



**TECHNOLOGY**

The specialist for industrial buildings.

**WEIG Packaging**

**INSIGHT**



**Making space - for greater efficiency: As WEIG Packaging's production capacity had increasingly reached its limits over the years, the existing industrial buildings - consisting of a production and storage building - were to be restructured and partially extended. For a holistic operations planning, logistics planning, and building planning, IE Technology, together with GC Graphic Consult, was commissioned to retrofit the existing production halls and to automate selected areas of the manufacturing and logistics processes. The objective: doubling production capacity and implementing an automation concept to increase efficiency.**

WEIG Packaging produces high-quality folding cartons in Germany. At its Emskirchen site, the company primarily manufactures folding cartons for the food industry and relies on a sustainable value chain. In addition to WEIG Packaging, the family-owned group includes the two business units WEIG Board and WEIG Recycling, which specialize in the production of raw board and the recycling of cardboard materials.

# HOLISTIC PLANNING, DIGITALIZATION AND AUTOMATION.

FOR GREATER EFFICIENCY  
AND INCREASED  
PRODUCTION CAPACITY.



*«In our search for a suitable planning partner capable of taking over overall project management and bringing the required industry expertise for a conversion during ongoing operations, we found the perfect solution with IE Technology and GC Graphic Consult.»*

*Stefan Leonhardt, Managing Director WEIG Packaging GmbH & Co. KG*

# SUCCESS FACTORS

# 1

IE-MASTER PLAN AS FOUNDATION

## **HOLISTICALLY DESIGNED.**

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WEIG Packaging first reviewed the strategic direction of its packaging division together with GC Graphic Consult as a sparring partner, assessing potential development opportunities, new corporate objectives, and changing framework conditions. Subsequently, IE Technology developed a multi-stage master plan for the expansion of the Emskirchen production site, taking into account the existing industrial buildings and available areas in a holistic manner.

# 2

INDUSTRIAL CONSTRUCTION PLANNING WITH METHODOLOGY

## **OPERATIONS, LOGISTICS AND CONSTRUCTION PLANNING FROM A SINGLE SOURCE.**

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IE Technology and GC Graphic Consult then developed an overall concept divided into successive subprojects. Over a period of two years, construction measures, relocation of machinery, and expansion of automation systems were implemented step by step. Thanks to the IE methodology, operations planning and building planning were delivered from a single source, including execution and coordination of commissioning for both new and existing machinery.

# 3

DIGITAL AND AUTOMATED PRODUCTION PROCESSES

## **EFFICIENCY THROUGH TECHNOLOGY.**

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WEIG Packaging's production processes were to be made more efficient and, above all, future-proof in the long term. Thanks to their extensive experience and proven expertise in the logistics sector, IE Technology and GC Graphic Consult were able to successfully automate and digitalize a large share of the operational processes and optimally adapt them to the existing conditions at the production site. Many operational planning details were jointly developed with the client, put out to tender, and suppliers were selected. Key components included the automation of material transport using an automated guided vehicle system (AGV), automated packaging and palletizing of folding cartons, waste management, and material transport logistics at the production machines - essential elements for moving towards an economically efficient future.

# 4

INTEGRATIVE APPROACH AS A SUCCESS FACTOR

## **DOUBLING THE PRODUCTION CAPACITY.**

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Extensive industry expertise and an integrative approach were among the key success factors in optimally managing the complexity of manufacturing processes and significantly increasing production capacity. The experts from IE Technology and GC Graphic Consult took responsibility not only for full project and interface management, but also for complete operations planning, building planning, and the targeted selection of required on-site technologies, including associated workforce planning.

# 5

INDUSTRY-SPECIFIC KNOW-HOW

## STEP BY STEP TOWARDS GREATER PRODUCTIVITY.

IE Technology developed a concept dividing the planned extension measures into several subprojects. These included the expansion of parking areas, the conversion of the existing storage hall to create new production space with staff facilities and sanitary installations, and the extension of the waste disposal hall. At the same time, changing areas were refurbished. In parallel, transformer and low-voltage main distribution systems (LVMD) were expanded, along with additional construction measures such as machine foundations and hall cooling systems in the production area.

# 6

FOCUS ON QUALITY AND SAFETY

## EXPANSION DURING ONGOING OPERATIONS.

A jointly developed IE master plan enabled the site expansion to be carried out in multiple phases while maintaining ongoing operations. Construction work had to be executed under highly restricted space conditions and with strict avoidance of dust emissions.

GC Graphic Consult also actively supported workforce planning during the conversion and contributed to process design while acting as the client's representative throughout the project duration.



### IE TECHNOLOGY

- › Planning and execution as general planner

### WEIG PACKAGING GMBH & CO. KG

- › Client



### SEPTEMBER 2017 TO MAY 2020

- › Planning and execution period



### Services

- › Production strategy
- › Master plan
- › Process and operations planning
- › Logistics planning
- › Construction planning
- › Execution
- › Overall project management



### Recipe for success

- › Conversion during ongoing production
- › Operations, logistics, and construction planning from a single source
- › Extensive industry expertise



# IE TECHNOLOGY

Der Spezialist für Industriebauten

## We are the IE Group: Your specialist for industrial buildings.

We plan, design, and construct industrial buildings. Our goal is to maximize the efficiency of your production - with the help of industrial buildings that are perfectly tailored to your manufacturing processes. We work in manageable and therefore effective teams of industry experts whose motivation and initiative you can rely on. Because at our company, all employees are involved in the business. It goes without saying that we also give you guarantees on costs, deadlines, and quality. **IE Plast, IE Food, IE Life Science** and **IE Technology** are part of the IE Group, which has been on the market since 1966 and offers the necessary financial backing - even for large construction projects.



AT HOME IN YOUR INDUSTRY



ENTREPRENEURIAL THINKING AND ACTION



ALL EXPERTS UNDER ONE ROOF



SECURITY THROUGH GUARANTEES

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