

SITON

XTUW-3

Underground Loader



XTUW-3 Underground Loader

XTUW-3 underground loader is designed for non-coal mine to load and transport the loose material after explosion. The minimum suitable cross-sections (width x height) is 3.8m x 3.8m. It requires the working environment with good ventilation, hard and flat floor, and without explosive medium or gravels around. The loading capacity is 7 Tons.

Dynamic Stability

By using Volvo engine, DANA hydraulic torque converter, DANA power shift gearbox and Kessler drive axle, XTUW-3 is reliable, stable and low noise.

Safety First

All brakes are spring-applied, hydraulic release(SAHR) brakes, including service brake, parking brake and emergency brake. Those are safe and reliable in harsh environments and muddy roadways.

Robust Frame Design

The rear frame is added with heavy design, which can better stabilize the equipment when lifting and shoveling ores. The heavy-duty rear frame and tail frame minimize the damage from the impact of tunnel wall. High strength alloy steel plate is used to optimize the material thickness and reduce the dead weight, improve the overall transportation capacity and prolong the service life of the structure.



Note: This picture is for reference only. Different or optional configuration will make it looks different.

Main parameter

length	9100mm
Width (With standard bucket).....	2300 mm
Height.....	2350mm
Loading weight.....	7000kg
Max.lifting force.....	115 KN
Maximum tractive force	165KN
Bucket volume.....	3.5 m ³
Weight.....	19500kg

Speed

Gear I	4km/h
Gear II	8km/h
Gear III.....	13km/h
Gear IV.....	21km/h

Power system

Diesel engine.....	Volvo TAD80VE
Rated power	160kW@2200rpm
MAX torque.....	1060Nm@1000~1400rpm
Number of cylinders.....	Straight 6 cylinders
Displacement.....	7.7 L
Cooling system.....	water cooling
Emission standard.....	Tire IV
Exhaust system.....	DOC+POC+silencer
Average fuel consumption,50% load.....	20L/h
Fuel tank volume.....	280L
Fuel system.....	Integrated hand pump, remote fuel filter
Air inlet system...	Low level turbocharger, dry air filtration
Control system...	Fuel electronic control injection system
Start system...	starter with 24V/5.5KW,Intake air preheating

Chassis

Axle.....	Kessler D91
Rear axle with Swing angle $\pm 8^{\circ}$	
Four-wheel drive	
Climbing ability.....	15°
Transmission.....	Dana 32000
Electronic gear shift, Four gear for both forward and rear	
Standard Differential	
Tyre.....	17.50R25
Torque converter.....	Dana C273
Articulated Turning radius...5920mm (outer),3050mm(inner)	
Heavy-duty front frame, rear frame	

Hydraulic system

Hydraulic oil radiator.....	Max.radiating capacity
Steering radiator.....	ambient temperature $\leq 50^{\circ}\text{C}$
Hydraulic oil tank volume.....	230L
Return oil filter + high pressure oil filter	
Oil temperature and oil level gauge	
Low oil level display	
Hydraulic oil filtration accuracy.....	10 μm
Mineral-based hydraulic oil	

Hydraulic Steering system

Full hydraulic central articulation steering	
Main steering valve.....	Neutral position open center type
Steering cylinder.....	2 PCS
Steering pump type.....	Gear constant displacement pump

Working hydraulic system

When not steering, the steering pump and working pump joint the flow.

Working mechanism type.....
.....reversing-reversesix connecting rod
Lifting cylinder.....2 PCS
Tilt cylinder.....1PC
Main working valveNeutral position open center type
Working pump type...Gear constant displacement pump

Braking hydraulic system

SAHR, fully enclosed multi disc wet brake.

Service braking, parking braking and emergency braking are integrated.

Sharing oil tank for braking and working,volume 230L

Electrical system

Diesel engine.....28V,110A
Battery..... 2 x 12V , 120Ah
Starter.....24V/5.5KW
Floodlight and working light.....8 pcs
Double horns equipped.....standard
Buzzer equipped.....standard
Warning indication.....
.....low oil level/oil pressure/rotation warning light
Control system.....
...controller control, Built in diagnosis and alarm system

Cab

ROPS/ FOPS approved, heavy-duty design

Equipped with 4.3 inch Murphy screen for required engine information and alarms

Adjustable operating handle and armrest

Emergency exits

Fire safety

Portable fire extinguisher.....8kg 1pc

Heat insulation of exhaust pipe.....
.....Cotton protection standard

Turbocharger.....Shield standard

Cooling fan.....Shield standard

Operating conditions and limitations

Operating ambient temperature.....-15°C~+45°C

Standard working altitude range.....
.....adopt VOLVO TAD850V diesel engine

No power loss from -1500m to +3000 m when the ambient temperature is 25°C

Others

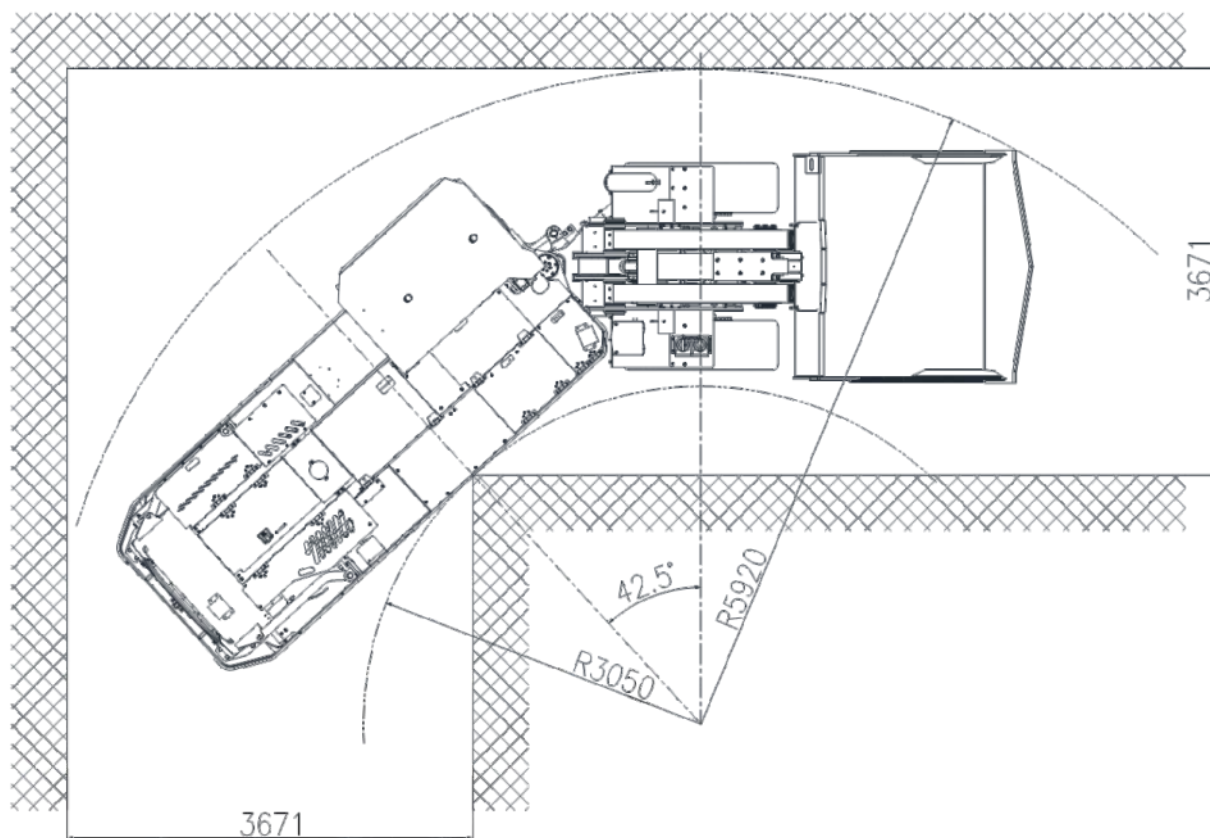
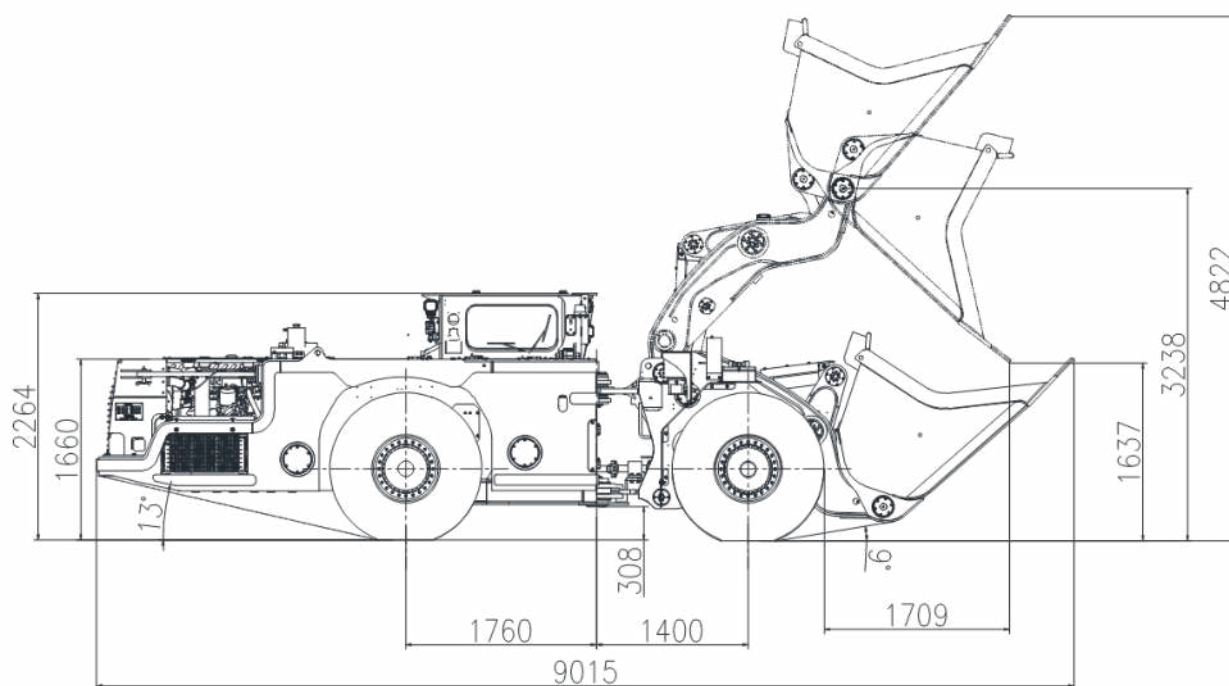
Centralized Lubrication System

Fire extinguisher

Automatic fire extinguishing system (optional)

Remote control (optional)

Measurements





JIANGXI SITON MACHINERY MANUFACTURING CO., LTD.

Address: North of High-Tech Development Zone, Pingxiang, Jiangxi, P. R. China

Tel: +86 799 3671932

Fax: +86 799 3671922

E-mail: export@sitoncn.com

Website: www.siton-china.com



Siton Machinery