

Shah Cement makes it to the Guinness World Records



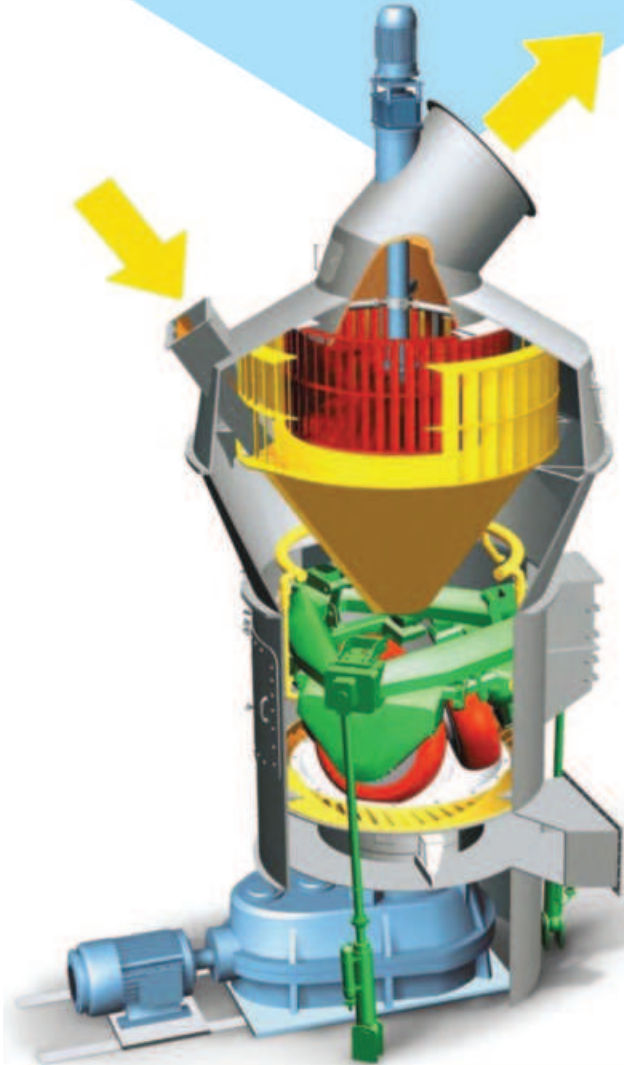
Guinness World Records has recognized the unique achievement of Shah Cement and has recorded it as the world's largest vertical roller cement mill facility.



Shah Cement advances radical development through the world's largest VRM

VRM Technology of Cement Manufacturing

For over three decades, Vertical Roller Mill (VRM) technology has been recognized worldwide for producing high-quality cement in a highly energy-efficient way. For several decades, Denmark's FLSmidth has supplied the global cement industry with leading Vertical Roller Mill (VRM) technology.



Fully Automated Process

Maximum Quality Assurance

The largest VRM at Shah Cement is automatically operated by the Intelligent Monitoring Control System. It is now possible to monitor the plant's production processes from a single vantage point with the help of a computer panel. It gives more control to monitor and evaluate each stage of the production, allowing to properly coordinate the quality of the cement produced. This ground-breaking technology ensures consistent and uninterrupted production of high-quality cement.

Intelligent Knowledge Solution

High run factor

The world's largest vertical roller mill is equipped with a built-in knowledge solution system. Start panels reveal any problematic issues when the machine boots up. Built-in tools in the knowledge solution system have been programmed for the resolution of common problems that the machine may encounter. The problems can be resolved with no manual interventions which ensure a high run factor.

Ultra-modern Grinding Rollers

Perfect mixture of components

The largest vertical roller mill in the world is also equipped with state-of-the-art grinding rollers. The grinding rollers have internal and external grinding zones. The rollers ground the raw materials under extremely high pressure converting the raw materials to finely-grinded particles evenly shaped and distributed to the mixture.

Multi-compartment silo

Diversified and customizable products

The industry now facing increasing demands of diverse compositions of high-quality cement for different mega projects. The newly introduced 'multi compartment silo', together with the largest VRM in the world, will be able to produce cement of different compositions according to the different requirements in a much more efficient way.

Maximum Production Capacity

Smooth delivery on demand

Shah Cement is the Superbrand of the mega projects of Bangladesh. The demand for cement is only set to rise in future. With an 8.08-meter grinding table and six grinding rollers this facility can produce 15,000 tons of cement every day, amounting to 60 lakh tons cement annually.

For more than 15 years, Shah Cement has been recognized as the top cement brand in Bangladesh. Shah Cement became the highest-selling cement in its first year of production itself. And every year, its leadership position in the cement industry is getting stronger. Its long-term success lies in maintaining the high quality of the product combined with the latest technology.

The country's largest-selling cement brand has always led the way in new innovations. The newest addition to their efforts is the world's largest vertical roller mill (VRM). With this VRM, the name of Shah Cement and Bangladesh has risen to the Guinness World Records page. This is a remarkable feat and a new milestone for the cement industry of Bangladesh.

The grinding table diameter of this vertical roller mill is 8.08 meter and the roller diameter is 2.64 meter. This VRM is capable of producing 15 thousand tons of cement every day, 60 lac tones annually. Guinness World Records has verified and documented the VRM as the 'Single largest VRM in the world'.

In addition to ensuring the high quality of cement, VRM technology has been applauded globally for more than three decades because of its energy

efficiency. FLSmidth, A well-reputed Danish engineering company headquartered in Copenhagen, has provided the technical know-how to establish this new facility. The state of the art VRM is equipped with the latest advancement in digital and Artificial Intelligence (AI) technology. Though the VRM technology was in use at limited scale, such a large-scale implementation is first in Bangladesh.



In order to accelerate its progress, Shah Cement decided to invest in the world's largest VRM. Close cooperation between FLSmidth of Denmark's and Shah Cement of Bangladesh has made the largest vertical roller mill in the world a reality.

The VRM is significant not only because of its large size or capability of large-scale production, but also for its unique 'Intelligent Monitoring Control

System', through which the entire process is monitored from a central computer-controlled panel. As a result, the quality of the cement produced will be superior and at the same time, different levels of production can be adjusted appropriately. The Artificial Intelligence (AI) behind this VRM can solve problems by itself with built-in tools if any problems arise in the production process.

A multi-compartment silo, has been added to the vertical roller mill facility of Shah Cement which will enable production of customized and specialized cement for different mega projects.

Shah Cement is the number one choice of individual home-builders, and also one of the preferred brands for the mega structures of the country. With the new multi-compartment silo, Shah Cement will be able to ensure steady supply for home builders and for the mega projects.

This VRM, the largest in the world, will play an important role in Bangladesh's housing and infrastructure development. With the recognition of Guinness World Records, Shah Cement has taken Bangladesh to a new height.

With trust, comes the responsibility

Shah Cement is a brand built on trust. For more than 15 years, the highest number of people have trusted Shah Cement to build their home. The unwavering trust of our customers inspired us to dream big for the brand and for the country.

When we were planning for capacity expansion, we wanted a new facility which will not only ensure uninterrupted supply of Shah cement across the country but will also ensure consistent high quality in every bag. Considering supply to different mega development projects we needed a facility that can produce customized cement meeting the specific requirements of a mega project.

Shah cement partnered with FLSmidth to bring the world's largest and the most advanced vertical roller mill for cement manufacturing in Bangladesh. With the help of its Artificial Intelligence (AI) enabled technology, we are now even more confident about the consistent high quality in every bag of Shah cement. We are happy to honour the trust of our customers and proud to fly Bangladesh flag high with a Guinness world record initiative.



Naushad Chowdhury  
Director, Brand Marketing  
Abul Khair Group



Hafiz Sikandar  
Director Operations  
Shah Cement  
Industries Limited

While responding to the Shah cement brand vision to provide most consistent high-quality cement, we knew that it is only possible with a major technology leap. We decided to partner with FLSmidth who has more than 40 years of experience in the field. Recently they have made significant design improvements featuring six rollers and has incorporated latest advancement in the field of Artificial Intelligence (AI). The Intelligence Monitoring Control System evaluates every stage of production process from a central computer panel. If any operation in the machine encounters a problem, the Artificial Intelligence will be able to identify the problem and solve it with its built-in tools. This superior technology largely eliminates chance of a human error.

Another important aspect of the new Shah cement facility is the addition of a multi-compartment silo. This will give us the flexibility to ensure steady supply of customized cement formulations to the exact requirement of mega projects without disrupting normal production. We are proud to introduce the world's most advanced cement technology to Bangladesh market.

Technology leadership is critical for consistent high quality

Rigorous Quality Assurance

High Run Factor

Long-term service

Ultra-modern Grinding Rollers

Easy to Operate

High Quality Parts

What sets OK(81-6)<sup>TM</sup> mill apart?

FLSmidth has supplied the global cement industry with leading Vertical Roller Mill (VRM) for cement grinding for several decades. The OK<sup>TM</sup> mill has been FLSmidth's standard cement VRM since 1993. Since its introduction, the OK<sup>TM</sup> mill has proven to be the most efficient cement VRM available, with the highest reliability and ease of operation. FLSmidth has introduced the OK(81-6)<sup>TM</sup> mill designed with the same proven technology and modular design.



OK(81-6)<sup>TM</sup> mill at Shah Cement combines the latest in Technology

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"Cement production in plants has increased manifold in recent times. In order to meet this increasing demand of high-quality cement, FLSmidth built the OK<sup>TM</sup> mill," Soren Holm, Vice President of FLSmidth Global Cement Technology says. The OK<sup>TM</sup> mill has been their standard cement VRM since 1993. Since its introduction, the OK<sup>TM</sup> mill has proven to be the most efficient cement VRM available, with the highest reliability and ease of operation. He says, the team is constantly developing the existing features of the machine; furthermore, they are also bringing innovations to the structure after consulting with industry experts.

After successful commissioning of the new VRM in Bangladesh, he says that the OK (81-6)<sup>TM</sup> mill at Shah Cement is the largest single-unit mill of its kind in the world. The machine at Shah Cement is equipped with the most modern technology. The operating system is fully automated, while built-in tools have been programmed with solutions to resolve common problems that the machine may come across. The machine is capable of solving these problems without any manual interventions, and this is the first of its kind self-reliant machine in the cement industry of Bangladesh. With these advancements, Shah Cement can truly ensure the highest quality cement production.

Shah Cement in Guinness Records

