Machine Applications

- Increases low speed torque capability and improves wheel loader productivity
- Strong torque delivery leads to higher breakout force
- Maximized fuel efficiency over a range of wheel loader operating duty cycles with over 5% better fuel economy

Work Tool Options

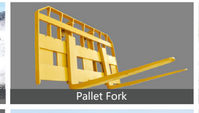

Hay Fork


Pipe Gripper


Log Grapple (Corresponding Teeth)


Marble Fork


GP Bucket


Pallet Fork


Side Dump Bucket


Log Grapple


Material Handling Arm


Log Grapple (Upper Teeth Combined)


QC Rock Bucket


Rock Bucket

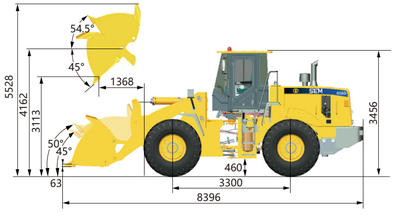

Side Dump Bucket

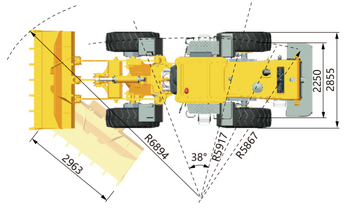

Quick Coupler Arrangement

Main Specifications

Items		SEM656D	Items		SEM656D
Main Specifications			**Engine**		
Rated Load	kg	5 000	Model		Cummins L9.3
Operating Weight with Standard Bucket	kg	17 100	Rated Power	kW	162
Bucket Capacity	m³	2.7-4.5	Rated Speed	r/min	2 000
Wheel Base	mm	3 300	Displacement	L	9.3
Overall Dimension (outside of tire)	mm	8 396x2 963x3 456	**Implement Hydraulic**		
Operating Specifications			Implement System Type		Single load sensing flow sharing system
Breakout Force (GRD)	kN	173	Boom Raise Time	s	5.13
Dump Clearance	mm	3 113	Hydraulic Cycle Time (rated payload)	s	9.3
Articulated Angle	°	38±1	System Presure Setting	Mpa	18
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		Sigle stage 3 elements	**Steering System**		
Maker & Type		TR200	System Type		Flow amplifying
Forward I/ Reverse I	km/h	7.8/7.8	Steering Pump Type		Piston pump
Forward II/ Reverse II	km/h	15/15	System Presure 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, singe stage	Layer		16
Rear - Oscillating +/-	°	±11	Textured Type		L3

Machine Dimensions





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

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Version: Version: October 2016

SEM656D Wheel Loader

※ Installed with Cummins Engine L9.3
※ Featured machines in photos may include optional equipment

SEM656D

Product Advantage

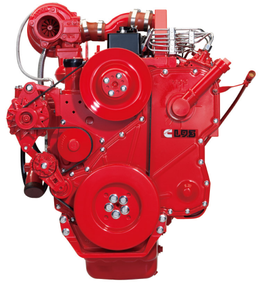
- High Productivity
- Excellent Fuel Economy
- Best-in-class Reliability and Durability
- Outstanding Operator Comfort

Website http://www.semmachinery.com

SEM™
A Caterpillar Brand

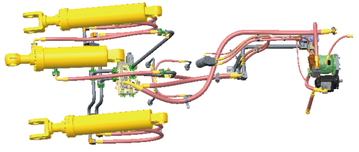
Cummins Engine

- 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

- The advanced load sensing hydraulic system with flow sharing circuits improves efficiency
- World Class hydraulic components ensure high reliability
- The optimized hydraulic system paired with the drive train reduces machine cycle time and increases productivity

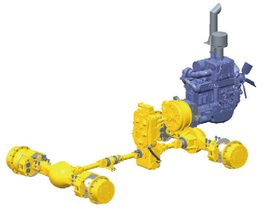


Operator Station

- Premium operator station with increased space and superior visibility
- Sliding side window and AC with fresh air circulation provide operator comfort
- Joystick hydraulic control for easy and precise operation
- Multi-function instrument dashboard with 3-level alarm
- Adjustable suspension seat

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
- 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

- Centralized lubrication points reduce maintenance time
- System pressure test ports are standard
- Easy access to external air charge connecting port
- Engine hood grill opens for easy service access
- Torque convertor is isolated from transmission making it easy to service

Safety

- Safety design complies with all regulatory requirements
- Machine is designed with 3 points of contact to ensure operator safety
- A backup alarm, horn and beacon ensure operational safety with ground personnel
- Caterpillar Production System (CPS) leveraged in manufacturing process
- Environmentally friendly painting process