

GLASS

# APOLLON

The high-benefit  
coating system for glass  
and PV applications



LEYBOLD OPTICS

## Meeting individual requirements

LEYBOLD OPTICS is a synonym for leading technologies in the vacuum industry. It is the company's aim to supply economical and at the same time high-quality systems which guarantee unequalled process stability and perfect coating results. The business unit 'Glass' continues this long tradition and transfers the proven know-how to the world of today. LEYBOLD OPTICS develops high-capacity vacuum systems for the refinement of glass substrates. These are used in the production of elements for the building industry as well as on the new market of photovoltaics.

### **LANDMARK TECHNOLOGY ALLOWS ONE OF THE HIGHEST THROUGHPUTS**

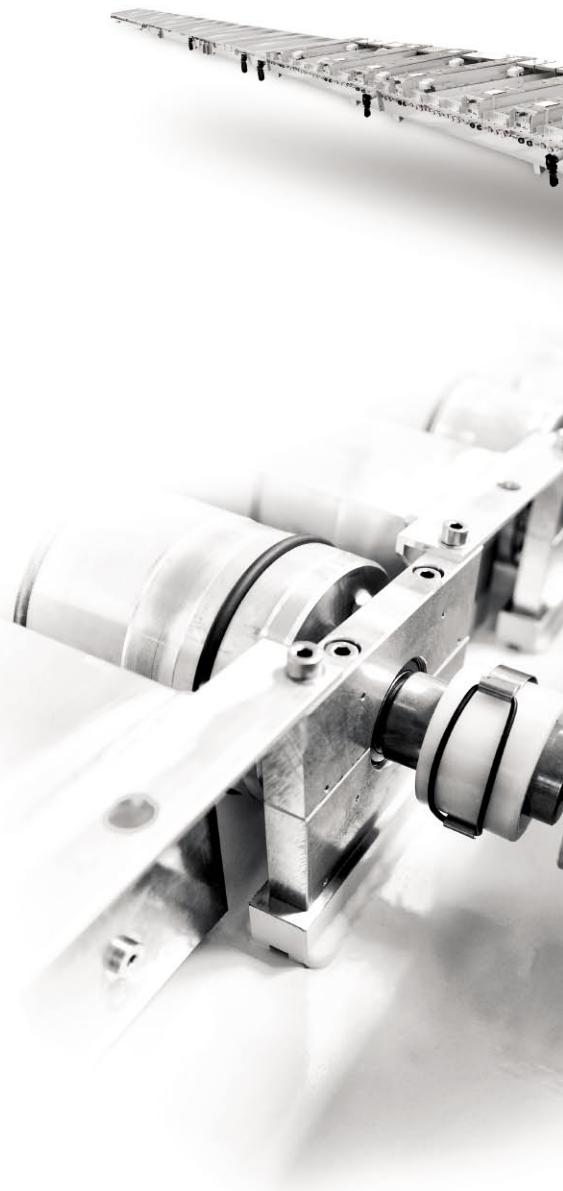
Apollon is a sputtering coater, designed for the automated deposition of low-E, low-E sun, solar control, and other high-performance architectural as well as functional coatings. This unique system combines characteristics that belong together – high throughput with optimized running costs. With many years of experience and their drive for innovation, the engineers at LEYBOLD OPTICS have made Apollon one of the most flexible systems for a wide range of applications for the architectural glass and solar market.



Apollon combines essential characteristics – high throughput and minimum running costs.

### **A MODULAR DESIGN AND EFFICIENT SOLUTIONS**

Apollon is prepared for future tasks even today. Its sputter compartments, for example, can be equipped with any conceivable type of cathode, ion beam gun or other sources. Alternatively, they can be employed as gas separation segments only. The vacuum pumping system is equipped with turbo-molecular pumps to create a hydrocarbon-free residual gas atmosphere. Apollon boasts high reliability and economical operation because of low electrical power consumption. These options in combination with a maintenance-friendly design make Apollon a valuable investment in the future.





### **KEEPING AN EYE ON THE PROCESS**

The in-line and real-time measuring system developed specifically for Apollon gives the operating personnel full control of the system and the reactive sputtering process. This monitoring tool works with the help of vacuum-oxygen sensors based on the lambda-sensors technology well-known from automotive engineering. It always provides exact results.

### **HOT OR COLD: PROCESSING OF SUBSTRATES**

Based on a completely new approach, Apollon achieves high-quality layers at every conceivable coating process. Thus the 'Hot Apollon' allows for comparably high productivity and outstanding layer performance.

### **CUSTOMER SUPPORT**

Even after the products of the various spheres of our business have been handed over to our customers, our customer support provides comprehensive service worldwide. Our staff offers assistance in production and process planning, supplies spare parts, vacuum components, and testing agents. The support specialists also concern themselves with used systems and conversions.

LEYBOLD OPTICS – Science & Technology  
for a better life.



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