Planning, Design and Production

Our number one priority is to design and produce solutions that will meet your specific needs.

Every lighting system is custom designed on a modern 3-D CAT modeling system, which can be easily integrated into building layout plans. By illustrating the solution, we can communicate movement in complex systems. This allows us to analyze and eliminate potential issues or failures before production begins.

Technical Support

Ensuring your equipment's long-term reliability and service life requires regular inspections and maintenance.

When operating solar simulators, poorly maintained systems can be susceptible to inconsistent and decreased power or light emissions, which may impede camera functionality. Proper maintenance will ensure that your system remains within specification and continues to provide reliable and repeatable data.

Atlas Custom Systems is committed to providing its clients not only with systems that give accurate test results, but instruments that will stand the test of time.

"It makes us proud to visit clients and see our lighting systems still running smoothly after 20 years in operation," says Atlas Custom Systems Service Manager Karl Hinz-Roth.

Atlas Custom Systems utilizes state-of-the-art solar simulation software to design innovative solutions to meet a wide range of lighting requirements. Every lighting system is custom designed on a modern 3-D CAT modeling system, which can be easily integrated into building layout plans. By illustrating the solution, we can communicate movement in complex systems. This allows us to analyze and eliminate potential issues or failures before production begins.

Our clients - here is a list of companies we have had the opportunity to work with:

- 3M
- ABB
- AILC
- ACTS
- Aker Solutions
- Americas Laboratory Ammonia-Water ARTC
- Anadarko Petroleum
- BASF
- Bernardo (Germany)
- BIMM
- Boeing
- BASF
- EADS
- Citizens of Tomorrow University
- Columbia University
- Continental Automotive
- Continental Automotive Engineering
- CTS
- Donaldson
- Dornier
- Deutz
- Drägerwerk
- Denver International Airport
- DOT
- EADS
- EDF
- Emcore Corporation
- Emcore Corporation
- Emirates
- ESPE
- ESPE
- EVRAZ
- Farbwerke Bayer AG
- FEV
- Francisville<br>Technical Support

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Atlas Custom Systems offers 40 years of expertise in customized lighting solutions.

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Our Local Representatives - Worldwide

Technical Lighting

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Fax: +49 69-9288-0

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Fax: +1 937-377-1997
Contact: atlas@amat.com
**Expert Solutions for Light and Sun**

With 46 years in research and development of artificial sunlight, Atlas Custom Systems has emerged as a global leader specializing in technical lighting systems for Solar Simulation and high-speed photography.

**Atlas Custom Systems** offers an array of lighting solutions starting with initial consultation through to the final realization of turnkey project delivery. Our expertise covers applications in automotive, transportation, aviation, semiconductors, and many others.

In addition, Atlas Custom Systems understands the obstacles clients face in creating light, specifically in crash test facilities. As one of our core competencies, Atlas Custom Systems works to ensure proper lighting conditions for various scenarios and, with our expertise in this field, we assist clients in overcoming these challenges.

“Our know-how and efficient team has been working together on complex projects for over 40 years and it’s always a pleasure to watch them in action,” says Innovation Vice President and Managing Director Martin Wieting.

As a unit of AMETEK, Atlas Custom Systems has the ability to partner with AMETEK’s extensive global network of 100 manufacturing facilities and over 120 sales, service, and support centers in over 40 countries to provide clients with fast and reliable service.

**Solar Simulation / SolarConstant**

The Sun’s radiation in combination with ambient temperature and relative humidity is considered the major cause of material degradation. Therefore, simulating solar radiation for testing purposes can be a challenge, though, Atlas Custom Systems has the perfect solution – the SolarConstant.

“The first 15 years of experience in working with our standard steel Solar Simulation equipment and custom-designed larger systems (i.e., walk-in chambers or full-scale test facilities) showed us that, in order to address the challenges of this complex field, we must develop specific lighting solutions. This is the reason why we have moved our solar simulation technology in accordance with the German Standard (DIN 50090-8:1981), a standard that has been developed in order to ensure the most accurate and reliable simulation of solar radiation. The SolarConstant is a high-pressure unit that guarantees the same conditions at any time, ensuring the reliability and longevity of the equipment. The SolarConstant provides high-quality and consistent light to the sun and the environment conditions, as well as efficient operation. This is the reason why we have chosen Atlas Custom Systems as our solar simulation technology provider.”

**Customized Systems**

Today’s large-scale industrial testing facility projects are driven by the need to formulate global strategies. As modern technology challenges increase, so do the requirements for precision and efficiency. At Atlas Custom Systems, our expertise in developing innovative products is built on a foundation of years of practical experience.

Andreas Kühnle, Vice President of Sales and Business Development at Atlas Custom Systems, emphasizes the importance of working with the leading global supplier of Solar Simulation and Crash Testing Systems: “The long-term success of custom test facility projects is crucially dependent on achieving a high level of efficiency and cost-effectiveness. We have achieved this by working with a partner that has the necessary expertise in intelligent design. This collaboration not only ensures the successful completion of our clients’ projects but also continues to be a cornerstone of our company.”

**High-Speed Lighting**

The automotive industry conducts numerous crash tests in order to improve safety technologies. This testing is complex, requiring high-speed photography with 2-D and 3-D camera systems in combination with an analysis of the lighting conditions. The resulting images are crucial for evaluating the performance of new automotive parts and components.

Atlas Custom Systems has perfected the latest high-speed photography technology, which consists of a standard set of optical principles, such as short-term exposure times, high-speed film cameras, electronic composition, and hardware. The technology is designed to meet the needs of the automotive industry and ensure that the testing procedures are as accurate and efficient as possible.

“We have never had too much light!” is still a valid remark made by high-speed photographers today. This is where our technical team excels by creating high-quality and consistent lighting solutions. We have developed a system that allows for a higher standard of safety and quality in crash tests, enabling our customers to achieve the highest standards of accuracy and efficiency.

**Atlas Custom Systems** provides professional and engineered lighting solutions based on Material Handling (MHI) and the latest LED technology.

The Atlas Custom Systems HIGH-SLIGHT series based on MHI technology allows the seamless use of conventional LED lighting solutions. For example, it significantly reduces the required space for lighting applications, which is particularly relevant in the automotive industry. The system is designed to be used within a specific temperature range, improving the value of the data they provide.

**Profit Planning**

“Profit Planning” is an essential part of any successful business strategy. It helps companies to identify and prioritize their financial goals, ensuring that resources are allocated efficiently. By adopting effective profit planning strategies, businesses can enhance their overall performance and achieve long-term success.

**Benefits**

- **Expertise in high-speed lighting**
- **Comprehensive high-speed lighting solutions**
- **High-level knowledge and technical expertise**
- **High-quality and consistent light to the sun and the environment conditions**
- **Efficient and cost-effective operation**

**Contact Information**

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