

XL 7320 V

MINE SCALER MACHINE



Engine

- Volvo TAD572 VE, Tier 4f, MSHA Certified 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: 215 hp @ 2200 rpm (160kW) 671 ft lb Torque @ 1100-1500 rpm (910Nm)

Net Rating: 195 hp @ 2200 rpm (145kW)

- · Variable viscous fan clutch system
- · Vertical stacked hydraulic oil cooler, charge air cooler and radiator

Maximum slope: 30°

- 24 volt starter
- 100 amp alternator
- Two SAE #C31-S 1000 CCA batteries
- Two-stage air cleaner with high-efficiency pre-cleaner, vacuator valve and remote service indicator

Fuel tank capacity: 90 gallon (341 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 slides to overhead position
- · Rearview mirror on left side
- · Seat belt
- · Swing lights
- · Cab tilt angle is infinitely adjustable from level to 23° upward
- · Pressure cab with Heppa Filter
- · Cab cage with protective rock guard
- 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
- Jovsticks are self-centering: when controls are released, power for movement disengages and swing and tilt brake set automatically
- · Tilting/telescoping steering column
- · Hydraulic foot pedal controls braking functions
- Travel speed is regulated with an electronic foot pedal control
- Switch on the FWD/REV selector provides 1st/2nd gear selection
- · Independent rocker switches control park brake and travel alarm mode

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 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
- 270° boom tilt
- 74° boom pivot angle

Hydraulic System

- · 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" ID, 3.0" rod, (127 mm x 76 mm) 25.9" (658 mm) stroke
- Two hoist cylinders: 4.25" ID, 3.0" rod, (108 mm x 76 mm) 53.43" (1357 mm) stroke
- One telescope: 4.5" ID. 3.25" rod. (114 mm x 83 mm) 13'6" (3.94 m) stroke
- Two single-acting axle oscillation cylinders: 4.528" ID, 4.528" rod (115 mm x 115 mm), 6.25" (159 mm) stroke

Three hydraulic motors

- Swing, 68 hp (51 kW)
- Tilt, 28 hp (21 kW)
- Propel, 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)

Oil Capacity

- Reservoir system 61 gallon (231 L)
- · Pressurized reservoir with visual oil level gauges

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

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

Undercarriage

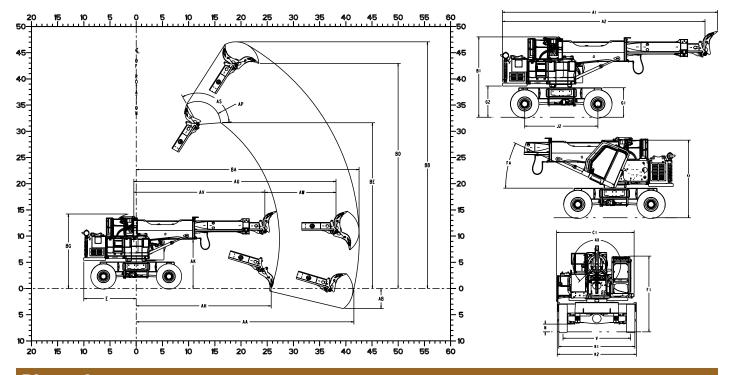
- Full-time 4 x 4 drive with 2-speed Powershift transmission
- · Rigid mount rear axle
- Oscillating front steer axle with automatic lock-out cylinders
- · Four-wheel enclosed sealed wet-disc brakes
- · Access ladders on both sides and both ends of machine
- · Locking toolboxes on each side

Maximum Travel Speed: 11 mph (17.7 kph)

Maximum Gradeability: 47%

Min. Turning Radius (curb-curb): 38 ft (11.6 m)

Tires: 16.00 x 25 (28 ply)



Dimensions

	42" Boom	52" Boom			42" Boom	52" Boom	
A 1	36' 9" (11.2)	43' 0" (13.1)	Overall length (boom level)	AA	41' 6" (12.7)	47' 10" (14.6)	Maximum radius at groundline
			with scaling hook	AB	3' 10" (1.2)	6' 2" (1.9)	Maximum depth
A2	34' 7" (10.5)	40' 10" (12.4)	Overall length (boom level)	ΑH	26' 3" (8.0)	32' 2" (9.8)	Minimum radius at groundline
			without scaling hook	AK	9' 4" (2.8)	9' 4" (2.8)	Boom pivot to groundline
B1	13' 8" (4.2)	13' 8" (4.2)	Overall height (boom level)	ΑP	4' 5" (1.3)	4' 5" (1.3)	Scaling hook tooth radius
C1	13' 4" (4.1)	13' 4" (4.1)	Width of upperstructure	AS	114°	114°	Attachment pivot angle
Ε	10' 0" (3.0)	10' 0" (3.0)	Swing clearance, rear of upperstructure	AU	38' 7" (11.8)	44' 9" (13.6)	Maximum telescoping boom length
F1	13' 2" (4.0)	13' 2" (4.0)	Top of cab guard to groundline (cab level)		, ,,	, , ,	(boom pivot to attachment pivot)
F2	13' 6" (4.1)	13' 6" (4.1)	Top of cab guard to groundline (cab at full tilt)	AV	25' 0" (7.6)	31' 3" (9.5)	Minimum telescoping boom length (boom pivot to attachment pivot)
FA	25°	25°	Cab tilt	AW	13' 6" (4.1)	13' 6" (4.1)	Telescoping boom travel
G1	5' 2" (1.6)	5' 2" (1.6)	Clearance, upperstructure to groundline	ΑX	270°	270°	Standard boom tilt angle
G2	5' 4" (1.6)	5' 4" (1.6)	Clearance, counterweight to groundline	BA	42' 6" (13.0)	48' 9" (14.9)	Maximum radius of working equipment
J2	12' 6" (3.8)	12' 6" (3.8)	Nominal distance between centerlines of	ВВ	47' 1" (14.3)	52' 3" (15.9)	Maximum height of working equipment
			front and rear axles	BD	43' 0" (13.1)	48' 2" (14.7)	Minimum clearance of scaling hook, with
K1	13' 1" (4.0)	13' 1" (4.0)	Width of chassis, tool boxes in				attachment pivot at maximum height
			inner position	BE	31' 8" (9.6)	36' 10" (11.2)	Minimum clearance of scaling hook at
K2	13' 6" (4.1)	13' 6" (4.1)	Width of chassis, tool boxes in				maximum boom height
			outer position	BG	14' 3" (4.3)	14' 3" (4.3)	Maximum height of working equipment
N	1' 4" (0.4)	1' 4" (0.4)	Ground clearance				with boom below groundline

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 noticeal equipment.

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Swing

- Priority swing circuit with axial piston motor
- Planetary transmission

Swing Speed:

Swing Brake

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

Function Forces

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

Weight

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

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