XL 7310 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: 90 gallons (341 L)

Operator Cab
- All-weather cab
- Tinted safety glass windows
- Acoustical lining
- Four-way adjustable seat
- AM/FM radio
- Filtered fresh air heater
- Air conditioner
- Front window has heat resistant glass
- Rearview mirror on left side
- Standard equipment includes operator's seat belt and swing lights
- Camera system with three external cameras

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

Three hydraulic motors
- Swing, 68 hp (51 kW)
- Tilt, 28 hp (21 kW)
- Propel motor, 113 hp (84 kW)

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)
- Braking & Steering......2,400 psi (165 BAR)

Oil Capacity
- Reservoir system 61 gallon (231 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

Hydraulic System

Pumps
- One load-sensing, axial piston pump; oil flow 0-110 gpm (0-416 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" (127 mm) ID, 3.0" (76 mm) rod, 25.9" (658 mm) stroke
- Two hoist: 4.25" (108 mm) ID, 3.0" (76 mm) rod, 53.43" (1357 mm) stroke
- One telescope: 5.0" (127 mm) ID, 3.25" (83 mm) rod, 13.6" (349 mm) stroke
- Two single-acting axle oscillation cylinders: 4.528" ID, 4.528" rod (115 mm x 115 mm), 6.25" (159 mm) stroke

Boom
- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 360° continuous boom tilt
- 75° boom pivot angle
- Auxiliary hydraulics

Undercarriage
- Full-time 4 x 4 drive with 2-speed Powershift transmission
- Rigid mount rear axle
- Oscillating front steer axle with automatic lock-out cylinders
- Four-wheel enclosed sealed wet-disc brakes
- Access ladders on both sides and both ends of machine
- Locking toolboxes on each side

Maximum Travel Speed: 11 mph (17.7 kph)

Minimum Turning Radius: 38 ft (11.6 m)

Tires: 16.00 x 25 (28 ply)
**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): 13'8" (4.2)
- **C1** Width of upperstructure: 13'4" (4.1)
- **E** Swing clearance, rear of upperstructure: 10'0" (3.0)
- **F1** Top of cab guard to groundline (cab level): 13'2" (4.0)
- **F2** Top of cab guard to groundline (cab at full tilt): 13'6" (4.1)
- **FA** Cab tilt: 25°
- **G1** Clearance, upperrstructure to groundline: 5'2" (1.6)
- **G2** Clearance, counterweight to groundline: 5'4" (1.6)
- **J2** Nominal distance between centerlines of front and rear axles: 12'6" (3.8)
- **K1** Width of chassis, toolboxes in inner position: 13'1" (4.0)
- **K2** Width of chassis, toolboxes in outer position: 13'6" (4.1)
- **N** Ground clearance: 14" (0.4)
- **V** Wheel centerline to wheel centerline: 117" (3.5)
- **AA** Maximum radius at groundline: 45'5" (13.8)
- **AB** Maximum depth: 11'0" (3.4)
- **AH** Minimum radius at groundline: 30'4" (9.2)
- **AK** Boom pivot to groundline: 9'4" (2.8)
- **AP** Scaling hook tooth radius: 4'5" (1.3)
- **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: 131° (4.0)
- **AX** Boom tilt angle: 360° continuous
- **BA** Maximum radius of working equipment: 48'8" (14.8)
- **BB** Maximum height of working equipment: 49'9" (15.1)
- **BD** Minimum clearance of scaling tooth, with attachment pivot at maximum height: 452" (13.8)
- **BE** Minimum clearance of scaling tooth at maximum boom height: 350" (10.7)
- **BG** Maximum height of working equipment with boom below groundline: 144" (4.4)

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

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**Weight**

- Approximate working weight: 77,500 lbs (35,153 kg)

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**Function Forces**

- Rated Boom In: 23,210 lbs (103 kN)
- Rated Boom Out: 27,357 lbs (122 kN)
- Rated Ripper: 19,888 lbs (89 kN)
- Boom Rotating Torque: 18,375 ft lbs (24,913 Nm)
- Boom Rotating Speed: 5.3 rpm