

Adroit 641AW

4x4 Articulated Scissor Lift



Adroit 641AW articulated scissor lift is designed as lifting and loading machine for tunnels and mines. The platform in the size of 3.8 m x 2.15 m has a bearing capacity of 2500 kg and can reach up to 4 meters height from ground surface.

Thanks to its' articulated chassis, 129 kW diesel engine and powershift drive system, Adroit 641AW provides high performance on difficult ground conditions and excellent maneuver capability. It offers an ideal solution for all works at height in tunnels and mines including without limitation ceiling reinforcement, explosives placing, pipelines, cable ducts, and ventilation installation works.

GENERAL SPECIFICATIONS

- > Led control panel showing fault, warning and driving info
- > Cameras and recording system
- > Reversing audible and visual warning system
- > Handheld fire extinguisher
- > 12VDC output inside the cabin for vehicle radio
- > Eyebolts and towing hooks to use in loading and transporting the machine

DIMENSIONS AND WEIGHT

- | | |
|-----------------------|----------|
| > Length | 9450 mm |
| > Width | 2150 mm |
| > Height | 3180 mm |
| > Weight | 13000 kg |
| > Fully loaded weight | 15500 kg |

LIFTING PLATFORM

- > Dimensions : 3800 x 2150 mm
- > Lifting capacity : 2500 kg
- > Max. lifting height : 4000 mm
- > It has a powerpack system to lower the platform in case of malfunction

CRANE

- > Knuckle boom crane
- > Lifting capacity : 250 kg

OPERATOR CABIN

- > FOPS - ROPS level 2 certified closed operator cabin
- > Air conditioner inside the cabin
- > Laminated and tempered glasses
- > Heated glasses and side-view mirrors
- > Washable cabin upholstery
- > 3 points contacted, non-slippery stairs
- > Emergency stop button inside the cabin
- > Operator seat
 - Suspended
 - Retractable seat belt
 - Sensor that activates the park brakes when the operator stand up

ENGINE

- > Deutz TCD 2013 L04 2V 129 kW@2300 rpm Diesel engine EU Stage 3A
- > Engine / radiator fluid level warning

EXHAUST SYSTEM

- > Catalytic converter with diesel particle filter

TRANSMISSION

- > Powershift automatic transmission : Dana 24000 series
- > 3 speed forward and 3 speed reverse
- > 4 wheel drive

AXLE SYSTEM

- > Planetary type Dana 123
- > Oscillating front axle $\pm 8^\circ$

TIRES

- > 14.50 - 20 size heavy duty tires, suitable for underground work

PERFORMANCE

- > 1st gear : 6 km/h
- > 2nd gear : 12 km/h
- > 3rd gear : 25 km/h
- > Max. climb gradient 40%

BRAKE SYSTEM

- > Service brake: Hydraulically powered two circuit oil immersed multidisc brake in both axles
- > Parking brake: S.A.H.R fail safe brake.
- > Brake systems test set-up in cabin.
- > Handbrake system on cardan shaft

FUEL SYSTEM

- > Tank capacity 140 L
- > Fuel hose securely fixed and isolated from the hot surfaces

HYDRAULIC SYSTEM

- > Tank capacity 135 L
- > Hydraulic filtration, fluid temperature and tank fluid level sensing and warning system
- > Central pressure control point for system pressure measurement

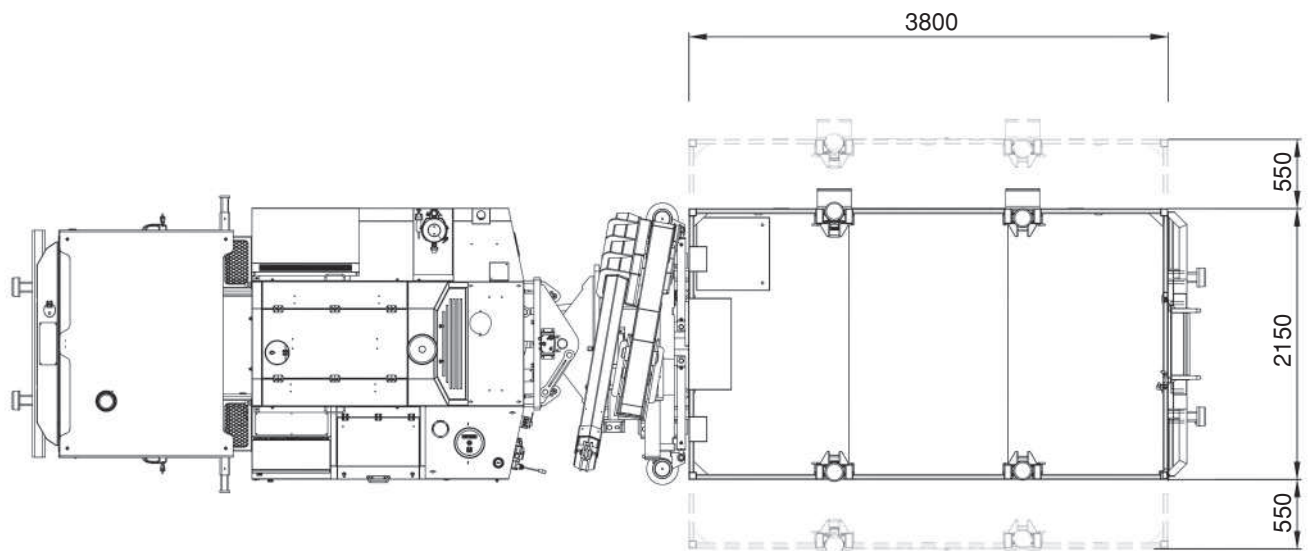
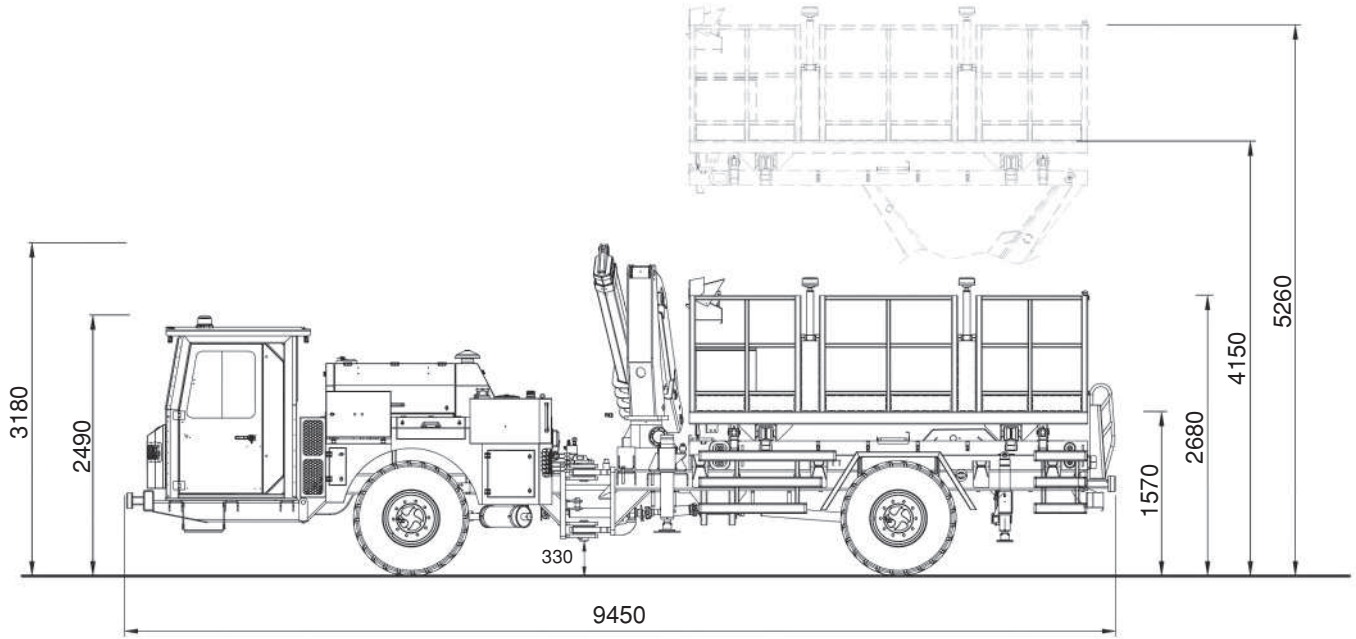
24VDC ELECTRICAL SYSTEM

- > Electrical components : IP65 and above protection grade
- > Battery 2 x 135 Ah
- > Led lighting lamps illuminating the movement direction
- > Led flashing beacon in amber colour
- > Fire - resistant wiring

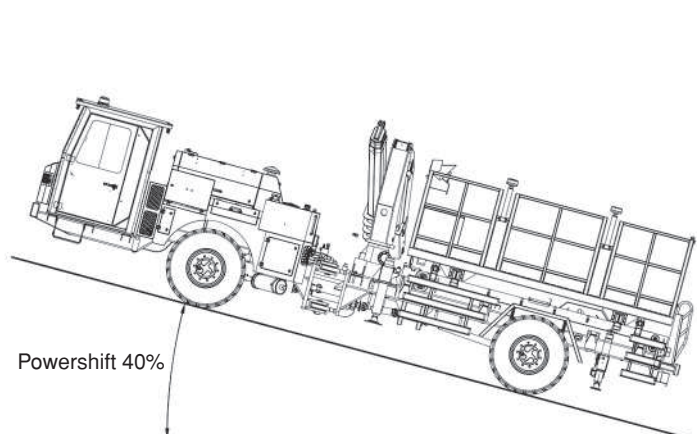
OPTIONAL COMPONENTS

- > Side view camera
- > EU Stage 5 diesel engine
- > Diesel engine fire suppression system

Adroit 641AW 4x4 Articulated Scissor Lift
Dimensions of Vehicle



Climbing Capacity



Turning Radius

