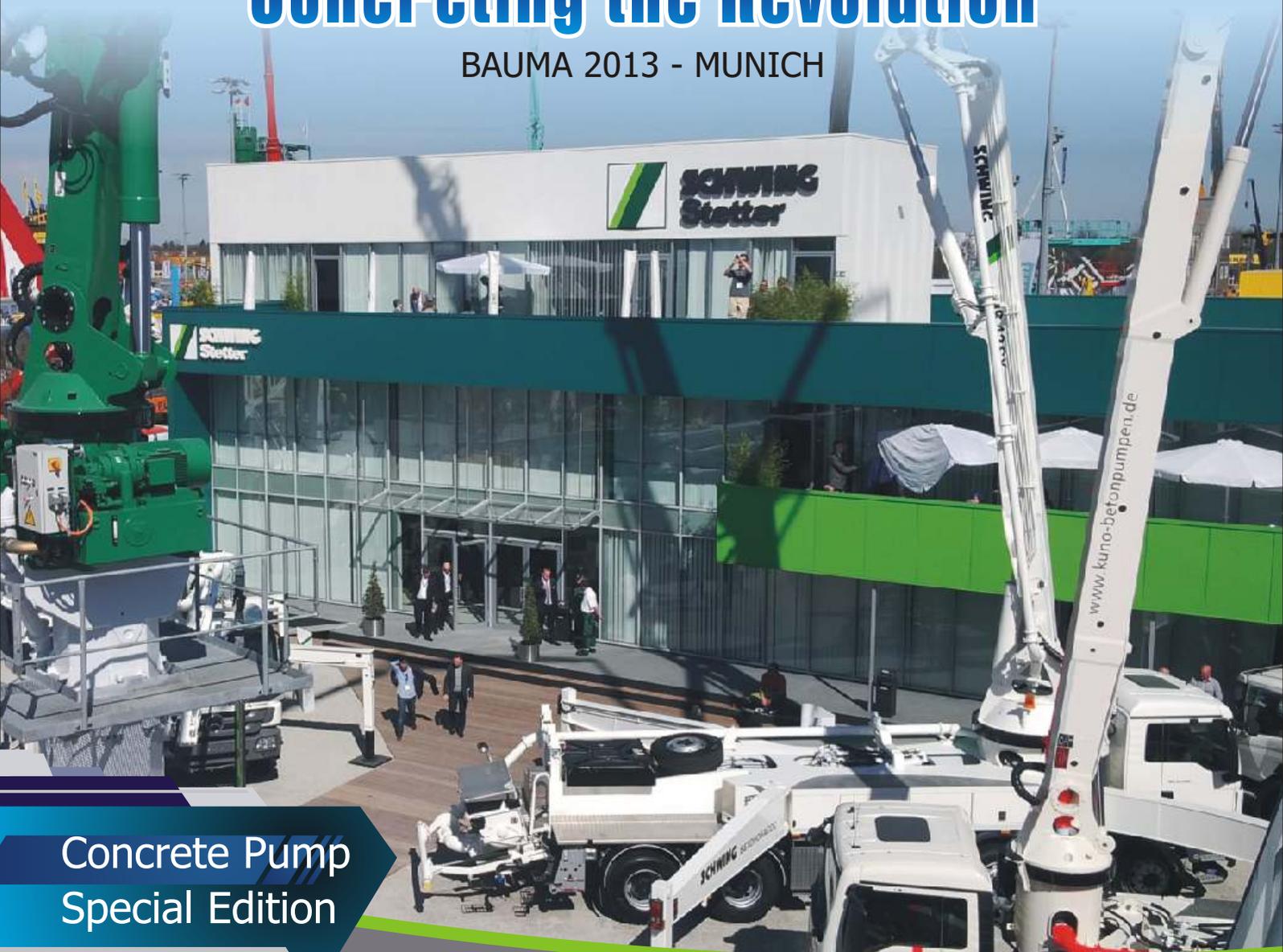


CONCRETING TIMES

SOUTH-EAST ASIA

Concreting the Revolution

BAUMA 2013 - MUNICH



Concrete Pump
Special Edition

Please Visit us at

PHILCONSTRUCT

2013

Stall No: WG 21

6th to 9th November 2013, Philippines

Please Visit us at Stall No: OS 41

**BUILDING &
INFRASTRUCTURE
INDONESIA 2013**



4th to 7th September 2013, Jakarta

Engineered for Mobility

Foundation less plant on ground



On Wheels



Trailer mounted

The latest innovation of Mobile Batching Plant to meet the Batching requirements comfortably in remote conditions

Schwing Stetter CP18 highly mobile plants are available in 2 configurations, Foundation less plant on ground and on wheels. CP18 on wheels can be mounted on a trailer or a rigid truck and comes with options like hydraulic self erection. These Plants are designed keeping in mind the easy transportability of the batching plant between the sites. The plant has concreting output of 18 m³ per hour. It comes with a Turbo Pan Mixer for achieving homogeneous mixing of concrete. CP18 batching plants also has micro process control system which is computer compatible and comes with accurate weighing system to maintain weighing accuracy for cement, water and aggregate.

Batching Plants | Concrete Pumps | Transit Mixers | Concrete Recycling Plants | Belt Conveyors | Separate Placing Booms | Shotcrete Pumps

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**SCHWING
Stetter**

A member of the Schwing Group



Editorial

Dear Customer,
Greetings!!

We are pleased to meet you through this 1st Issue of "Concreting Times SOUTH EAST ASIA".

We are happy to share many developments on Schwing Stetter business in South East Asia.

In the past, Schwing Stetter was operating through its Liaison office in Singapore to cover ASEAN. Today, the ASEAN business and South Asian business are integrated to a new entity.

We are happy to share with you that Schwing Stetter has opened its second office in Indonesia on 5th September 2013 in the following address:

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3 Temasek Avenue,
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The above office will be headed by

Mr. Shailendra Halbe
Chief Representative Indonesia Operations,
Mobile No: + 62 8118 77 4114 / + 62 818 222214
Email: Shailendra.halbe@schwingstetter.co.id

Schwing Stetter presence in Philippines is now consolidated with the presence of our Dealership "MAN Automotive Concessionaires Corp. Philippines". Now, many Batching Plants, Concrete Pumps, Transit Mixers and Recycling Plants in Philippines are ably supported by MAN Automotive Concessionaires Corp. for After Sales Service.

Schwing Stetter participation in Bauma 2013 in Munich was highlighted with many visitors from ASEAN Region.

For the first time, Schwing Stetter sponsored 40th IFAWPCA Annual Convention 2013 at Cochin in India where visitors from all 16 countries (Australia, Bangladesh, Taiwan, Hong Kong, India, Indonesia, Japan, Korea, Malaysia (MBAM), Maldive, Nepal, New Zealand, Philippine, Singapore, Sri Lanka, and Thailand) gathered together and had the opportunity to appreciate Schwing Stetter machines exhibited during this event.

Schwing Stetter Indonesia will be participating in **Building & Infrastructure Indonesia, Jakarta between 4th September and 7th September 2013**. In this event, we will be exhibiting Batching Plant Model M1T which is state of the art technology in Mobile Plant on skid ideally suited for the contractors who move from site to site frequently.

Schwing Concrete Pump S36 to be exhibited in the same exhibition is very popular in the most part of the world and it is suitable for mounting on different model of trucks popular in ASEAN region. We also exhibit Transit Mixers suitable for chassis available in this market.

We are pleased to invite you to visit our Stall No: OS 41 in **Building & Infrastructure Indonesia, Jakarta**.

We will also be participating in **Philconstruct 2013, Philippines between 6th November between 9th November 2013. Stall No: WG 21**

Through this Magazine, we would like to inform that Schwing Stetter has planned to expand the after sales & service foot print in ASEAN Region in the near future as a part of our commitment to support the machine already working in this part of the world.

Last but not the least, our New Website www.schwingstetter.co.id is already launched to assist Customers here.

Happy reading!!!

With best regards,

V.G. Sakthi Kumar

and

Akmal Rahman. B

Editorial Team, Concreting Times - SEA
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Contents

News 5

New Representative Office in Indonesia
Schwing Concrete Equipment at Indonesia
Event Participation

Cover Story 6

Bauma Germany

Project abroad 8

Pumping Flat Out in Panama

Events 10

IFAWPCA Convention 2013

Product Focus 12

S43, Rock Valve

Tech 14

Concrete Pump Safety

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New Representative Office in Indonesia

Acknowledging the potential and proven capabilities of Schwing Stetter India to grow and cater to the regional requirements in the subcontinent, Schwing Group authorised the Indian operations to expand their base in South East Asian countries since early 2012. After a thorough market research and formulating the policies, Schwing Stetter registered Representative Office in Jakarta, Indonesia in December 2012 and started business development activities through resident representatives from January 2013.

Indonesia is the second largest economy in the ASEAN (Association of South East Asian Nations, a group of 10 South East Asian countries) with world's 4th highest population. Various infrastructure development projects such as metro railway in Jakarta for mass transit. Various toll roads connecting major cities in the islands, Huge bridges connecting Sumatra and Java as well as Java and Bali are being planned and implemented at an unprecedented speed. High rise building projects have been announced in the major cities across Java and Sumatra Islands to cater to the fast urbanisation and immigration of population to the major cities for work and other objectives.

Schwing Stetter has stepped in Indonesia at the correct time, when all these challenges are being confronted by the construction industry, and has made the impact by establishing a large population base of Concrete Pumps through construction companies and equipment rental agencies. The office is supported by local service engineers who are trained in Schwing training and manufacturing facilities in India. Moving further, Schwing Stetter will have stock of emergency spare parts in Indonesia with a dedicated back up parts stores maintained in India. The Indonesia office contact address - Ruko Kokan Permata Kelapa Gading, Jalan Boulevard Bukit Gading Raya, Blok A, No. 3, Jakarta Barat - Indonesia. Phone : +62 21 29382667, Fax : +62 21 29382776.



Schwing Concrete Equipment at Indonesia



With the strong commitment for Indonesian market, Schwing Stetter has been granted an associate membership of ICA (Indonesian Contractors Association). A high level delegation of ICA members, lead by the President of ICA also paid visit to Schwing Stetter, India operations as well as to the Schwing Group pavilion during BAUMA' 2013.

Efforts of Schwing Stetter in helping the Indonesian construction companies to deliver excellent quality of infrastructure in timely manner, have been acknowledged by the Ministry of Public Works, Republic of Indonesia. During the last 5 months, Schwing Stetter has sold more than 17 concrete pumps of various models like SP 1800 and SP 2800. Few more requirements like boom pumps and concrete plants are under finalisation.

One of the most reputed construction companies, PT NUSA KONSTUKSI ENJINEERING alone has procured 6 concrete pumps for their various projects. Schwing Stetter Offers reconditioned concrete pumps with manufacturer's warranty, in Indonesia. These pumps have also being popularly used on various projects across Indonesia, as the pumps are supplied with authentic and attractive warranty terms.



Event Participation

Schwing Stetter Indonesia Representative office was invited to be present during the Annual General Meeting and Technical Seminar organised by Indonesia Contractors Association in April 2013.

Members of Indonesian Delegation to BAUMA 2013 visited Schwing Pavilion to see the latest technology and products in Concreting offered by Schwing Group. Indonesia was the chosen partner country for BAUMA 2013 and had 400 member delegation to witness, what is known as the world's largest construction industry fair.

Concreting the Revolution

BAUMA 2013 - MUNICH

Schwing Stetter participated at the world's largest exhibition of the building and construction equipment at Bauma 2013, held at Munich, Germany from 15-21 April 2013. The Schwing booth entirely focused on various concreting equipments offered by Schwing Stetter around the globe.

According to the organizers Bauma 2013 attracted a remarkable 530,000 visitors from over 200 countries and 3,420 exhibitors on a total exhibition area of 570,000 square meters at the Messe München Exhibition Center.

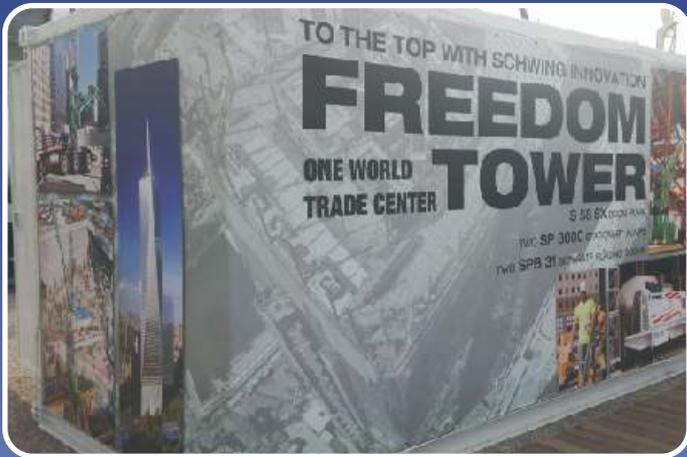
During this seven day event Schwing Stetter benefited from huge recognition, with a large number of existing and potential customers coming to check out the company's complete concreting machinery range.

Schwing Stetter is pleased about an extremely successful event by drawing a very positive conclusion. During the exhibition, customers from all around the globe visited Schwing booth and experienced complete solutions for concreting world.

The constantly enhanced product quality and continuously optimized after-sales service are the most effective approach that have made Schwing Stetter a global brand. Schwing Stetter would also like to thank each one of you, who were able to visit our booth and make our presence at the event successful.



BAUMA 2013 - MUNICH



The 40th IFAWPCA Convention 2013



The 40th International Federation of Asian and Western Pacific Contractors' Associations (IFAWPCA), Convention, an international event was staged in Kochi, India between 6th and 9th January 2013. Schwing Stetter India was the principal sponsor of the event, which provided tremendous opportunity for the construction industry including builders and contractors from 16 countries..

The 40th IFAWPCA Convention was held after a long spell of 22 years in India at Gokulam Park Convention Centre, Kochi providing a unique platform for the construction industry by bring together 1000+ delegates from 16 member countries. In connection with IFAWPCA convention, an outdoor and indoor exhibition was also arranged to bring together products & services of various brands in the industry.

The theme of the 40th IFAWPCA Convention was harnessing emerging technologies to ensure 'Responsible Infrastructure' in an inclusive, socially responsible and eco-friendly manner, be it public transport systems, buildings or housing complexes. During the event Schwing Stetter India showcased India's largest concreting boom pump, along with 6 other revolutionary products.

The convention was organised by the Builders Association of India (BAI) and Schwing Stetter India shared its expertise in mechanisation of concreting and also presented its various products and services during this event. The convention was meant to encourage the collaboration among neighbouring contractors and builders for better trading environment in construction industry.



The 40th IFAWPCA Convention 2013



Mr. Hubert Merkl
Director Sales & Marketing - Schwing GmbH



Mr. Anand Sundaresan
Vice Chairman & Managing Director - SSI



Mr. V.G Sakthi Kumar
Whole-time Director - Operations - SSI



Project Abroad

Pumping Flat Out in Panama

With 24/7 scheduling, concrete pumping is playing a crucial role in completion of the Panama Canal expansion. Harsh mixes and high temperatures provide challenging conditions that are being met with four Schwing concrete pumps on a project that will consume more concrete than any other structure in the world. More than 6.2 million cubic yards will be placed when the project is completed in 2015. A consortium of contractors, Grupo Unidos por el Canal (GUPC), is constructing new locks on both the east and west entrances to the Canal. The locks will measure 1,400-foot long, 180-foot wide and 60-foot deep and will be able to accommodate larger container ships. Total cost for the expansion, including widening existing channels, is estimated at \$5.25 billion dollars.

The canal today has two lanes, each with its own set of locks. The expansion project will add a third lane at both ends of the canal. Each of these new lock complexes will have three consecutive chambers designed to move vessels from sea level to the level of a large artificial lake that forms a major part of the Panama Canal. Each chamber will have three lateral water-saving basins, for a total of nine basins per lock and 18 basins total. The new locks and their basins will be filled and emptied by gravity, without the use of pumps.

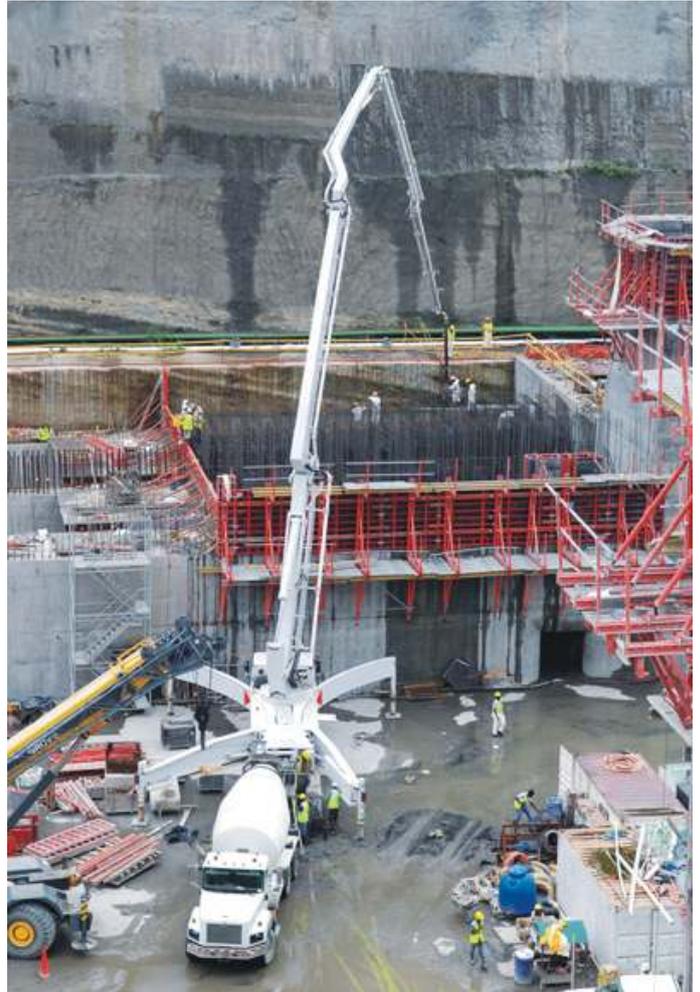


The new locks are being constructed using two different concrete mix designs, a Structural Marine Concrete (SMC) and an Interior Mass Concrete (IMC). A typical concrete section consists of an IMC core with SMC facing. The SMC

facing is typically 24-inches thick while the IMC varies. A lock wall monolith

is approximately 60-feet wide, 100-feet high and 95-feet long. Each lock wall

monolith contains two 20-foot tall culverts for filling and draining the chamber. The monoliths require 232 -tons of reinforcing steel and 3,400 cubic yards of concrete each. A total of about 50 of these massive concrete structures make up each lock chamber.



Working on the eastern locks are four Schwing concrete pumps – a 32 XL, two S 52 SXs and an S 58 SX. According to Jorge Puello Echeverri, GUPC supervisor of concrete pumping operations, “All the pumps are doing well. We are getting 120 yards per hour working twenty-two hours per day with multiple set-ups. The long booms are equipped with the 2525H pump kit with the Big Rock which is well suited to the application.” Filling efficiency of the large diameter 10-inch pumping cylinders is facilitated with the Big Rock’s extended hopper to handle 1.5 to 3.0-inch aggregate which is specified in some of the mix designs. All of the boom pumps are equipped with five-inch (125 mm) pipeline.

Despite the massive scope of the project, job-site conditions are congested. The S 52 SX and S 58 SX are well suited to the fast set-up in confined spaces with Super X outriggers that can telescope out obstacles on the site. Agitator trucks and conventional truck mixers feed the pumps from on-site batch plants that feature customized aggregate cooling systems, that are necessary to control the exothermic heat generated during the concrete curing process. Average ambient temperatures are in the mid 80s and the concrete must be between 48 and 54-degrees F when it is placed. To accomplish this, the aggregate stockpiles are protected from the tropical sun by a massive tent. The sand and rock are water cooled before being transferred to an air-conditioned bin. Flake ice is introduced to the mix on the main feed conveyor allowing it to remain chilled as it is transported by the agitator trucks.



“The versatility of a concrete pump on a mega-project like this is essential to production,” according to Echeverri, “The five section booms on the S 52 SXs offer the articulation to reach everywhere, whether on the floor of the lock reaching out or placing up on a wall.” The overhead Roll and Fold boom design features a 270-degree articulating tip section which offers maximum versatility especially when combined with the main section’s 180 degrees of working range. Operators can coordinate the movements of the main and tip sections, which combine for 450 degrees of articulation, to navigate over and under obstacles to reach further into tight spots. The 5-section boom has 990 degrees of total articulation and up to 170’7” of vertical reach. The S 58 SX with reach of 187’9” from its 4-section Overhead Roll and Fold boom is sharing the majority of the work with the 32-meters filling in on smaller pours.



Another challenge is working in a remote area where reliability is paramount to the continued progress of the massive pumping project. All of the Schwing concrete pumps are equipped with Vector controls which allow two-way communication between the pump and operator. In addition to continuous reporting of vital data to the operator, the Vector system also tracks the total number of hours of operation for the concrete pump and boom, the number of strokes, stroke rate and pumped volume. In addition it tracks usage hours for the agitator, vibrator and oil cooler. This data is automatically stored and easily retrieved for analysis. “This allows us to predict maintenance based on monitoring flow and pressure during concrete placement operations,” according to Echeverri, “The Vector has become my right hand to take the first step in making diagnoses and I am convinced that it is a vital tool for maintenance. Because our personnel live and feel the concrete placement operation, the Vector creates a harmonious link between operator and technician and our maintenance method is based on a logical procedure.”



In the harsh, demanding conditions of the rural Panama Canal environment, where it rains every other day and concrete pours can extend beyond 24 hours of continuous operation, Echeverri has a slogan – our lack of resources is supplemented with human quality...and reliable equipment.

Product Focus

S43



S43 Boom Pump

Schwing Stetter redefines standards in the 40 m class with its S43SX truck-mounted concrete pump. Schwing RZ boom design combines the "Roll and Fold" boom with a Z-fold boom at the tip to offer 270 degree flexibility at the last boom section. The boom folding system also enables concreting work right up to the vehicle bumper. With an overall length of less than 12 m on a standard chassis this compact boom package does not extend beyond the machine's outlet.

With the 270-degree Z-fold section at the tip of the boom, operators have a myriad of options for placement while shooting concrete up to 42.3 meters vertically, and 38.1 meters horizontally. The S 43 SX has an unfolding height of 8.7 meters for those low overhead situations and a slewing range of 740 degrees to suit many job site requirements. Its pipeline is a full DN-125 mm diameter.

The S43 SX front outriggers extend along an arc, do not have to be swivelled or telescoped and can fit into even the smallest gaps at the construction site thanks to their low height that saves space and time. S43 SX outriggers are designed to be compact, with a fast set-up time. It requires an 8.3m outrigger spread (the spread is the same, front and rear) for maximum stability. The standard Schwing Remote Control features twin joysticks for proportional boom control and pin-point accuracy.

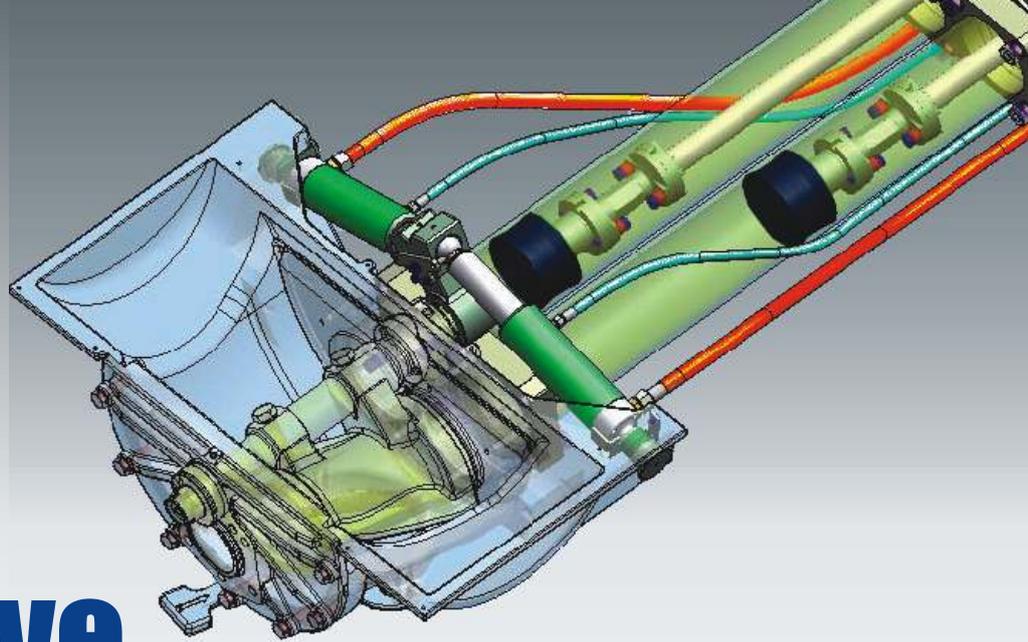
In addition, Schwing's Vector control is the only system providing two-way communication between the pump and the operator.

The "Generation 3" concrete pump is a low-maintenance, 164 m³/hr unit that provides long, slow-stroking action. The all-hydraulic design utilises Schwing Big Rock Valve, promoting maximum filling efficiency of the material cylinders even with harsh mixes.

An open circuit design provides continuous hydraulic oil flow for fuel efficiency, filtration and cooling. The S 43 SX can do infrastructure work, light commercial projects and bridges. In conjunction with the DN-125 pipeline, contractors can perform high-volume pours or provide a slow delivery with infinite volume control. A 600 liters water tank on the unit helps with clean-up at the yard or on the job site. Consistently lightweight design makes this machine a universal and flexible long-boom pump - both for medium-sized operations in downtown urban areas and on large construction sites.

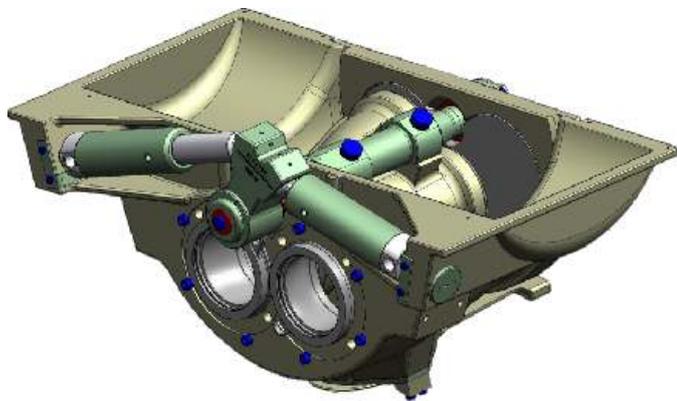


Schwing Rock Valve



The Schwing Rock valve has proven itself over many years and in countless applications to be the epitome of economy in the world of concrete valves. The rock valve is patented by Schwing and it powers majority of pumps manufactured by Schwing.

The valve system has several advantages which has made it as a favourite of contractors worldwide. The Rock is robust and easy to service. It is subject to natural wear when pumping concrete and can then be rebuilt with hard-face welding, which makes it multi-economical.



Lower Cost

All concrete valves reduce from inlet to outlet but the rock body increases in size. The outlet, is engineered to be smaller than the inlet, so it is theoretically a reduction. Concrete, being a fluid takes the path of least resistance. So the combination of a larger body and a smaller outlet causes concrete to flow along the path of least resistance, rubbing against concrete and not against metal, which causes lower wear per cubic metre.

Periodic Hard facing makes the valve last forever

The main advantage of the rock valve is its ability to be hard faced completely, internally. The design of the rock valve enables this, while the design of other valves prevents this. This means that the Rock can be completely rebuilt periodically resulting in the valve becoming good as new again.

Fuel Saving

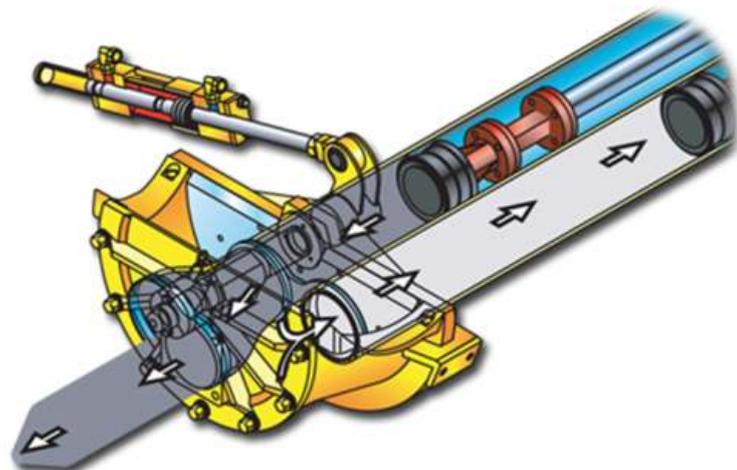
This valve system is completely free of internal restrictions. The lack of internal resistance also contributes to a smoother flow of concrete and this free flow utilises lesser fuel as well, for concrete pumping.

More Power and Balance

The Rock valve is perfectly balanced along its neutral axis. This means that lesser vibrations are transmitted to pumping. This is especially visible in the case of boom pumps. Where other pumps are seen literally swinging, Schwing pumps are more stable, thanks to the Rock and the outrigger system.

The large body design also helps develop more force to the concrete flow which results in concrete being pumped higher or further utilising lesser fuel. Thus, we can see that the rock valve is a far superior system and this fact has been proven on countless sites worldwide.

All Schwing Stetter pumps are now available with the next generation RL Rock Valve that has been made after years of study in the behaviour of concrete mixes.



Concrete Pumping Safety

STATIONARY PUMP POSITIONING - SAFE Procedure

Before laying pipe line or pumping the concrete, the machine stability is very important. To have good stability and safety, track the following steps.

- Place the pump in a good, hard, flat and leveled surface
- The front and rear jacks can be operated manually when the locking pins are released.
- With the help of the screw jack, lift the front portion and release the locking pins of the two front jacks and lock it again with pins after setting up.
- Now release the screw jack and loosen it. Set up the two rear jacks and lock it again with pins.
- Make sure the tyre is above the ground level not more than a few inches.

PIPE LINE, COUPLINGS & END HOSE

The most important stage in concrete pumping is the setting up of the pipeline. To ensure the safety of pumping, we have to adhere strictly to the following check list.

- The highest pressure is developed near the concrete pump outlet. Know the concrete pressure and operating pressure.
- Install only new delivery lines close to the pump where concrete pressure is at its highest.
- Check whether the delivery pipe lines are suitable for the application, using a wall thickness gauge.
- A pipe line thickness which is worn out more than 50% should not to be used.
- Tapping with hammer is not recommended as it leads to dent causing rapid wear and bursting.
- Never carry out welding on the pipe lines. No fabricated or reconditioned pipe line should be used.
- Use enough support brackets and tighten rigidly. Anchor the pipe lines adequately. The support bracket should be located near the coupling to eliminate the possibility of too much weight or mechanical movement at the joint
- Never hold the end hose prior to concrete delivery as there is a possibility of hose whipping.
- Avoid longer end hoses than the prescribed ones. The long end hose can be bent too much, which will lead to blockage of concrete or an accident. They also tend to whip too much.
- Never kink the concrete hose. The kinks in the concrete hose may straighten up violently during pumping.



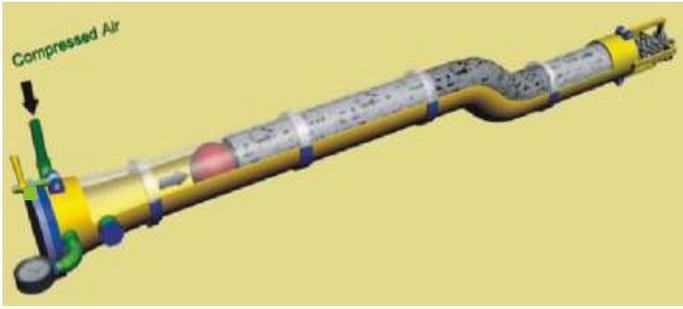
- Never beat the concrete end hose with hammer or any other object. The impact can cause damage to the reinforcing material, which may not be visually apparent, but could cause a rupture the next time it is under pressure.
- Check for the end hose condition. Never use the hose with frays or breaks, with reinforcement exposed. Check the condition of both outer and inner liner of the end hose before use.
- Check the end hose condition at the coupling end for any deep cracks and make sure the hose is good enough to hold with coupling.

BLOCKAGES OR CHOKES

A blockage can happen due to various reasons like poor mix design, slump, air pockets, unclean pipe line, sharp or more bends, improper end hose, faulty couplings etc. We need to have a safety check list and the same has to be followed whenever the choking of concrete happens. Blockages increase the risk of accidents. Find out the cause of the blockage and rectify it safely.

- If a choke happens the machine should be switched for the reverse pumping for 2-3 strokes immediately.
- Again switch over to forward pumping.
- If blockages are not cleared by reverse pumping, relieve the pressure again by reverse pumping. Switch off the concrete pump and dismantle the choke up line and clean out.
- Never ever attempt to force out a blockage with compressed air.





Take the time to make sure the entire area and system is safe. Good luck and safe pumping!

CLEAN OUT

Clean up and clean out should be carried out after successful pumping of concrete. But it's probably the easiest time for the accidents to happen.

Follow these guidelines for the clean out procedures.

- Empty the delivery line and feeding hopper completely.

- Disconnect the end hose from the pipe line.
- Fix the trap basket or ball catcher at the end of the pipe line.
- Caution the personnel working in the area before the cleanout takes place.
- In compressed air cleaning method, control the concrete movement by minimizing the air pressure and volume. Since air is compressible, concrete movement can continue after the air inlet is shut off. Always use the bleeder valve in case of relieving the air pressure.
- In water cleaning method, ensure the use of good pipe couplings, leaky couplings can give away and cause serious accidents at site.
- During water cleaning, check whether the pressure gauge is working properly.
- Make sure the GO DEVILS are not damaged.
- Never clean the gate valves through outlet with bare hands. The valve can move suddenly and cause injury to the hands. Always use a tool to clean the outlet.

Photo Feature

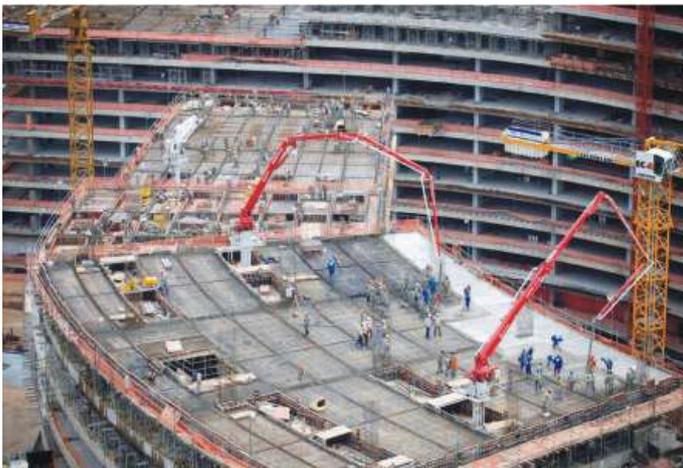
Schwing Stetter equipment in action across the world



SCHWING concrete pumps and placing booms provides for the largest hydroelectric power station on the African continent.



SCHWING concrete placing booms and truck mounted boom pumps at Grand Mosque expansion, Mecca, Saudi Arabia.



SCHWING equipments at the construction of Administrative Center Belo Horizonte, Brazil.



SCHWING concrete pumps in use at high volume concreting foundations of wind turbines in Germany.



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INDONESIA 2013
 4th to 7th September 2013, Jakarta

Over 2700 Customers Chose CP30 Plants...



CP 30 on Barge



CP 30 on Boat

They had a reason to do so.

The most reliable and opted Batching Plant – CP 30

Schwing Stetter CP 30 Batching Plants are the most reliable and opted plants in countless sites across the globe. Over 2700 CP 30 Plants are manufactured in India has been successfully working world-wide for more than 20 years. The plant is designed to meet the requirements as a mixing plant for Ready-Mix concrete or as a plant for captive use. The plants are backed by strong parts and service supports anywhere. The concrete output of CP 30 Batching Plant is approximately 30 m³ per hour of compacted concrete for a batch size of 0.5 m³. CP 30 is also used at per-cast factories and concrete product industries. The plant is available with a Turbo Pan Mixer or with a Planetary Pan Mixer for per-cast concrete production. Contact us to know more about our equipment.

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