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FormworkPress

Professional Formwork News **XI/2024**

Growing at a rapid pace

City Tower One in Dubai – page 6

Contents

Imprint

Site photos show situations which do not always depict the final assembly of formwork with regard to safety regulations. Imprint: Edition XI/2024. Publisher: MEVA Schalungs-Systeme GmbH, Industriestr. 5, D-72221 Haiterbach. Layout: MEVA.

"Whether it's a residential or a commercial building, a skyscraper or an infrastructure project – at the end of the day, what counts is always positive results and satisfied customers."

Florian F. Dingler,
Owner and Managing Director
of MEVA Schalungs-Systeme GmbH

Dear Readers,

The challenges that companies face when they start new projects are the same every time: punctuality, high quality, reliable implementation in line with the principal's wishes, the highest degree of safety, and cost-effectiveness through time savings. Every day on construction sites around the world, a huge number of processes and tasks need to be performed at the same time and perfectly coordinated.

Besides the skilled personnel required to perform this work, the choice of the best partner for the formwork plays a decisive role. After all, without suitable products that are safe, efficient and easy to use, the progress of the construction work can stall and thus put the entire schedule at risk. Hence, it pays to rely on an experienced partner who not only offers high-quality formwork system and bespoke services, but also addresses individual requirements in a flexible manner and provides advice as a reliable partner. Whether it's a residential or a commercial building, a skyscraper or an infrastructure project – at the end of the day, what counts is always positive results and satisfied customers.

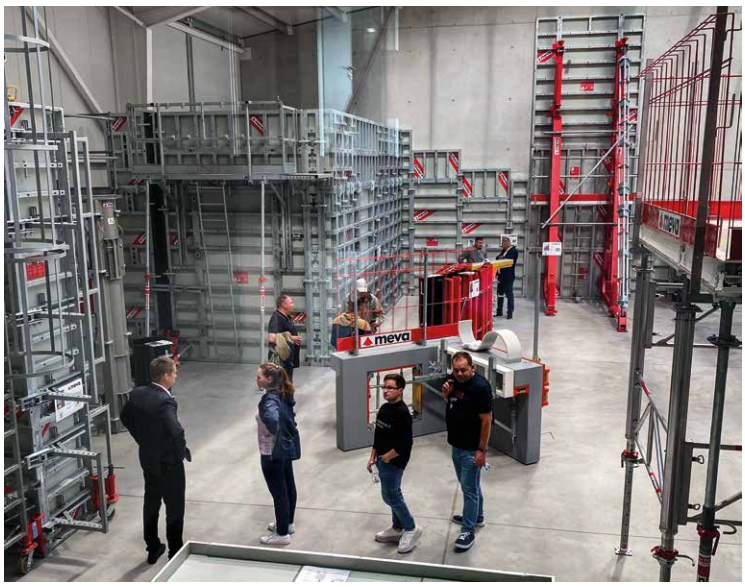
In this issue of FormworkPress you can read about how we impress our customers with our performance. This runs like a golden thread through several projects – from the construction of City Tower One, a 358 m high skyscraper in Dubai (page 6) to the largest infrastructure project in northern Europe (page 10) and a commercial building in India (page 12) to the simple use of the new monolithic formwork MonoWall in the Caribbean (page 16). The construction companies have performed their work successfully to the satisfaction of the principals and know that they can rely on us.

At the end of the day, everyone profits from construction sites without unnecessary delays and frustrating situations and where the final result is a resounding success. That's the way things should be.

Enjoy your read.

News

Information about MEVA



Modern formwork centre

The MEVA Open Days held at the new Hungarian site in Dunakeszi on October 9-12 were very well attended. More than 200 guests came over the four days, including representatives of major Hungarian construction companies.

The visitors took the opportunity to see the state-of-the-art, resource-saving processing technology – from cleaning and repair to storage processes. The new automatic grinding machine was also on display. Last but not least, the new AluFix columns panels (see page 5), the VarioMax support system and the used formwork offered for sale generated a great deal of interest.

The new MEVA formwork centre on the outskirts of the capital Budapest offers logistical advantages, synergy effects and potential in the technology and sales fields. Customers in neighbouring countries such as the Metropolitan Region of Vienna in Austria will also benefit from this new centre.

New plant in Haiterbach

A new factory at MEVA's headquarters in Haiterbach, Germany, was officially opened with a craftsmen's party after 15 months of construction work. Production in special formwork construction, pre-assembly, cleaning of large parts, fixture construction and an area for trainees have found a modern home in the 2,500 m² hall.

500 m² of floor space is reserved for friendly social rooms and modern offices. The employees have excellent working conditions. The merging of two spatially separate plant areas has also paid off in terms of simplified work processes and efficient logistics.

The factory building was designed with exposed concrete walls and skylights at the ridge. Like the other MEVA plants in Haiterbach, it is also equipped with a powerful photovoltaic system and electricity storage units. Thanks to this expansion MEVA now produces more electricity in Haiterbach than is needed in the German subsidiaries in Stuttgart, Munich, Schwerte, Hannover and Berlin.

Practical tip

Form columns flexibly using AluFix CP

The new column panel (CP) transforms the lightweight, crane-independent AluFix formwork into an all-in-one system. Besides walls and slabs, the user can now also precisely form column cross sections of up to 60 x 60 cm. AluFix CP panels are available in the heights of 150 cm and 300 cm.

Due to the identical tie hole positions, they can also be used as standard AluFix panels. The tensioning screw AF/EF 15 with articulated flange nut is also used to connect two panels to an outside corner. It doesn't get more flexible than that!

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Simply smart

→ **Performance**
- Columns: Permissible fresh concrete pressure over full surface 75 kN/m² with four tie rows when used with push-pull prop and shoe plate 23
- Regular: 50 kN/m² with three tie rows

→ **Flexibility**
- Column panels can be used as regular AluFix panels
- Columns with cross-section in increments of 5 cm to max. 60 cm
- Crane-independent; 20.70 kg/m²

→ **Smart multi-functional profile**
- Features welded-in DW-15 nuts
- All accessories, e.g. brackets, push-pull props and alignment rails, attached with MEVA flange screw

→ **Product design**
- Centre-punched, rear side panel facilitates manual drilling on site
- High-quality alkus all-plastic facing with long-term, seven-year warranty
- Special alkus plug closes the drilled anchor holes with the same material and flush with the surface
- Articulated flange nut for inclined panels and less wear of panel coating
- High-grade powder-coated finish with easy-to-clean surface
- Shoe plates for easy anchoring and preventing formwork uplift

One floor per week

City Tower One in Dubai growing at a rapid pace

The impressive skyline of Dubai has been enriched by a 358 m high skyscraper. MEVA climbing systems and formwork made an important contribution in keeping to the tight schedule in the construction of City Tower One, with office space and 600 residential units on 93 floors.

MEVA had already established a base in Dubai in 2008 and contributed to the construction of the world's tallest building to date, the Burj Khalifa, with its MevaDec slab formwork. Since then, many important projects in the Emirate have been successfully realised with solutions from the Black Forest-based company, such as the well-known Museum of the Future. On the other side of Sheikh Zayed Road, City Tower One rose rapidly into the blue sky.

The construction company Dubai Contracting Company L.C.C. (DCC) specialises in high-rise buildings with climbing formwork. After intensive discussions with a team led by MEVA UAE Sales Manager Mahmoud Siksek, the deal was finalised. DCC relied on the German formwork specialist's technology for the first time to erect the central core – the backbone of the structure, so to speak. The around 30 x 20 m core extends to the top floor and contains numerous other core walls for staircases and lifts.

MGC-H and MAC in continuous use

Two combinations of formwork and hydraulic climbing system were used. The inner core walls were erected with the MAC (MEVA Automatic Climbing) and the lightweight AluFix wall formwork. For the outer walls of the central core, the rail-guided MGC-H (MEVA Guided Climbing) formed a fixed unit with enclosed working platforms and the Mammut 350 wall formwork. This was done to prevent clashing with steel plates constantly changing locations on each floor. Mammut 350 with its

The MEVA climbing formwork enables safe and weather-protected working at height.

DCC workers and view of Dubai with the Museum of the Future (bottom right). The AluFix formwork can be seen on the left.

minimum ties/sqm. was introduced to the mix to minimise tie clashes on outer walls. The modular climbing system is being used on this project as a complete system with three working levels mounted one above the other. At the customer's request for high flexibility, MEVA planned and divided the entire climbing system into four independently climbable L-shaped units. This means that each corner could be climbed individually depending on the construction progress. In this way, even faster construction progress could be achieved. MGC-H and MAC have proven themselves worldwide in numerous high-rise buildings through a high level of safety and rapid construction progress.

All climbing units were safely and conveniently installed on the ground, erected by crane at the end of April 2023 and suspended from the lower concreted walls. In July 2023, the 12th floor of the central core was concreted, and exactly 12 months later, 70 floors were finished. This means 58 floors were completed in one year.

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Project data

→ **Project**
- City Tower One, Dubai (UAE)

→ **Contractor**
- DCC (Dubai Contracting Company L.L.C.)

→ **MEVA systems**
- MGC-H and MAC climbing systems
- Mammut 350 and AluFix wall formwork

→ **Engineering and support**
- MEVA Schalungs-Systeme GmbH, Haiterbach, Germany
- MEVA Formwork Systems, Singapur
- MEVA Formwork Trading L.L.C., Dubai

... continued from page 7

"One floor per week was the target," explains MEVA engineer Stefan Kappler, who is delighted that this was achieved early on in the project and has since been exceeded – most recently, more than six storeys per month were being built. Kappler is a member of the Central Application Technology team at MEVA's headquarters in Haiterbach and, together with his colleague Jochen Stoss, is responsible for coordinating this project, which was outstanding in the truest sense of the word.

Work on the core was completed on time in October 2024 and the MEVA systems were dismantled.

Three teams working closely together

City Tower One was an interdisciplinary pilot project for MEVA. The time factor was challenging, which is why the tasks were divided between three MEVA working groups: Kappler's team was responsible for the MGC-H application; colleagues in Singapore were in charge of MAC use; and MEVA Gulf based in Dubai was mainly responsible for the

formwork planning. The time span from receipt of the order to delivery on site was short, but the three teams quickly networked.

The climbing formwork was assembled 24/7 on the construction site. As DCC had no previous experience with MEVA, the construction teams on site were intensively supervised and trained by MEVA supervisors. They were soon able to work independently. MEVA's method statements – step-by-step instructions for the safe use of the technology – also provided support.

Successful with customised solutions
Constantly changing wall thicknesses of between 80 and 30 cm and several projections and recessions have made the construction of the central core a highly technical challenge. The background to this is that the walls have a thicker concrete belt in three sections covering four floors each for statics reasons (floors 22-25, 45-48, 69-72). This means that the walls must alternate between jumping inwards four times (by 5, 30, 35 and 40 cm) and outwards three times (by 15, 25 and 30 cm). The most complex jump from 50 to 80 cm wall thickness was mastered on level 69.

The jumps not only affect the distances between the working platforms, where gaps of up to 40 cm are bridged quickly and flexibly using flap solutions. The preparatory work was much more complex. MEVA's department for special formwork design developed glide shoes for the MGC-H rails, which are used when the climbing formwork is lifted away from the wall and upwards by crane. The sliding shoes, in which the vertical MGC-H beams are fixed, can be pushed away from the finished concreted wall to the desired distance by means of an arm. The climbing formwork remains connected to the structure at all times and is permanently guided. Specially manufactured threaders slide up with it and thread themselves into the shoe on the next level.

There was not enough space between the wall of the central core and an inner wall for the approximately 3 m wide working platforms of the MGC-H. Here, MEVA found a solution with customised brackets and compact working platforms that allowed the reinforcement to be put in position in comfortable and safe working conditions.

A technical masterpiece

Fehmarnbelt Tunnel will connect Denmark and Germany

The Danish island of Lolland and the German island of Fehmarn in the Baltic Sea are separated by the Fehmarn Belt strait. But now the countries are set to be connected by a 18.1 km long underwater tunnel. While the Femern Link Contractors (FLC) consortium is responsible for overall construction, MEVA is heavily involved in the megaproject through providing products and services.

As northern Europe's biggest infrastructure project, the world's longest immersed tunnel and longest combined rail and road tunnel, the Fehmarn Belt fixed link is a superlative-defying structure. Four separate passageways – two for cars with two lanes each, and two for trains, plus a service passageway – will cut the travel distance between Copenhagen and Hamburg by 160 km and the travel time by two hours. The journey between the tunnel portals at Rødbyhavn and Puttgarden will be ten minutes by car and seven by rail. Scheduled to open in 2029, the tunnel is designed for a minimum service life of 120 years.

Construction method

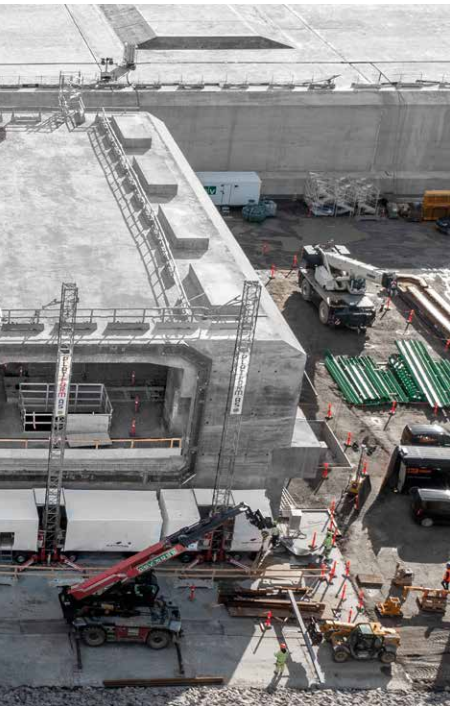
In all, 89 precast concrete tunnel sections are due to be cast directly in the newly created production facility on the Danish side (Rødbyhavn) on six production lines that are fed by two purpose-built concrete batching plants. After curing, the tunnel sections are driven out on concrete rails, parked in one of three dry docks and sealed with steel bulkheads. The dock is flooded and the now floating tunnel elements carried out to sea by tugboats, lowered and joined together on the seabed. A technological masterpiece.

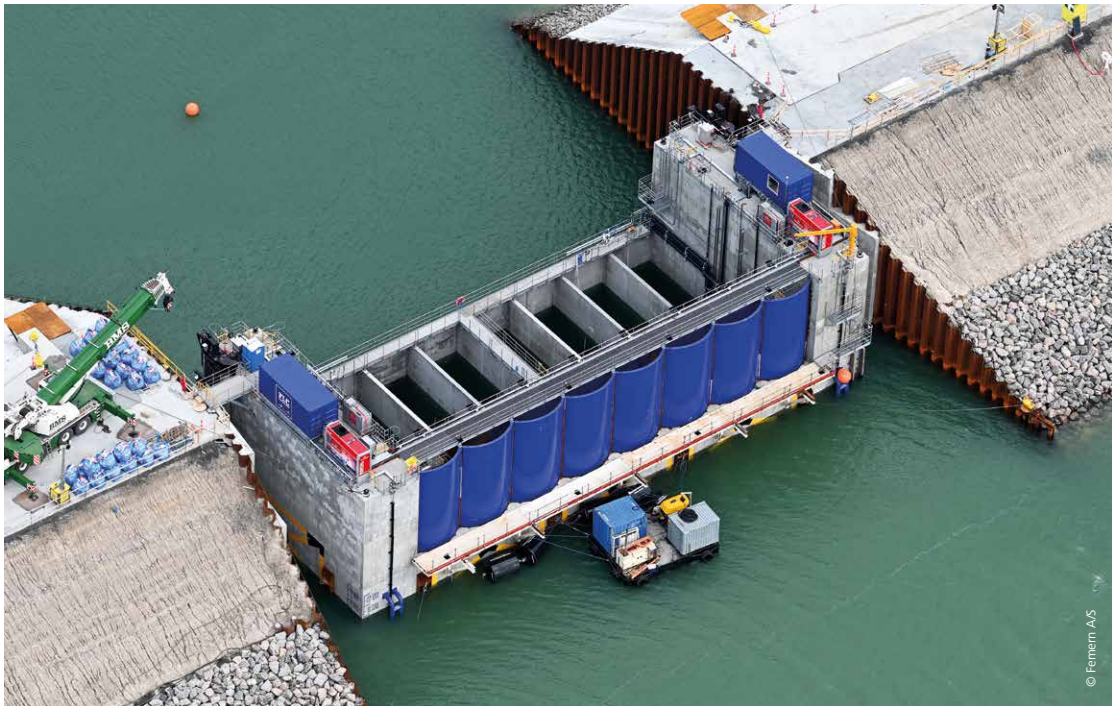
79 standard elements are assembled from nine segments each 24 m long and 42 m wide. Placed at regular intervals between the standard units are ten impressive special tunnel elements to ensure the safety of tunnel operations.

→ **MEVA's involvement in this project**
- Ten special tunnel elements
- Six abutments for three dry docks
- Floating gate

Special tunnel elements

The ten special tunnel elements (SPEs) are being cast on production line 6 with the help of MEVA formwork expertise. These service elements with a length of 39 m are both wider (45 m) for stopping bays and higher (13 m) with an additional basement level to house the mechanical and electrical (M&E) installations for tunnel operation and maintenance. To ensure exact alignment of the carriageways and tracks, these SPEs – each weighing 21,500 tonnes – must be positioned correspondingly lower in the seabed. They are cast in three sections (in casting pits) with formwork assembled by MEVA and its project partner Rúbrica: first the bottom trough, then the internal walls and slab for the M&E level along with the internal walls of the





Above, from the left: The work harbour with six production lines and three dry docks. – A special tunnel element (SPE) is driven out to the dry dock. – The floating gate with eight chambers in one of the three dry dock portals with 21 m high abutments.

Right: The two passageways for trains can be seen on the right and one of the cars passageways on the left. An additional basement level below houses mechanical and electrical installations for tunnel operation. Each SPE is approx. 45 m wide, 39 m long, 13 m high and weighs about 21,500 t.

upper level for the roads, track and service shaft, and finally the upper external walls and slab.

Abutments for dry dock portals

Three dry docks serve to link the production area with the open sea. They can be drained or flooded to a level of approx. 20 m to allow for floating and up to 45 m wide tunnel elements to be tugged through the 50 m wide portals into the sea. The six abutments for the three dry dock portals were constructed using MEVA systems that included MT 60 shoring towers, JumpForm climbing formwork and specially designed assemblies.

Floating gate

A floating gate fits exactly between the abutments to allow drainage and flooding of the docks. It is positioned in the dock portal by tugboats and, fitted with four heavy-duty pumps, serves to pump seawater into or out of the dock via eight chambers. This operation takes five days. The mobile gate is used to alternately close off the portals to the three dry docks, depending on the particular production line from which finished elements are available. Like the dry dock abutments, the 50 m wide, 21 m tall and 6,000-tonne floating gate was manufactured several months in advance.

A Solitaire in Pune

The new MonoDec slab formwork system and others show their strength

A modern office complex with 32 floors and a standard height of 3.6 metres per floor has been built in the western Indian metropolis of Pune. The Solitaire Business Hub 3 high-rise project has a total floor space of 53,000 m².

The renowned construction company Millennium Engineers & Contractors Ltd. used a total of 1,212 m² of MonoDec slab formwork elements, while the walls were constructed using 92 linear metres of the MSC 240 climbing system, 830 m² of MEVA Beam System (MBS) wall formwork and a 75 m² shaft platform. The site team led by Project Manager Vijay More and Senior Manager Formwork Ravindra Patekar achieved fast construction processes with the help of the efficient and economical MEVA systems. The concrete surfaces have turned out impressively smooth.

Project Data

→ **Project**
- Solitaire Business Hub 3, Pune, India

→ **Contractor**
- Millennium Engineers & Contractors Ltd., Pune

→ **MEVA systems**
- MonoDec slab formwork
- MBS wall formwork
- MSC 240 climbing scaffold
- Shaft platforms

→ **Engineering and support**
- MEVA Formwork Systems Pvt. Ltd., Navi Mumbai, India

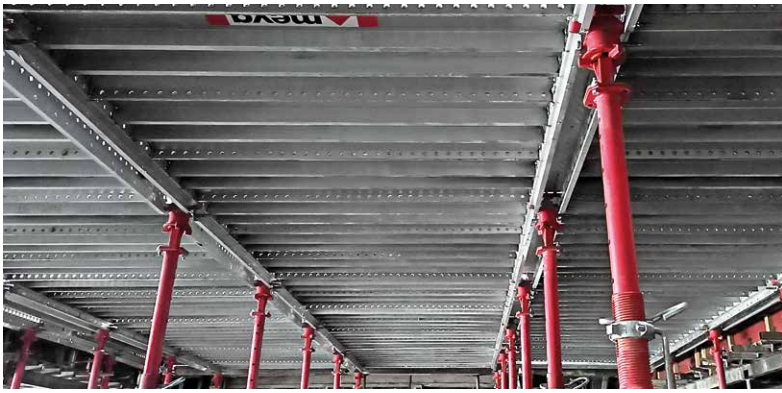
Slab formwork with MonoDec
Each complete prestressed slab was erected in an average of ten days using MonoDec slab formwork, which MEVA specifically developed for the needs of emerging markets such as India. The formwork system with drop head, beam and panel methods allows for an early stripping procedure and optimised material use. It can be used for any building geometry and provides a high-quality concrete finish for beams and slabs.

MonoDec: light and robust slab formwork
- Fast and simple assembly by hand
- No crane required
- Permissible slab thickness: 20-44 cm
- Durable and lightweight
- 100% recyclable
- Easy to clean, reduced concrete adhesion
- Impervious to moisture, no fungal decay
- No corrosion, long lifespan
- Superior and consistent concrete finish

MBS and MSC 240 for the lift cores
With 830 m² of MEVA MBS wall formwork in combination with the MSC 240 climbing system and 75 m² shaft platforms, the walls of the lift cores were erected in a cycle time of just five days. MBS is a high load capacity wall and column formwork system, designed to suit any layout of wall, curved or angular. Adjustable walers allow column formwork to be designed to suit a number of sizes.

The MSC 240 climbing scaffold ensures efficient and quick climbing, even under challenging ambient conditions. With its 2.4 m-wide platform, MSC 240 provides all the technical advantages of large-area formwork, irrespective of building height, with the same level of safety as on the ground. In addition to climbing, it offers a working platform for rebar fixing, formwork set-up and concrete pouring work and can be supplemented with a trailing platform to perform follow-up work. In the Solitaire project the platforms were longer and supported 3.6 m wall formwork with formwork

Above and right: The MonoDec slab formwork allows for an early stripping procedure with the use of props with the drop head beams.
Below: MSC 240 climbing scaffold and MBS wall formwork – an efficient combination for construction of the lift cores.



retraction of 750 mm to provide space for workers to execute rebar, formwork set-up and box-out work.

MSC 240 for formwork height up to 4.5m

- Adjust vertically by 10 cm, enabling formwork to be precisely adjusted as per building geometry
- Adjust formwork horizontally in increments of +/- 50 mm
- Tilt formwork back to ensure easy stripping
- Slide carriage to retract formwork by a distance of up to 755 mm to provide workers' space and to move formwork and platform to the next level by crane as a single unit
- 2.4 m platform width with 6 m maximum length for safe and comfortable work at all heights
- Perimeter protection with guard rail posts provides all-round safety for workers

Interview

Innovation and economic growth

MEVA Directors talk about MEVA and the construction industry in India

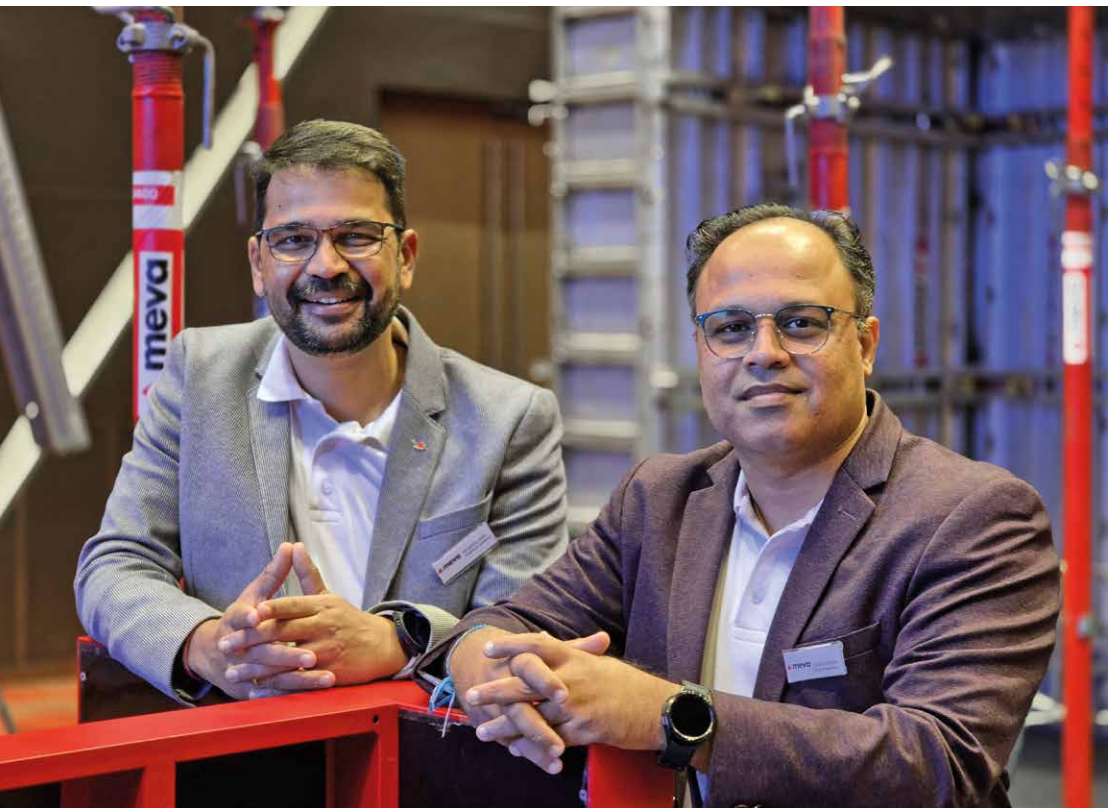
In 2009, MEVA founded a subsidiary in Mumbai. At the end of last year, **Himanshu Joshi** took over responsibility as Director Operations. Together with **Abhijit Acharya**, Director Sales and Marketing, he forms a dual leadership in the management of MEVA India. They both introduce MEVA India and the work of its 32 employees on the subcontinent in this interview.

Which construction sectors are you active in?
We are active in residential, commercial, infrastructure and industrial construction. All our products contribute to efficient project processes. Initial successes with MonoWall highlight our focus on monolithic projects. Additionally, we have also reached important milestones by winning three high-rise projects with our climbing system MAC.

Is MEVA more involved in large-scale projects or smaller construction projects?
In a market as diverse as India, where projects of all scales are thriving, we take a strategic approach to every business opportunity.

You mentioned the projects with the MAC climbing system. How does MEVA's internal cooperation work here?
Success thrives on co-operation. We work according to this principle. MAC projects are inherently challenging and require seamless collaboration between our sales, design, supply chain and site support teams. Additionaly, we are also supported by the engineers at our company headquarters in Haiterbach, Germany. The teams closely coordinated with us to plan every step of the way and ensure the smooth delivery of materials and flawless project execution.

How is India's construction industry developing?
It plays a pivotal role in our economy, contributing 8 % of GDP. Recent growth is driven by major infrastructure projects such as high-speed railways, metro expansion and new bridges. Government initiatives and affordable housing schemes are adding to this momentum, with a focus on sustainable practices and technological advancements. With increasing foreign investment, the sector is rapidly evolving and positioning India as a hub for innovation and economic growth.



Himanshu Joshi, Director Operations (left), and Abhijit Acharya, Director Sales & Marketing.

Success thrives on co-operation: The MEVA employees work according to this principle.

How is MEVA expanding its market position?
Our strategy is based on three pillars. Firstly, the customer-centred approach to enhance customer proximity and presence in Tier II cities, particularly in the infrastructure segment. We aim to engage directly with end users on-site, offering product mock-ups to provide hands-on experiences prior to purchase. Secondly, continuous innovation in market-centric products. Thirdly, we leverage digital marketing to build direct customer relationships through hyperlocal content in regional languages. These initiatives emphasise our commitment to drive profitable growth, enhance customer satisfaction and consolidate our leadership position in the Indian construction sector.

MEVA India has developed its own products. Could you please briefly introduce them?
We have taken the initiative to fulfil the market needs in India with market-driven products in terms of innovation, cost-effectiveness and user-friendliness. EcoFix, MSC 240, MEVA Shore 100, Mono-Dec and MonoWall are some of the first results of our product development initiative. EcoFix is one of our most successful products due to its simple and innovative design. The MSC 240 climbing bracket is increasingly being chosen for crane-dependent climbing requirements.

With over 20 million inhabitants, Mumbai is very densely populated. Where is the MEVA formwork stored?
MEVA India is operating from a covered warehousing space located in Bhiwandi, which is the biggest warehousing hub around Mumbai. Currently, we use floor space of 10,000 sq. feet to stock most frequently used accessories and long lead articles. Going forward, our strategy is to stock systems in certain quantities to facilitate faster deliveries, and we will start searching for a new and bigger space very soon.

MEVA India recently moved to new offices. Do the colleagues feel comfortable?
It's a great experience to work in spaces that have been specially designed and furnished for our needs. This connects us even better with each other.

Himanshu, how did you experience the first time of your MEVA re-employment?
Rejoining MEVA India in December 2023 felt like coming home. My journey with MEVA started back in 2009 as the first Technical Engineer, and seeing how far we've come now fills me with immense pride. The transformation has been remarkable, with a wide range of market-driven products and an extensive customer and project base. What impresses me most is the corporate culture: inclusive, transparent and, above all, customer-orientated. I am convinced that we can all uncover and achieve our true potential in this environment.

MonoWall saving time and labour

New monolithic formwork system shows its strength on a Caribbean project

MEVA has entered the Caribbean market in recent years. Numerous successfully realised construction projects in several of the island states prove that economical, variable and efficient formwork is also in demand here.

Crane-independent monolithic aluminium systems are particularly popular. The versatile MonoFix and MonoDec slab formwork are used for the construction of everything from simple residential buildings to multi-storey commercial buildings or complete 100-home estates.

The latest addition to the MEVA portfolio is the MonoWall system for the simple, time-saving shuttering of walls, columns and slabs. It can be used for both vertical and horizontal applications and easily applicated in combination with MonoFix. MonoWall has proven its strength in the construction of a residential building in the Caribbean.

The new MonoWall system has impressed with its product qualities in a construction project in the Caribbean.

Simply smart

→ **Saves time, labour and material**
- Compared to traditional monolithic systems, the new MonoWall system eliminates the need for tie plates, resulting in cost savings related to greasing and grouting tie plate openings.
- Lightweight panels are easy to handle and connect intuitively with a wedge and pin arrangement. Aluminum walers with a tie system help expedite the erection and dismantling process, saving valuable construction time.

→ **High capacity and durability**
- Permissible fresh concrete pressure of 60 kN/m²
- The MonoWall panels are durable and capable of withstanding challenging working environments on construction sites.

→ **High versatility and flexibility**
- MonoWall panels are versatile and can be used for both vertical and horizontal applications.
- In combination with MonoFix panels any concrete dimension can be achieved on jobsites.
- Standard panels are available in 60, 55 and 50 cm width and up to 300 cm height; longer panels are available on request.

→ **Perfect results**
- A bulging-free, superior concrete finish is achievable due to the longitudinal stiffener design – supported by aluminium walers and tie system.

Successful MEVALINE launch

Many visitors at the Concrete Show in São Paulo, Brazil

“Concretagem. Simples. Inteligentes.”: In line with the MEVA claim “Formwork. Simple. Clever.”, MEVALINE was presented to an interested audience for the first time at the Concrete Show in São Paulo.

The cooperation between MEVA and the Brazilian formwork manufacturer PERFILLINE generated a lively response on stand H50 in the exhibition hall on all three days of the show in August. It was an all-round successful launch of the new connection, which combines the MEVA global expertise in high-quality and efficient formwork solutions with the know-how of its partner in the Brazilian market. This represents a major step for MEVA in the largest country in Latin America.

Adapted to regional requirements

The partnership enables both companies to offer customised formwork solutions that combine global standards with local needs. These include products such as FLEX from PERFILLINE and our monolithic wall formwork MonoWall. These solutions meet the highest international standards and are also perfectly adapted to regional requirements. They are to be specifically offered in social housing construction, as they impress with their attractive price-performance ratio.

“Together with MEVALINE, we want to set new standards in the Brazilian construction industry. We offer exceptional products and services to improve efficiency, safety and sustainability on construction sites,” reports Tarc Fröhlich, Director International at MEVA.

In the visitors’ focus

The Expo in São Paulo provided the ideal platform to initiate new business relationships. Our exhibits, including the monolithic wall formwork MonoWall and the versatile EcoFix system, grabbed the attention of many visitors and our competent stand personnel also explained the advantages of the alkus all plastic facing in detail. Some of the interested visitors took the opportunity to try out the installation of the formwork on the spot.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CONCRETESHOW


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