### SPECIFICATIONS

#### 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)

- Variable viscous fan clutch system
- Vacuator valve and service indicator
- Two-stage dry type air cleaner with centrifugal pre-cleaner and safety element
- Two SAE #C31-S 1000 CCA batteries
- 100 amp alternator
- Vertical stacked hydraulic oil cooler, charge air cooler and radiator

**Fuel tank capacity:** 82 gallons (310 L)

**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 cleaner element
- Vacuator valve and service indicator

#### 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
- Seat belt
- 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
- Joysticks 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 FW/REV selector provides 1st/2nd gear selection
- Independent rocker switches control stabilizers, axle oscillation, park brake and hazard lights

**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

#### Hydraulic System

**Pumps**
- One load-sensing, axial piston pump; oil flow 0-110 gpm (0-435 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

**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)
- Braking & Steering........2,400 psi (165 BAR)
- Blade & Stabilizers...........4,000 psi (280 BAR)

**Filtration System**
- Reservoir system 65 gallons (246 L)
- Pressurized reservoir with visual oil level gauges

**Undercarriage**
- Both axles are equipped with internal wet-disc type service brakes
- The steering axle is fitted with oscillation lock cylinders

**Tires:**
- 10 x 20 Super-Lug

**Axles:**
- ZF Model 3070 (FTF 2090)

**Transmission:**
- ZF Model HL 290

**Drive Motor:**
- Rexroth A6 Series, 160cc/Rev

**Minimum Turning Radius:**
- 25'5" (7.75 m)
- Variable displacement high torque piston motor powers the 2-speed power shift transmission
- Speed mode selection can also be done while moving
- Electronically operated travel alarm signals excavator movement

**Travel speed on flat surface - MPH (kmh):**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Creeper Mode</th>
<th>Standard Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Gear</td>
<td>18 mph (29 kmh)</td>
<td>5.7 mph (9.2 kmh)</td>
</tr>
<tr>
<td>Second Gear</td>
<td>6.3 mph (10.1 kmh)</td>
<td>12 mph (19.3 kmh)</td>
</tr>
</tbody>
</table>
**Dimensions**

A Overall length with attachment open
   (Travel Position): 28'4" (8.6)
A1 Overall length without attachment
   (Travel Position): 26'3" (8.0)
B Overall height with attachment open
   (Travel Position): 11'6" (3.5)
B1 Overall height without attachment
   (Travel Position): 11'2" (3.4)
C1 Width of upperstructure: 9'0" (2.7)
D Minimum clearance, upperstructure to
   undercarriage: 3" (78 mm)
E Swing clearance, rear of upperstructure: 8'6" (2.6)
F Top of cab guard to groundline: 11'1" (3.4)
G Clearance, upperstructure to groundline: 4'2" (1.3)
H1 Height of optional folding lift yoke lowered: 19' (0.5)
H2 Height of pin of optional folding lift yoke: 3'7" (1.1)
H3 Overall height of optional folding lift yoke: 40" (1.2)
H4 Height of 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: 3'6" (1.1)
J2 Wheelbase of undercarriage: 8'9" (2.7)
J3 Axis of rotation to front of undercarriage: 7'0" (2.1)

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 36" (914 mm) excavating bucket, fuel tank half full
  - 55,926 lbs (25,368 kg)
- Outriggers: 2,720 lbs (1,234 kg)
- Blade: 1,529 lbs (671 kg)