

SP 3800

Stationary concrete pump



Engine output		205 kW / 200 kW
Concrete output	max.	100 m ³ /h / 96 m ³ /h
Pressure on concrete	max.	162 bar
Machine weight		8,100 - 8,400 kg
		17,800 - 18,500 lb



RECORD BREAKING ENGINEERING

Highlights of the new SP 3800

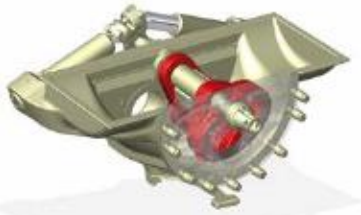
■ up to 162 bar pump pressure with the new RL ROCK valve

■ standard dual-circuit hydraulics for gentle pumping, quick switching procedures and high pumping power

■ reliable SCHWING technology for constant high performance in high-rise and long-distance pumping of concrete

Low-wear concrete valve

The legendary low wearing ROCK valve guarantees extremely long operating times and very low service costs. The optimum geometry of the ROCK reduces the friction of the concrete flow. Its robustness also allows the pumping of demanding mixtures like concrete with low water-cement ratio.



Efficient cooling system

The generously dimensioned cooling system with hydrostatically driven fan and large-volume hydraulic tank provides optimum operational safety and ensures maximum pump power, even at high temperatures.

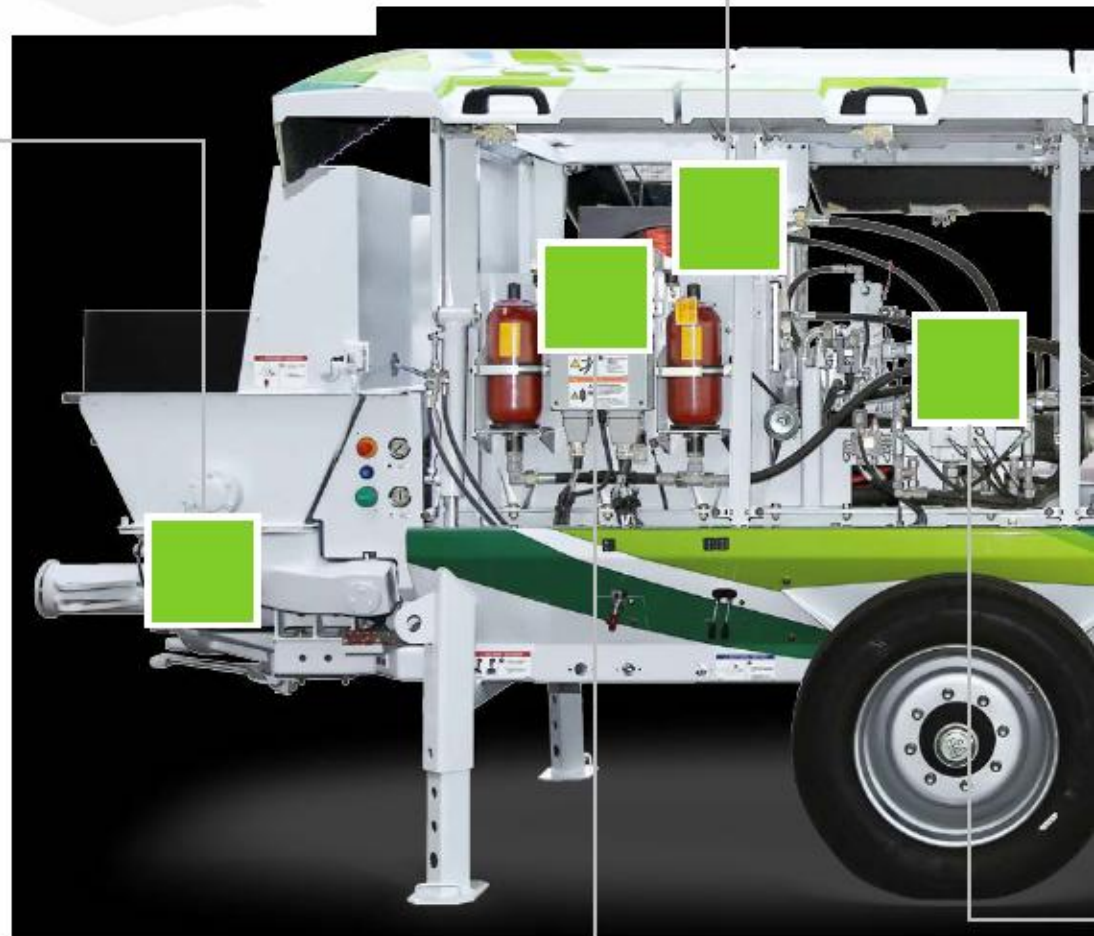


Smart Switch

The innovative new optional SmartSwitch function allows switching from maximum delivery rate (rod-side) to maximum pump pressure (piston-side) at the touch of a button and without all the messy exchanging of hoses: quick, easy and secure.

EcoClean

The EcoClean procedure allows the placement of all concrete inside the pipeline for high-rise pumping. This reduces the amount of concrete needed as well as disposal costs, increasing the efficiency of the concrete pour. All SCHWING stationary pumps are equipped ready for the EcoClean procedure ex-factory.



New control

The large-format colour display and clear machine operating control structure allow for easy and intuitive operation of the SP 3800. Machine data, operating modes and selected settings can be retrieved quickly and various parameters changed. The control also assists with troubleshooting if any faults arise.



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Short service times

The SP 3800 is designed for optimum maintenance accessibility, offering more productivity. The maintenance flaps can be unlocked and opened with only one hand. All maintenance points are easily accessible and the serviceable components are conveniently and ergonomically arranged for simple access and quick adjustment, replacement or repair.



A motor for every need

To drive the SP 3800 pump there are three different motors available, uniting high efficiency with high pumping power:

- Diesel engine - IIIA/Tier 3 exhaust emission standard
- Diesel engine - IV/Tier 4f exhaust emission standard with diesel particulate filter and SCR system
- Emission-free electric motor – class IE3 (premium efficiency)

High-performance hydraulic system

The SP 3800's new dual-circuit open system hydraulics efficiently converts drive power from the engine directly into pump power with little loss. The 700 litre hydraulic tank means long oil service life and a high heat storage capacity which ensures a constantly high delivery rate, even with high external temperatures.



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Technical data

Designation		SP 3800 D IIIA/Tier 3		SP 3800 D IV/Tier 4f	SP 3800 E		
Weight	kg	8,100		8,400	8,300		
Length	mm	7,270		7,270	7,270		
Height	mm	2,820		2,700	2,420		
Width	mm	2,180		2,180	2,180		
Performance		rod-sided		piston-sided	rod-sided	piston-sided	
Concrete output max.	m ³ /h	100		64	96	62	
Pressure on concrete max.	bar	102		162	102	162	
Stroke rate max.	1/min.	25		15	24	15	
Pump kit							
Designation		P2020			P2020		
Differential cylinder dimensions	mm	200 x 2,000			200 x 2,000		
Concrete valve		RL-Rock			RL-Rock		
Hydraulic system							
Design		open system, dual-circuit hydraulics			open system, dual-circuit hydraulics		
Hydraulic tank	l	700			700		
Motors							
Motor		Diesel engine CAT C7.1		Diesel engine CAT C7.1	Electric motor		
Engine power	kW	205		205	200		
Emission standard/efficiency class		Stage IIIA/Tier 3		Stage IV/Tier 4f	IE3		
Emission control system		-		DPF + SCR	-		
Fuel tank	l	400		400	-		
Equipment							
Standard equipment		<ul style="list-style-type: none"> - Pump kit P2020 - Dual-circuit hydraulic system - Double pressure accumulator - Hydrostatically driven fan - Fuel tank with double-sided tank nozzles 		<ul style="list-style-type: none"> - Cable remote control with 30 m cable - Four lashing eyes at the bottom - Four attachment points at the top - Central greasing strip at the hopper - Emergency-off button at the hopper and water box 		<ul style="list-style-type: none"> - Batteries 2 x 12 v, each with 143 Ah (on-board voltage: 24 V) - Supporting leg, two-stage - Pressure gauge for hydraulic pressure and for accumulated charge pressure - Carbide wearing parts 	
	Options	<ul style="list-style-type: none"> - Water pump - Hydraulic outriggers - Concrete vibrator on the grid 		<ul style="list-style-type: none"> - Hydraulic control unit (f. e. for driving a shut-off valve) - SmartSwitch - Radio control 		<ul style="list-style-type: none"> - Various outlet options - Compressor - Floodlight 	

Maximum concrete output and maximum pressure on concrete cannot be achieved simultaneously.

DPF: Diesel particulate filter; SCR: selective catalytic reduction

SCHWING concrete pumps. Efficiency as standard.



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