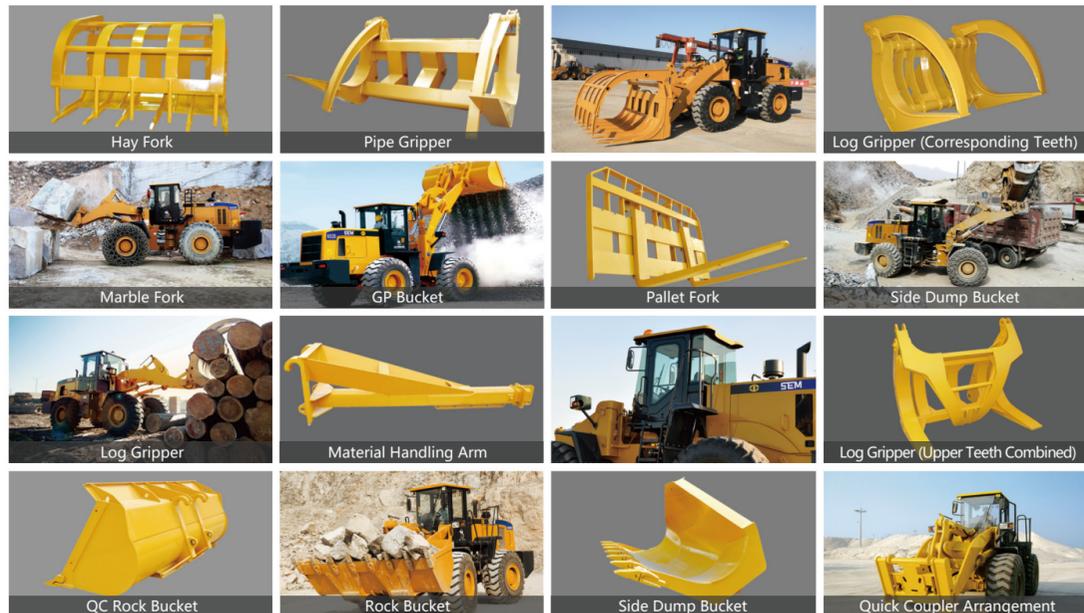


Machine Applications

- 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



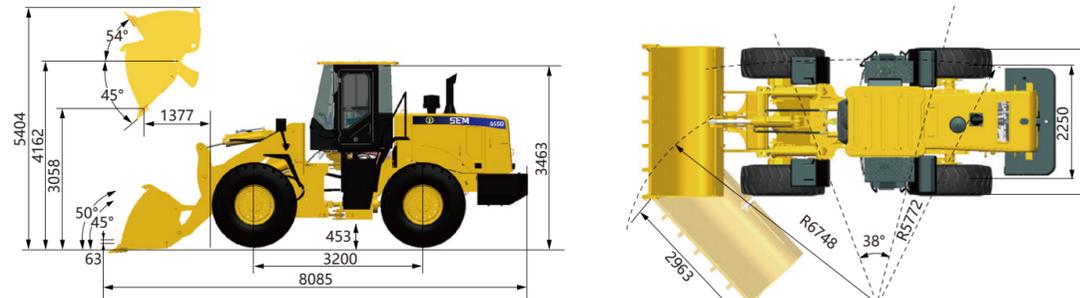
Work Tool Options



Main Specifications

Items		SEM655D	Items		SEM655D
Main Specifications			Engine		
Rated Load	kg	5 000	Model		Weichai WD10G
Operating Weight with Standard Bucket	kg	16 800	Rated Power	kW	162
Bucket Capacity	m ³	2.7-4.5	Rated Speed	r/min	2 000
Wheel Base	mm	3 200	Displacement	L	9.726
Overall Dimension	mm	8 085x2 963x3 463	Implement Hydraulic		
Operating Specifications			Implement System Type		
Breakout Force	kN	168	Implement System Type		Twin pump flow merging hydraulic system
Dump Clearance	mm	3058	Boom Raise Time	s	5.13
Articulated Angle	°	38±1	Hydraulic Cycle Time	s	9.5
Transmission			Brake System		
Transmission Type		Countershaft, power shift	Service Brake		Dry & caliper, air to oil control
Transmission Gears		F4/R4	Parking Brake		Drum type shoe brake, spring applied & oil released
Torque Converter Type		Single stage 3 elements	Steering System		
Maker & Type		SEM TR200	System Type		Flow amplifying
Forward I/ Reverse I	km/h	7.8/7.8	Steering Pump Type		Gear pump
Forward II/ Reverse II	km/h	15/15	System Pressure Setting	Mpa	16
Forward III/ Reverse III	km/h	22/22	Steering Angle (L/R)	°	38±1
Forward IV/ Reverse IV	km/h	39/39	Tires		
Axle			Size		23.5-25
Main Drive Type		Spiral bevel gear, single stage	Type		Bias
Final Drive Reduction Type		Planetary type, single stage	Layer		16
Rear - Oscillating +/-	°	±11	Textured Type		L3/E3

Machine Dimensions



▶ Note: the above dimensions are based on the standard configuration.

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Version: February 2017 - Weichai

SEM655D Wheel Loader



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

SEM655D

Product Advantage

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

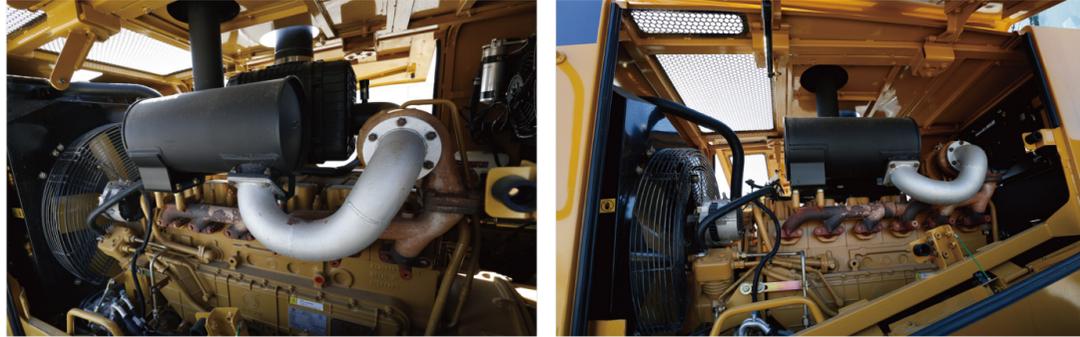
Website <http://www.semmachinery.com>



A Caterpillar Brand

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



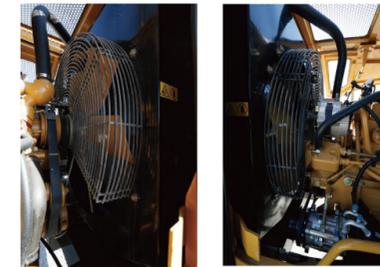
Reliable Drivetrain

- Countershaft transmission with upgraded core components provides high reliability
- Large rim-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 convertor 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°C 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 convertor 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

