The Formwork Experts.

Capability in tunnel-building

Breakthrough success.

www.doka.com
Geared to benefit

With performance you can count on.

‘Quantifiable benefit’ is what our customers can expect to get from us. Quantifiable in terms of both time and cost, thanks to our decades-long international experience of widely differing construction assignments. With our modular formwork systems, we provide our customers with optimum formwork solutions that are tailored to the special requirements of each project. As a dependable and experienced partner, we have a central interest in making a success of our customers’ projects.

This is why Doka pools all its formwork-engineering capabilities in its Competence Centres, and its project management strengths in the Doka Business Development unit. So as to be ideally equipped to meet ever-greater requirements. This support is available to all Doka customers. So that our successes are always shared ones.
Shortening the way, saving time

Getting there sooner.

The aim of every formwork-engineering solution is to bring the construction project in on-budget. While complying with the very highest quality and safety standards. The paths leading to this goal are many and varied, which is why Doka has designed its formwork systems for modularity and high interoperability. It is this that delivers the time and price advantage that makes our customers so competitive.

Cut-and-cover method
Planning, supplying and pre-assembling customised, cost-optimised formwork solutions from a rentable modular system for any tunnel cross-section, regardless of load action and shape. Perfectly tailored to the needs of cut-and-cover construction.

Mining method
Complete, rentable formwork solutions, planned on a project-specific basis, for time- and cost-optimised construction progress on all cross-sectional dimensions, from galleries to tunnels and even caverns.

Top-cover method
Project-specific planning, on-time delivery and professional pre-assembly of optimised formwork solutions lets work move ahead swiftly and economically.
Closer to the goal, a stage at a time

With Doka, active project support is a ‘given’.

The aim of all Doka’s preliminary services is to achieve greater efficiency by providing transparently costed and optimised formwork concepts. With our active project support, we fulfil this aim in each successive stage of a project. As early as in the Project Development Stage, our know-how and expertise give our customers the basis on which to take well-founded decisions.

The sooner the Doka technicians start inputting their knowledge and experience into the project, the more efficiently it can then be carried out. In each of its stages. And by staying with the project all the way until it is successfully completed, Doka builds long-term partnerships with its customers.

Ongoing advice and support from a dedicated contact person

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Engineering  

myDoka  

Field service

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1. **Project Development Stage**
   - The stage in which decisions are taken based on professional advice and consulting:
     - Detailed analysis of the initial situation
     - Identifying the risks applying to planning, execution and costs

2. **Bidding Stage**
   - The stage in which the overall framework is defined:
     - Selecting the optimum construction methods and formwork solution
     - Determining the commissioning quantities
     - Site planning, incl. bills of materials
     - Sourcing bid prices for rental and purchase

3. **Project Mgmt. Planning Stage**
   - The stage in which the forming operations are organised for greater efficiency with the aid of optimised formwork concepts:
     - Specifying the commissioning quantities
     - Co-ordinating lead-times and handover deadlines
     - Logistics concept

4. **Concrete Construction Stage**
   - The stage in which the formwork-engineering resources are optimally deployed with assistance from experienced Doka Formwork Experts:
     - Shop drawings incl. statical calculations
     - Ready-to-Use Service
     - Transport logistics
     - Field service (Doka Formwork Instructor, formwork pre-assembly, ...)

5. **Project Close-out Stage**
   - The stage in which the forming assignment is satisfactorily closed out with professional support and a high degree of transparency:
     - Formwork dismantling
     - Return of rented formwork
     - Return delivery
     - Cleaning and rehabilitation
     - Jointly handled close-out

Success of project

With our project-specific formwork solutions and a range of service offerings that are geared to the needs of the project, we put our customers’ project-success on a firm footing and build long-term partnerships.
All Doka formwork solutions for tunnel-building are modularly designed and so can be exactly matched to the specific project requirements. The deciding factor when choosing the most efficient formwork system is the potential savings in equipment, time and costs. With our experience and technical lead, we use this potential to the full.

**Requirement = solution**

**Capability in componentry.**

- **Heavy-duty supporting system SL-1**
  High adaptability and cost-efficiency on many different tunnel cross-sections, regardless of shape and load, with a modular, rentable, comprehensive formwork solution.

- **Tunnel system DokaCC**
  Outstanding cost-efficiency on cut-and-cover tunnels with this statically optimised load-bearing system that needs only a small number of shoring frames and less work for temporary foundations.

- **Load-bearing tower Staxo 100**
  Safe shoring of high loads and cost-efficient adaptability to different layouts, made possible by high load-bearing capacity and variable inter-frame spacing.

- **Supporting construction frame**
  Safe, cost-efficient forming of up to 12.8 m high single-sided walls, made possible by flexible height adjustment and easy repositioning of large units.

- **Large-area formwork Top 50**
  Cost-efficient adaptability to project-specific requirements, such as size or fresh-concrete pressure, made possible by this modular system with a small number of components and professional pre-assembly.

- **Steel formwork**
  Economical forming of casting sections made possible in a daily cycle by rugged steel construction with all-hydraulic equipment features and optimised planning, adapted to the project requirements.
Amras motorway enclosure
Location: Innsbruck, Austria
Length: 910 m

Arraiz Tunnel
Location: Spain
Length: 75 m

Gotthard Base Tunnel
Section: Erstfeld, underground branch-offs
Location: Erstfeld, Switzerland
Section length: 2 x 370 m

Kühnsdorf Tunnel
Location: Kühnsdorf, Austria
Length: 495 m

U4 HafenCity underground rail link
Location: Hamburg, Germany
Length: 168 m

City Tunnel, Leipzig
Location: Leipzig, Germany
Length: 70 m

Technology clears the way
The methodical approach to tunnel-building.

The success of a tunnel project can be seen in the construction quality. In whether it is completed on schedule. In terms of certainty regarding the costs. We see success as a many-facetted whole.

Located close to you, quick to get to you
Our more than 160 sales and logistics locations all over the world are the basis for global availability of our formwork technology systems. They are also a direct link to the planning, consulting and implementational capabilities of our formwork technicians. Partnership happens wherever our customers happen to be.

Important notice:
Always observe all relevant safety regulations (e.g. as issued by construction-industry employee safety organisations) applying to the use of our products in the country in which you are operating. In addition, the User Information booklets (Instructions for Assembly and Use), which contain information on standard system set-up and on compliant utilisation of Doka formwork systems, must also be observed. The illustrations in this brochure show the situation during formwork assembly and are therefore incomplete from the safety aspect. It could be dangerous to combine our formwork equipment with other manufacturers’ systems. If you intend to combine different systems, please contact Doka for advice first.