



3D-COATING

The sputtering system for
metallizing large and complex
three-dimensional parts

PylonMet vXL



LEYBOLD OPTICS

Meeting individual requirements

The name of LEYBOLD OPTICS is renowned all over the world for well thought-out solutions for the coating industry. Our philosophy: manufacturing coating systems that do not only excel in their absolute process stability and the perfect results they produce, but also in low costs of ownership. Our systems always meet the highest demands on handling while requiring only the least possible amount of maintenance work. But LEYBOLD OPTICS stands for even more: unique systems with tailor-made manufacturing processes.

The department of research und development is responsible for the constant technological lead of our company.



Optimizing your workflow

Our PylonMet sputtering system comes up to these high standards and meets the requirements of 'just in time' manufacturing by combining high-speed throughput with excellent coating results. The rotating pylon carrying the substrates enables it to metallize even large and complex three-dimensional parts that fit into a working envelope of up to 750 mm (29,5") in diameter and 1,270 mm (50") in length. The PylonMet can carry out various processes to suit every customer's individual requirements - including top coat, base coat, sputter metallization using high-rate IPT cathodes, and the patented LEYBOLD OPTICS 'Haze-No-More' process. Consequently, putting reflective and/or protective coatings on complexly-shaped substrates, as e.g. on automotive and down-light reflectors, does not pose any problems.

FIELD-PROVEN ELEMENTS

Most of the PylonMet components and processes are also used in our DynaMet coating system. More than 75 of these systems are currently doing their duty worldwide. This is not only an indication of the superiority of our technology, but also guarantees that spare parts will always be quickly available if need be.

FREELY PROGRAMMABLE

The type of substrate used determines the process sequence, which can be programmed freely according to individual requirements. The total cycle time varies with the choice of process and setting, the geometry and material of the substrate, and the environmental conditions.

NEVER MISSING A DETAIL

Our PylonMet controls itself during production. Throughput figures and quality, fault diagnosis and maintenance: the comprehensive system control does

not miss a single fact. All process parameters are pre-selectable. And during service the system can be switched to manual operation without disconnecting any safety interlocks.

SAVING SPACE

Perfection is not only reflected in good results, but also in the way they are achieved. For that reason, just like all the other systems produced by our company, the PylonMet causes some additional surprise: measuring just 3 metres (9,8 ft) in width and 6.2 metres (20,3 ft) in length, it helps to save a lot of space on the production floor.

MINIMUM DOWNTIME

Maintenance is no trouble spot either. Our maintenance and field engineers have made the very best use of all their experience in designing the PylonMet. The downtime necessary for cleaning is kept at a minimum, because all areas of the process chamber and the process modules are quickly accessible and all the parts can easily be removed. Even when the liners need to be replaced once per shift, this takes just about 15 minutes.

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 offer assistance in production and process planning, supply spare parts, vacuum components and testing agents. The support specialists also concern themselves with used systems and conversions.

Stay one step ahead - with LEYBOLD OPTICS.



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