The sturdy design of the 655D makes it the perfect machine for large volume earthmoving applications. In hopper feeding and coal loading applications the 655D can load more, move faster and burn less fuel. Multiple work tools are available for increased versatility.

**SEM655D Wheel Loader**

- Installed with Weichai Engine
- Featured machines in photos may include optional equipment

**Product Advantage**
- High Productivity
- Better Reliability and Durability
- Standard Hardened Axles
- Outstanding Operator Comfort

**Main Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>SEM655D</th>
<th>Item</th>
<th>SEM655D</th>
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<tr>
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<td>Forward III/ Reverse III</td>
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<td>Boom Raise Time</td>
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<td>Steering Angle</td>
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<tr>
<td>Size</td>
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<td>Type</td>
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</tbody>
</table>

**Machine Dimensions**

**Work Tool Options**

- Log Gripper
- Material Handling Arm
- Marble Fork
- QC Rock Bucket
- GP Bucket
- Side Dump Bucket
- Quick Coupler Arrangement

**Log Gripper (Corresponding Teeth)**

**Note:** The above dimensions are based on the standard configuration.
### Main Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>SEM655D</th>
<th>Item</th>
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<tbody>
<tr>
<td>Rated Load</td>
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<td>Operating Weight with Standard Bucket</td>
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<td>Textured Type</td>
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<td>Hydraulic Cycle Time</td>
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<td>System Pressure Setting</td>
<td>38±1</td>
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<td>Steering Angle (L/R)</td>
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<td>Radial type</td>
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<td>168</td>
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</table>

### Work Tool Options

- Log Gripper
- Material Handling Arm
- Log Gripper (Upper Teeth Combined)
- QC Rock Bucket
- Rock Bucket
- Side Dump Bucket
- Quick Coupler Arrangement

**Note:** The above dimensions are based on the standard configuration.

### Machine Applications
- The sturdy design of the 655D makes it the perfect machine for large volume earthmoving applications
- In Hopper feeding and Coal loading applications the 655D can load more, move faster and burn less fuel
- Multiple work tools are available for increased versatility

### SEM655D Wheel Loader
- Engine: Weichai WD10G
- Power: Weichai WD10G
- Torque: Countershaft, power shift
- Transmission Type: F4/R4
- Transmission Gears: 7.8/7.8
- Torque Converter Type: Twin pump flow merging hydraulic system
- Maker & Type: SEM TR200
- Forward I/ Reverse I: 15/15
- Forward II/ Reverse II: 22/22
- Forward III/ Reverse III: 39/39
- Axle: L3/E3
- Main Drive Type: Planetary type, single stage
- Final Drive Reduction Type: Planetary type, single stage
- System Type: Planetary type
- System Pressure Setting: 168
- Steering Angle (L/R): 54°
- Tire Size: 23.5-25
- Tire Type: Radial type
- Radial type: 16
- System Pressure Setting: 168
- System Pressure Setting: 168
- Steering Angle (L/R): 54°
- Tire Size: 23.5-25
- Tire Type: Radial type
- Radial type: 16

### Main Specifications

- Rated Load: 5.000 kg
- Operating Weight with Standard Bucket: 16 800 kg
- Breakout Capacity: 21.5±1 kN
- Wheel Base: 3 200 mm
- Overall Dimension: 3 290 mm
- Articulated Angle: 38±1°
- Wheel Base: 3 200 mm
- Overall Height: 4 53 mm
- Overall Width: 4 53 mm
- Overall Depth: 4 53 mm
- Tires: 23.5-25
- Size: 16
- Type: 39/39
- Layer: 16
- Textured Type: 16/16

### Website
http://www.semmachinery.com
SEM655D Wheel Loader

* Installed with Weichai Engine
※ Featured machines in photos may include optional equipment

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

Machine Applications
- The sturdy design of the SEM655D makes it the perfect machine for large volume earthmoving applications
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- Log Gripper
- Log Gripper (Upper Teeth Combined)
- QC Rock Bucket
- Rock Bucket
- Side Dump Bucket
- Quick Coupler Arrangement

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- Note: The above dimensions are based on the standard configuration.

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<tr>
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<th>Item</th>
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<td>Rated Load</td>
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<td>Weichai WD10G</td>
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Website: http://www.semmachinery.com

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Version: February 2017 - Weichai
Weichai Engine

- Low speed engine with E-fan provides increased operating efficiency
- Efficient Hydraulic System

- 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

Reliable Drivetrain

- Countershaft transmission with upgraded core components provides high reliability
- Large drawbar pull 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

Advanced Cooling System

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

Solid Structure

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

Efficient Hydraulic System

- The optimized hydraulic system paired with the drive train reduces machine cycle time and increases productivity
- Joystick hydraulic control for easy and precise operation

Operator Station

- 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

Serviceability

- 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

- 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

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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
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

Countershaft transmission with upgraded core components provides high reliability

Large drawbar 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℃ 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

Efficient Hydraulic System

Operator Station

Reliable Drivetrain

Advanced Cooling System

Solid Structure

Serviceability

Safety
Weichai Engine
- 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
- 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

Operator Station
- 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

Reliable Drivetrain
- Countershaft transmission with upgraded core components provides high reliability
- Large drawbar 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

Advanced Cooling System
- The standard cooling package provides high reliability in 50℃ ambient conditions.
- Shock pad mounts ensure reliability under severe applications

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

Serviceability
- 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

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- 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

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

Countershaft transmission with upgraded core components provides high reliability
Large drawbar 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℃ 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

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