

XL 7210 V

STEEL MILL MAINTENANCE



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: 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
- · Heat-resistant glass in front window
- · Rearview mirror on left side
- · Seat belt
- Swing lights
- Camera system with three external cameras

Controls

- Two electronic joysticks (hoist and bucket, telescope and swing)
- · One rocker switch (tilt) control
- Joysticks on arm pods
- Quick change joystick pattern switch on instrument panel

- Self-centering joysticks; When controls are released, power for movement disengages and swing and tilt brake sets automatically
- Two electric foot pedals (with handles) control crawler travel speed and direction, crawler steering and braking
- 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 with shutdown protocol
- Fuel saving feature automatically 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 (0-416 L/min)
- Pilot gear pump 6 gpm (23 L/min)

System Monitor

- Electronic monitor in cab indicates:
- Low hydraulic fluid level with shutdown
- 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: 4.25" ID, 3.0" rod, (108 mm x 76 mm). 53.43" (1357 mm) stroke
- One telescope: 4.5" ID, 3.25" rod, (127 mm x 83 mm) 13'6" (3.94 m) stroke

Four Hydraulic Motors

- Swing, 68 hp (51 kW)
- Tilt, 28 hp (21 kW)
- Two propel motors, 120 hp (89 kw) each

Operating Pressures

 Hoist 	4,900	psi	(331)	BAR)
• Tilt	2,400	psi	(165	BAR
• Swing	4,500	psi	(310	BAR
• Tool	4,900	psi	(331	BAR
• Telescope	3,300	psi	(228	BAR)
• Propel	4,900	psi	(331	BAR)
Pilot System	550	psi	(38	BAR)

Oil Capacity

- System 95 gallon (360 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
- Planetary crawler drive with integral park brake

Travel speed on flat, level surface High Speed 2.0 mph (3.2 km/h) Low Speed 1.0 mph (1.6 km/h)

- Automatic two-speed control shifts crawler drive into low speed under difficult travel conditions
- Manual override selector switch to lock travel in low speed

Gradeability

• 88%, limited by engine lubrication requirements

Drawbar Pull

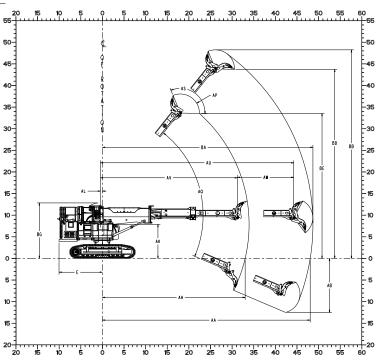
• 65,205 lbs (290 kN)

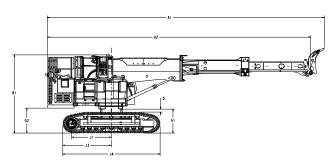
Track Width: 31.5" (800 mm)

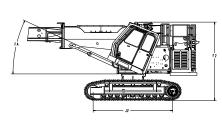
Track Length: (sprocket - idler) 149.5" (3795 mm)

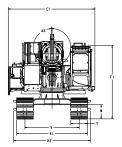
Average Ground Pressure:

8.18 psi (0.58 kg/cm2)









Dimensions

- **A1** Overall length (boom level) with scaling hook: 43' 5" (13.2)
- **A2** Overall length (boom level) without scaling hook: 41' 3" (12.6)
- B1 Overall height (boom level): 12' 3" (3.7)
- C1 Width of upperstructure: 13' 6" (4.1)
- Minimum clearance, upperstructure to undercarriage: 5" (127 mm)
- **E** Swing clearance, rear of upperstructure: 10'0" (3.0)
- **F1** Top of cab guard to groundline (cab level): 11' 6" (3.5)
- F2 Top of cab guard to groundline (cab at full tilt): 12' 3" (3.7)
- FA Cab tilt: 25°
- G1 Clearance, upperstructure to groundline: 3' 9" (1.1)
- G2 Clearance, counterweight to groundline: 3' 11" (1.2)
- J1 Axis of rotation to centerline of drive sprockets: 6' 2" (1.9)

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

- J2 Nominal distance between centerlines of drive sprockets and idlers: 12' 6" (3.8)
- J3 Axis of rotation to end of track assembly: 7' 7" (2.3)
- J4 Nominal overall length of track assembly: 15' 3" (4.6)
- K1 Width of chassis, outside of tracks: 11' 1" (3.4)
- K2 Width of chassis, outside of steps: 12' 0" (4.1)
- N Ground clearance: 2' 3" (700 mm)
- V Track gauge, roller centerline to roller centerline: 8' 6" (2.6)
- Y Width of crawler track assembly: 31.5" (800 mm)
- AA Maximum radius at groundline: 48' 0" (14.6)
- **AB** Maximum depth: 12' 5" (3.8)
- AH Minimum radius at groundline: 33' 0" (10.1)
- AK Boom pivot to groundline: 7' 10" (2.4)
- **AL** Boom pivot to axis of rotation: 6" (140 mm)
- AP Scaling hook tooth radius: 4' 5" (1.3)

- AQ Boom pivot angle: 52° Up & 23° Down
- AS Attachment pivot angle: 114°
- **AU** Maximum telescoping boom length (boom pivot to attachment pivot): 44' 9" (13.6)
- AV Minimum telescoping boom length (boom pivot to attachment pivot): 31' 8" (9.6)
- AW Telescoping boom travel: 13' 1" (4.0)
- AX Boom tilt angle (continuous): 360°
- **BA** Maximum radius of working equipment: 48' 8" (14.8)
- **BB** Maximum height of working equipment: 48' 2" (14.7)
- **BD** Minimum clearance of scaling tooth, with attachment at maximum height: 43' 8" (13.3)
- **BE** Minimum clearance of scaling tooth at minimum boom height: 33' 6" (10.2)
- **BG** Maximum height of working equipment, with boom below groundline: 12' 10" (3.9)

Swing

- · Priority swing circuit with axial piston motor
- Planetary transmission

Swing speed: 7.0 rpm

Swing Brake

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

Weight

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

Pad Size	Weight	Bearing Pressure
31.5"	77,500 lbs	11.4 psi
800 mm	(35,153 kg)	(78.6 kPa)

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.

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Rated Boom Out: 27,357 lbs (122 kN)

Rated Ripper Tooth Force: 19,888 lbs (89 kN)

Boom Rotating Torque: 18,375 ft lb (24913 Nm)

Boom Rotating Speed: 5.3 rpm

Function Forces

Rated Boom In: 23,210 lbs (103 kN)