MEVA runs a special production facility for non-standard formwork designs. It offers design, development and production of custom-built formwork for exceptional geometries. The portfolio include small parts and one-off manufacturing of special forms as well as small series production of formwork solutions for unique pours. This enables the contractor to answer to virtually any requirement in concrete form and shape.
Special Designs of all Kinds

MEVA portfolio: your benefits
- Precision in planning and production.
- Custom-built solutions, static calculation.
- Planning and budgeting support.
- Support on site.
- Team and site supervision.
- Support for quotations and tenders.
- Know-how and expertise (release agent, compacting, concrete pressure, concrete finish and architectural designs).

Special designs and facing
Special forms are made from steel, wood and combinations thereof.
- Steel designs on the basis of the Mammut frame profile.
- Custom-built parts on the basis of Mammut, MevaDec or Circo panels.
- Facing with plywood.
- Wooden plank facing.
- All-plastic sheets welded together as a facing or double-up facing sheet.
- Custom-built steel forms.

Panels with alkus all-plastic facing doubled up. Special formwork built from modified Mammut wall panels. Special steel forms manufactured in small series. The 6 mm GM-version of the alkus all-plastic facing laid on a wooden substructure like a carpet. Custom-built forms made of wood. A combination of system parts with the support frame STB 450 and special wooden forms. Shown to the left is the exceptional concrete finish achieved on the railway concourse Tullner Feld in Austria.
The combination of system and custom-built parts or modification of standard parts often proves a cost-effective solution when the formwork is re-used often. The MEVA clamp saves time and labour as a connection between custom-built and system parts, especially for

- Small series for corners on waterworks.
- Special parts for slanted and rounded walls.
- Special parts for slabs.
- Rectangular and circular formwork.
- Custom-built solutions in steel for tunnels.

Special formwork profiles in Steel
designs with MEVA panel or Aluminium

Facing portfolio:
- System parts with 20 mm alkus facing
- Steel facing
- Wooden board or doubled-up moulds and stencils for special surface effects

The circular column formwork Circo provided the basis for custom-built forms to create slanted and rounded concrete shapes for the University of Economics and Business in Vienna 1, 2 and Holmfield bridge 3, 4 in England.

Special formwork built in steel can optimise work flow. The Burj Khalifa in Dubai relied on 5 special MevaDec panels to achieve the asymmetric slab edge 5. Cost-effectively and technically sound: specially shaped column heads achieved using custom-built steel formwork 3, 4 produced in small series. Photo 7 shows a special steel unit for window box-outs, saving labour and time. Photo 6 shows a special tunnel carriage for repeated pours.
1. The concrete finish: The auma staircase achieved with special wooden forms.
2. Special forms for bridge piers.
3. Formwork solution for the production of prefabricated concrete parts.
4. A combination of standard MEVA wall formwork panels and special wooden forms to achieve a rounded wall. Photos 5, 6, 7 show special, custom-built wooden forms.
5. Special forms being dispatched to the site grouped and sorted according to the exact pour cycle.
Special Formwork Designs with Wood

Custom-built wooden forms can be technically and economically feasible for between one and five pours without re-facing. This often applies to very complex geometric shapes. The focus is on feasibility, buildability, cost-effectiveness, work flow and the desired concrete finish. MEVA specialists support you in all questions around logistics, handling, work flow, static calculations, concrete pressure and transport.

Facing portfolio
- Laminated plywood (21 mm) as facing.
- Laminated plywood (8 mm) as facing sheet on wooden substructure.
- alkus GM 6 as facing sheet on wooden substructure.
- alkus 20 mm as load bearing facing.
- Box outs of all kind.
- Facing inlays.
Concrete shaped to almost any design with the alkus all-plastic facing sheet
The all-plastic facing alkus can be formed and bent, pre-shaped and welded together. Concrete finishes of any shape can be realised in this way, from sharp angles to curved walls all the way to large surfaces without a single joint imprint.

Fields of application
- High demands on concrete finish.
- Smooth and homogenous concrete surfaces.
- Many and frequent re-uses or pours.
- Pours in difficult weather conditions.

Portfolio
- Panels welded together.
- Welded corners.
- Sheets pre-bent and shaped on roller press.
- alkus GM 6 laid on wooden substructure almost like a carpet.
- Grinding and polishing the alkus surface for special effects.
- Special decorative features milled onto the surface.

Special Designs with the alkus Facing

6 mm alkus sheets on a wooden substructure 1. 20 mm alkus panels welded together and ground for an entirely jointless facing surface with no imprint in the concrete 2. Panels joined to form a large, seamless facing 3 and welded together 4. 20 mm alkus panels precision bent in a roller press 5, 6, 7 and pre-shaped. The welding joint is statically stable 8. The alkus panel can be cut to bend for small radii 9. It can be cut to edge or joined with lamellae, without welding seam 10. Pre-shaped alkus panels combined with wooden board facing 11 or as small units on a wooden substructure 12.
Special Designs with All-Plastic Facing
Planning of special designs in 2D, 3D and BIM

Precision in realisation relies on careful planning and visualisation of concrete geometries and finishes. MEVA offers state-of-the-art 2D, 3D and BIM visualisation to support the contractor on complex architectural projects. Frequently, build-ability is in focus when planning and visualising unusual concrete geometries.

A good example is the staircase in the foyer of electronics specialist auma in Germany. The challenge facing the engineers was translating the architect’s 3D model into a buildable and realistic plan. First they split the staircase into eight separate units, then worked out an exact pour plan for each.
Design and Planning

Following this, each unit was separated into formwork sections which were planned in CAD (see an excerpt to the left) and handed over to special designs production, from where they were delivered onto the site and assembled. Thanks to the exact pour outline and workflow planning for each unit, the site was able to start with the concrete pours without any delay.

Planning Portfolio
- Visualisation of complex geometries.
- Display of perspectives and finish imprints.
- Assembly plans.
- Pour cycle plans.
- Step-for-step work flow plans.
Family owned and managed in the second generation, MEVA is based in Haiterbach in Germany’s Black Forest region. The formwork manufacturer is represented through 40 locations on 5 continents.

MEVA has been a pioneer and innovator in formwork since 1970. Many MEVA inventions have become standard in the industry: modular panelised formwork systems, the multifunction profile, the formwork clamp and the closed hollow profile. MEVA offers a comprehensive product range for every building project and any contractor from small to large, from foundation to high rise and from hand-set formwork all the way to fully automatic climbing systems.

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