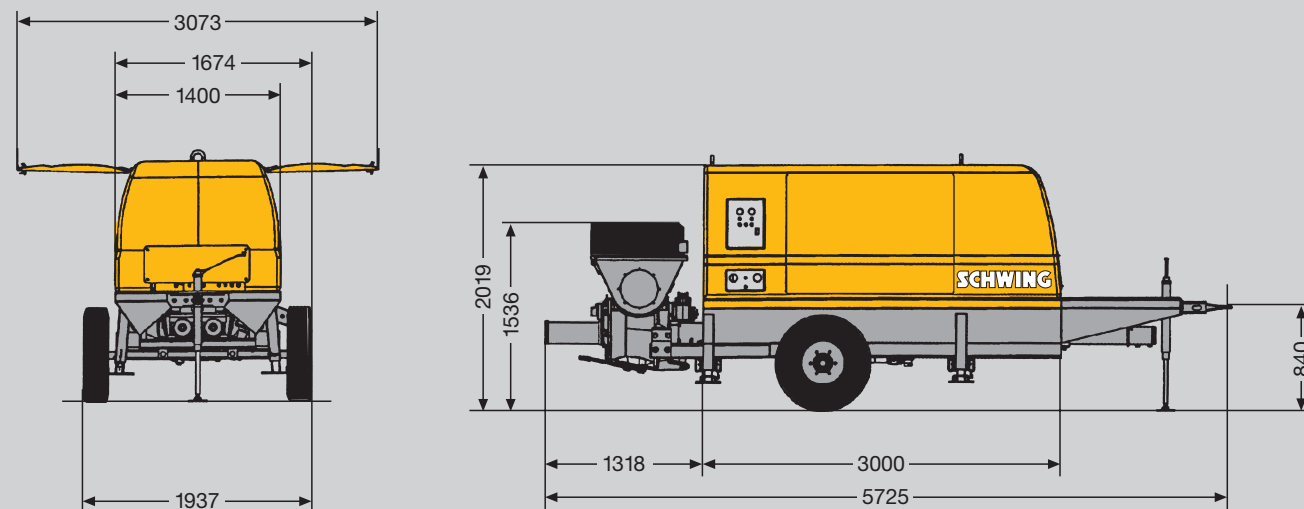


# Technical Data

		SP 1800		SP 1800		SP 1800		SP 1800	
Pump unit	mm	200/120		200/120		200/120		200/120	
Technical parameter		1875		2250		1850		3150	
Engine/motor capacity	kW	E 75		E 90		D 74		D 126	
Nominal speed	1/min	1500		1500		2300		2300	
Pumping cylinder, Ø × stroke	mm	200 x 1600		200 x 1600		200 x 1600		200 x 1600	
Stroke volume, 2 cylinders	l	50,27		50,27		50,27		50,27	
Diff. cylinders, Ø × stroke	mm	120 / 80 x 1600		120 / 80 x 1600		120 / 80 x 1600		120 / 80 x 1600	
Diff. cylinder drive*		P	R	P	R	P	R	P	R
Max. number of strokes per min.		14	24	14	24	14	24	14	24
Max. theor. concrete output	m³/h	42	73	42	73	42	73	42	73
Max. concrete pressure	bar	108	60	108	60	108	60	108	60
Capacity of charging hopper	l	320/570		320/570		320/570		320/570	
Dead weight incl. oil and fuel	kg	4000		4000		4000		4000	
Delivery line Ø up to	mm	150		150		150		150	

\* P = piston side, R = rod side

## Dimensions in mm



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# SCHWING

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Subject to modifications in the interest of technical progress. Details of the standard extent of supply are to be drawn from the offer.



## Portable concrete pump

### SP 1800



# SP 1800 – compact and robust for all-round service.

The 75 – 126 kW class is a decisive grouping among the trailer concrete pumps. It is a class that hardly ever sees any spectacular applications or record jobs. But it is the class in which the greatest total mass of concrete is pumped. Day by day. Concrete pumps in this class are the true workhorses in the pumping industry.

New in the class is our SP 1800 – a pump with a whole row of qualities and new features. With a cylinder stroke of 1,600 mm, the SP 1800 reaches its full output of 73 m<sup>3</sup>/h with only 24 strokes/min. That's 15% fewer strokes than other pumps in the same class. And 15% fewer strokes means 15% less wear in the valve assembly compared to equivalent

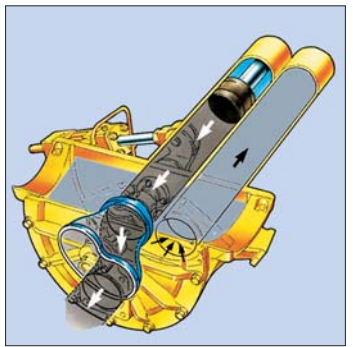
machines. As on all SCHWING concrete pumps, the SP 1800 has an output-governed hydraulic pump that ensures that the prime mover is never overloaded. The automatic governor splits available engine/motor output optimally into oil flow and oil pressure and allows the concrete pump to run at the best possible output level. At the same time, the manual de-stroker valve can be used to

set the pump to a required fine tuning to set stroke rate and output independent of the automatic governor. Open-circuit hydraulics have been a major feature of all SCHWING concrete pumps for more than 35 years now. And the open circuit, combined with the SCHWING designed "Hi-Flow" spool block ensures minimum heat generation in the hydraulics, therefore negligible

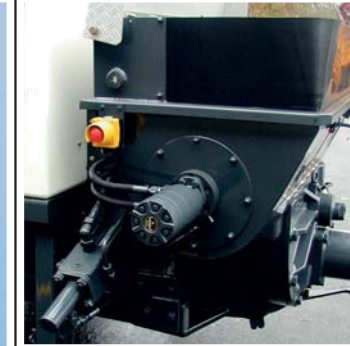
output losses and minimum stress for the hydraulic components. During short breaks in pumping, the main control spool is shifted to "idle circuit" so that all of the oil coming from the hydraulic pump flows pressureless back to the tank, thereby making a further contribution towards keeping oil temperatures low. On SCHWING pumps, there is no feed pump

that runs on continually and turns valuable energy into wasteful heat. As a second function, the main spool also isolates the drive circuits from the concrete pump system. In this way the concrete cylinders are "parked" and support the column of concrete in the pipeline. No danger of the concrete slipping back, segregating and overflowing out of the hopper.

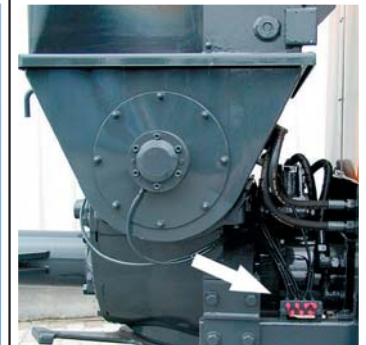
**Rock valve**  
The heart of the concrete pump is the Rock valve, patented in almost all industrialized countries. It offers exemplary pumping characteristics, wearing properties and operational safety.



**Hydraulics**  
Direct high-torque drive on to the agitator shaft as well as robust design of all hydraulic components in conjunction with constant flow micro-filtering of the hydraulic oil ensure operational reliability and a long service life.



**Maintenance**  
A central bank of grease nipples supplies grease to all of the lube points on agitator and Rock valve.



**Remote control**  
The SP 1800 comes complete with a 10 m cable remote control as a standard feature.



**Diesel engine**  
The diesel version of SP 1800 utilizes the newest generation of Deutz diesel engines. They are characterized by low noise emission, low fuel consumption and exhaust levels complying with the European Directive EU-RL 97/68.



**The canopy**  
An eye-catcher on the new SP 1800 is its robust glass-fibre reinforced canopy. Such an impact resistant cover is rot and rust-proof, is easy to keep clean and is logically maintenance free.

**Stabilizers**  
Four oblique square-tube stabilizers are anchored into the pump's main frame. They have multi-settings to give the pump a solid stance even on uneven ground. Optional hydraulic stabilizers are also available and have their cylinders stowed safely under the pump canopy.

