5’ (1.5)
E  Swing clearance, rear of upperstructure: 6’6” (2.0)
F  Top of cab guard to groundline: 10’5” (3.2)
G  Clearance, upperstructure to groundline: 3’1” (1.0)
H1 Height of optional folding lift yoke lowered: 19’ (5.8)
H2 Height of pin of optional folding lift yoke: 37’ (11.1)
H3 Overall height of optional folding lift yoke: 40’ (12.2)
H4 Height to pin of optional rigid lift yoke: 28’ (8.6)
H5 Overall height of optional rigid lift yoke: 30’ (9.1)
J1 Axis of rotation to centerline of drive sprockets: 51’ (15.5)
J2 Nominal distance between centerlines of drive sprockets and idlers: 110’ (33.5)
J3 Axis of rotation to end of track assembly: 610’ (21.0)
J4 Nominal overall length of track assembly: 13’8” (4.2)
K  Width of crawler (standard): 10’6” (3.2)
L  Width of crawler (optional): 9’10” (3.0)
M  Ground clearance (per SAE J1234): 18” (454 mm)
N  Track gauge, roller centerline to roller centerline: 7’10” (2.4)
O  Width of crawler track assembly (standard): 31’5” (800 mm)
P  Width of crawler track assembly (optional): 23’6” (600 mm)
Q  Maximum radius of working equipment: 35’4” (10.8)
R  Maximum height of working equipment: 26’2” (7.9)
S  Minimum clearance of attachment with pivot at maximum height: 18’5” (5.6)
T  Minimum clearance of attachment at maximum boom height: 11’5” (3.5)
U  Maximum height of working equipment with attachment below groundline: 14’2” (4.3)
V  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

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: 7.0 rpm

Weight

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

<table>
<thead>
<tr>
<th>Pad Size</th>
<th>Weight</th>
<th>Bearing Pressure</th>
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<tbody>
<tr>
<td>236” 600 mm</td>
<td>58,032 lbs (26,322 kg)</td>
<td>93 psi (641 kPa)</td>
</tr>
<tr>
<td>315” 800 mm</td>
<td>59,162 lbs (26,835 kg)</td>
<td>71 psi (489 kPa)</td>
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Specifications subject to change without notice. Metric units are meters (m) unless noted. Machines shown may have optional equipment.

It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.