Waldmann
ENGINEER OF LIGHT.

TWIN-C REPORT

INDUSTRY | JENOPTIK POLYMER SYSTEMS GMBH

CURRENT INFORMATION ON INTELLIGENT LIGHTING SOLUTIONS THAT ARE MADE BY WALDMANN

SUCCESS IS DUE TO MANY PEOPLE.

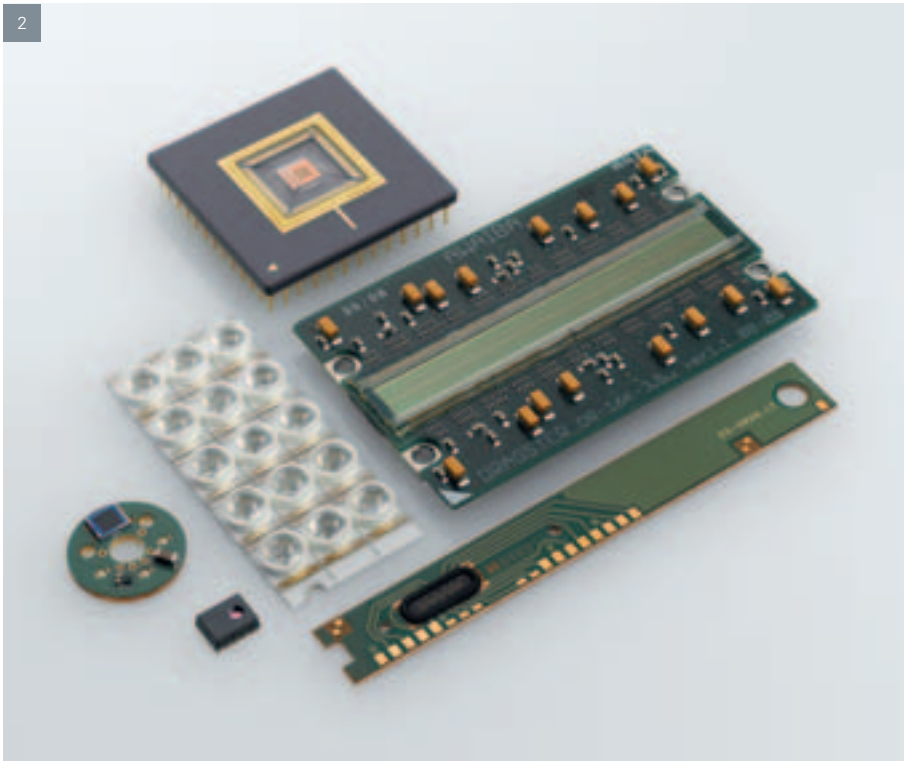
1

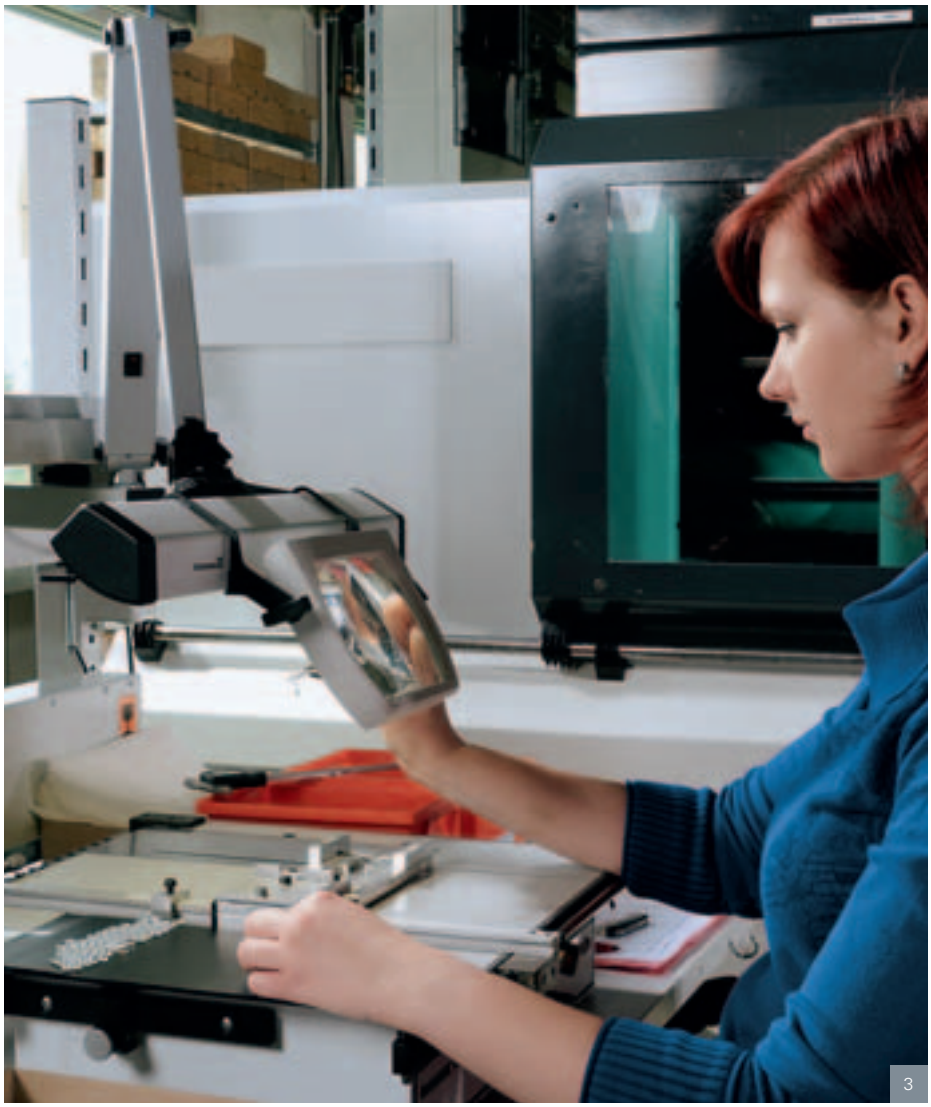
A good cooperation is often the best way to the right illumination and to better results. This is also demonstrated by the special lighting solution for the new system workplaces of the Jenoptik business sector for Optoelectronic Systems in Triptis. Many people were involved in their development, particularly the JENOPTIK employees who were thus able to actively help to design their new workplaces.

The JENOPTIK business sector specializes in plastic optic components and complex optoelectronic and mechanical systems. The competence spectrum comprises product design, chip development, prototype construction, manufacture of optical components and coatings, assembly and connection technology, as well as system integration. There is also a wide variety of customers – renowned companies from healthcare and life science, mobility, optical sensors and lighting.

Waldmann also has its lenses manufactured in Triptis. Because there are so many possible applications, the demand is quite high. As a result, the innovative company has an optimistic future outlook.

2





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1 JENOPTIK Polymer Systems GmbH in Triptis

2 Assembly and connection technology

3 Separation of the lenses from the injection-molded part with a visual inspection

4 Surface technology

Image concept/Image source: Waldmann

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The task: more safety, ergonomics, productivity and energy efficiency.
A professional management for occupational, health and environmental protection at Jenoptik opens many doors, including those for continuous improvement processes. That is why the design of new workplaces for the injection molding manufacture of optical components in Triptis doesn't just include customer requirements such as cleanroom guidelines in the specifications. The employees were also actively involved in the process and contributed to the concept and the design.

One important finding of the roundtable discussions that were held: if the lighting conditions at the workplace could be flexibly adjusted to the respective requirements of the task and the individual visibility needs of the employees, the error, reject and complaint rates could be significantly reduced.

The solution: added value across the board.
A TWIN-C lighting solution was presented as part of a call for bids in the sector of workplace lighting. It featured convincing ergonomics, occupational safety and customization options.

The Waldmann lighting solution consists of two components. Component 1, a Waldmann SAMC system luminaire with two x 36 W compact fluorescent lamps and aluminumized parabolic louvres for glare-free and even illumination of the desk.

The trick: In cooperation with the manufacturer of the workplace system, the system luminaire was applied to a top beam so that it can be moved back and forth along a rail. The luminaire axis can also be rotated by 90° in both directions.

The second component is a Waldmann arm-mounted luminaire ST 124 with 1 x 24 W compact fluorescent lamp and aluminumized parabolic louvre for the glare-free illumination of the respective tasks. For example, the separation of the partly tiny lenses from the injection-molded part, their cleaning with compressed air and the final quality inspection.

You need precise light to do all this!

THE INGENIOUS DESIGN OF THE OVERALL SOLUTION

The roller blinds integrated in the workplaces influence the contrast and enable an additional and individual fine-tuning of the lighting conditions – a key prerequisite for the safe and error-free assessment of optical components.

Teamwork generates measurable success.
The cooperation between the JENOPTIK business sector and Waldmann has not only proven successful as part of the development process. Since the introduction of the new system workplaces with integrated Waldmann lighting solutions with injection molding manufacture, the complaint rates have been significantly reduced. The same goes for the reject rate as the new lighting concept enables the easy identification of even minimal errors. Thanks to the improved ergonomics of the workplaces, less employees are taking time off due to illness. The employees are very pleased with the new workplaces. Because they actively helped to design them. That fills them with pride and motivation.

SAMC 236

ST 124

Technical details of the lighting solution:

SAMC system luminaire
Mounting: Fastened to the rail of the top beam, can be individually pushed back and forth. Plus: The luminaire axis can be rotated by almost 90° in both directions.
Light output: along the entire luminaire length. Bright, even and standard-compliant illumination of the work environment. Glare-free (aluminumized louvre) in accordance with national and international occupational safety regulations.
Lamps: 2 x 36-W compact fluorescent lamps.

ST universal luminaire (arm-mounted luminaire)
Mounting: on an additional, two-part jointed arm, easily and individually adjustable. Glare-free (various fittings and glare-free options available) in accordance with national and international occupational safety regulations.
Lamps: 1 x 24-W compact fluorescent lamp.

MORE ABOUT TWIN-C:

TWIN-C brochure

Read our TWIN-C brochure to find out how assembly workplaces can be made more productive by the right light.
A reduced overall lighting on the ceiling plus a workplace-related lighting are proven to increase productivity, safety and health, as well as save a lot of energy.

At Waldmann, we not only focus on the observance of EN 12464-1, but also on the economic customer 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