

SCHWING Heavy Duty Range

SP 3000 / SP 3500 / SP 4507 / SP 4800 / SP 8800



SCHWING Concrete Pumping Power Personified

SCHWING portable concrete pumps are successfully deployed worldwide, whenever vast quantities of concrete have to be pumped over exceptionally long horizontal and vertical distances. In building and civil engineering projects, they are also fast, reliable and economically efficient in handling pumpable concrete under extreme conditions with regard to concrete designs, job sites and climate.

When you want to go to the top, choose the pumps that have already been there - the range of heavy duty pumps manufactured by SCHWING are the perfect solutions for high power pumping. Pumps like SP 3000, SP 3600, SP 4800 and SP 8800 are the high pressure workhorse pumps that have topped out more high rise buildings than any other.



SP 3500 working at a Highrise project.



SP 4800 working at a Hydroelectric power plant.

Special Feature



The heart of the concrete pump is the Rock valve, patented in almost all industrialized countries and offering exemplary pumping characteristics, wearing properties and operational safety.



Control Block

The concrete pump assembly is safely housed between the sturdy longitudinal girders of the welded base frame. Yet the control block is readily accessible (e.g. for reconnection to rod side or piston side).



Rock Valve

Rock valve with reinforced axial bearing of the slewing shaft and additional slewing cylinder for valve switchover, designed for exceptionally tough usage. Extension units can be added to the feeding hopper (shown here without rubber border) to customer specifications. Transport lifting eyes are welded to the top of the support structure and integrated into the housing.



Gear Box for Agitator Motor

When everything else is getting stronger, the agitator has to follow suit. The high torque of the agitator drive rotates the agitator paddles untiringly, even with very coarse concrete.



Stability

Stability due to self-stabilizing, mechanical A-type supports, prepared for fully hydraulic operation (option at extra charge).

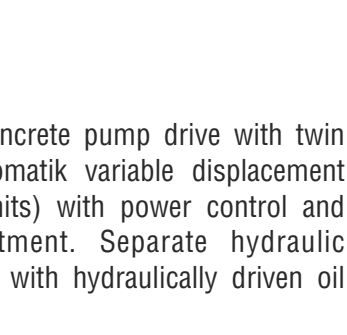
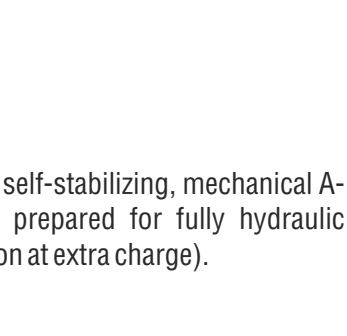
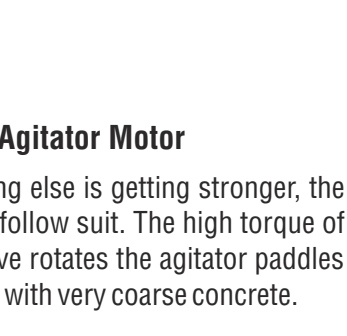


Hydraulics

Hydrostatic concrete pump drive with twin pumps (Hydromatik variable displacement axial-piston units) with power control and output adjustment. Separate hydraulic cooling circuit with hydraulically driven oil cooler.

Power

Heavy-duty Deutz diesel engine with 190 kW at 2300 rpm. Even with the housing cover closed, plenty of cooling air can flow through the generously dimensioned air vents.



SCHWING SP 3000



SP 3000 SCHWING Concrete Pump is a device manufactured to meet medium and large works in the toughest working conditions. These classes of concrete pumps are ideal for pumping in large vertical or horizontal distances and has a large number of benefits known for reliability and quality.

These pumps are equipped with variable flow hydraulic pumps that eliminate the risk of overloading the drive motor. The variable hydraulic flow optimizes the distribution of the oil volume and pressure of concrete pump and automatically adapts to different requirements or pumping difficulties. The twin hydraulic circuit and soft switching system combined with the open command block “hi –flow”, means low heating hydraulic oil with almost no loss of power and conservation of hydraulic components.

In the interval between the pumping work, the hydraulic main operates without pressure, returning the oil without pressure to the reservoir assisting the heat exchange system. Schwing equipment, does not work with feed pump continues, because this system will lose drive power increasing its fuel consumption.

TECHNICAL DATA

Description	Unit	3000	
Engine / Motor Capacity	kW	173	
Nominal speed	min ⁻¹	2100	
Pumping Cylinder Ø x Stroke	mm	180 x 1600	
Differential cylinder drive		Piston Side	Rod Side
Max. Strokes per min	No.s	15	26
Max. theor. Concrete Output	m ³ /h	35	64
Max. Concrete pressure	bar	156	86
Capacity of Charging Hopper	litres	400	
Dead Weight incl. oil and Fuel	kg	5500	
Delivery line Ø up to	mm	150	

SCHWING SP 3500



It is distinguished by the sturdiness of its technical concept, with components that have undergone long-term testing combined with a perfected construction and sound workmanship subject to a high quality standard (certification as per DIN EN ISO 9001). Well designed with job site-proven equipment, SP 3500 offers plenty of operations of concrete pump in its price class. Tried-and-tested modules in reinforced design make for increased performance:

- High engine output due to 181 kW Deutz diesel engines with substantial power reserves. Electric drives with 160 kW asynchronous three-phase a.c. motors are also available.
- The concrete pump assemblies (two-cylinder piston pumps) have been extended to a 2000 mm stroke length and are suitable for pumping pressures of up to 137 bar with reinforced Rock valve in conjunction with the 200/125 pump unit (pumping cylinder 200 mm). The high-pressure version is fitted with the HP Rock valve. The 180/125 pump unit (pumping cylinder 180 mm) can handle pressures of up to 169 bar.
- The hydrostatic drive as a single circuit hydraulic system operating in open circuit (with more than ten thousand pumps successfully deployed worldwide) is equipped with a microfiltering system (6 microns) and a separate cooling circuit for high ambient temperatures.
- The feeding hopper with reinforced agitator is supplied with rubber border as a standard feature. This increases the hopper capacity to 600 litres.

TECHNICAL DATA

Description	Unit	SP 3500 D/E		SP 3500	
		Piston Side	Rod Side	Piston Side	Rod Side
Engine / Motor Capacity	kW	181/160		181	
Nominal speed	min ⁻¹	2100/1450		2100	
Pumping Cylinder Ø x Stroke	mm	180 x 2000		200 x 2000	
Differential cylinder drive		Piston Side	Rod Side	Piston Side	Rod Side
Max. Strokes per min	No.s	16	26	16	26
Max. theor. Concrete Output	m ³ /h	49	79	58	95
Max. Concrete pressure	bar	169	100	137	81
Capacity of Charging Hopper	litres	600		600	
Dead Weight incl.oil and Fuel	kg	7000		7000	
Delivery line Ø up to	mm	150		150	

SCHWING SP 4800



Developed from Schwing SP 4000 platform, SP 4800 is an evolution of the pump that propelled concrete to the top of the Taipei 101 and set the world record in vertical pumping of 715m at Parbati. This pump comes in both diesel and electric versions.

The heart of the pump is the SCHWING patented Rock Valve, recognised as the paragon among concrete pumping valves worldwide. This valve in combination with the open circuit system ensures that concrete is effortlessly pumped to the top using the minimum amount of fuel.

TECHNICAL DATA

Portable Concrete Pump	Unit	SP 4507		SP 4800		SP 4800	
Pump unit	mm	200/150		180/150		180/150	
Engine / Motor capacity	kW	D 239		E 200		D330	
Nominal Speed	min ⁻¹	2100		1500		2100	
Pumping cylinder Ø x stroke	mm	200 x 2000		180 x 2000		180 x 2000	
Diff. cylinder drive*		Piston Side Rod Side		Piston Side Rod Side		Piston Side Rod Side	
Max. Strokes per min.	No.s	15	23	14	22	14	22
Max. theor. concrete output	m ³ /hr	56	87	43	66	43	66
Max. Concrete pressure	bar	203	134	243	156	243	156
Capacity of charging hopper	l	600		600		600	
Dead weight	kg	8000		8000		8000	
(incl. oil & fuel)							
Delivery line Ø up to	mm	150		150		150	

SCHWING SP 8800



The epitome of concrete pumps, SCHWING SP 8800 is the most powerful pump in the world, which is the only choice wherever concrete has to be pumped to record breaking heights. This pump has the Rock Valve and open hydraulic as all other SCHWING pumps. SCHWING philosophy of green pumping is ensured into this pump and it is designed to use minimum amount of fuel for it's operation ensuring better return on investment and healthy environment.

Also the noise shielding features ensure that the pump noise is reduced. The ergonomic control panel displays all operating data and the intuitive interface enable the operators to learn concrete pump operation quickly. Another advantage of using Schwing pump is the experience that we have for the past 81 years in concreting. Also our extensive network of branches, spares stores and engineer locations make sure that you have the best expertise to support you always.


TECHNICAL DATA

Portable Concrete Pump	Model	SP 8800		SP 8800		SP 8800	
Pump unit	mm	180/150		180/150		200/150	
Engine / Motor capacity	kW	E2 x 200		D 440		D 440	
Nominal Speed	min ⁻¹	1500		2100		2100	
Pumping cylinder Ø x stroke	mm	180 x 2000		180 x 2000		200 x 2000	
Displacement	l	50.89		50.89		62.83	
Diff. cylinder drive*		Piston Side	Rod Side	Piston Side	Rod Side	Piston Side	Rod Side
Max. Strokes per min.	No.s	20	30	21	31	21	31
Max. theor. concrete output	m ³ /hr	60	91	63	94	77	116
Max. Concrete pressure	bar	243	156	243	156	163	104
Capacity of charging hopper	l	600		600		600	
Dead weight (incl. oil & fuel)	kg	10000		10000		10000	
Delivery line Ø up to	mm	150		150		150	

SCHWING - STETTER

ALWAYS CLOSE TO THE CUSTOMER.



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-  Resident Engineer with Spares Depot
-  Service Centre with Spares Depot
-  Dealership Support
-  Customer Training Center

SCHWING STETTER (INDIA) PVT LTD

An ISO 9001 : 2008 Company

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