

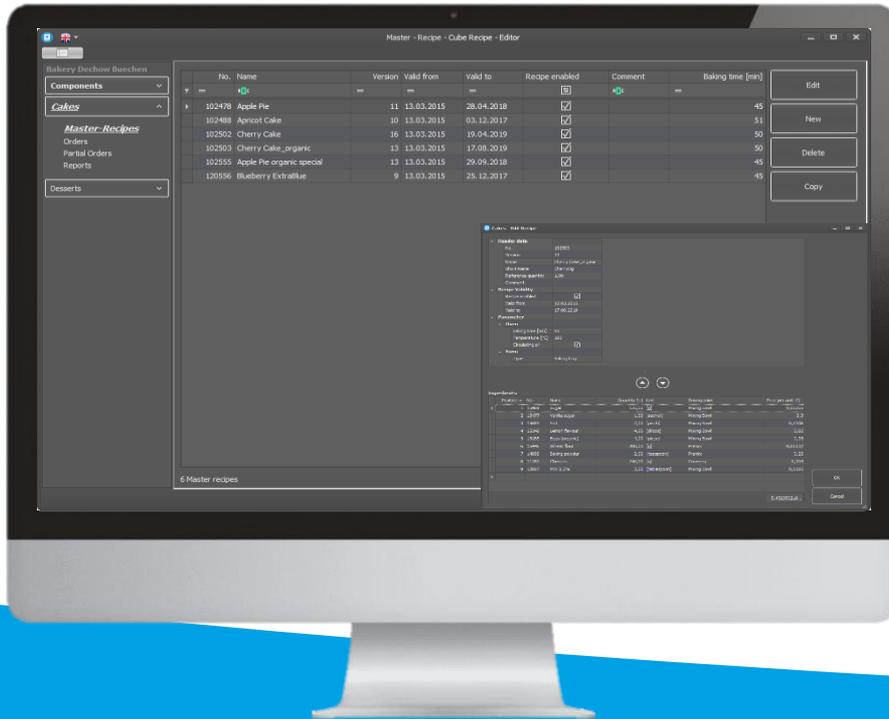


GEA Codex[®] Recipe Advanced

Manage your master recipes with ease

Manage your master recipes with ease with GEA Codex® Recipe Advanced

No matter how complex, the graphical system automatically produces records with recipe setpoints and all measured values.



Your benefits:

- Single access point for data management
- Error reduction and less risk of product variation
- Consistent batch-to-batch production results
- Improved productivity and quality
- Lower cost of compliance
- Faster introduction of new products
- Designed for dynamic production

Track variations in recipe values

GEA Codex® Recipe Advanced is an essential part of the production process. It provides an efficient way to track variations in recipe values, generate reports and both manage and analyze recipes while keeping them safe and secure.

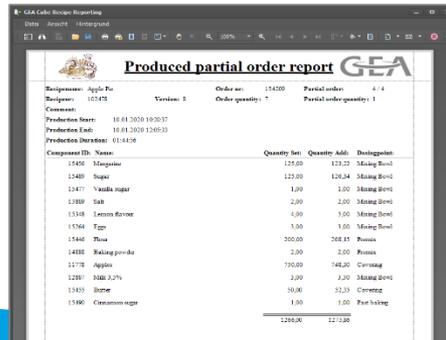
GEA Codex® Recipe Advanced is a “double check” to validate any recipe changes and compare previous versions to ensure compliance with current legislation and transparent production. Material identification is by human readable code and RFID technology so the system can be fully automated for batch execution.

Consistency of process parameters

In any industrial environment, recipe management and execution software — sitting within the Manufacturing Execution System (MES) between the plant floor and Enterprise Resource Planning (ERP) — defines the settings,

parameters, ingredients, access points and quantities, etc., that ensure that product is manufactured in a consistent way.

GEA Codex® Recipe Advanced expands the capabilities of [GEA Codex® Connect](#), by transferring manufacturing execution details to ERP level. This ensures the consistency of process parameters and factors such as raw material consumption and, for example, the weight of individual items.



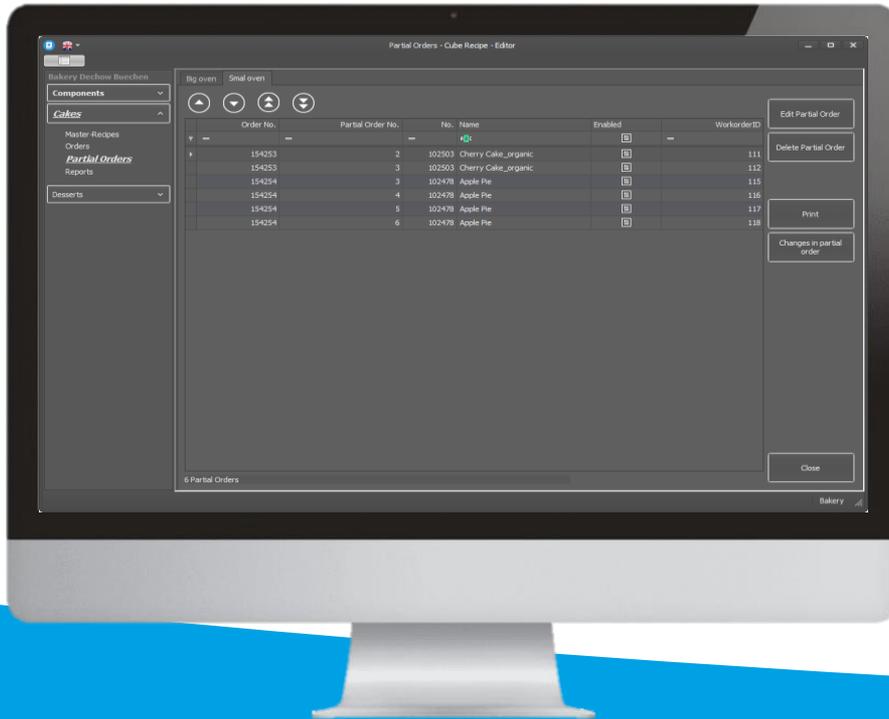
Component ID	Name	Quantity	Unit	Quantity	Addi.	Destination
15406	Margarine	125.00		123.22		Missing Bomi
15409	Sugar	123.00		120.24		Missing Bomi
15411	Vanille sugar	3.00		3.00		Missing Bomi
15389	Salt	2.00		2.00		Missing Bomi
15348	Leaven Bvorte	4.00		3.00		Missing Bomi
15704	Egg	3.00		3.00		Missing Bomi
15441	Flour	300.00		288.85		Promis
14838	Baking powder	2.00		2.00		Promis
11778	Apples	750.00		748.20		Consuming
12881	Milch 2,2%	2.00		2.00		Missing Bomi
13433	Butter	50.00		52.23		Consuming
15100	Consuming sugar	1.00		1.00		Full listing
		1285.00		1217.28		

Key features:

- Recipe management and execution
- Precise definition of all recipe views
- Flexible interaction at PLC level
- Real-time company wide visibility of the manufacturing data
- Recipe analysis and value-change tracking (changelog)
- Report generation.

GEA Codex® Scheduler, overview of future production

GEA Codex® Scheduler enables users to timetable production and choose which orders to produce on demand. A clear visualization provides a complete overview of future production, whereby batch orders can be optimized according to allergic, color or clean-in-place (CIP) requirements if specific rules are defined.



Your benefits:

- Get a clear view to your production planning horizon
- Use production lines and their capacities for easier planning
- Focused visualization with fully flexible views
- Receive orders and report consumption with GEA Codex® Connect

GEA Codex® Scheduler, overview of future production



Split into batches

Orders can be split into batches — manually or automatically — according to line size and availability. Batches may also be assigned to a specific production line if required. Incoming order and consumed material information can be exchanged with an ERP system (see [GEA Codex® Connect](#)).



Focus on visualization tools

As a part of GEA Codex® Recipe Advanced, GEA Codex® Scheduler enables production runs to be planned and ordered using formulae and recipes. Operators can define specific processes using clear and focused visualization tools.



Prioritize ERP-derived orders

It's possible to input and prioritize ERP-derived orders into the production schedule and generate feedback reports, minimizing manual effort and maximizing accuracy. For example, orders can be split into batches or processed according to specific CIP, flow or other requirements.



Get clear guidance

With smart visualization providing a complete production overview, operators benefit from clear guidance when attention is needed based on defined tolerances, ingredients or parameters.

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We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-iversity

GEA is one of the world's largest systems suppliers for the food, beverage and pharmaceutical sectors. The international industrial technology group specializes in machinery and plants as well as advanced process technology, components and comprehensive services. With more than 18,000 employees, the group generated revenue of more than EUR 4.6 billion in fiscal year 2020. A major focus is on continuously enhancing the sustainability and efficiency of customers' production processes. GEA plants, processes and components help achieve significant reductions in carbon emissions, plastic use and food waste in production worldwide. In this way, GEA makes a decisive contribution toward a sustainable future, fully in line with its corporate philosophy of "engineering for a better world."

GEA is listed in the German MDAX and the STOXX® Europe 600 Index, and is also among the companies comprising the DAX 50 ESG and MSCI Global Sustainability Indices.

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