Formwork Systems

MEVA North America’s Product Range
Formwork.
Simple. Smart.
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MevaLite: Best-in-class Weight to Performance Ratio

The lightweight, versatile clamp system

MevaLite is a lightweight aluminum vertical formwork system that offers flexibility and cost savings on the job site. MevaLite is made specifically for the North American market, designed in feet and inches, and equipped with a range of sizes; including multi-purpose panels (MPP), to bring quality and safety to the job site.
The MEVA clamp is one piece that can be put into place using only one hand. It establishes a secure 5-point connection with a few hammer blows.

**Simple. Smart.**

**Mevalite at a glance**

- **Lightweight**
  - The 6’ x 3’ panel weighs 86 lbs
  - Assembly is possible with just one worker

- **Capacity**
  - High load capacity: 1,350 psf

- **Job site versatility**
  - Can be hand set or ganged for use with a crane
  - Ideal for projects with limited time or space for a crane
  - Can be used from foundation walls to high-rise
  - Symmetrical panels adapt to irregular geometries and complex designs with ease

- **Smart multi-function profile**
  - Welded-in Dywidag threaded nuts for accessory attachment
  - All accessories such as brackets, push-pull props, and alignment rails are attached with MEVA flange screw to the multi-function profile
  - Tie pockets designed for easy integration of taper ties, she-bolts, and thru-rod

- **Intelligent MEVA product design**
  - MEVA assembly lock aligns and structurally connects the panels with only a few hammer blows
  - Tie off bars allow access for working on the formwork
  - All accessories are attached using the same flange screw
  - High-quality alkus all-plastic facing with 7-year warranty
  - The panel frame features a closed hollow profile
  - Welded-in mitered corner joints
  - Ergonomic horizontal rails for easy grip and handling
  - High-grade powder coating to reduce concrete adhesion
  - Easy to clean alkus facing
  - Facing repairable on the job site with like material

- **Compatible with MEVA’s climbing and single-sided systems**
**MevaLite: Fast and Effective**

*For every job site*

MevaLite can be erected as a hand-set system or easily built as a gang and flown using a crane on large residential, commercial and civil projects.

It can be used in conjunction with all of MEVA’s complimentary climbing, slab, and single-sided formwork systems for a complete solution to any engineering or construction site needs.
Imperial

The best solution for your largest jobs

Concrete pour capacity of up to 2,025 psf

Designed for lateral concrete pressure of up to 2,025 psf and offering panel sizes up to 12’ high and 8’ wide, Imperial wall formwork is ideal for tall and thick walls.

Imperial formwork was designed specifically for the North American market for use in large industrial and civil engineering projects, as well as for commercial and residential building construction such as manufacturing plants, hospitals, retaining walls, and wastewater treatment facilities. Imperial is also ideal anytime large pours are required.
Simple. Smart.

**Imperial heavy-duty formwork**

- **Panel size**
  - Up to 96 square feet contact area per panel (12’ x 8’)
  - With only one panel high, walls can be formed up to 12’ tall

- **Capacity**
  - Admissible concrete pressure of 2,025 psf

- **Ideal for industrial, civil, commercial, and large mixed use and multi-family projects**

- **Closed hollow steel frame profile construction**
  - High strength, structural integrity
  - Torsion-proof
  - Galvanized to reduce concrete adhesion; making stripping and cleaning easier

- **Smart multi-function profile**
  - Welded-in Dywidag threaded nuts for accessory attachment
  - All accessories – brackets, push-pull props and alignment rails, attach with the same MEVA flange screw into the multi-function profile

- **Tying for inclined or battered walls**
  - Conical shaped tie holes allow for skewed ties when forming battered walls

- **Compatible with all supplementary MEVA formwork systems**
**Imperial**

**A wall of innovation**

Features that save labor, time, and money

MEVA systems are best-in-class because of their high-quality design and construction, with accessories, and panel details that allow for efficient concrete forming. The system includes standardized components, and accessories that have been tailored to meet the needs of our customers for ease and efficiency. Imperial combines all the features that make MEVA systems the best solution for a wide variety of job site applications.

Features of the Imperial vertical formwork panels include:

- Several multi-function profiles on tie position allows for pre-attaching accessories in a gang-form application
- All accessories are attached to the welded-in Dywidag threads on the multi-function profile
- Walkway brackets equipped with a pin that locks in the safe position

**Flange screw**
Single component for strong connection of all accessories – easily installed by hand

**Multi-function profile**
Made from closed hollow steel profiles with welded-in DW 15 nuts for rapid, consistent connection of accessories

**Tie hole**
With conical tie sleeve, welded in from both sides

**Closed hollow profile**
For high stability and a long service life

**Transport hole**
Designed for use with the lifting hook 60 for efficient loading/unloading of panels when stacked

**Bump notch**
Fitted at four corners for 4’ and 8’ wide panels to make adjustment and alignment with a crow bar easier
M-assembly lock
The M-assembly lock can be placed at any position along the frame using only one hand. A few hammer blows will achieve a strong, level, five-point panel connection.

Hot-dip galvanized frame
Surface finish reduces concrete adhesion for easier stripping, cleaning, and rust prevention.

Tie rod fixture
Attaches to multi-function profile – for quick and efficient tie rod storage on the job site.

alkus all-plastic facing
No water absorption, resistant to swelling and shrinkage. Creates a high-quality concrete finish.
MAR – MEVA Adjustable Radius

Customizable radius formwork

For water and sewage treatment system construction

MEVA Formwork Systems is dedicated to providing simple and innovative solutions to the challenges that structural concrete presents in the construction of water and sewage treatment facilities.

Traditional forming systems often arrive at the construction site in hundreds of pieces that require a lot of time, manpower, and parts to put together – ultimately costing the contractor more money.

The MEVA Adjustable Radius System (MAR) is the answer to these common problems. With only a few simple parts to assemble, MAR can be erected on the job site with less time and effort than other systems. As an additional service, the system can also be pre-assembled with the radius preset for initial use. The radius can then be easily adjusted on the job site to fit the contractors’ needs for future pours; saving additional time, costs, and labor.
Simple. Smart.

- **Intelligent MEVA product design**
  - Engineered for pour pressures from 1,000 to 1,500 psf
  - Tie spacing up to 48 contact square feet per tie
  - Taper ties or she-bolts can be used
  - MAR gangs weigh 10 to 12 lbs per square foot
  - The adjustable waler is capable of a wide range of radii and can be easily adjusted on the job site
  - Integrated MEVA accessories attach to the formwork and allow for safe set up and working on site

- **Customizable**
  - Optional pre-assembly by MEVA; MAR can be custom built to your exact radius and height specifications
  - Gangs typically come in widths of 8’ for easy transport
  - Gangs can be constructed with your choice of MDO, HDO, or birch facing

- **Integrated Dywidag threads for bulk-heading**

- **Compatible with Imperial, MevaLite, and MEVA formwork accessories**
STB – MEVA Single-sided Brackets

Smart single-sided solutions

Ideal solution for one-sided concrete pours

STB support frames and brace brackets are mainly used when pouring up against existing structures such as walls or rock faces where it is only possible to work from one side. The lateral concrete pressure is transferred to the support frame via the formwork and then into the tie in the footing or mat slab.
Support frame STB 450

STB 450 is ideal for pouring single-sided walls in a variety of applications including the use of 4’-11” height extensions which enables single-sided walls poured up to a height of 36’. The STB 450 is only 7’-4” wide, fits on most trucks, and saves space on the job site. It can be easily transported by crane or moved on swivel-type casters.

Simple. Smart.

➔ Strong and compact steel construction
➔ Can be used with all MEVA vertical formwork systems, MAR formwork or special designs
➔ Can be used horizontally or vertically
➔ Anchoring system with Dywidag tie rods for a high level of structural safety
➔ Only 7’-4” wide with integrated stacking spacers; fits on most trucks saving space on the job site
➔ STB 450 can support even taller heights by adding height and base extensions and connecting with Triplex SB braces

STB 300 & STB 300 Plus support frames

STB 300 is the safe and efficient solution for single-sided applications with standard or special formwork. The compact design enables it to be used in a wide variety of job site conditions and meet varied specifications.

Brace brackets 80 & 150

The solution for single-sided bracing up to 4’-11” is designed to work efficiently on the job site. Designed for slab edge, grade beam, and mass footing applications. Brackets are adjustable +/-15° with a turnbuckle-style brace.
The modular heavy-duty prop solution

For stable, safe bracing

Triplex is the heavy-duty bracing system for high wall and column formwork. It can also be used flexibly for additional horizontal and vertical support applications. Triplex consists of individual assemblies that can be combined on the construction site to produce the required length. The standard lengths 19.5” (50 cm), 39.25” (100 cm), 6’-6.75” (200 cm) and 9’-10” (300 cm) are supplemented by foot plates and top units with a spindle that are precisely adjusted to height requirements using the left- or right-hand thread.

Triplex is available in two capacities:

- **Triplex R**: this version of the prop is connected with an offset bracket for wall and column formwork up to 52’
- **Triplex SB**: efficient bracing for connecting STB 150 height extensions and base extensions to the STB support frame up to 36’
Simple. Smart.

- To support and align high wall and column formwork
- Stable and robust for safety at great heights and for efficient bracing of the STB support frame
- Combinable with MEVA vertical formwork systems and accessories
- Economical and quick
- Besides being used for bracing, many other horizontal and vertical applications are possible
- Can be used as support for platforms, overhanging slabs and cantilevered balconies
MEVA HN

One system, many solutions

The fast, efficient, labor-saving solution for concrete slab construction

The MEVA HN slab forming system features drop heads for early stripping with primary beams (H) and secondary beams (N) that create efficient grid work and adapt to varying layouts – saving time, labor, and costs on the job site.

Columns
By having the ability to place a primary beam perpendicular to another primary beam, MEVA HN offers flexibility to form easily and efficiently around columns and shear walls.

MEVA Drop head
Easy attachment to primary beam. Permits lowering of the formwork by 7.5” (19 cm), so beams can be easily removed and used for the next shoring cycle. Drop head allows for a larger grid pattern, more clearance & for faster stripping and cycling.

MEVA HN and MEP
MEVA HN slab forming system can be used in conjunction with the MEP shoring system, making its range of applications wider and more flexible than others on the market.
MEVA HN assembly
MEVA HN Assembly generally begins in a corner for easy assembly in both directions. The rows of primary beams are assembled parallel to the longer wall.

Slab edge and cantilever
Free slab edges can be achieved using an MD prop connector, MD beam stiffener, and MD guard railing post. The connector allows for direct support of cantilevering primary beams, with the integrated eye permitting the formwork to be anchored with a tie down chain.
MEVA32 Aluminum Shoring System

Fast, flexible, strong

The complete solution for shoring, slabs, and garage beam applications in concrete construction.

The new MEVA32 aluminum frame is lightweight and has a total frame load capacity of 32 kips. It can save time and reduce the amount of equipment required on the job site.

MEVA32 can be used as a traditional shoring tower using cross braces or it can be assembled horizontally on the ground using MEP gates and then flown into position by crane. A saddle beam has been designed to mount on top of the frame; providing an efficient solution for parking garages. The towers can also be converted to flying tables by assembling the MEVA32 frame with MEP gates.

MEVA32 towers can be built vertically or horizontally by using MEP gates and then flown into position with a crane. Screw jacks allow for fine-tuned height adjustment on the job site.
The MEVA32 frame can be used as a “garage beam system”: Saddle beams with a folding head complete the system for easy placement and movement as a unit.

At the completion of a section of a concrete pour, the folding head for garage beam applications makes it simple to go to the next pour without disassembly and reassembly.

Simple. Smart.

- **Heights of 4’, 5’, 6’, and 8’**
- **16 kips per leg – 32 kip frame**
- **Lightweight**
  - The 6’ x 6’ frame weighs 49 lbs
  - Easy to handle
- **Flexible**
  - Cross Braces or MEP gates can be used
  - Can be built in-place or flown
  - Easy conversion from shoring tower to a garage beam system or a flying table
- **Efficient use**
  - Heads can accommodate a single or double row of aluminum stringer
  - Frame folds for easy movement without disassembly
  - Towers can be rolled from pour to pour using standard MEP trucks
- **Saves time and labor**
MEVA32 + MEP

Complete solutions

For every slab & shoring need

At the completion of a section of a concrete pour, towers can be put on standard MEP trucks and rolled to the next section by 1-2 workers without being dismantled.
MEP Shoring Tower System

Maximum flexibility

MEVA quality in every detail

Thanks to its modular design, the MEP system is adaptable to any building geometry with fewer props. Only a few basic components are needed to build up a shoring tower – props, extensions, and frames. Allowing flexible vertical adjustment, the system offers the ideal means of supporting slab formwork, slab tables, beams, and precast units for heights up to 68.9’.

Simple. Smart.

➔ A top performer
  - With minimal parts and easy adjustability, this system can be used for a variety of applications and heights to suit your project needs
  - MEP system can be used to create shoring tables

➔ Intelligent MEVA product design
  - Few basic components: props, extensions, frames – streamlining storage and logistics
  - Inner tube extension adjustable for each individual MEP prop
  - MEP rapid frame connector makes safe connections easily visible
  - Reinforcing frame fitted to MEP prop with rapid connector
  - Adjustable cross-braces for all prop spacings from 35” to 9’-10”
  - MEP tube coupler for fixing at any position on profile
  - Calotte support to offset sloping surfaces
  - All platforms automatically secured in frames against disengagement
  - Lift truck for movement of complete shoring units

➔ MEVA lowering system
  - The SAS quick-lowering system takes the load off the prop with a single hammer blow.

➔ MEP is compatible with MevaDec and MEVA32
KLK 230 Climbing Brackets

Safe and flexible

For multi-functional vertical climbing

The KLK 230 can be used as climbing formwork or as a working platform for rebar placement, formwork set-up, and concrete-pouring work. A trailing platform can be attached to retrieve hardware and concrete finishing.

The KLK 230 climbing bracket is firmly secured to the wall formwork to form a craneable climbing unit. The formwork clamping fixture allows both the height and the inclination of the formwork to be finely adjusted in order to precisely adapt it to the geometry of the building.

The KLK 230 climbing bracket features a 7’-6” deep platform for ample working space. The formwork can be rolled back 2’-3” by using a slide carriage, creating sufficient area to perform cleaning and installing rebar, inserts, and box-outs.

The KLK 230 climbing platform consists of climbing brackets, wall struts, planking, and handrails.
Simple. Smart.

» When the optional slide carriage is used:
  - The carriage can be slid back 2'-3" to provide ample working space for cleaning and rebar installation
  - Wall formwork and KLK can be lifted together as one unit, saving valuable crane time

» Working platform with a 7’-6” depth
  - Safe and comfortable work at all heights

» Integrated formwork support for fast and safe connection to the wall formwork with assembly locks

» The KLK can also be used without the slide carriage to create a simple work platform
The Rail-guided MGC-F Climbing System

Safe work at all heights

Rail-guided lifting by crane

**Safe and efficient assembly directly from the truck**
Thanks to the MGC-F’s innovative design, the units can arrive at the job site preassembled and ready to be flown directly onto the wall; saving time, space, and labor.

**Extensions and trailing platforms installed from below**
When the climbing unit has been installed on the building, the extensions, trailing platforms, and access ladders are also installed from below. This increases the safety of the system and the efficiency during assembly.

**MGC-F and wall formwork – always a safe unit**
The MGC-F and the wall formwork always form a single unit. The use of guide rails and guide shoes ensures that it remains firmly anchored to the building even under windy conditions – during both the construction phase and the climbing phase.
Simple. Smart.

- **Lifting process by crane**
  - Provides for flexibility and efficiency

- **Guide rails can be placed at widths from 4’ to 14’**

- **High degree of safety**
  - Fully integrated access ladders with safety cages

- **Preassembly of the platforms eliminates the need for job site build space and labor**

- **Can be flown onto and off the wall in a single pick**

- **Safe work in all weather conditions increases productivity**

- **No need to disassemble the platform before it is returned from the job site**

- **All-in-one-solution**
  - MGC-F in conjunction with MGS provides for optimum safety and efficient construction processes

Even complex geometries with different sizes and offset structural elements can be easily achieved using the MGC-F guided climbing system.

Climbing shoes secure the guiding rails to the building at all times, during both the construction phase and the climbing phase.
The Rail-guided MGS Screen System

Total protection at all heights

Rail-guided climbing, hydraulically or by crane.

The rail-guided MGS screen system (MEVA Guided Screens) provides a complete perimeter enclosure for the active levels of construction located at the top of the building which can be lifted to the next level by crane or by using hydraulics. This system was specifically designed for use in high rise construction.

MEVA’s guided screen system (MGS) confines and protects the active working areas during construction. Maximum safety is guaranteed during all phases of construction and the enclosure allows work to continue in most weather conditions. MGS remains connected to the building throughout construction and can be attached to either the slab or the wall.

The system is adaptable to even the most complicated building geometries and sizes. Even large-format units can be advanced quickly and safely in one lift to the next level. There are multiple screening types available. Perforated or unperforated cladding sheets can be provided, or the system may be assembled with your choice of suitable custom mesh or screen.

Safe and quick assembly

MGS can be assembled safely at ground level or delivered completely preassembled to the job site, saving time, labor, and space in confined and heavily populated construction conditions.

Ergonomic

The MGS-H option features lightweight hydraulic cylinders, a mobile hydraulic unit, and guide shoes that weigh just 44 lbs, making the assembly faster and easier for workers.

Simple. Smart.

- System with individual units
  - Flexible adaptation to the floor plan and the geometry
  - Free positioning of the guide rails
  - Economical solution for almost all buildings due to flexible widths

- Safe and time-saving preassembly
  - On the ground
  - Delivery of preassembled components possible

- Ergonomic work thanks to weight-optimized components

- All-in-one-solution
  - MGS in conjunction with MGC-F provides for optimum safety and efficient construction processes
There are two options for advancing the screens to the next level: lifting by crane or by hydraulics.

Maximum flexibility and simplified suspension through folding mechanism and adjustable guide shoe.

Platforms are protected against the wind during both the construction phase and the climbing phase.

Completely enclosed working area provides maximum safety.
MEVA FormSet

System-independent accessories

Easier working, lower labor costs

As fall protection systems are only ever as good as their supporting construction, a sound base connection is essential. In conjunction with the MEVA guard railing posts & safety mesh, the universal shoe MFS ensures safe and dependable fall protection. A secure construction is achieved through use of the tried and tested spiral anchor DW 15/100 or the quick anchor DW 15, attached with a flange screw 12.

EuMax is the high performance all purpose prop assortment. Provided with a high-grade galvanised finish, the props offer a combination of high flexibility and type-tested safety, with production certified to DIN ISO 9001*. The permissible load capacity is 20 kN for Class D props at all extensions and 30 kN for Class E props.

* Tested to European safety standards according to type-tested structural design
The quick anchor DW 15 is suitable for both ground and suspended slabs. It is ideal for installing safe anchorings with the flange screw 18 or tie rod DW 15 for braces, shoes for safety mesh, single-sided propping and a wide range of other uses.

In next to no time, four box out corners can be fitted as a box out set. Different plywood lengths allow flexible use. The attachment of chamfer strips to the formwork is recommended for the best possible results.

Re-usable plastic spacer cones come in both 15 mm & 20 mm sizes for MevaLite and Imperial respectively. Cones can easily be stripped from cast concrete wall with threadbar via integrated threads.

Fair-faced concrete plugs can be used to fill the conical hole left by the plastic spacer cones – approximately a half inch reveal provides a great architectural aesthetic.

The easy-to-use brace brackets are available in two sizes. The brace bracket 80 allows for the formation of slab edge & beam sides up to 80 cm (31 ½”). The brace bracket 150 is used for any single-sided application with a thickness up to 150 cm (4’-11”).

Simple. Smart.

→ Stable construction and captive components
→ Fast and easy to install with a long service life
→ Saves time, money, and materials
→ Convenient accessories
→ Easy handling
→ Absolute reliability
BIM

Going digital together

Working together with our partners BIM² and Build Informed, we will help you navigate the digital revolution.

Our consulting, training, modelling, and development services cover all aspects of digitalization and building information modelling. Apart from generating customer-specific added value, we will also put in place efficient and transparent processes. Our services specifically comprise:

- Consulting on development of digitalization strategies
- Implementation of BIM methods in design and construction
- Creation of building component libraries and templates, and definition of necessary standards
- Creation of as-built models based on existing documentation
- Process optimization using human-computer interaction technology (software development)
Digital Tools

Speeding up progress on the job site

MEVA uses smart tools to promote safety and deliver prompt answers to all questions that arise during the concreting works.

MEVA me app – innovative, intelligent

Our forward-looking digital technology includes the MEVA me app, which will provide you with a direct link to the company’s digital nerve center. Whether you need product information or wish to use our smart tools, the interactive start menu will automatically reconfigure itself in line with the content you access most frequently. The current edition of FormworkPress with the latest facts and trends is also available in e-paper form for you to read at leisure. The app focuses, in particular, on presenting and demonstrating MEVA’s formwork systems. It is available from the Android and iOS app store.
Formwork.
Simple. Smart.
Pioneer and Trendsetter

More with MEVA

Formwork. Simple. Smart.

A lot of things that are now considered to be standard in the formwork industry were developed by MEVA in Haierbach, Germany. As a trendsetter for the entire industry, we work day in and day out to make formwork safer, more efficient and easier for our customers to use. For us, the excellent quality of our products and advancing formwork technology is par for the course.

We are independent, family-run, and committed to the values of a medium-sized company in everything we do. That is why our customers may rightly expect not only the most advanced products but also a comprehensive, personal commitment to projects all around the world.

From the most intricate special formwork designs to simple, standard formwork applications: Our experience and wide range of products make us a strong and able partner, even for the most complex challenges in modern day concrete construction.
You can rely on us wherever you are.

With 40 offices on 5 continents, we are on the spot wherever you need us.