

Every question deserves an answer. Every project deserves BMA.

Products and solutions for the sugar industry.







BMA – Passion for Progress

For machinery, individual process steps or entire factories – whenever it comes to the industrial-scale production and refining of sugar, crystalline fructose and dextrose, BMA is your contact.

Whether you require assistance with plant design, traditional mechanical engineering, process automation or post-installation service – with BMA, your project is in safe hands right from the start.

For us, Passion for Progress is more than just a slogan. With our technical innovations, we have been setting industry standards for over 160 years. And we are truly passionate about developing progressive solutions for our customers around the globe.

BMA means engineering made in Germany. Every BMA site makes its own contribution, yet each site is different. Our subsidiaries in the United States, China, Tunisia,

Russia and Brazil, our business activities in more than 80 countries, and employees from over 25 different nations are all clear evidence of the international focus of our everyday work.

Both our batch and continuous centrifugals are BMA flagship products that are well known around the globe for their outstanding quality. But BMA offers far more than superior machinery and equipment.

Together with you, we can develop perfect solutions for your projects, assisting you from the first concept until the final bolt is in place and sugar production is running at full speed. Throughout the life cycle of your plant.

The industry's most comprehensive product portfolio.



BMA develops, manufactures and installs all machinery and equipment for the core processes in sugar production: from extraction and evaporation to crystallisation and drying – you will find exactly what you need for each process step in our range of products.

Innovations for the sugar and sweeteners industry

We have, in fact, often helped to advance the state of technology in the industry. Our extraction towers and the continuous crystallisation process are just two examples of innovations that BMA has brought to market. But to us, superior quality is more than simply collecting certificates: an extremely long product life and value retention of many years speak for themselves.

And yet, wear and tear cannot be prevented altogether, of course. Which is why BMA Assistance will provide you with original BMA parts and first-class service, whenever you need them. Thanks to our high manufacturing standards, your equipment will continue to function perfectly even when the original parts are replaced, so production can run at a consistently high level.

Plants and automation from a single supplier

Even the best machinery and plants cannot be exploited to their full potential without perfectly tuned control systems and process automation. This is where BMA Automation steps in, with its blend of engineering knowhow that is unique in the industry. Our experts develop automation solutions tailored to the requirements of the

sugar and sweeteners industry. How you benefit: your process steps and the finely tuned measuring and control system come from a single supplier. This ensures all components of your plant will work together smoothly right from the start.

Our product portfolio covers all core processes of sugar production and refining.



Our product portfolio:

EXTRACTION	EVAPORATION	CENTRIFUGATION
Countercurrent cossette mixers Extraction towers Cossette pumps Diffusers	Falling-film evaporators Plate falling-film evaporators Condensate tanks	Batch centrifugals Continuous centrifugals Distribution mixers
PULP DEWATERING	CRYSTALLISATION	SUGAR DRYING
Pulp presses Fluidised-bed steam driers Rotary air locks	Batch pans Vertical continuous pans VKT Cascaded batch pans Cooling crystallisers OVC Molasses magma minglers Seed magma cooling crystallisers Magma pumps Receivers, mixers Slurry mills	Drum driers-coolers Horizontal fluidised-bed coolers Vertical fluidised-bed coolers
JUICE PURIFICATION		
	AUTOMATION TECHNOLOGY	
Machine control systems, production line automation, process control systems, control cabinets		

From the first consultation to the finishing touches: our services can take many different forms.



In-depth consulting: we can find a solution, whatever the challenge

Every project, however small it may be, starts with a full consultation. Because at the outset, there will not always be a clearly outlined task, but simply a challenge that needs to be addressed. This is where you can benefit from our full range of experience and expertise.

You may need a new process step, or an upgrade of your plant's current automation system, to ensure you can continue to meet new challenges in the best possible and

most efficient manner. You might want us to get an entire new factory up and running, or supply only the key components.

And even if it is only a single machine you need – let us discuss your precise requirements and the best way of meeting them. Only when you are happy with the solution, will we consider our job well done.



Holistic plant design: in engineering, nobody can hold a candle to us

Every plant is unique. The location, raw material properties, production targets, energy consumption – countless aspects must be taken into account and every detail calculated before the first machine can be built. We offer comprehensive engineering services for new plants, plant extensions and rehabilitation. Our services range from basic studies to detailed process engineering. Low-energy concepts for parts of a plant, or for entire sugar refineries and beet or cane sugar factories are our speciality. Key factors include the location of your plant and any particular

local features. Wherever in the world you may be, our engineering services are available to you. They comprise process and mechanical engineering, process automation, and local specialist knowledge gained in decades of successful international plant design.

You may also be interested to know that we always prepare supplier-neutral balances and plans. Leaving you free to choose an equipment supplier yourself, based on your specific requirements.

Our engineering services at a glance:

CONCEPT STUDY

As part of a concept study, we will prepare mass and heat balances, and visualise the process in a block diagram or simple process flow chart. With an additional economic feasibility analysis, we will develop an overall concept that takes into account all key factors of the plant.

BASIC ENGINEERING

Here, we go one step further. In addition to the services of the concept study, we will prepare equipment lists and specifications, a list of control circuits for the measuring and control systems, and a rough layout plan for key equipment. We will also provide you with the documentation you need to implement construction of the plant.

DETAILED ENGINEERING

Here, we fine-tune our basic engineering work to the smallest detail. We will provide you with load plans for steel structures and concrete foundations, detailed layout plans, piping engineering, and much more. We will also handle the project management for your plant.

Implementation: the German art of engineering – down to the smallest bolt

With more than 400 successfully completed factories and hundreds of thousands of individual items of equipment delivered, we can safely say that we have a knack for plant construction. BMA builds factories in highly industrialised urban areas in Asia, in remote agricultural regions in Africa, on the North German Plain, and on the Australian coast. And in all these places, our factories are known for their outstanding quality and efficiency.

Although we will generally deliver our products around the globe, their dimensions can in many cases present a logistical challenge. This is why we often have minor components manufactured near the destination. That can be either at one of our own sites, or, under close supervision, by local manufacturers. We also offer complete assembly supervision on site.







A reliable partner throughout the life cycle of your plant.

The quality of our service is most evident when everything is running

When you invest in new production machinery, you want to be sure that everything runs smoothly. The BMA Assistance team makes sure it does. As part of their service work, they will check wear parts and the proper functioning of your equipment. If necessary, they will adjust the settings. A tailor-made service agreement defines the individual services you wish us to perform after commissioning. For you, that means: the right

service at the right time, a clear cost overview – and thus greater security.

But faults may occur even in plants that are regularly serviced. In the event of unplanned downtimes, what you want is quick help. Whether it is spare parts you need or a service technician – you can rely on our global service network, 24 hours a day, 365 days a year.



BMA Automation

Phone +49 531 804-261 Fax +49 531 804-269 sales@bma-automation.com

BMA America

Phone +1 970 351 0878 Fax +1 970 351 0190 info@bma-us.com

BMA Brazil

Phone +55 11 3097 9328 info@bma-br.com

BMA China

Phone +86 871 6832 5226 Fax +86 871 6832 6329 sales@bma-cn.com

BMA France

sales@bma-fr.com

BMA MENA Industries

Phone/Fax +216 71 181 823 info@bma-mena.com

BMA Russia

Phone/Fax +7 473 260 6991 info@bma-ru.com

BMA Turkey

sales@bma-tr.com



© BMA

Postfach 32 25 38022 Braunschweig Germany Phone +49 531 804-0 Fax +49 531 804-216 sales@bma-de.com