XL 5210 V
STEEL MILL MAINTENANCE

SPECIFICATIONS

Engine
- Volvo 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 (129kW)
590 ft lb Torque @ 1100-1500 rpm (800Nm)

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

• 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 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
- Self-centering joysticks; when controls are released, power for movement disengages and swing and tilt brake set automatically

• Two electric foot pedals (with handles) control crawler travel speed and direction, crawler steering and crawler brakes
• Toggle switch on arm pod allows selection of two crawler speed ranges

Engine Controls and Instrumentation
- Key operated ignition/starter switch, throttle and main battery disconnect switch
- Air cleaner condition indicator
- Electronic monitor indicates fuel level, low battery charge, lube oil pressure, high coolant temperature, engine rpm and engine hours
- Fuel saving auto idle feature sends engine rpm to idle when control circuits are in neutral for seven seconds

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

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), 310." (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, 88 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)

Oil Capacity
- Reservoir system 65 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

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 m)

E Swing clearance, rear of upperstructure: 8'6" (2.6)

F Top of cab guard to groundline: 10'5" (3.2)

G Clearance, upperstructure to groundline: 3'5" (1.0)

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 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: 5'1" (1.7)
J2 Nominal distance between centerlines of drive sprockets and idlers: 11'0" (3.4)

J3 Axis of rotation to end of track assembly: 6'10" (2.1)
J4 Nominal overall length of track assembly: 13'6" (4.2)

K Width of crawler (standard): 10'6" (3.2)
K1 Width of crawler (optional): 9'10" (3.0)

L Minimum clearance, upperstructure to undercarriage: 5' (1.5 m)

M Height of attachment tooth radius: 3'10" (1.2)
M1 Height of attachment bit radius: 7'0" (2.1)

N Ground clearance (per SAE J1234): 18" (454 mm)

O Track gauge, roller centerline to roller centerline: 7'10" (2.4)

P Track gauge, roller centerline to roller centerline: 11'0" (3.4)

Q Width of crawler track assembly (standard): 31'5" (800 mm)
Q1 Width of crawler track assembly (optional): 23'6" (600 mm)

R Width of crawler track assembly (standard): 31'5" (800 mm)
R1 Width of crawler track assembly (optional): 23'6" (600 mm)

S Minimum clearance of attachment with pivot at maximum height: 18'5" (5.6)
S1 Minimum clearance of attachment at maximum boom height: 11'5" (3.5)

T Maximum height of working equipment with attachment below groundline: 14'2" (4.3)

U Maximum radius of working equipment: 35'4" (10.8)

V Minimum radius of working equipment: 26'2" (8.0)

W Maximum radius of working equipment: 30° Up and 75° Down

X Boom pivot angle: 30° Up and 75° Down

Y Boom pivot angle: 165°

Z Minimum telescoping boom length (boom pivot to attachment pivot): 14'0" (4.3)

AA Maximum radius at groundline (Scaling Hook): 34'10" (10.6)

AB Maximum radius at groundline (S-29 Hammer): 38'1" (11.6)

AC Maximum radius: 26'2" (8.0)

AD Minimum radius at groundline: 14'9" (4.5)

AE Boom pivot to groundline: 5'8" (1.7)

AF Boom pivot to axis of rotation: 1'11" (3.6)

AG Maximum radius at groundline (S-29 Hammer): 38'1" (11.6)

AH Minimum radius at groundline: 14'9" (4.5)

AI Boom pivot to groundline: 5'8" (1.7)

AJ Boom pivot to axis of rotation: 1'11" (3.6)

AK Boom pivot to axis of rotation: 1'11" (3.6)

AL Boom pivot to axis of rotation: 1'11" (3.6)

AM Minimum radius at groundline: 14'9" (4.5)

AN Boom pivot to groundline: 5'8" (1.7)

AO Boom pivot to axis of rotation: 1'11" (3.6)

AP Attachment tooth radius: 3'10" (1.2)
AP1 Attachment bit radius: 7'0" (2.1)

AQ Boom pivot angle: 30° Up and 75° Down

AS Attachment pivot angle: 165°

AT Minimum telescoping boom length (boom pivot to attachment pivot): 15'6" (4.7)

AV Minimum telescoping boom length (boom pivot to attachment pivot): 15'6" (4.7)

AW Telescoping boom travel: 14'0" (4.3)

AX Boom tilt angle (continuous): 360°

BA Maximum radius of working equipment: 35'4" (10.8)

BB Maximum height of working equipment: 26'2" (8.0)

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)

Specifications subject to change without notice. Metric units are meters (m) unless noted. Machines shown may have optional equipment.

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>600 mm</td>
<td>58,032 lbs (26,322 kg)</td>
<td>93 psi (641 kPa)</td>
</tr>
<tr>
<td>800 mm</td>
<td>59,162 lbs (26,835 kg)</td>
<td>71 psi (489 kPa)</td>
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