

# Adroit 016DT

## Crawler Shotcrete Machine



Adroit 016 DT is a shotcrete pump on crawler chasis with diesel engine. The machine have a concrete pumping capacity of 16m<sup>3</sup>/h. It is fully equipped with cable remote control for driving, concrete pump control and boom movements.

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
- > Valf 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 3950 mm
- > Height 2400 mm
- > Width 1685 mm
- > Weight 4000 kg

### CONCRETE PUMP

- > Theoretical max. capacity of pumping shotcrete : 16 m<sup>3</sup>/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

### BOOM SYSTEM

- > Lateral : 7,7 m Vertical : 8,5 m
- > Telescopic boom system

### ENGINE

- > Adroit 016DT
- Perkins 404D - 22 36 kW@2800 rpm EU Stage 3A

### FUEL SYSTEM

- > Tank capacity 130 L
- > Fuel hose securely fixed and isolated from the hot surfaces

### HYDRAULIC SYSTEM

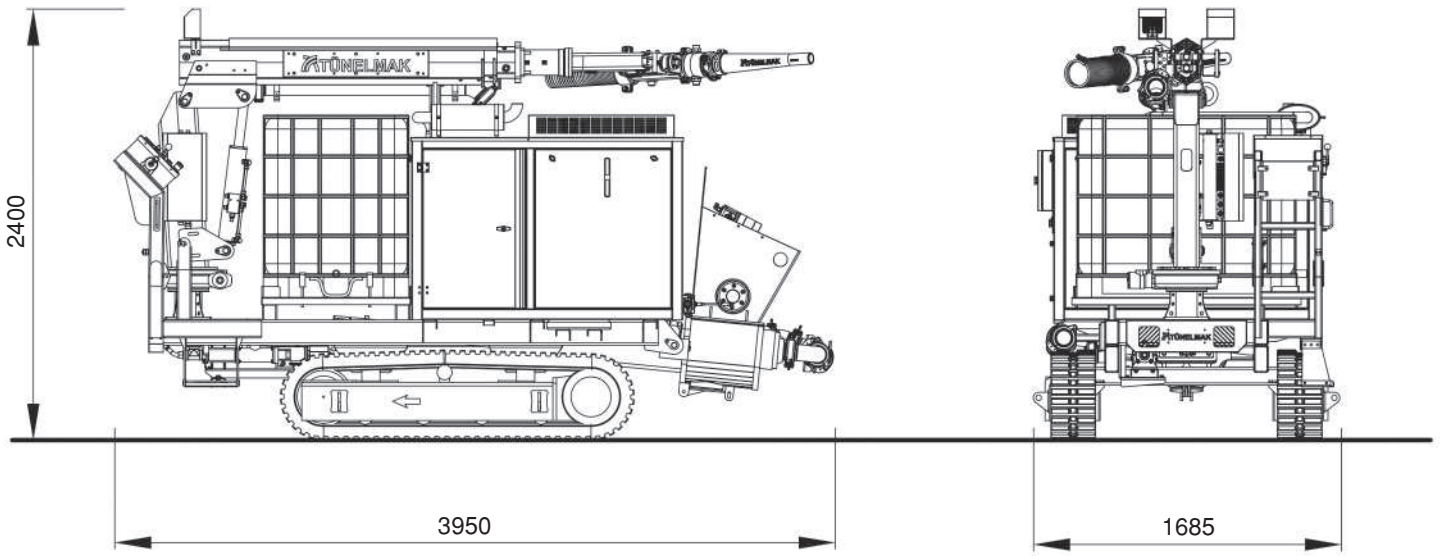
- > Tank capacity 160 L
- > Hydraulic filtration, fluid temperature and tank fluid level sensing and warning system

### 24VDC ELECTRICAL SYSTEM

- > Electrical components: IP65 and above protection grade
- > Led working lights
- > Battery 2x72Ah

### OPTIONAL COMPONENTS

- > Radio remote control
- > Automatic lubrication system
- > Electrically driven accelerator peristaltic pump
- > Catalytic converter with diesel particle filter
- > EU Stage 5 diesel engine



**Operation Diagram**

