

Adroit 504AH

4x4 Articulated Concrete Transmixer



Adroit 504AH is designed as a 4x4 off-road type articulated transit mixer. Being produced for rough terrain and for smaller diameter tunnels where concrete mixers aboard trucks do not have access. Adroit 504AH offers ideal solution for concrete distribution within the construction site. Particularly, in construction sites with more than one concrete application point, it saves time and lowers operational costs by serving for concrete distribution between application sites. The chassis has 4 wheel drive and articulated. The drum has been designed for low profile tunnels horizontally which allows the vehicle move easily in the working area.

GENERAL SPECIFICATIONS

- > Led control panel showing fault, warning and driving info
- > Cameras and recording system
- > Reversing audible and visual warning system
- > Handheld fire extinguisher
- > Form oil system
- > 250 L stainless steel additive tank
- > 12VDC output inside the cabin for vehicle radio
- > Eyebolts and towing hooks to use in loading and transporting the machine

DIMENSIONS AND WEIGHT

- | | |
|-----------------------|----------|
| > Length | 8850 mm |
| > Width | 2000 mm |
| > Height | 2500 mm |
| > Weight | 12500 kg |
| > Fully loaded weight | 22100 kg |

CONCRETE DRUM

- > Geometrical drum volume : 5.2 m³
- > Carrying capacity : 4.1 m³
- > Hydraulically driven and adjustable rotating speed
- > Adjustable drum discharge height
- > Hydraulically actuated drum discharge cover

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 2012 L4 103 kW@2400 rpm
Diesel engine (Euro Stage 3)
- > Engine / radiator fluid level warning

EXHAUST SYSTEM

- > Catalytic converter with diesel particle filter

TRANSMISSION

- > Hydrostatic system : Dana 357 dropbox
- > 4 speed forward and 4 speed reverse
- > 4 wheel drive

AXLE SYSTEM

- > Planetary type Dana 112
- > Oscillating front axle $\pm 8^\circ$

TIRES

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

PERFORMANCE

- > Fast 1st gear : 11 km/h
- > Fast 2nd gear : 30 km/h
- > Slow 1st gear : 4 km/h
- > Slow 2nd gear : 11 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.

FUEL SYSTEM

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

HYDRAULIC SYSTEM

- > Tank capacity 130 L
- > Hydraulic filtration, fluid temperature and tank fluid level sensing and warning system
- > Central pressure control point for system pressure measurement

HIGH PRESSURE WATER WASHER

- > Water pump 14L/min.
- > Max. water pressure 200 bar
- > Hose length 10 m
- > Tank capacity 400 L

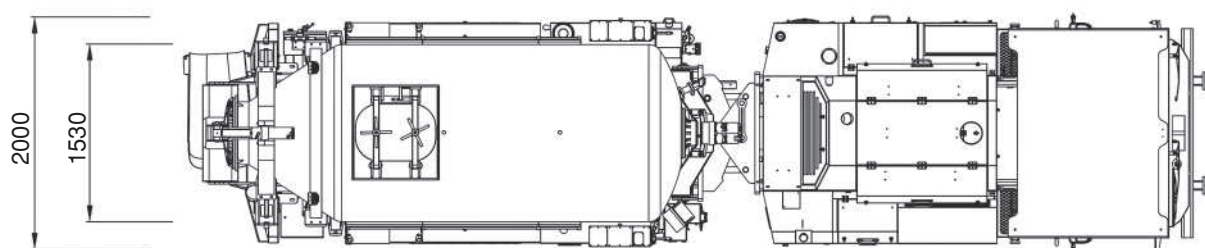
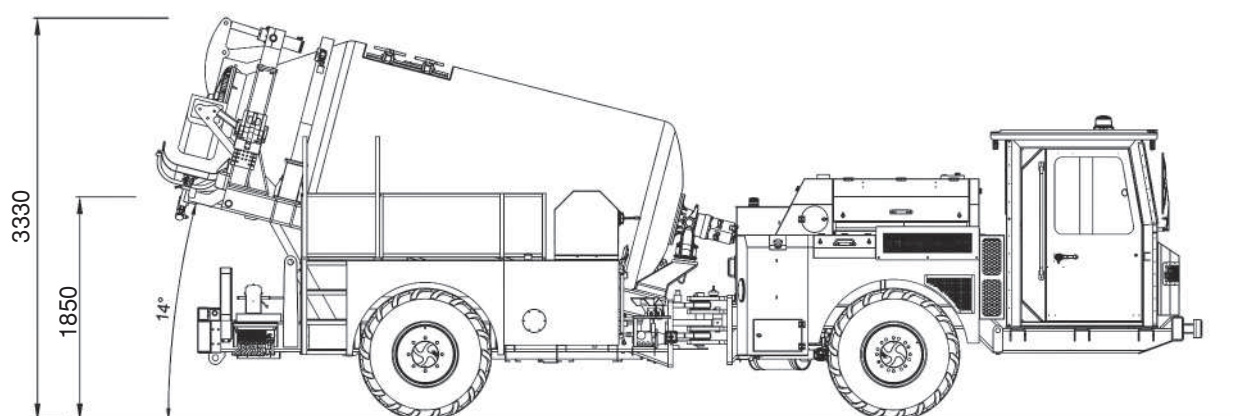
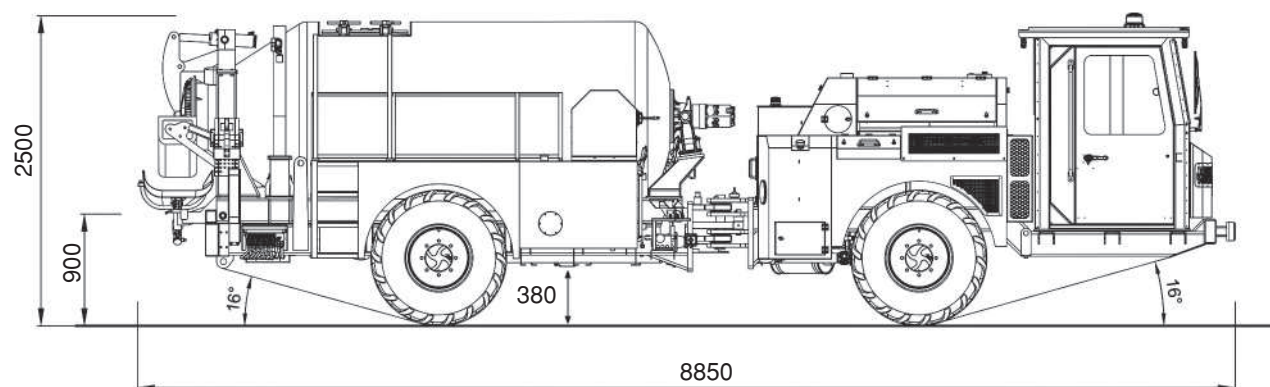
24VDC ELECTRICAL SYSTEM

- > 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 504AH 4x4 Articulated Concrete Transmixer
Dimensions of Vehicle



Turning Radius

