

Everything included. Large-scale projects from BMA.

No two EPC projects are the same. Each is unique in terms of its size, duration and scope. The references below are simply examples of the many projects we have completed in the past 160 years. Good reasons to be proud, we think.



2012-2015:
Etihad, Iraq
Planning, supply and commissioning of refinery core processes and co-ordination of the overall project.



2012-2014:
Angren Shakar, Uzbekistan
Planning, supply and commissioning of core processes for a refinery.



2015-2018:
Al Nouran, Egypt
Planning, supply and commissioning of the main beet sugar process.



2014-2015:
Znamenka, Russia
Planning, supply and commissioning of a VKT and automation system; overall planning and project coordination.



2013:
Nile Sugar, Egypt
Planning, supply and commissioning of core processes for a beet sugar factory.



2007-2009:
Cosumar, Morocco
Planning, supply and commissioning of refinery core processes.

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BMA – Passion for Progress

For over 160 years, BMA has been developing and manufacturing machinery and equipment for the industrial-scale production of sugar. BMA system solutions for sugar factories and refineries are in demand wherever minimum energy consumption and consistently high product quality are top priorities. With our more than 600-strong workforce around the globe and in-depth knowledge of process engineering, BMA's service profile is unique in the sugar industry.



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A strong performance.

EPC solutions for individual plant components or whole factories in the sugar and food industries.

Engineering, procurement, construction, management. Our passion for complete solutions.



About five years after it was founded, BMA built its first sugar factory in Germany. A few years later, in 1871, a first large-scale international project was successfully completed in California, in the United States. Since then, we have learned plenty about handling international projects, supplying equipment to more than 600 factories.

Our passion for progress extends to cutting-edge complete solutions. Proven process expertise, 160 years of experience and international standing are the cornerstones of our project business around the globe. With the added determination to meet any challenge, we can make your project a success, too.

energy efficiency in operation and final product quality are the key performance indicators with the highest priority. We started out in the sugar industry; today, BMA also supplies factory solutions for sugar by-products and the food industry.

Large-scale international projects of every scope

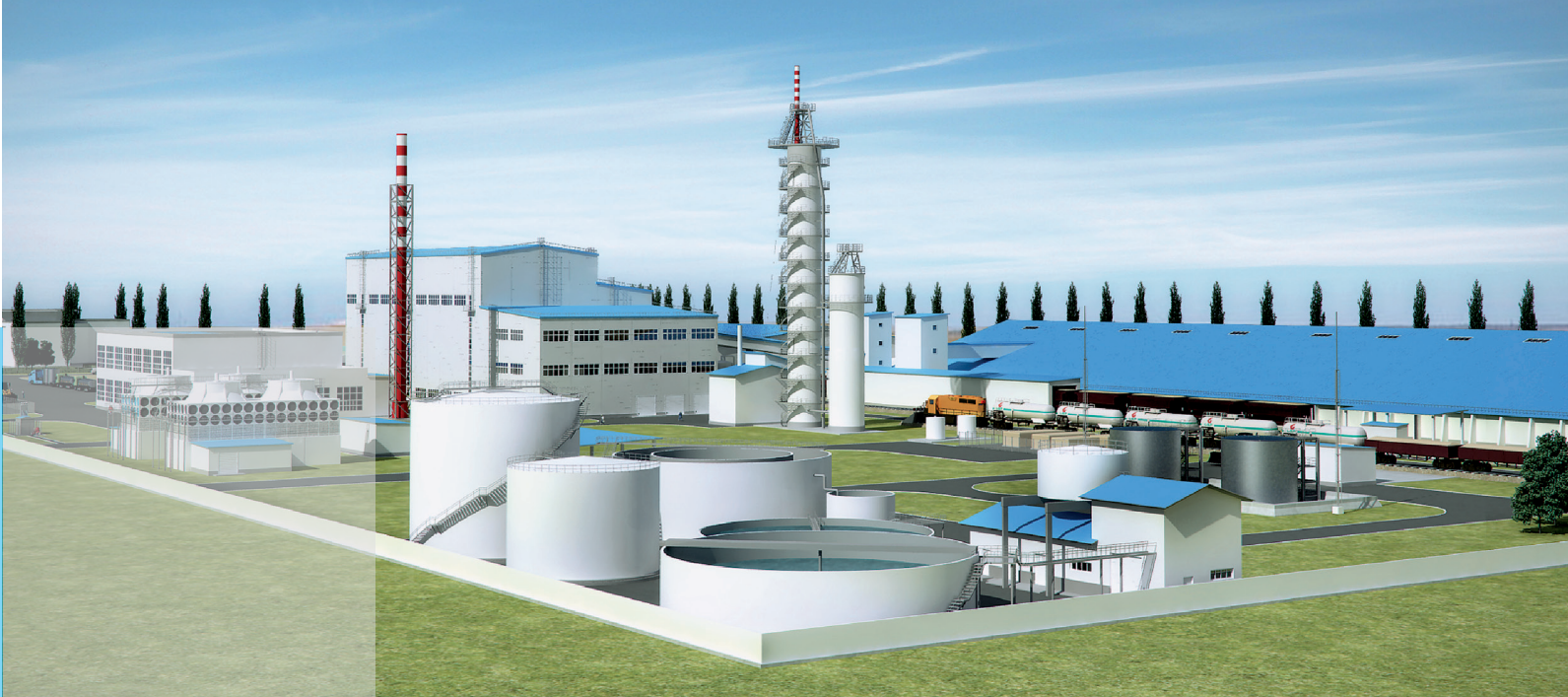
It is not hard to find evidence of BMA's work in the sugar and food industries. We have implemented projects in more than 80 countries worldwide. Our EPC solutions for complete process stations or even whole factories are in demand wherever future-proof plant technology,

- Greenfield factory developments
- Implementation of new process steps
- Turnkey upgrade projects
- Technical maintenance

How you benefit

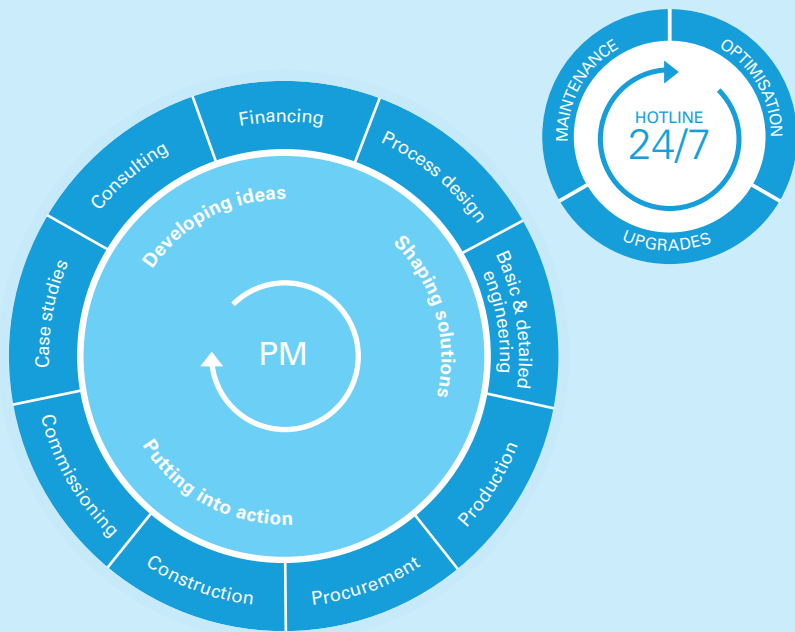
| Shorter construction times | Cost optimisation | The right performance |
|---|--|--|
| Our efficient project management interfaces ensure quick and simple coordination and interaction. | Enjoy the economies of scale of an international provider of complete solutions. | With our comprehensive knowledge of processes and methods, you always get the finished product you want. |
| You can rely on our expertise and experience in complex decision-making situations. | We have both the training and the tools to keep an eye on costs for you. | High availability and reliable operation of all process technology equipment. |

Heading straight
for the goal.
With a powerful team.



| | Planning | Manufacture | Delivery | Assembly | Service |
|---|----------|-------------|----------|----------|---------|
| Process | | | | | |
| Process equipment, automation, control systems | • | • | • | • | • |
| Automation | | | | | |
| Field devices, controls, control systems | • | • | • | • | • |
| Building shell | | | | | |
| Factory, canteen, warehouse, ancillary buildings | • | • | • | • | • |
| Technical equipment of buildings | | | | | |
| Alarm and fire systems, lighting | • | • | • | • | • |
| Building services | | | | | |
| IT, electricity, gas, water/wastewater, cooling and ventilation systems | • | • | • | • | • |
| Outside areas | | | | | |
| Enclosures, traffic zones | • | • | • | • | • |

A partner you
can rely on.
Throughout all
project phases.



Engineering: developing concepts

Even at the engineering stage, we at BMA take a holistic approach. Together with our customers, we develop comprehensive concepts whose benefits win them over from the start. On this basis, we propose planning solutions that you will certainly want to implement. And in terms of economic viability, plant efficiency and final product quality, our solutions are simply the best, even if we say so ourselves. If required, we can help you place your project on a secure financial footing, guide you through the maze of approvals, and organise full insurance cover.

Procurement: delivering solutions

If you are looking for help in putting your plans into action, look no further than BMA for commitment and passion! We manufacture all key machinery and equipment for the core processes of sugar production ourselves. All other factory components including alternative products can be sourced by us from international and local suppliers. We choose our partners carefully, based on our knowledge of

the market and keeping in mind who suits the requirements. We're not bound to specific manufacturers either. And we never lose sight of the keys to success: superior performance, cost efficiency and meeting deadlines.

Construction: putting plans into action

Our project management team is responsible for completing all project phases within schedule and budget, and for delivering the agreed quality. To ensure this, we have an efficient controlling system in place. Assembly and supervision of installation by contractors are carried out by experts from the relevant country subsidiaries, who have the required regional knowledge – and speak your language.

After-sales: much can happen in the service life of a factory

With timely upgrades, optimisations and regular maintenance, you will keep your competitive edge and ensure the high availability of your machinery.



Management: same goals, same direction.

As your EPC contractor, we do our utmost to make your project a success. Each project has its own scope of works. Complete solutions for individual process stations or even whole factories are our business. Whatever your setup, our project management ensures that everything runs smoothly, from planning to delivery and installation and to project handoff.

The project specifications are clearly defined right at the start. Procurement is therefore easy to handle. Plus, the costs are transparent throughout all project phases and the budget is under control. With our integrated scheduling management, we never lose sight of higher-level processes and the individual milestones. 100 % fulfilment of the performance indicators at hot commissioning clearly shows that the quality of deliverables and installations is well under control!

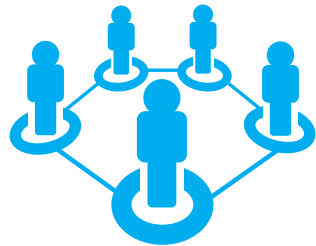
You can count on us

Whether you need help with financing, factory planning, standard construction, mechanical or plant engineering, with automation or building services engineering, or even after-sales services following commissioning – with BMA, your large-scale project is in safe hands right from the start. Together with you, we develop perfect solutions for your new production site, assisting you from the first concept until the final bolt is in place and sugar production is running at full speed. And throughout the life cycle of your plant, if you want.

In our workforce, we have many seasoned experts from a range of fields. Depending on the specific requirements, we will put together the best team for your project. Assistance on site is provided by engineers with excellent local knowledge.

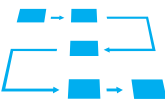
Some of our areas of expertise:

- Project management
- Quality assurance
- Controlling
- Procurement
- Financing
- Contracting
- Automation
- Building services
- Construction
- Plant engineering
- Process engineering



1858

BMA builds the first complete factory at Barum, Germany.



Unrivalled process knowledge of the sugar industry.

95 %

international project work in more than 80 countries worldwide.



650 employees from more than 30 countries.



15 subsidiaries around the globe.



Experience with cane, beet and foodstuffs.