

TSR 30.14

SCHWING Shotcrete Machine



RECORD BREAKING ENGINEERING



SCHWING MANUFACTURING FACILITIES

SCHWING Stetter India, one of the largest manufacturers of concreting and construction equipment across the country, today inaugurated its 5th manufacturing facility in Cheyyar, Tamil Nadu. The state-of-the-art integrated facility of 52 acres comprising of 50,000 square metres of built up area will now become a Global Manufacturing hub for Schwing's concrete boom pumps, stationary pumps, self-loading mixers, shotcrete pumps, excavators, wheel loaders and motor graders.



The Global Manufacturing Hub also has space for creating future expansion and hydraulic excavator factory will be ready in the next three months to add a capacity of 7500 units per year. Presently, in this factory, SCHWING has increased production capacities, for example, pump by 50%, truck mounted boom pump by four times, Self-loading Mixers by five times and truck mixers and Batching Plant capacity to go up by two times.

CORPORATE OFFICE & R&D CENTRE

F71/72 SIPCOT INDUSTRIAL ESTATE, IRUNGATTUKOTTAI,
SRIPERUMBUDUR, KANCHIPURAM DISTRICT - 602117,
TAMIL NADU, INDIA.

SERVICE CENTRE & TRUCK MIXER FACILITY

F75 , SIPCOT INDUSTRIAL ESTATE, IRUNGATTUKOTTAI,
SRIPERUMBUDUR, KANCHIPURAM DISTRICT - 602117,
TAMIL NADU, INDIA.

GLOBAL MANUFACTURING HUB

A8 SIPCOT INDUSTRIAL PARK,
CHEYYAR - KANCHIPURAM RD , CHOLAVARAM,
TAMIL NADU 631701

TRUCK MIXER FACILITY

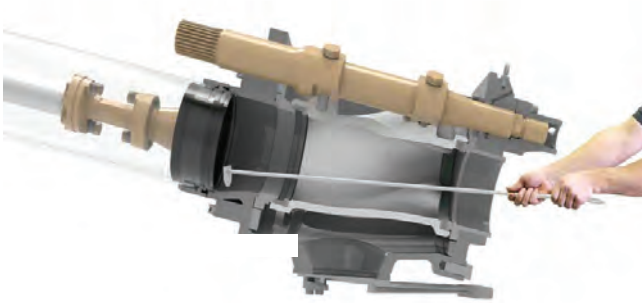
D6 , SIPCOT INDUSTRIAL ESTATE, IRUNGATTUKOTTAI,
SRIPERUMBUDUR, KANCHIPURAM DISTRICT - 602117,
TAMIL NADU, INDIA.

BATCHING PLANT FACILITY

G12 , SIPCOT INDUSTRIAL ESTATE, IRUNGATTUKOTTAI,
SRIPERUMBUDUR, KANCHIPURAM DISTRICT - 602117,
TAMIL NADU, INDIA.

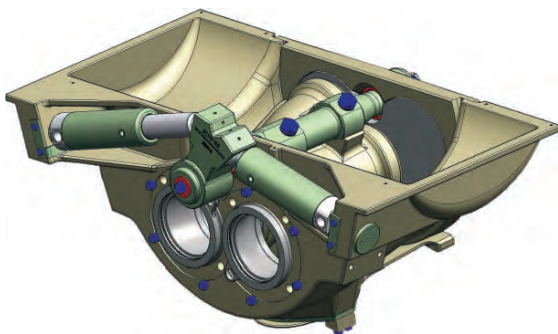
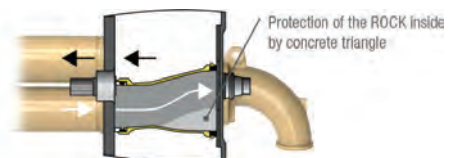
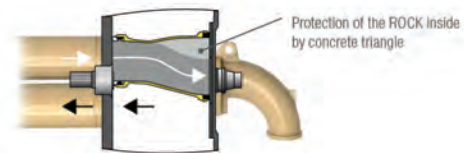
ROCK VALVE

This rugged, reliable rock valve is highly suited for stiff, difficult mixes of concrete and ideal to use in combination with the long stroke pumping unit. All concrete pumps from SCHWING have a concrete valve, which is characterized by extremely low wear, a long service life and a very good cleaning ability



Due to its straight design, in comparison to other concrete valves, the ROCK valve is easier and quicker to clean. It also provides a direct view into the delivery cylinder and of the pumping pistons. The pump kit can therefore be cleaned easily and conveniently within just two strokes. This saves water and reduces the time needed for cleaning.

The wear in the concrete valve is particularly high as the concrete is fed into the outlet at high pressure. In order to minimize this wear, at the most heavily loaded point of the ROCK concrete does not rub on steel, but rather on concrete. This is because the intelligent design of the ROCK leads to the formation of a concrete triangle after each shift. Protected by this concrete layer, the ROCK has a significantly longer service life than other concrete valves. For noticeably more profit per m³.

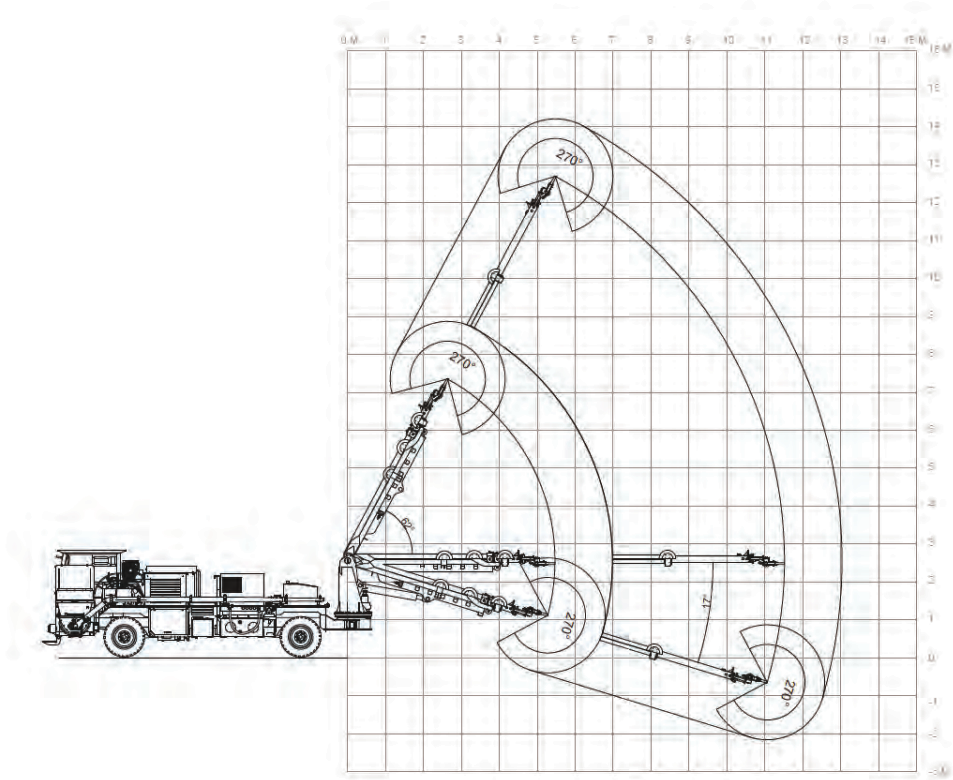


The ROCK valve not only has a significantly longer service life than other concrete valves, it is also easier to maintain. After removing the housing cover, the wear parts are easily accessible and can be replaced quickly and safely. Time-consuming adjustment work is not required after replacement. And the number of wearing parts at 3 to 4 with the ROCK valve is just half as high as with other concrete valves. The maintenance of the ROCK valve: simple, fast and safe.



SCHWING
TSR 30.14 MARK II

TECHNICAL DRAWING



BOOM DIMENSIONS

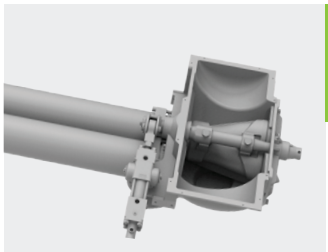
WORK RANGE PARAMETERS	UNIT	TSR 30.14 BOOM
Boom vertical reach	m	14
Boom horizontal reach	m	11
Boom rotation	deg	330°
Boom lifting	deg	-17 to +62
Extension	m	6 (2+4)
Nozzle rotation	deg	360°
Nozzle tilting	deg	270°
Nozzle slewing	deg	360°
Automatic Functions	deg	360°

FEATURES



The Spraying Boom / Manipulator

The Robust and compact manipulator boom at the same time versatile and extremely precise on nozzle placement, it has a vertical reach of 14 meters and horizontal reach of 12 meters. Boom lifting and Telescopic cylinders have self locking valves to avoid unwanted movements. For emergency purpose manipulator can operate boom through manual control block



Pulsation Free pumpkit

The shotcrete Pump BPN 300 RE with new generation rock-valve has an outstanding reliability record for stretching back more than 30 years in the pumping of concrete compounds for the wet-mix shotcreting procedure. It is robust, high wear resistant Graphite plate for long life and operator friendly. Complete pumping system is designed for low-pulsation spraying.



Spraying Head

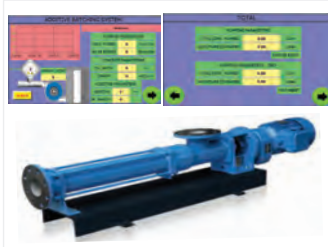
Our advance spraying system gives a flexible operation in all 3 degrees of freedom. All these movements guarantee optimum shotcrete application positions vertical to the application surface and uniform shotcreting. And also we are providing a 2 type of spraying system for customer flexibility.



IOT

Monitoring Of Engine & Pumping Parameters.

- Engine RPM
- Engine & Motor running hours
- Concrete Pumping & dosing hours
- Transferring recipe from mobile.



Admixture dosing system

The chemical dosing system comprises with most reliable SCHWING owned PLC based software and VFD controlled Screw Type Pump for accurate dosing of accelerator to the desired proportion of cement and synchronized with the respective concrete pump output. This system also includes with HMI Display & online graphical presentation of target and Actual dosed values



Electrical control

The most updated state of the art electrical control Panel with most reliable components and IP 65 protection standard is provided with transparent front cover. Current distribution board is provided in a switch cabinet with main switch, fuses, emergency stop.



Radio Remote Control

All major operations like concrete pump ON/OFF, mast/boom, control of accelerator percentage during operation, fault reset, buzzer can be controlled through Wireless Remote. Mushroom Head Type circuit breaker for protecting unit. In case of any emergency/ signal failure, system can be made operational through cable.



Driver compartment

- Open 1-man cabin with adjustable driver's seat
- Seat with retractable lap seat belt
- The driver's compartment with driving controls and two sets of pedals
- Multi-informational color display with Meters : e.g. speed, RPM, operating hour
- Status indicators : e.g. fluid levels, temperatures.



TECHNICAL DATA

PARAMETERS	UNIT	TSR 30.14 Mark II
Dimensions (LxBxH)	mm	8550 x 2800 x 3280
Weight	kg	18000
Engine		
Power	hp	110hp @ 2200 rpm
Emission norms	bs	BS-IV
Hydro static Transmission		
Pump	cc	71
Motor	cc	160
Gradeability	%	36
Max.tractive force	kN	65
Max.speed	km/h	18
Steering		
Front wheel steering		
Four wheel steering		
Crab steering		
Compressor		
Power	kW	75
Flow	cfm	450
Pressure	bar	7
Cable drum		
Power carrying capcity	kW	140
Cable length	m	70
High pressure water washer		
Max.water pressure	bar	200
Max.water Flow	lpm	30
Tank Capacity		
Hydraulic tank	L	350
Diesel tank	L	100
Water tank	L	250
Chemical	L	1000

PUMP KIT

PARAMETERS	UNIT	TSR 30.14
Max theoretical output	m3 /hr	33(max)
Max. concrete pressure	bar	59
Max strokes per minute	min-1	32(max)
Pumping cylinder dia/stroke	mm	Ø180x630
Hopper capacity	L	200
Hopper charging height	mm	1350/1450
Pipeline connection	mm	DN125 -75
Maximum aggregate size	mm	25/12

OPERATING WORLDWIDE

TOP SHOT RUNNER

This universal shotcrete machine is 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 330° about y-axis. Power-controlled hydrostatic drive unit is with variable pump mounted directly to the diesel engine. Power to both axles is transmitted by means of hydrostatic variable motor via transfer case. Both the pump and boom are driven by an electrical motor.



Total Concreting Solution from SCHWING



Best in class machines for complete concreting needs

Concrete batching plants are the standard machines for producing the ready mix concrete that come in Mobile, compact and horizontal versions and can produce concrete from 18 cu.m/hr to 240 cu.m/hr that cater to the requirement of infrastructure developers and also act as an OEM supplier to various cement companies who offer ready mix concrete .

Our range of machines include the concrete mixer truck that ranges from 3 cu.m to 12 cu.m capacities , Concrete pumps , Boom pumps , Separate placing booms, Self loading mixer machines and the shotcrete pumps.

Customer centric Innovations

SCHWING Stetter India has been able to retain its pole position with innovative products researched and developed in-house by our R&D team. In the last decade alone, we have launched close to 80 new products for the domestic as well as export markets. Our R&D activities are closely linked to customer feedback and market research. We understand the needs and wants of our customers and develop innovative solutions to solve their most pertinent problems. Few of our innovations include completely in-house designed and developed IoT solutions for all our equipment, data warehousing, analytics solutions and telemetry support, specialized shotcreting equipment for tunneling operations, advanced concrete valves for concrete pumps, long life truck mixer drums, structurally rigid batching plants which can even withstand type 2 cyclones etc.

Made in India for the World

To cater to the global construction equipment needs, SCHWING Stetter India's Global Manufacturing Hub houses the world class manufacturing facility which is all set to march ahead to set new milestones not only in the field of construction equipment manufacturing including the concrete pavers and crushers but also the earth moving machineries for every need.

Fuelled by smart and dedicated manufacturing facilities. This integrated facility combines physical with digital infrastructure that boosts the productivity levels to cater to the rapidly increasing customer demand for reliable equipment.

THINK CONSTRUCTION, THINK

SCHWING STETTER



LARGEST NETWORK

26 All India Branches | **28** Spares Outlets | **9** Service Centres | **5** Manufacturing Factories | **6** Training Centres



RECORD BREAKING ENGINEERING

SCAN ME

Online Enquiry



For more complete information on **SCHWING's** products, services and industry solutions, visit us at www.schwingstetterindia.com. Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. Visit your SCHWING's Branch for available options



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Your Nearest Branch :