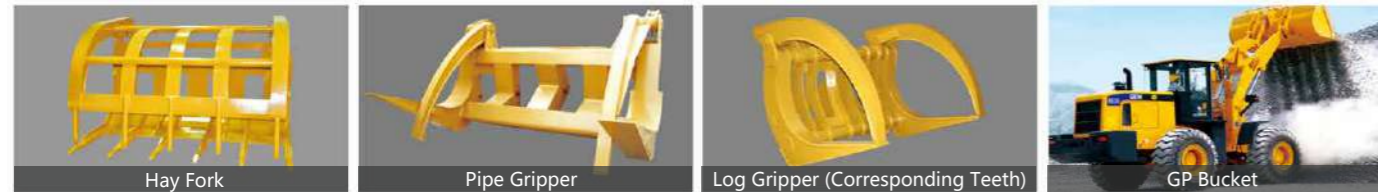


Machine Applications

- Landscaping, building, sewer/water tie-in, local utility construction
- Ready mix cement/concrete products, quarry/stone, clay, recycled aggregate, sand and gravel
- Highway, street, tunnel, airport, residential commercial



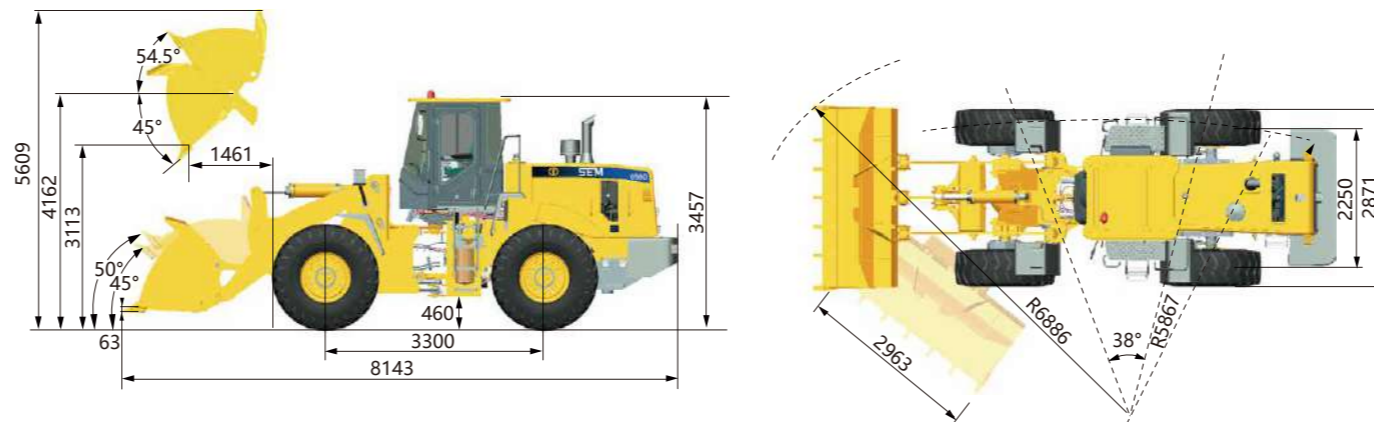
Work Tool Options



Main Specifications

Items	SEM658D	Items	SEM658D
Main Specifications		Engine	
Rated Load	kg 5,000	Model	Weichai WD10G220E21
Operating Weight with Standard Bucket	kg 17,158	Rated Power	kW 162
Bucket Capacity	m ³ 2.6-4	Rated Speed	r/min 2,200
Wheel Base	mm 3,300	Displacement	L 9.7
Overall Dimension	mm 8,143 * 2,963 * 3,457	Implement Hydraulic	
Max. Drawbar Force	KN 170	Implement System Type	Open Center
Breakout Force	KN 178	Boom Raise Time	s 5.37
Dump Clearance	mm 3,113	Hydraulic Cycle Time	s 9.3
B-Pin Height	mm 4,162	System Pressure Setting	Mpa 18
Transmission		Brake System	
Transmission Type	Countershaft, Powershift, EH Control	Service Brake	Dry&Caliper, Air to Oil Control
Transmission Gears	F4/R3	Parking Brake	Drum/Shoe
Torque Converter Type	Single Stage, 3 Elements	Steering System	
Maker & Type	SEM160	System Type	Single Load Sensing
Forward I/Reverse I	7.2/7.2	Steering Pump Type	Piston Pump
Forward II/Reverse II	13/13	System Pressure Setting	Mpa 16
Forward III/Reverse III	23/23	Steering Angle (L/R)	38±1
Forward IV/Reverse IV	37/NA	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	L-3

Machine Dimensions



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

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Version: April 2019- Weichai

SEM658D Wheel Loader



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

SEM658D

Product Advantage

- **Reliability:** Sturdy frame design for heavy duty, Caterpillar design EH transmission and made in house axle make usage life longer
- **Productivity:** EH control transmission with KD and auto speed function, optimized TC and engine match 8% rimpull improved
- **Fuel Consumption:** Optimized transmission flow save fuel, E-fan and single load sensing hydraulic system make lower fuel consumption
- **Comfortable:** Good visibility, low noise design with first class premium 5 direction adjustable seat make operation comfortable

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



Engine

- E-fan make fuel consumption better, 3 speeds auto-selection depend on coolant temperature
- 3 stages air cleaner with 93% efficiency pre-cleaner reduce earlier wearing, high efficiency fuel filter make engine work in good condition
- Cat technology damping mount reduce vibration failure. Four air valves delivers robust power
- Radial seal air filter makes the maintenance easier and with good reliability



Hydraulic System

- Single load sensing system, high productivity and high fuel efficiency
- Piston pump, lower heat load contribution and provide more rim pull when hydraulic partial working
- Less hydraulic oil capacity required because provide flow depends on demand



Operator Station

- Mould formed cab with all trims design and more vents with HVAC make operator feel better
- First class premium seat with suspension adjustable, arm rest and safety belt. Up-down, forward and reverse adjustable
- Caterpillar method design damping mount reduce vibration failure
- Slide window, fresh air inlet system make environment better



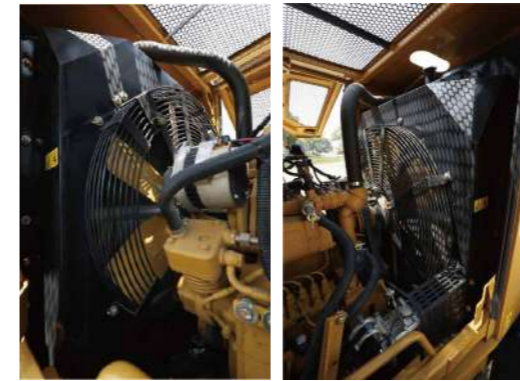
Drivetrain

- Improve transmission oil system efficiency, machine fuel consumption reduced
- Optimized marc mount reduce vibration
- Made in house axle well fitted heavy duty application
- Caterpillar design drive shaft and block bearing make machine more reliable



Cooling System

- High performance aluminum cooling package suitable for most severity applications
- Oil cooler and radiator parallel design can balance heat load inside and suitable diversity applications
- Damping design reduce vibration failure
- High ambient 50°C cooling package make machine reliability better



Solid Structure

- Validated by Cat method FEA (Finite Element Analysis) and OMSA (On Machine Stress Analysis)
- Middle articulation frame less work space needed, reduce tire wearing and fuel consumption
- Large thread design in articulation section improves load capacity



Serviceability

- Quick pressure test ports on hydraulic (SOS) and brake air lines make diagnose easier
- large wing hood door make service easier, approach to air cleaner, fuel filters and oil filters
- Large thread design in articulation section make operator easier to approach
- Air tank with pressured air tap provide more convenience for service and maintenance



Safety

- High decibel beacon and backup alarm make person around easy to attention
- 3 stages alarm system on panel make operator easy to notice
- 3 points touch entering and exit cab make operator more safely

