

Adroit 016ER / 016DR

Stationary Shotcrete Pumps



The Adroit 016 series is an ideal solution for narrow profile tunnels not accessible by truck mounted pumps or 4x4 vehicles, and notably for open surface applications. The series is characterized with low rebound, coupled with low operating and maintenance costs. Thus, the Adroit 016 series has been one of the most preferred shotcrete machines in the construction sector. Unlike other stationary type shotcrete pumps, Adroit 016 series are equipped with a chassis mounted telescopic boom. Standard boom length is 7.5 m and machine's boom length can be increased optionally.

GENERAL SPECIFICATIONS

- > Telescopic boom system
- > Valve groups, control panel, motors and pumps are sheltered by compact modular system
- > Stabilizer cylinder and valve group
- > Cable remote control
- > Eyebolts and towing hooks to use in loading and transporting the machine
- > Hydraulic oil cooler

DIMENSIONS AND WEIGHT

- | | | | |
|----------|---------|----------|---------|
| > Length | 4400 mm | > Height | 2250 mm |
| > Width | 1900 mm | > Weight | 3600 kg |

CONCRETE PUMP

- > Theoretical max. capacity of pumping shotcrete : 16 m³/h
- > Pumping pressure : max. 60 bar
- > Hydraulic pressure : max. 250 bar
- > Aggregate size : max. 16 mm
- > Adroit shotcrete machines are able to pump all type of fibers
- > Hydraulically driven hopper vibrator
- > Hydraulically controlled hopper drain cover
- > Concrete line diameter 76 mm

ACCELERATOR SYSTEM

- > Electrically driven accelerator peristaltic pump
- > Dosing rate : max. 0 to 20 L/min.
- > Pumping pressure : max. 15 bar
- > Accelerator tank : 500 L
- > Dosing rate can be controlled manually, flow rate (L/min) and dosing percentage (%) readable on the display

TIRES

- > 7.50 - 16

BOOM SYSTEM

- > Lateral : 7 m
- > Vertical : 7.5 m
- > Telescopic boom system

ENGINE

- | | |
|------------------------|---|
| Adroit 016ER | Adroit 016DR |
| > 37 kW electric motor | > Perkins 404D - 22 36 kW@2800 rpm
Diesel engine EU Stage 3A |

BRAKE SYSTEM

- > Mechanical hand brake

FUEL SYSTEM

- Adroit 016DR**
- > Tank capacity 100 L
- > Fuel hose securely fixed and isolated from the hot surfaces

HYDRAULIC SYSTEM

- > Tank capacity 170 L
- > Hydraulic filtration, fluid temperature and tank fluid level sensing and warning system

HIGH VOLTAGE ELECTRICAL SYSTEM

Adroit 016ER

- > 380 V, 50 Hz. cable type 3 x 380 / 50

24VDC ELECTRICAL SYSTEM

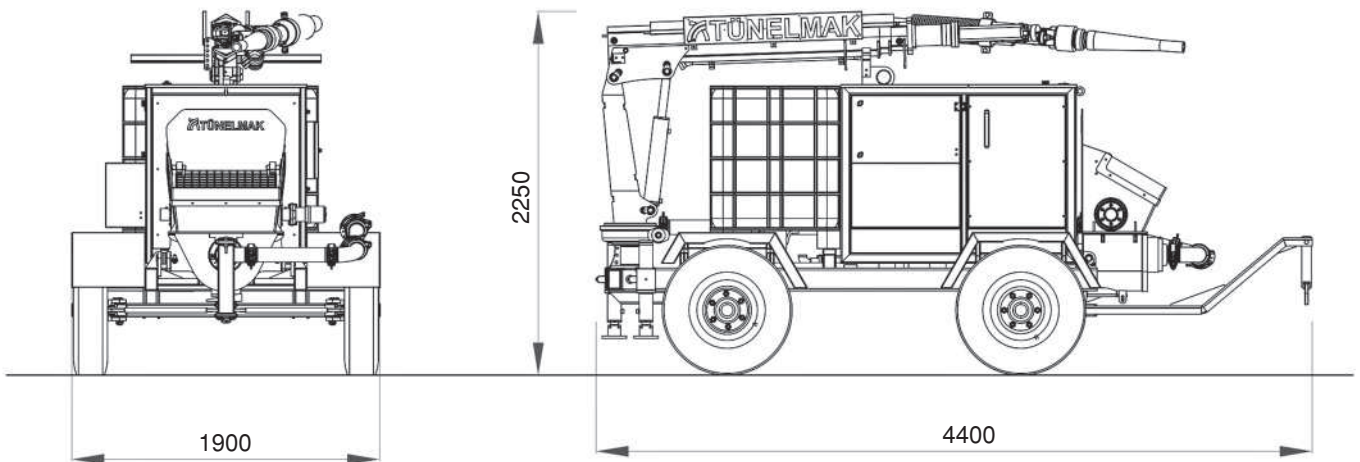
Adroit 016DR-ER

- > Electrical components : IP65 and above protection grade
- > Led working lights
- > Battery 2 x 72 Ah (Adroit 016DR)

OPTIONAL COMPONENTS

- > Radio remote control
- > Automatic lubrication system
- > Catalytic converter with diesel particle filter
- > EU Stage 5 diesel engine

Dimensions



Spraying Dimensions

