

Shotcreting Machine

TSR 30.14 / TSM 30.14



TSR 30.14

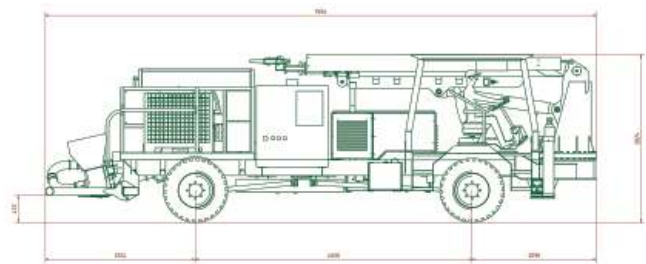
It is a Universal Shotcrete Machine driven by a diesel engine, equipped with a shotcrete pump and a telescopic boom for concrete spraying. The shotcrete pump has the ability to deliver 33 m³/hr of concrete at 59 bar.

The telescopic boom is extendable up to 14m. The boom can rotate 270° about y-axis. Both the pump and boom are driven by an electrical motor. Emergency operation of boom is carried out by a separate geared pump driven by vehicle's diesel engine.

Spraying head consist of three hydraulic motors. Two hydraulic swivelling motors are for adjusting the nozzle rotation and one hydraulic revolving motor is for the nozzle oscillation.

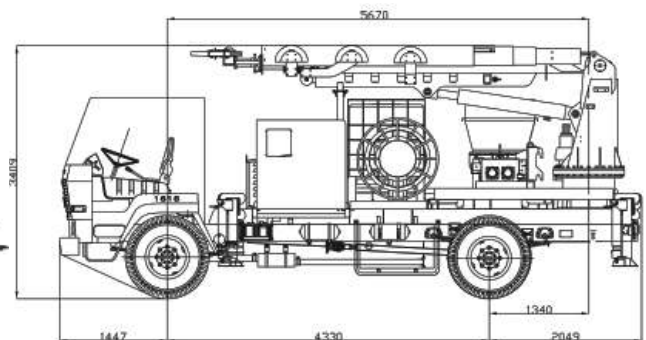
Power-controlled hydrostatic drive unit with variable pump mounted directly to the diesel engine. Power to both axles is transmitted by means of hydrostatic variable motor via transfer case. Steering of vehicle is switchable to four-wheel steering, front-axle steering and crab steering.

Open drivers stand equipped with ROPS/FOPS shelter. The vehicle can be driven in both directions by rotating the stand to 180°. Hydraulically driven water pump of 200 bar for cleaning purpose. It is also equipped with a piston type dosing pump made up of stainless steel.



TSM 30.14

TSM 30.14 is a Universal Shotcrete Machine mounted on a truck chassis, equipped with a shotcrete pump and telescopic boom. The pump kit and boom used here are same as that of TSR 30.14.



Chassis : Ashok Leyland 161, 4x2, 4300mm wheelbase with PTO pump.

Technical Data

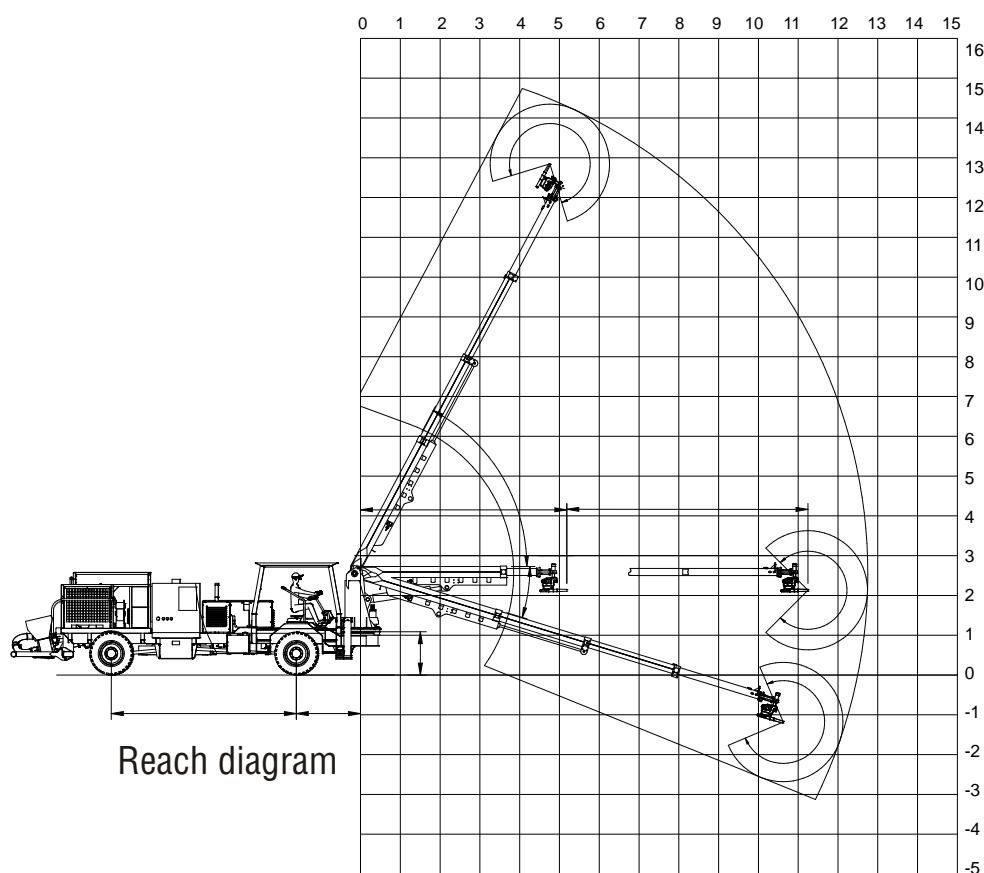
BOOM

Data	Units
Boom vertical reach	14m
Boom Horizontal reach	11m
Boom rotation	270°
Boom lifting	- 17° ...+62°
Extension	6m (2m + 4m)
Nozzle rotation	360°
Nozzle tilting	270°
Nozzle slewing	360°

Technical Data

Pump kit

Data	Units
Maximum theor. Concrete output	33m³/hr
Max. Concrete Pressure	59 bar
Max. number of strokes	35
Pumping Cylinder, dia x stroke	Ø180 x 630
Piston displacement, 2 cylinders	32 l
Capacity of charging hopper	200 lts.
Capacity of Dosing tank	1000 l
Max aggregate size	25 mm



Reach diagram

Nozzle Rotation

