

Schwing Concrete Pump

BP 350 XT



BP 350 D

Drive

The motor (diesel or electric) drives the axial piston pump via a flexible coupling. Due to automatic output adjustment optimum utilization of the motor power, results in low energy consumption at different pumping conditions. Additionally the concrete flow can be manually adjusted and the pump operates in a proven open circuit.

The maximum placing output and the pressure are determined by whether the pump works on rod/piston side as per the customer's requirement. Automatic adjustment by the governor helps maintain a constant output depending on the power available from the installed drive motor.



Design

The portable concrete pumps are assembled in the unit construction system.

The main assembly groups are: Frame, Power Unit, Concrete pump kit, Control block, Hydraulic tank and Hopper with agitator.

The Frame & Axle

The frame, in compact execution, is constructed from standard vehicle profiles. The pump is mounted on heavy duty single axle chassis with draw bars and pneumatic tyres for travelling on construction sites at upto 25 km/hr.

Control System

The fully hydraulic control system is integrated within the drive. The compact control block and minimal hydraulic lines makes the equipment reliable and durable. The differential cylinder has trouble free piston rings and automatic constant stroke maintenance. Both gate valves change independently so that even when full change over is prevented by foreign materials or similar obstructions in the concrete, the pump continues to operate without problems. All components are specially developed and manufactured to withstand the rough conditions on construction sites.

Hopper and Agitator

Good suction power is possible due to large apertures at the hopper bottom section. According to the conditions on the construction site the hopper equipped with a grill and rubber border standard can be provided with an appropriate extension as an option. The agitator is driven by separate hydraulic pump. The reversible agitator motor drives the agitator shaft via an oil bath gear box.

Pumping cylinders

The two pumping cylinders are hardened by a special process and designed for an extremely long working life. The replaceable hard rubber arms are easily changed due to quickly detachable connections.



Maintenance free hydraulic cylinder



Integrated control block

Remote Control



Control Housing

Ideal flow conditions in the control housing results in superior placing properties, even in the case of concrete low on sand and fines, stiff consistence or crushed aggregates. Simple tilting of the output pipes enables easy control and cleaning of the concrete conveying path and the gate valve parts.

Pumping Material

Pumpable concrete, within any consistency range down to a water cement ratio of 0.4. Even concrete with aggregate grading up to 40mm can be pumped by with the concrete pump through a 125mm diameter pipe line.

Flat gate valve

The two flat gate valves working independently have been specially developed for pumping concrete. Their working system with automatic adjustment permits trouble free pumping even with badly worn parts.

Integrated Control Block

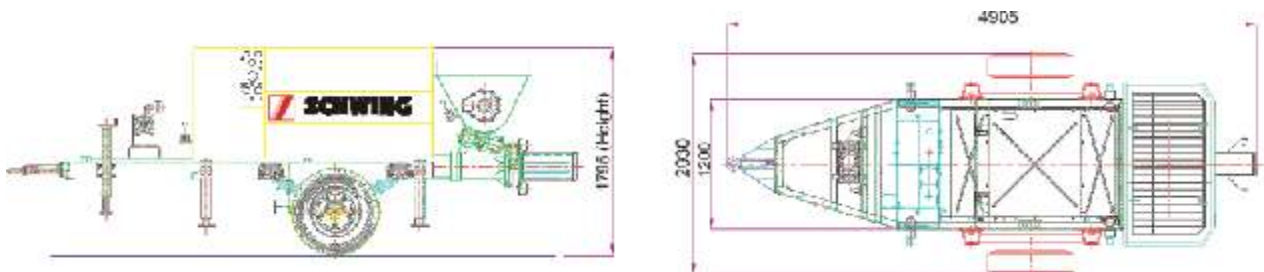
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BP 350 pumping concrete with CP 18 batching plant



BP 350 pumping concrete to 21st floor at a residential project.



BP 250 / 350 - XT TECHNICAL DATA

Description	Unit	BP 250 HDD	BP 250 HDE	BP 350 D	BP 350 E
Motor/ Engine rating	kw	49	45	49	45
Nominal Speed	rpm	2100	1450	2100	1450
Pumping cylinder * stroke	mm	150x1200	150x1200	180x1200	180x1200
Diff-cylinder * stroke	mm	100/55*1200	100/55*1200	100/55*1200	100/55*1200
Max strokes / min		25	21	25	21
Max theor.concrete output	m ³ /hr	32	27	46	38
Max concrete pressure	bar	87	87	60	60
Weight	kg	3000	2800	3100	2900
Max delivery line	mm	150	150	150	150
Feeding hopper capacity	liter	600	600	600	600

SCHWING - STETTER ALWAYS CLOSE TO THE CUSTOMER.



-  Branch
-  Resident Engineer
-  Proposed location
-  Service Centres
-  Dealership Support



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An ISO 9001 : 2000 Company

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