

Consulting. Planning. Managing.



Your wishes meet our solutions



Consulting

Corporate success – attaining goals through competence

Dürr is a world leader in the construction and supply of plant and machinery. Dürr Consulting as part of the Dürr Group offers professional and individual planning and consulting services to international customers, supporting them in the design and optimization of technical processes and of plant and equipment.



Technological and process knowledge as well as targeted consulting services provided by Dürr Consulting represent increased productivity and strategically directed business location development. Together with our customers, we record and analyze existing structures and requirements and develop solutions that fit exactly.

The Dürr Group – a strong partner

Dürr Consulting is able to draw on the engineering competence and expertise of the entire Dürr Group. Practical experience gained in the successful completion of projects all over the world flows into the solutions we offer.



Our personnel – experienced and solution-oriented

Dürr Consulting offers the know-how acquired from over 1,500 consulting and planning projects. More than 100 employees – mainly economists and engineers with extensive international project experience – develop functional and process-oriented solutions tailored to your individual needs. It goes without saying that the latest methods and tools are systematically utilized and that training of our personnel is continuous and intensive.

Efficiency and effectivity: your benefits – our points of focus



You want to adjust your production facilities to suit new challenges ...

- You would like to integrate new products or processes into existing manufacturing lines without interrupting ongoing production.
- You plan to relocate production and would like a competent evaluation of viability and feasibility that takes local conditions into consideration.
- You would like to design your manufacturing equipment with the flexibility that will allow you to react optimally to short term process or product changes.



You want to optimize your processes ...

- You need to shorten cycle time by reducing wait and work-in-process times.
- You want to utilize design-to-cost potential to ensure that in the future your prices will remain competitive in the market.
- You would like to measure the quality of your processes on a continuous basis using key performance indicators.



You intend to better control project risks ...

- You would like to establish a systematic, performance-oriented project management system in your company.
- You want to put methods and tools into the hands of your project managers to help them bring their projects to a successful conclusion.
- You would like to increase the transparency of your projects so that you have an up-to-date overview of the project status at all times.

Three strengths we bring to your project

Consulting

Doing the right thing

- Restructuring
- Analyzing business locations
- Feasibility studies
- Production systems (lean production)
- Cost and process optimization
- Quality management



Checking and questioning of existing processes again and again is the starting point for every development or optimization measure. As external advisors, Dürr Consulting examines all processes professionally and objectively. Using our methods and tools, which include continuous performance improvement (CPI), we seek and find potential for optimization that can be utilized without involving great expenditure, e.g. in personnel and machine work load capacities, in stock situations and in process times.

Planning



For more than 15 years and in a wide variety of branches of industry Dürr Consulting has been finding solutions to assure optimum manufacturing systems. No matter whether in relation to new constructions, relocations or retrofits - it goes without saying that up-to-date expertise and the latest developments are always incorporated. We plan everything to do with the logistics, supply systems and infrastructure; we prepare CAD layouts and evaluate these on the basis of digital simulations. We take on responsibility for technical concepts, time schedule planning and cost calculations and assess various planning variants. Here Dürr Consulting is able to draw on the engineering know-how within the Dürr Group.



Managing

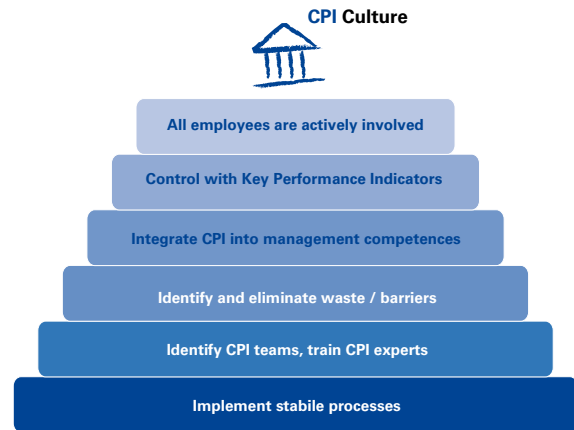


Professional project management is the prerequisite for effective implementation of agreed objectives. Dürr Consulting is able to draw on procedures that have been proven in practice on many successful projects. We see project responsibility, integration of project participants and transparency of information as decisive factors. Meeting real challenges in terms of timing, budgets, internationality and technology is our speciality. We are active members working in project management associations and organizations and frequently exchange information with other known companies.

Methods that ensure success

CPI – Continuous Performance Improvement

The journey between carrying out the very first process optimization and creating a culture of continuous improvement is a long one. It is a journey that Dürr has also undertaken and the company itself optimizes its processes continuously on the basis of CPI. Building on this experience Dürr Consulting has developed a practice-oriented, 6 stage model to assist companies in the introduction of the CPI process. The process puts not only production onto the test stand but also the fields of engineering, project management, logistics and administration. In all of these fields Dürr Consulting has solutions available that lead to double digit reductions in stocks, in project cycle times and in costs arising from errors and that, starting with only small expenditure, generate a return on investment within six to nine months.



6 stage model for the introduction of a CPI culture

Your wishes meet our solutions

- Master planning
- Concept and detail planning
- Logistics
- Relocations
- Technical building facilities (HVAC)

Digital factory

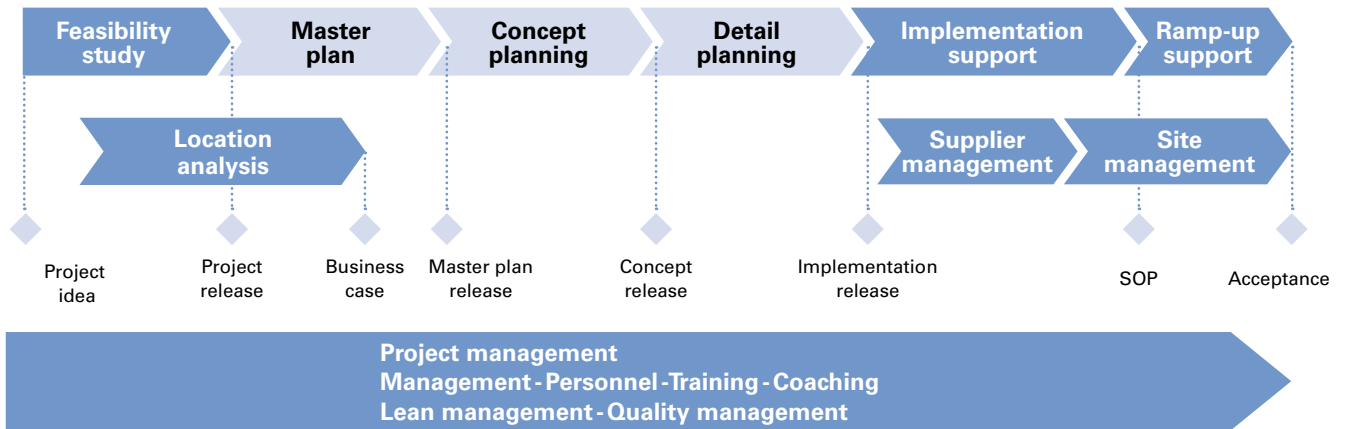
By systematically utilizing digital factory methods and tools Dürr Consulting achieves a high level of planning security whilst simultaneously reducing the time needed for planning, execution and commissioning. With a range extending from 3D layout planning to simulations of material flow, robot movements ergonomics and on to virtual reality commissioning, we have the planning tools available to produce complete digital images of your production facilities. Our high performance virtual reality software allows you, at an early stage, to experience an impressive virtual vision of your plant.



Thinking and acting

- Project management
- Ramp up management
- Implementation support
- Change management
- Site management
- Supply chain management

Solutions based on experience



Dürr Projects

Project management software plays an important role in successful project execution. Dürr has developed its own software, based on decades of experience, to fulfil the specific requirements of projects undertaken in the field of plant and machinery construction.

Dürr *Projects* supports project-related information exchange at all levels. The database rooted software with web interface is used by Dürr on its own projects thus furthering compliance with accepted project execution processes. We now offer customers the opportunity to purchase Dürr *Projects* licences so that they can utilize for themselves the advantages of integrated data management in projects.

Project phases

For project execution Dürr Consulting uses a phased model, that is based on long experience with projects carried out for a wide circle of customers and with a wide variety of task profiles. The model describes the content of each of the phases and defines milestones that are essential to the successful conclusion of each project phase. The model enables us to concentrate on the special aspects of the customer's requirements while recurring items are covered by standard actions. For all phases proven procedures, tools and methods are described in the planning and consulting manual and check lists are provided for controlling milestones. This is how we ensure that the project gets off to a fast start, that minutes of meetings and reporting systems are efficient and that employees are integrated smoothly into projects. Our customers have the certainty of knowing that all projects are executed in accordance with our tried and tested standards and with equal professionalism.



Selected reference

Porsche AG, Leipzig/Germany,

Planning of the integration of a new model into the assembly line

Audi AG Changchun/China,

Concept and detail planning for a new final assembly facility

Daimler AG, Kecskemét/Hungary,

Concept planning for a new final assembly facility

Automotive



Kamaz, Chelny/Russian Federation, Restructuring of the entire Kamaz factory complete with business plan to 2012

Tata Motors, Lucknow/India,

Total planning package right through to implementation of a new truck factory

Daimler, Chennai/India,

Planning of an assembly line including logistics

Commercial vehicles



Robert Bosch GmbH, Nuremberg/Germany, Planning of relocation, layout for new factory shop, liaison and support during relocation

Hüller Hille GmbH, Moosbach/Germany,

Logistics concept for a 300% increase in capacity

Siemens Wind Power, Brande/Denmark, Process analysis for installation of gondolas concept for one piece flow assembly, implementation plan for project in a new and in an existing building

General industry



Airbus S.A.S., Nordenham/Germany,

Master plan, including budget preparation, for a complete factory for the manufacture of CFRP skins for the Airbus A350

Airbus S.A.S., Hamburg/Germany,

Preparation of a concept for wingbox assembly with transfer of automotive concept components relating to quality, lean manufacturing, etc.

Aircraft



Robert Bosch GmbH, Abstatt/Germany, Complete planning of a test facility (from determination of basic requirements to implementation)

BMW AG, München (FIZ, BA 6.3)/Germany, General planning/ test facility planning (from determination of basic requirements to implementation)

Schaeffler KG, Anting/China, Complete planning of a test facility (from determination of basic requirements to implementation)

Testing facilities

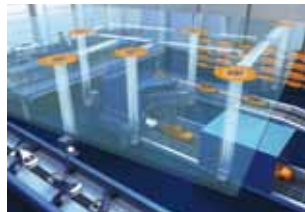


Three strengths we bring to your project

Your benefits:

- Sustainable corporate development through strategic technological know-how
- Cost optimization through factory location related process design
- More added value from Continuous Performance Improvement (CPI)
- International cross industrial branch experience
- Location development on the basis of existing bench mark data
- Utilization of the Dürr Group's engineering know-how

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