References
High Rise Construction
Arabtec (United Arab Emirates) built the world’s highest building – the Burj Khalifa – together with Samsung (Korea), Besix (Belgium) and Turner Corporation (USA), relying on MEVA formwork to do so.

More than just Formwork

Know-how for your building success
From the beginning, it has been MEVA’s philosophy to offer added value in the form of know-how and expertise – beyond supplying high-quality formwork. This far-reaching promise has been redeemed impressively for many years.

Leaders in the field
Committee and industry standards work has a high priority because it is essential to further expertise in concrete works. This is where quality and safety standards are defined and implemented. The German quality control association (GSV) nominated MEVA to chair the technology committee; MEVA is part of the influential, internationally active American Concrete Institute and its formwork committee and we’re a member of the ASCC (American Society of Concrete Contractors) to name only a few.

DIN 18218
Leading the way in concrete standards
MEVA has been instrumental in redefining the European DIN 18218 Standard for concrete load to take account of new concrete mixtures such as self-compacting and flowable concrete. A new procedure to determine how concrete pressure will develop during each pour is based on MEVA know-how and will be part of the new standard.

Expertise in architectural concrete
MEVA is active part of the research consortium investigating the interaction between concrete, release agent and forming face. Its findings are the basis for the industry’s definitive publication on achieving top concrete finish: The Guide to Architectural Concrete.

MEVA is acclaimed as an innovative leader in the formwork industry, underlined by several awards, distinctions and commendations for quality and service.
Cost Efficiency, Safety, Quality

With what and how?
Requirements in high-rise construction are complex and demand expertise far beyond standard formwork applications. Where
- crane time and availability is limited,
- site space is cramped and
- work flow is tight,
it is the intelligent solution that makes the difference. How you work is what determines success, not just with what you work. MEVA offers you a comprehensive product and technology programme plus the know-how and support that makes your project a success from A to Z.

Logistics, inventory, handling
Handling formwork material is often as important as the formwork itself.
- How much material needs to be moved from one level to the next?
- Are the panels light enough to be lifted and set up by hand?
- What is the best cycle?
- Can the formwork be stripped early to save 40% inventory?
- Which climbing methods fits and how can they combine for the interlocking work flows for walls, shafts and slabs?
- What about worker protection?
Contractor Benefit through Expertise

MEVA engineers are committed to answering your questions with solutions and to assisting you in making the project a success through:

- Formwork design and planning
- Application consultation
- Customised solutions and design
- Work flow, cycles and early stripping
- Training for site managers and foremen
- Technical documentation

- On-site project support
- Instruction of workers on site
- Supervision of work flows
- Forming and assembly services
- Support during concrete pours

Based on MEVA’s comprehensive product range for high-rise construction, the best solution for your project will be found. We are at your side to develop clever answers and support you in all formwork challenges.
Leading the Way

1. Mammut 350: heavy-duty wall formwork for higher, faster, bigger pours
2. Support Frame STB: single-sided formwork for wall heights up to 13.50 m
3. Slab Formwork System MevaDec: fastest cycle, simple assembly, early stripping, less labour
4. Shoring System MEP for flexibility in heights and loads
5. MEVA Guided Climbing MGC: crane-lifted rail-guided wall climbing solution
6. MEVA Guided Screens MGS: crane or hydraulic-lifted rail-guided safety system for optimum edge protection
7. Climbing Scaffold KLK 230: scaffold platform for single and double-sided formwork
8. MEVA Automatic Climbing MAC: automatic hydraulic climbing system for fast precision-climbing in a single platform.
The patented all-plastic facing sheet is made of polypropylene (1 and 3), reinforced by an aluminium foil (2). The facing is resistant to UV rays, shrinking, swelling, rotting, building chemicals and fungal decay. It remains stable in any climate or temperature.

The all-plastic facing puts an end to plywood waste in formwork
The introduction of the world’s first 100% wood-free facing started a new age in formwork. Replacing worn-out plywood sheets is now a thing of the past. No more waste. Get your job done without interruptions. No more unnecessary freight costs, no down-times and no hassles in workflow. No more chemical coatings that make disposal dangerous and expensive. Less waste means fewer CO2 emissions. Besides offering better quality, the all-plastic innovation saves time and money.

Your advantages
- No swelling and shrinking
- Nailable like plywood
- No re-facing – no hidden costs
- Easy and quick to clean
- Repairable using the same material
- Better concrete finish
More London Business Tower, United Kingdom

Project
Office tower in London’s CBD

MEVA Systems
Mammut formwork on climbing scaffold
KLK 230

Contractor
Laing O’Rourke

Formwork engineering
MEVA Formwork Systems, Tamworth

Combination of safety, cost-effectiveness and speed for climbing the cores.
Mammut, KLK 230
Walls and Cores

Mirax Federation Tower, Moscow, Russia

High concrete pressure, robust on-site use over several years; no re-facing.

Project
Commercial tower and Europe’s highest building

MEVA Systems
- Wall formwork Mammut
- Climbing scaffold KLK 230

Formwork engineering
ZAO MosMeva, Moscow

11
Ardmore Park, Singapore

Precision and speed: each level completed in 6 days including one climbing lift.

Project
Luxury condominium tower in Singapore’s central business district

MEVA Systems
- MEVA Automatic Climbing MAC
- Slab formwork MevaDec
- Wall formwork Mammut 350

Developer
SC Global Development

Contractors
- Dragages / BBI
- Bouygues Batimat International

Formwork engineering
MEVA Formwork Systems, Singapore
Palais Royale, Mumbai, India

Project
Hotel and commercial tower – the largest and most innovative building project on the Indian subcontinent with:
- Underground parking garage
- Hotel complex
- Office tower
- Shopping mall

MEVA Systems
- MEVA Automatic Climbing MAC
- MEVA Guided Climbing MGC
- MEVA Guided Screens MGS
- Wall formwork Mammut 350
- Wall formwork AluFix
- Slab formwork MevaDec
- Shoring system MEP

Formwork engineering
MEVA Formwork Systems, Mumbai

Safe overall solution with five systems for climbing, cores, walls and slabs.
Soul Tower, Surfer’s Paradise, Australia

Project
Condominium tower with 77 levels on the Gold Coast in Queensland, Australia

MEVA System
Slab formwork MevaDec

Contractor
Grocon Pty Ltd., Melbourne, Australia

Formwork engineering
MEVA Formwork Systems, Singapore

Crane-independent slab formwork; 40 % less inventory due to early stripping.
Project
The Burj Khalifa is the world’s highest building at 818 m and 206 levels. It was built with MEVA formwork technology. Seen here in December 2008: MEVA’s Tarc Froehlich and SAMSUNG Construction Manager Martin Kang on level 154.

MEVA System
Slab formwork MevaDec with early stripping
■ achieved record-breaking 3-day cycle
■ no interruptions for re-facing in 28 month building period

Contractor
JV Samsung, Besix, Arabtec

Project management
Turner Corporation (issued official recommendation for MevaDec as preferred slab formwork method in high-rise buildings)

Formwork engineering
MEVA Schalungs-Systeme, Haiterbach
Al Nadha Tower, Sharjah, United Arab Emirates

Combined safety and climbing solution for shafts, slabs and walls.

**Project**
Residential and commercial complex

**MEVA Systems**
- MEVA Automatic Climbing MAC
- Slab formwork MevaDec
- Wall formwork Mammut 350

**Developer**
Saef Abdullah Al Noman

**Contractor**
United Engineering Construction

**Formwork engineering**
MEVA Schalungs-Systeme, Hailerbach, Germany
Grass Residence, Manila, Philippines

Project
Four residential high-rise buildings

MEVA Systems
- MEVA Guided Climbing MGC
- Wall formwork Mammut
- Slab formwork MevaDec

Contractor
Megawide Construction Corp.

Formwork engineering
MEVA Formwork Systems, Singapore

MAC, MGC, Mammut 350
Walls, Cores and Slabs

Customised climbing and safety work flow for all cores, walls and slabs.
Jazz Residence, Manila, Philippines

Project
4 residential towers with up to 45 levels. Fast tracking was applied: Using AluFix, the inner walls were poured after the slabs had been poured.

MEVA Systems
- Wall formwork AluFix
- Slab formwork MevaDec

Contractor
Megawide Construction Corporation

Formwork engineering
MEVA Formwork Systems, Singapore

Crane-independent hand-set formwork for slabs and walls. High safety requirements.
One Rockwell, Manila, Philippines

AluFix, MevaDec
Walls and Slabs

Slab work flow with hand-set formwork; less material required due to early stripping.

Project
Residential & commercial tower

MEVA System
Slab formwork MevaDec

Contractor
Datem Inc.

Formwork engineering
MEVA Formwork Systems, Singapore
Al Manara Tower, Dubai, United Arab Emirates

Climbing in one short lift. Adjustment of form panels with +/- 3 mm precision.

Project
Commercial office tower

MEVA Systems
- MEVA Automatic Climbing MAC
- Wall formwork Mammut 350
- Slab formwork MevaDec

Formwork engineering
MEVA KHK
Burswood Tower 5, Perth, Australia

**Project**
Residential high-rise building in Burswood Park, Perth

**MEVA Systems**
- MEVA Automatic Climbing MAC
- Wall formwork Mammut 350
- Slab formwork MevaDec
- Shoring system MEP

**Contractor**
Crown Construction (Pty) Ltd.

**Formwork engineering**
MEVA Formwork Systems, Singapore

Al Attar Tower, Dubai, United Arab Emirates

**Labour and material handling reduced through crane-free work with MevaDec.**

**Project**
Commercial high-rise building

**MEVA System**
Slab formwork MevaDec

**Contractor**
Al Fara’a

**Formwork engineering**
MEVA KHK
Barwa Financial District, Doha, Qatar

Project
9 residential and commercial high-rise buildings and a mosque

MEVA Systems
Slab formwork MevaDec with 3 days per slab pouring schedule

Contractor
Bouygues Construction, Qatar

Formwork engineering
MEVA KHK, Dubai

Fast, zero error work with hand-set slab system. Optimum work flow. No down times.
Maze Tower, Dubai, United Arab Emirates

Project
Commercial high-rise building

MEVA Systems
- Wall formwork Mammut 350
- Slab formwork MevaDec
- MEVA Guided Climbing MGC
- MEVA Guided Screens MGS

Contractor
Al Rostamani Pegel

Formwork engineering
MEVA KHK

Work flow optimised in cycles: guided climbing plus hand-set system for slabs.
Allianz Tower, Wallisellen, Switzerland

**Project**
Office tower for the Allianz Suisse insurance in the urban district Richti-Areal of the town of Wallisellen near Zurich. All safety precautions and equipment had to be planned and installed following the strict safety guideline of the national Swiss accident insurance SUVA. The MEVA Guided Screens system was a key factor for the required safety.

**MEVA Systems**
- MEVA Guided Screens MGS
- MEP shoring towers
- Wall formwork Mammut
- Working scaffold KAB 190
- Slab formwork MevaDec

**Contractor**
Allreal Generalunternehmung AG, Zurich

**Formwork engineering**
MEVA Schalungs-Systeme, Seon
MEVA in Hailerbach in the Black Forest, Germany. It is the home of the MEVA group of companies with its 40 locations in around 30 countries and 10 logistics centers all over the world. The headquarters are also home to research and development, engineering, production, rental logistics, detailing and sales. Cost-effective, lean logistics, transparent work flow, cost-saving rental concepts, technical support for better concrete results: client benefit is in focus, everywhere. All the time. All over the world.

Cost-effective, lean logistics, transparent work flow, cost-saving rental concepts, technical support for better concrete results: client benefit is in focus, everywhere. All the time. All over the world.