

# Metallization System

## 金属化系统

### **META CIRCLE**



## Key Figures

- Technology: DC-Magnetron Sputtering MF-Plasma Activation & Polymerization
- Cycle time: min. 36 sec
- Carrier size: 850 mm x 460 mm x 210 mm (L x W x H)
- Footprint: 11,000 mm x 8,500 mm (incl. handling and service area)

## Applications

Metallization of:

- Reflectors in automotive- & lighting industry
- Decorative components in automotive industry
- Consumer products & household appliances

## Features

- Coating with all metals that can be sputtered and SiO<sub>x</sub> top coat
- Short cycle time down to 36 sec due to multi chamber system
- Ready for automatic substrate loading and –unloading
- Horizontal material flow
- Two-level structure
- Data logging for process analysis and quality control

## Customer Benefits

- Ready for integration into fully automatic production lines
- Automatic loading and unloading reduces scrap and labour costs
- Low mounting costs due to horizontal material flow
- High variety of coating materials due to sputtering process
- Optimization of production area due to two-levels structure
- Industry 4.0 - ready

## Standard Coating Materials

- Aluminium
- Chromium
- Titanium
- Stainless steel

特性

- 技术: 直流磁控溅射MF-等离子活化和聚合
- 循环时间: 低至36秒
- 转架尺寸: 850 mm x 460 mm x 210 mm (长 x 宽 x 高)
- 占地面积: 11,000 mm x 8,500 mm (包括操作和检修区)

用途

- 对下列产品进行金属化:
- 汽车和照明行业的反射镜
  - 汽车行业装饰零部件
  - 消费品和家用电器

工艺特点

- 喷涂各种可溅射金属, 表面喷涂  $\text{SiO}_x$
- 采用多腔系统, 循环时间缩短至36秒
- 可自动装卸基材
- 材料水平流动
- 两级结构
- 采集数据, 用于工艺分析和质量控制

客户利益

- 可集成至全自动生产线
- 自动装卸, 降低废品和人工成本
- 材料水平流动, 安装成本低
- 采用溅射工艺, 涂层材质多样化
- 两级结构, 优化生产区域
- 可实现工业4.0

涂层类别

- 铝
- 铬
- 钛
- 不锈钢

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