## Engine
- **Volvo TAD551 VE, Tier III (optional 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)

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## Boom
- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 220° continuous boom tilt
- 105° boom pivot angle
- Auxiliary hydraulics

### Systems

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

#### Control System
- 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

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## 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)

### 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

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## Specifications

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## 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 storage
- Rearview mirrors on right and left sides
- Swing lights
- Non tinted sky light
- Windshield wiper and washer

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## Controls
- Two electronic joysticks (hoist and bucket, telescope and swing)
- One rocker switch (tlt) control
- Joysticks mounted on arm pods
- Quick change joystick pattern switch located on instrument panel

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## Fuel tank capacity:
82 gallons (310 L)
Dimensions

A Overall length with attachment open: 25'11" (7.9)
A1 Overall length without attachment: 23'10" (7.3)
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: 8'0" (2.4)
F Top of cab guard to groundline: 10'5" (3.2)
G Clearance, upperstructure to groundline: 3'5" (1.0)
J1 Axis of rotation to centerline of drive sprockets: 51" (1.7)
J2 Nominal distance between centerlines of drive sprockets and idlers: 110" (3.4)
J3 Axis of rotation to end of track assembly: 6'10" (2.1)
J4 Nominal overall length of track assembly: 138" (4.2)
K Width of crawler (standard): 10'6" (3.2)
K1 Width of crawler (optional): 9'10" (3.0)

N Ground clearance (per SAE J1234): 18" (454 mm)
V Track gauge, roller centerline to roller centerline: 710" (2.4)
Y Width of crawler track assembly (standard): 31.5" (800 mm)
Y1 Width of crawler track assembly (optional): 22" (600 mm)
AA Maximum radius at groundline (Scaling Hook): 31.5" (800 mm)
AH Minimum radius at groundline: 12.7" (3.8)
AK Boom pivot to groundline: 5.8" (1.7)
AL Boom pivot to axis of rotation: 11.1" (285 mm)
AP Attachment tooth radius (Scaling Hook): 31.0" (800 mm)
AP1 Attachment bit radius (S-29 Hammer): 7.0" (1.8)

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

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>
</tr>
</thead>
<tbody>
<tr>
<td>31.5&quot; 800 mm</td>
<td>48,862 lbs (22,163 kg)</td>
<td>58 psi (40.2 kPa)</td>
</tr>
</tbody>
</table>

Function Forces

Rated Boom Force: 22,075 lbs (98.2 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

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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