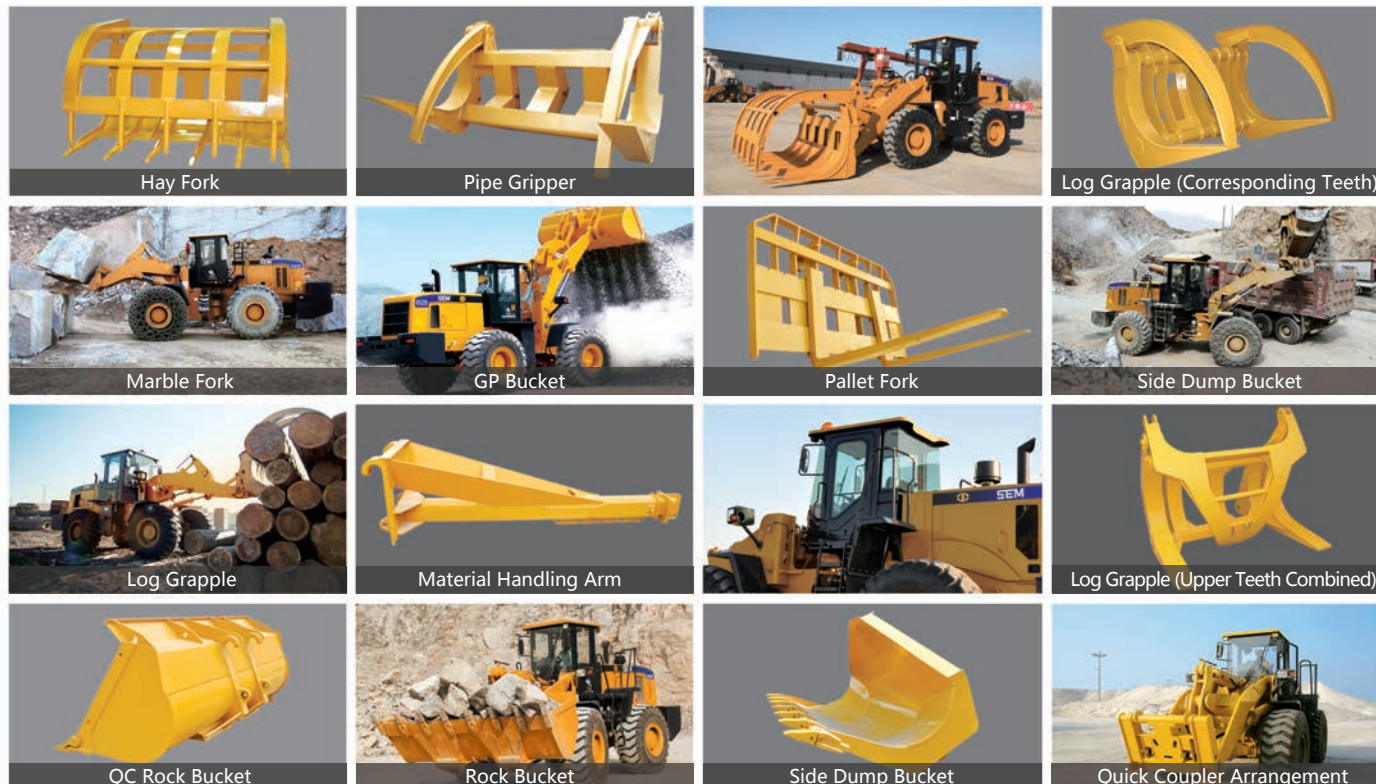


## Machine Applications

- The sturdy design of the SEM 656D makes it the perfect machine for port cargo handling, mineral yards, steel mills and other high demand applications
- 'In Quarry and Aggregate and Coal Mining applications the 656D can load more, move faster and burn less fuel
- Multiple work tools are available for increased versatility



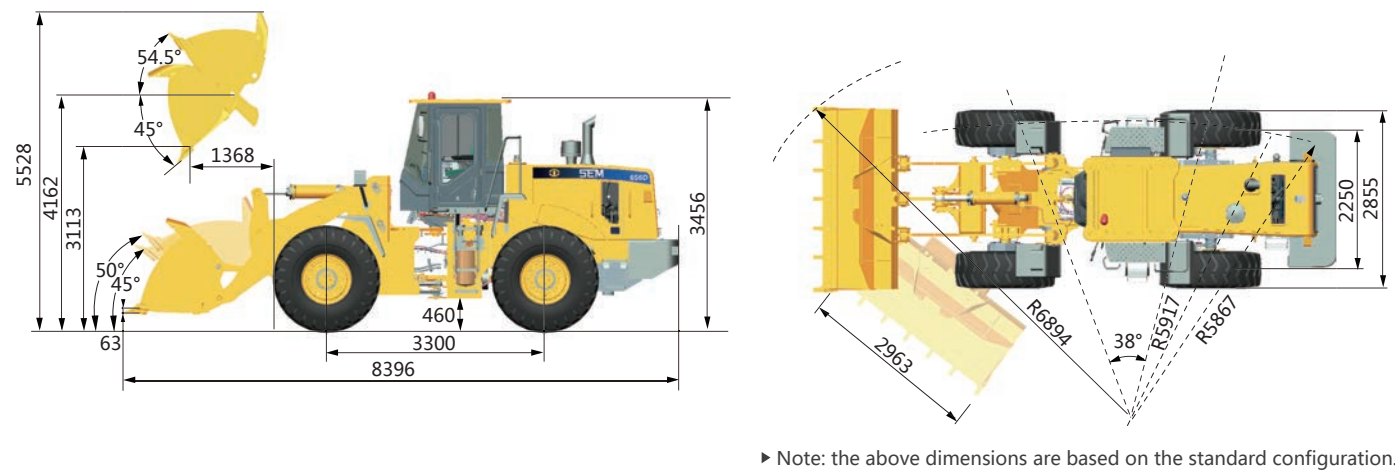
## Work Tool Options



## Main Specifications

Items		SEM656D	Items		SEM656D
<b>Main Specifications</b>			<b>Engine</b>		
Rated Load	kg	5 000	Model		WD10
Operating Weight with Standard Bucket	kg	17 100	Rated Power	kW	162
Bucket Capacity	m <sup>3</sup>	2.7-4.5	Rated Speed	r/min	2 000
Wheel Base	mm	3 300	Displacement	L	9.726
Overall Dimension (outside of tire)	mm	8 396x2 963x3 456	<b>Implement Hydraulic</b>		
<b>Operating Specifications</b>			Implement System Type		
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 Pressure Setting	Mpa	18
<b>Transmission</b>			<b>Brake System</b>		
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	<b>Steering System</b>		
Maker & Type		TR200	System Type		Flow amplifying
Forward I/ Reverse I	km/h	8.6/8.6	Steering Pump Type		Piston pump
Forward II/ Reverse II	km/h	16/16	System Pressure Setting	Mpa	16
Forward III/ Reverse III	km/h	25/25	Steering Angle (L/R)	°	38±1
Forward IV/ Reverse IV	km/h	43/43	<b>Tires</b>		
<b>Axle</b>			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	Texture Type		L3

## Machine Dimensions



### Caterpillar (Qingzhou) Ltd.

Materials and specifications are subject to change without notice. Featured machines in photos may include optional equipment. See your SEM dealer for available options.

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### DEALER NAME

Address:  
Telephone:  
Fax:  
Email:  
Website:

Dealer Logo Area

# SEM656D Wheel Loader



\* 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

[Http://www.semmachinery.com](http://www.semmachinery.com)



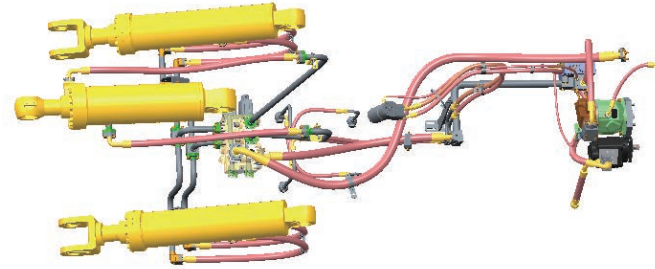
## Optimized Engine

- 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 43 C ambient conditions. An optional package is available for 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

- 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 converter 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

