**Machine Applications**

- The sturdy design of the 655D makes it the perfect machine for large volume earthmoving applications.
- In heavy feeding and coal loading applications the 655D is made to move faster and burn less fuel.
- Multiple work tools are available for increased versatility.

**Main Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>SEM655D</th>
<th>Item</th>
<th>SEM655D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Load</td>
<td>5,000</td>
<td>Engine</td>
<td>Weichai WD10G</td>
</tr>
<tr>
<td>Operating Weight with Standard Bucket</td>
<td>16,800</td>
<td>Rated Speed</td>
<td>2,000 r/min</td>
</tr>
<tr>
<td>Breakout Force</td>
<td>3,200</td>
<td>Displacement</td>
<td>9.726 L</td>
</tr>
<tr>
<td>Dump Clearance</td>
<td>2.7-4.5</td>
<td>System Pressure Setting</td>
<td>17 Mpa</td>
</tr>
<tr>
<td>Articulated Angle</td>
<td>±11°</td>
<td>Steering System</td>
<td>15°</td>
</tr>
<tr>
<td>Transmission Type</td>
<td>Countershaft, power shift</td>
<td>Service Brake</td>
<td>23.5-25</td>
</tr>
<tr>
<td>Transmission Gear</td>
<td>16/16</td>
<td>Parking Brake</td>
<td>Bias</td>
</tr>
<tr>
<td>Torque Converter Type</td>
<td>Twin pump</td>
<td>Gear pump</td>
<td>16</td>
</tr>
<tr>
<td>Forward I/Reverse I</td>
<td>7.8/7.8</td>
<td>Flow amplifying</td>
<td>38±1</td>
</tr>
<tr>
<td>Forward II/Reverse II</td>
<td>15/15</td>
<td>Gear pump</td>
<td>22/22</td>
</tr>
<tr>
<td>Forward III/Reverse III</td>
<td>22/22</td>
<td>Flow amplifying</td>
<td>39/39</td>
</tr>
<tr>
<td>Axle</td>
<td>Single stage</td>
<td>Planetary</td>
<td>±11</td>
</tr>
<tr>
<td>Main Drive Type</td>
<td>Spiral bevel</td>
<td>Planetary</td>
<td>7.8/7.8</td>
</tr>
<tr>
<td>Final Drive Reduction Type</td>
<td>L3/E3</td>
<td>Planetary</td>
<td>15/15</td>
</tr>
<tr>
<td>Tires</td>
<td>23.5/25</td>
<td>System Pressure Setting</td>
<td>17 Mpa</td>
</tr>
<tr>
<td>Tires</td>
<td>23.5/25</td>
<td>Service Brake</td>
<td>23.5-25</td>
</tr>
<tr>
<td>Main Drive Type</td>
<td>Single lever, single stage Type</td>
<td>Backward</td>
<td>16</td>
</tr>
<tr>
<td>Final Drive Wheel Type</td>
<td>Planetary, type angle</td>
<td>Large</td>
<td>55</td>
</tr>
<tr>
<td>Rear - Controlling Type</td>
<td>A1</td>
<td>Textured Type</td>
<td>16/16</td>
</tr>
</tbody>
</table>

**Machine Dimensions**

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**Product Advantage**

- High Productivity
- Best-in-class Reliability and Durability
- Excellent Fuel Economy
- Outstanding Operator Comfort

**Website**

http://www.semmachinery.com
Twin pump flow merging hydraulic system increases machine efficiency
The optimized hydraulic system paired with the drive train reduces machine cycle time and increases productivity
Joystick hydraulic control for easy and precise operation

Premium operator station with big space and superior visibility
Patented MAC mount provides less noise and increased comfort
Adjustable suspension seat
Sliding side window and AC with fresh air circulation provide operator comfort
Single lever shifting is flexible and convenient
Adjustable air flow outlet delivers better defrost performance

Countschaft transmission with upgraded core components provides high reliability
Large reverse in 1st gear and higher speed in 2nd gear provide high efficiency for load and carry applications
Clutch cutoff selection switch ensures stable and safe operation
Torque converter structure is simple and efficiency is high
The SEM designed and built axle provides best in class performance in heavy duty applications

The standard cooling package provides high reliability in 50°C ambient conditions.
Shock pad mounts ensure reliability under severe applications

Structures undergo Finite Element Analysis (FEA) and On Machine Stress Analysis (OMSA) to ensure durability
Performance Series (PS) buckets improve loading capability

System pressure test ports are standard
Big angle engine hood side open door provides easy service access
Torque converter is isolated from transmission making it easy to service

Safety design complies with all regulatory requirements
Caterpillar Production System (CPS) leveraged in manufacturing process
3-point touching design provides convenient operator entering to cabin
Backup alarm ensures machine safety
Environmentally friendly painting process

Low speed engine with E-fan provides increased operating efficiency
Enhanced fuel pre-filter eliminates water and contaminant from fuel for best fuel system protection
The air cleaner provides machine reliability even in the most severe applications

Efficient Hydraulic System
Reliable Drivetrain
Advanced Cooling System
Solid Structure
Operator Station
Serviceability
Safety