**Engine**
- Volvo TAD571 VE, Tier 4f, 4 cycle, inline 4 cylinder, liquid cooled, electronic controlled
- Vertical canister style lube filter attached to engine
- Vertical canister style main fuel filter and fuel/water separation with manual feed pump attached to engine
- Water in fuel indicator and alarm

**Gross Rating:** 172 hp @ 2000 rpm (128 kW)

**Net Rating:** 152 hp @ 2000 rpm (113 kW)

**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, vacuumator valve and remote service indicator.

**Fuel tank capacity:** 99 gallons (375 L)

**Operator Cab**
- All-weather cab with tinted safety glass windows
- Skylight
- Acoustical lining
- Four-way adjustable operator’s seat
- Seat belt
- AM/FM radio
- Filtered fresh air heater
- Defroster and A/C
- Front window slides to overhead storage
- Rearview mirrors on right and left sides
- Windshield wiper and washer
- LED swing lights
- LED work lights

**Controls**
- Two electronic joysticks (hoist and bucket, telescope and swing)
- One rocker switch (tilt) control upperstructure
- 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
- Two electric foot pedals (with handles) control crawler travel speed and direction, crawler steering and crawler brakes
- 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
- 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
- 220° boom tilt
- 105° boom pivot angle
- Auxiliary Hydraulics

**System Monitor**
- Electronic monitor in cab indicates
  - Low hydraulic fluid level
  - High hydraulic fluid temperature
  - System working pressure
  - System pilot pressure

**System Specifications**

**Four Cylinders**
- One tool: 4.25" ID, 3.0" rod (108 mm x 76 mm), 25.9" (658 mm) stroke
- Two hoist: 3.50" ID, 2.559" rod (89 mm x 65 mm), 31.0" (787 mm) stroke
- One telescope: 3.5" ID, 2.559" rod (89 mm x 65 mm), 11' (3.35 m) stroke

**Four Hydraulic Motors**
- Swing, 51 hp (38 kW)
- Tilt, 21 hp (16 kW)
- Two propel motors, 120 hp (89 kW) each

**Operating Pressures:**
- Hoist.......................4,900 psi (331 BAR)
- Tilt..........................2,500 psi (172 BAR)
- Swing.......................3,000 psi (207 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)

**Oil Capacity**
- Reservoir system 65 gal (246 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
- Three-stage planetary drive with integral speed limiting valve and automatic spring-set/hydraulic release wet disc parking brake

### Swing
- Priority swing circuit with axial piston motor
- Planetary transmission

**Swing speed:** 8.0 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:** 22,075 lbs (98.2 kN)

**Rated Bucket Breakout Force:** 19,300 lb (86 kN)

<table>
<thead>
<tr>
<th>Pad Size</th>
<th>Weight</th>
<th>Bearing Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.6&quot; 600 mm</td>
<td>39,240 lb (17,799 kg)</td>
<td>75 psi (51.7 kPa)</td>
</tr>
<tr>
<td>19.7&quot; 500 mm</td>
<td>38,775 lb (17,588 kg)</td>
<td>8.9 psi (61.4 kPa)</td>
</tr>
</tbody>
</table>

### Weight
- Approximate working weight with 36" (914 mm) excavating bucket, fuel tank half full and no operator

### Gradeability:
- 58%, limited by engine lubrication requirements

### Drawbar Pull
- 38,324 lb (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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**GRADALL Model XL 3200 V Excavator Lift Capacity: LB (KG)**

<table>
<thead>
<tr>
<th>LOAD POINT HEIGHT</th>
<th>LOAD RADIUS</th>
<th>Maximum Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over End</td>
<td>Over Side</td>
</tr>
<tr>
<td>15' 0&quot; (4.6 m)</td>
<td>6,420 lb (2910 kg)</td>
<td>6,420 lb (2910 kg)</td>
</tr>
<tr>
<td>10' 0&quot; (3.0 m)</td>
<td>7,725 lb (3,505 kg)</td>
<td>7,725 lb (3,505 kg)</td>
</tr>
<tr>
<td>5' 0&quot; (1.5 m)</td>
<td>8,200 lb (3,720 kg)</td>
<td>8,200 lb (3,720 kg)</td>
</tr>
<tr>
<td>BOOM LEVEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7' 9&quot; (2.4 m)</td>
<td>8,095 lb (3,670 kg)</td>
<td>8,095 lb (3,670 kg)</td>
</tr>
<tr>
<td>5' 0&quot; (1.5 m)</td>
<td>7,350 lb (3,335 kg)</td>
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</tr>
</tbody>
</table>

**At Ground Level**

<table>
<thead>
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</thead>
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<tr>
<td></td>
<td>Over End</td>
<td>Over Side</td>
</tr>
<tr>
<td>5' 0&quot; (1.5 m)</td>
<td>6,750 lb (3,060 kg)</td>
<td>6,750 lb (3,060 kg)</td>
</tr>
<tr>
<td>10' 0&quot; (3.0 m)</td>
<td>4,145 lb (1,880 kg)</td>
<td>4,145 lb (1,880 kg)</td>
</tr>
</tbody>
</table>

**NOTE:** The above loads are in compliance with the SAE standard J1097 DEC2005. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

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The rated lift capacity is based on the machine being equipped with 6,000 lb (2724 kg) counterweight, standard boom, standard tires, no auxiliary hydraulics and no bucket.

**NOTE:** Bucket adjustment values are 87% of the actual bucket weights.

The load point is located on the bucket pivot point, including loads listed for maximum radius.

Do not attempt to lift or hold any load greater than these rated values at specified load radii and heights. The weight of slings and any auxiliary devices must be deducted from the rated load to determine the net load that may be lifted.

**ATTENTION:** All rated loads are based on the machine being stationary and level on a firm supporting surface. The user must make allowance for particular job conditions such as soft or uneven ground, out of level conditions, side loads, hazardous conditions, experience of personnel, etc. The operator and other personnel must read and understand the operator manual before operating this machine. Rules for safe operation of equipment must be adhered to at all times.

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**Pad Size | Weight | Bearing Pressure**
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<tr>
<td>19.7&quot;, 500 mm</td>
<td>38,775 lb (17,588 kg)</td>
<td>8.9 psi (61.4 kPa)</td>
</tr>
</tbody>
</table>
Dimensions

A Overall length with bucket: 24'6" (7.5)
A1 Overall length without bucket: 21'3" (6.5)
B Overall height with bucket: 10'9" (3.3)
B1 Overall height without bucket: 10'1" (3.1)
C1 Width of upperstructure: 8'6" (2.6)
D Minimum clearance, upperstructure to undercarriage: 5' (130 mm)
E Swing clearance, rear of upperstructure: 7'6" (2.3)
F Top of cab to groundline: 9'10" (3.0)
G Clearance, upperstructure to groundline: 3'5" (1.0)
J1 Axis of rotation to centerline of drive sprockets: 4'7" (1.4)
J2 Nominal distance between centerlines of drive sprockets and idlers: 9'2" (2.8)
J3 Axis of rotation to end of track assembly: 5'10" (1.8)
J4 Nominal overall length of track assembly: 11'9" (3.6)
K Width of crawler (Standard): 8'6" (2.6)
L Width of crawler (Optional): 8'2" (2.5)
N Ground clearance (per SAE J1234): 18" (454 mm)
V Track gauge, roller centerline to roller centerline: 6'6" (2.0)
Y Width of crawler track assembly (Standard): 23.6" (600 mm)
Z Width of crawler track assembly (Optional): 19.7" (500 mm)
AA Maximum radius at groundline (165° pivot): 27'5" (8.4)
AB Maximum digging depth (165° pivot): 27'5" (8.4)
AC Maximum depth for 8' level cut: 17'3" (5.3)
AD Minimum radius for 8' level cut at depth "AC": 6'5" (2.0)
AF Maximum depth of vertical wall which can be excavated: 2'11" (0.9)
AG Minimum level cut radius with bucket flat on groundline: 11'2" (3.4)
AH Minimum radius at groundline: 7'0" (2.1)

AK Boom pivot to groundline: 5'8" (1.7)
AL Boom pivot to axis of rotation: 11'1" (3.4)
AP Bucket tooth radius: 3'10" (1.2)
AQ Boom pivot angle: 30° Up and 75° Down
AS Bucket pivot angle: 165°
AU Maximum telescoping boom length (boom pivot to bucket pivot): 22'3" (6.8)
AV Minimum telescoping boom length (boom pivot to bucket pivot): 11'3" (3.4)
AW Telescoping boom travel: 110° (3.4)
AX Bucket tilt angle (both sides of center): 110°
BA Maximum radius of working equipment (165° pivot): 28'0" (8.5)
BB Maximum height of working equipment: 21'11" (6.7)
BC Maximum bucket tooth height: 20'1" (6.1)
BD Minimum clearance of bucket teeth with bucket pivot at maximum height: 14'9" (4.5)
BE Minimum clearance of fully curled bucket at maximum boom height (165° pivot): 9'8" (2.9)
BF Minimum clearance of bucket teeth at maximum boom height: 9'3" (2.8)
BG Maximum height of working equipment with bucket below groundline: 140° (4.3)
BH Radius of bucket teeth at maximum height (165° pivot): 239° (7.2)
BJ Minimum radius of bucket teeth at maximum bucket pivot height (165° pivot): 171° (5.2)

Transport dimensions without attachment
Length: 21'3" (6.5)
Height: 10'1" (3.1)
Width: 8'6" (2.6)

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

- Vandalism protection kit including window covers
- Strobe light

### Attachments

- Quick change and reversible buckets fabricated using steel plate with high strength, low alloy cutting edges and wear strips
- Standard attachments available for wide range of applications
- Capacities shown are in heaped cubic yard

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#### Excavating Bucket

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8045-6020</td>
<td>24&quot; (610mm)</td>
<td>3/8</td>
<td>0.31</td>
<td>603 lbs (274 kg)</td>
</tr>
<tr>
<td>8045-6021</td>
<td>30&quot; (762mm)</td>
<td>1/2</td>
<td>0.41</td>
<td>660 lbs (300 kg)</td>
</tr>
<tr>
<td>8045-6022</td>
<td>36&quot; (914mm)</td>
<td>5/8</td>
<td>0.54</td>
<td>741 lbs (336 kg)</td>
</tr>
<tr>
<td>8045-6023</td>
<td>42&quot; (107cm)</td>
<td>3/4</td>
<td>0.64</td>
<td>841 lbs (382 kg)</td>
</tr>
<tr>
<td>8045-6024</td>
<td>48&quot; (1.22 m)</td>
<td>1</td>
<td>0.76</td>
<td>957 lbs (435 kg)</td>
</tr>
<tr>
<td>8065-6117</td>
<td>48&quot; (1.1m)</td>
<td>1 1/2</td>
<td>1.15</td>
<td>959 lbs (435 kg)</td>
</tr>
</tbody>
</table>

#### Trenching Bucket

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8065-6104</td>
<td>15&quot; (381mm)</td>
<td>1/5</td>
<td>0.15</td>
<td>897 lbs (407 kg)</td>
</tr>
<tr>
<td>8065-6012</td>
<td>21&quot; (533mm)</td>
<td>1/4</td>
<td>0.19</td>
<td>982 lbs (445 kg)</td>
</tr>
</tbody>
</table>

#### Pavement Removal Bucket

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8065-6102</td>
<td>40&quot; (1.0 m)</td>
<td>1262 lbs (573 kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8065-6115</td>
<td>18&quot; (0.457 m)</td>
<td>929 lbs (421 kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8065-6116</td>
<td>24&quot; (0.610 m)</td>
<td>1219 lbs (553 kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8065-6114</td>
<td>28&quot; (0.711 m)</td>
<td>1310 lbs (594 kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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#### Ditching Bucket

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8065-6040</td>
<td>30&quot; (0.762 m)</td>
<td>3/8</td>
<td>0.31</td>
<td>521 lbs (236 kg)</td>
</tr>
<tr>
<td>8065-6007</td>
<td>60&quot; (1.52m)</td>
<td>7/8</td>
<td>0.73</td>
<td>807 lbs (366 kg)</td>
</tr>
<tr>
<td>8065-6006</td>
<td>66&quot; (1.68m)</td>
<td>1</td>
<td>0.76</td>
<td>892 lbs (405 kg)</td>
</tr>
<tr>
<td>8065-6002</td>
<td>72&quot; (1.83 m)</td>
<td>1 1/8</td>
<td>1.07</td>
<td>944 lbs (428 kg)</td>
</tr>
<tr>
<td>8065-6118</td>
<td>72&quot; (1.83m)</td>
<td>1 3/5</td>
<td>1.22</td>
<td>1148 lbs (521 kg)</td>
</tr>
</tbody>
</table>

#### Dredging Bucket

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8065-6013</td>
<td>72&quot; (1.83m)</td>
<td>1 1/8</td>
<td>1.07</td>
<td>1114 lbs (505 kg)</td>
</tr>
</tbody>
</table>

#### Grading Blade

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8065-6024</td>
<td>8&quot; (2.4 m)</td>
<td>1</td>
<td>0.76</td>
<td>630 lbs (285 kg)</td>
</tr>
</tbody>
</table>

#### Boom Extension

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8065-5028</td>
<td>4’ (1.2 m)</td>
<td>1090 lbs (495 kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Tree Limb Shear

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (Inches)</th>
<th>Material</th>
<th>Capacity (yd³)</th>
<th>Weight (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8045-5052</td>
<td>28&quot; (0.711 m)</td>
<td>1310 lbs (594 kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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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.