



TSR500

Tongsui Shotcrete Robot

Shanghai Tongsui M. & E. Equipment Co., Ltd.

01

Classic

- Nearly 20 years good performance at site, successful finalized products
- European design, German manufacturing standard

02

Close hydraulic system

- BOSCH-REXROTH close hydraulic system
- Low consumption, high pumping pressure, avoiding pipe block
- Low vibration to boom, smooth operating, and low rebound
- Low pulse, gentle pumping

03

Unique boom

- Classic three section arm structure design, full hydraulic retraction and retraction, perfect imitation of human hand structure, most flexible, accurate, and maximum effective coverage
- High strength steel production, meet with the working strength, portability and flexibility



04

High efficient concrete pump

- German design, German technology, German standards
- Double piston, S-tube valve, long stroke, less reversing times, low wear
- Pumping pressure up to 75bar, high pumping capacity
- Advanced hopper design, complex manufacturing process, not easy to accumulation

05

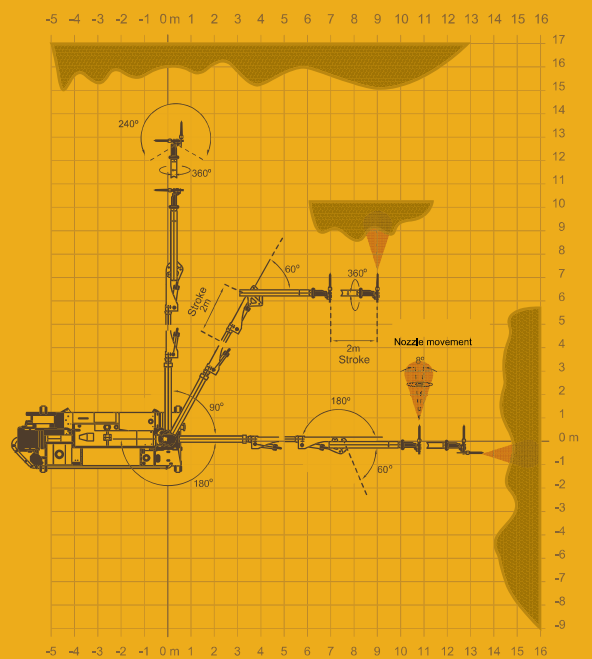
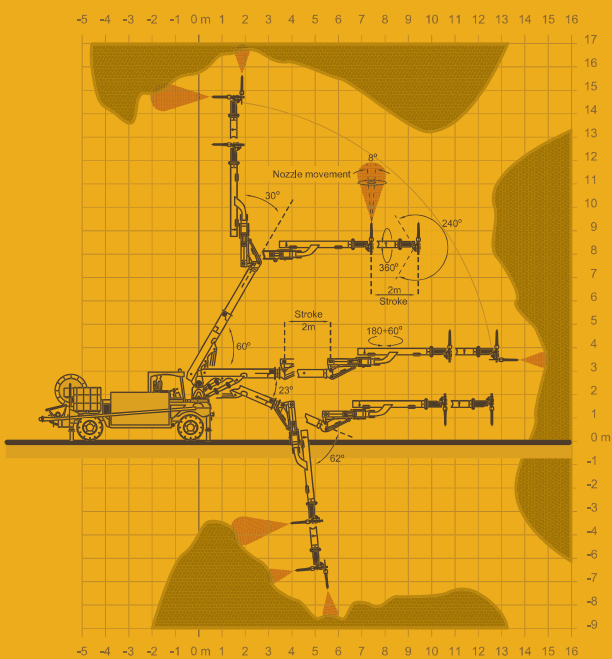
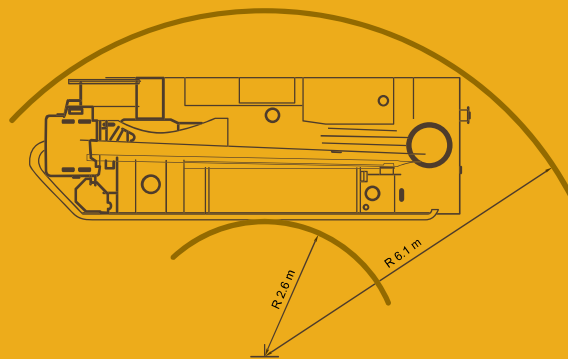
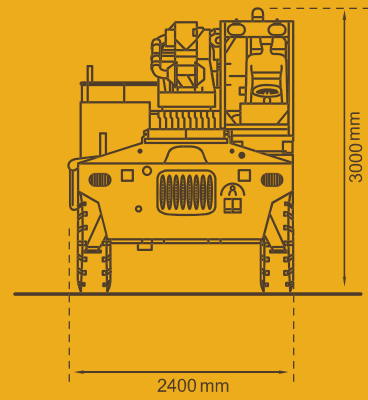
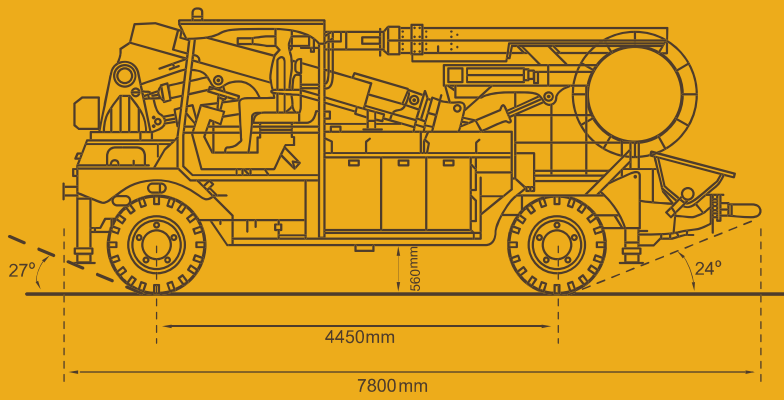
Rigid chassis

- Specially designed for shotcrete, compact size and reasonable layout
- High ground clearance, better trafficability, suitable for hard and tough working condition in tunnel and mines.
- Long service life, low maintenance costs
- Bi-direction driving, driver seat 180° rotation

06

Off-highway axle

- DANA Dana Spicer series axle
- Specially customized for shotcrete working, for hard and tough working condition in tunnel and mines.
- Comfortable and safety driving
- Higher loading capacity and higher safety than highway axles.





Technical Data

General	
Dimension	L7800 x W2400 x H3000 mm
Weight	16000KG (with air compressor) / 14500KG (without air compressor)
Chassis	
Type	Rigid and sturdy steel frame, diesel-hydrostatic transmission, 4-wheel drive(4WD), 4 wheel steering (4WS) & bi-direction travel, driver's cab with safety canopy.
Engine	4-cylinder in line, water-cooled, turbo diesel engine
Axle	DANA SPICER off-highway axles
Hydraulic aggregate complete	
Type	Electric-hydraulic power aggregate to supply hydraulic power for spraying arm, concrete pump etc.
Hydraulic pumps	BOSCH-REXROTH axial pump
Muti way valve	HAWE 10 ways hydraulic valve block
Spraying arm	
Type	Fully hydraulic drive, telescopic arm complete
@ Spraying distance 1m:	
Spraying height	Max. 17m / Min. 4m
Spraying width	Max. 30m / Min. 7.7m
Qty. of spraying arm move	9
Pitching angle	Main boom +60°/-23°, small arm +30°/-62°
Remote control	Radio remote control
Spraying head	
Rotation of nozzle	360°
Swing of nozzle	240°
Brushment of nozzle	8°/360° endless
Concrete pump	
Type	Hydraulic drive piston-type concrete pump, S-tube with speedy shift
Pumping capacity	30m³/h
Conveying pressure	7.5MPa
Hopper	
Grid	With grid for steel fibre concrete and preventing from oversize aggregate, with electric vibrator and emergency stop safety switch
Capacity	350L
Feeding height	1.44m
Dosing unit	
Type	Oval rotor-hose pump, synchronization with concrete output
Adjustment	30-700 L/h
Liquid accelerator tank	
Liquid accelerator tank	1000L, 1pc
Cable drum	
Type	Hydraulic drive
Voltage	3x380-400V /50Hz
Length	60m standard / 100m optional
High pressure water pump	
High pressure water pump	Working pressure Max. 150 bar / Flow rate 15L/min
Air compressor	
Type	Electric drive screw-type air compressor, mounted on the same chassis
Motor	75kW
Working pressure	7.5bar
Air supply	11m³/min

Inquire us for more information about the machine. We reserves the right to modify machines and documents at any time without prior notice.

Distributor:

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