

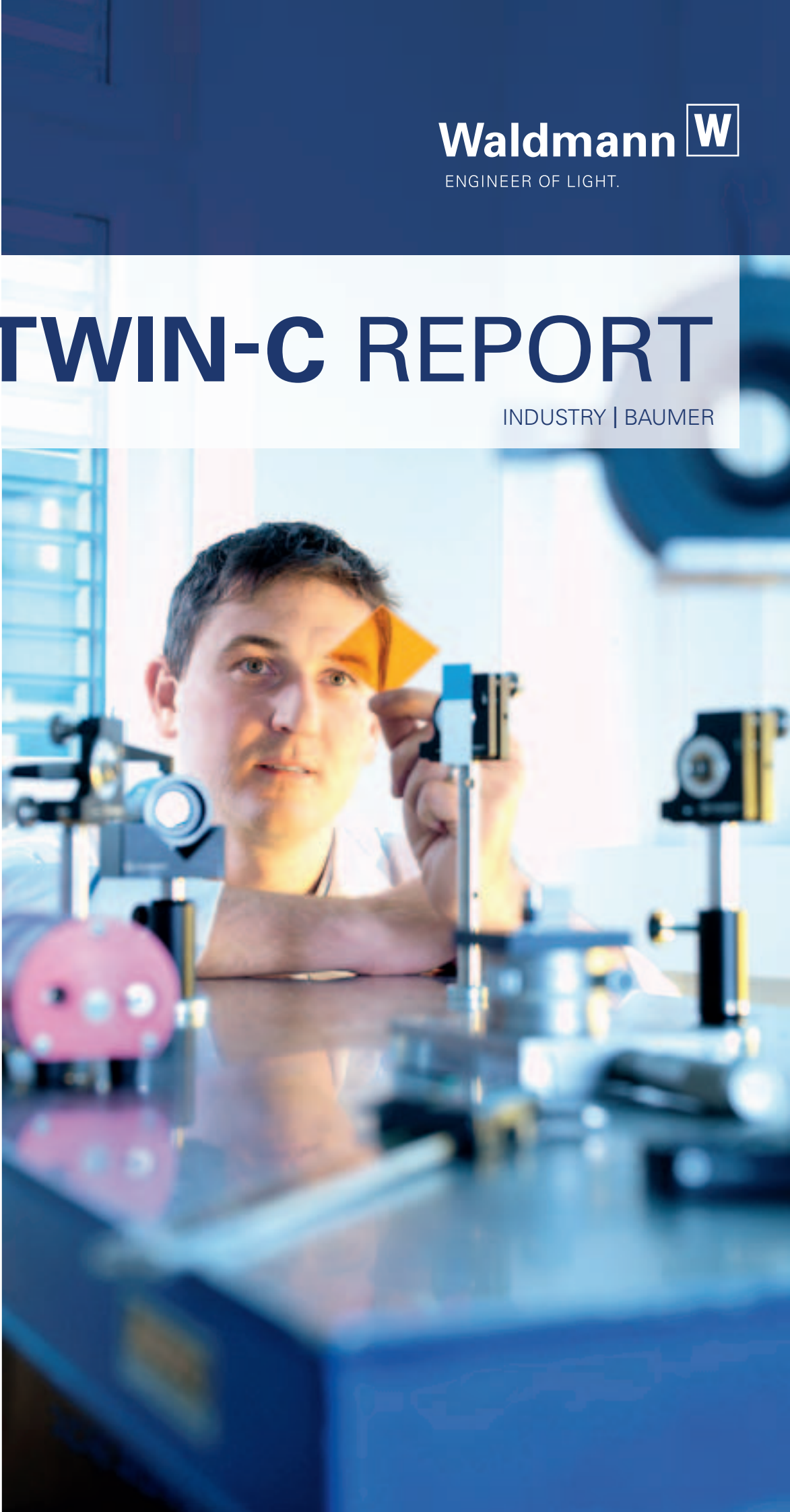
**Waldmann**   
ENGINEER OF LIGHT.



# TWIN-C REPORT

INDUSTRY | BAUMER

CURRENT INFORMATION ON INTELLIGENT LIGHTING CONCEPTS THAT ARE MADE BY WALDMANN



# “WALDMANN WAS THE ONLY ONE WHO HAD ESD LUMINAIRES!”



The Baumer Group in the Swiss town of Frauenfeld is an internationally leading specialist for innovative sensor products and systems. Baumer sensors ensure safe and reliable operations in numerous automated applications all over the world. As a result, they have a large number of customers who come from almost all industries such as energy, procedural and environmental engineering, semi-conductor industry, food and beverage industry or lab technology such as robotics, mechanical and vehicle engineering. Even Formula 1 racing cars have Baumer sensors on board. In short: the application possibilities are almost unlimited – just like the company. With more than 2,500 employees and 36 branches in 18 countries, Baumer takes customer proximity very seriously.



1 Baumer Group in Frauenfeld

2 Sensor solutions by Baumer

Image concept/Image source: Baumer

Whoever values precision and quality over all things also expects this from their partners.

But quality-consciousness is not the only thing that Baumer and Waldmann have in common: For many years, Baumer has been working in accordance with the “MUDA program”. MUDA is the Japanese word for waste. The aim of the MUDA program is to avoid waste in all operating processes in order to create the basis for a streamlined continuous production line with low throughput times and flexible logistics. The MUDA program is the basis of the KAIZEN philosophy, which is also the spirit of the Waldmann Production System WPD. KAIZEN is synonymous with Continuous Improvement Process. This is actively demonstrated by all employees at Baumer and supported with numerous innovative optimization suggestions. One of these suggestions concerned the lighting quality at the manufacturing workplaces.

**Precision work requires precise lighting.**

The sensor manufacture requires the ultimate in precision work because Baumer products are very small. Some of them have a diameter of just 3 mm. The error-free soldering of such miniature sensors not only requires special soldering training, but also optimum lighting conditions.

The manufacturing rooms in Frauenfeld are equipped with ceiling-mounted luminaires. But during the course of the Continuous Improvement Process the topic of lighting quality was also critically illuminated. Better work requires better lighting. This suggestion came directly from the employees who wanted to point out the necessity to optimize the lighting at their work stations. They tested lighting concepts from various suppliers. Waldmann convinced them in two ways: in terms of lighting quality and in terms of ESD (electrostatic discharge).

3 Baumer: distance-measuring sensors.

4 ESD manual workstation in Frauenfeld

Image concept/Image source: Baumer, Waldmann



#### A special challenge: antistatic.

Electronic components are very sensitive to voltage surges, which impact the quality of the precision products, damage their function or even destroy them. This is why Baumer attaches particular importance to ESD. Work shoes, tables, chairs and, of course, task luminaires must not have any electrostatic charge. Waldmann ESD luminaires are equipped with a special coating that prevents electrostatic charge and guarantees a controlled discharge. This product feature is what convinced Baumer to choose Waldmann.



# PRECISE LIGHTING DEMONSTRATES ITS EFFICACY.



At the manufacturing islands, a total of almost 200 Waldmann system luminaires with aluminumized parabolic louvres provide even, bright and glare-free illumination of the work surfaces.

The manual workstations at which very small products are soldered or small numbers of items are manufactured are additionally fitted with around 25 Waldmann ESD magnifier luminaires. Thanks to the two different types of lighting and the 3D ball swivel head, these can be adjusted to each individual visibility requirement.

The Waldmann lighting concepts are very popular with the employees. Because precise lighting not only improves the quality of workmanship and results. It also increases the overall wellbeing. The fact that the lighting concept is also energy-efficient makes it even more attractive.

Positive experiences are a healthy planning basis. Baumer will continue to fit its new workplaces with Waldmann lighting concepts in the future.

## Constructional details of the lighting concept.



SAMCE 236

System luminaire SAMKCE 136 / SAMC 224 / SAMCE 236

Mounting: to the top beam.

Light output: along the entire length of the luminaire. Resulting in bright, even lighting of the working environment.

Glare-free: aluminumized parabolic louvre, which ensures glare-free lighting in accordance with national and international health and safety regulations.

Spare lamp SAMKCE 136:

1 x compact fluorescent lamp 36 W.

Spare lamp SAMC 224:

2 x compact fluorescent lamp 24 W.

Spare lamp SAMCE 236:

2 x compact fluorescent lamp 36 W.



SNL 139 A

Magnifier luminaire SNL 319 A "ESD design"

Mounting: via adaption pins with numerous individual connection options to the workplace.

Light output: U-shaped, resulting in bright and shadow-free illumination of the working environment. Individual adjustment thanks to the two different types of lighting and the 3D ball swivel head.

Spare lamps:

3 x compact fluorescent lamp 9 W.

Magnifier: 162 x 105 mm, 3 diopters, separate pivoting mechanism.

## MORE ABOUT TWIN-C:



### TWIN-C brochure

Find out in our TWIN-C brochure how manual workstations and manufacturing islands can be made even more productive with the right light.

Reduced general lighting on the ceiling and an additional workplace-related lighting is proven to boost productivity, health and safety, while saving lots of energy.

Waldmann not only focuses on fulfilling the EN 12464-1, but also on the customer's economic benefit.

Request our brochure to find out more. Using various TWIN-C lighting solutions, we will show you how to correctly combine luminaires to increase your company's success.

[www.waldmann.com](http://www.waldmann.com)