

Metallization System

金属化系统

MINIMET



Main Features

- Technology: DC-Magnetron Sputtering or HIPIMS
MF-Plasma Activation & Polymerization
- Cycle time: min. 40 sec
- Carrier size: 300 mm x 200 mm x 120 mm (L x W x H)
- Footprint: 6,000 mm x 4,250 mm (incl. handling and service area)

Applications

Metallization of:

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

Process Benefits

- Coating with all metals that can be sputtered and SiO_x top coat
- Short cycle time down to 40 sec due to multi chamber system
- Horizontal material flow
- Ready for automatic substrate loading and –unloading
- Compact design for fast installation
- Data logging for process analysis and quality control

Customer Benefits

- Ready for integration into lean production flow with robotic loading/unloading
- Small footprint, matches injection moulding system
- Simple substrate mounting, substrate rotation optional
- Pick and place substrate holding suitable for robotic handling
- Plug and play operation
- Industry 4.0 – ready

Range of Coatings

- Aluminium
- Chromium
- Titanium
- Stainless steel

特性

- 技术: 直流磁控溅射或HIPIMS MF-等离子活化和聚合
- 循环时间: 低至40秒
- 转架尺寸: 300 mm x 200 mm x 120 mm (长 x 宽 x 高)
- 占地面积: 6,000 mm x 4,250 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 SiO_x
- 采用多腔系统, 循环时间缩短至40秒
- 材料水平流动
- 可自动装卸基材
- 结构紧凑, 安装快捷
- 采集数据, 用于工艺分析和质量控制

客户利益

- 采用机械手装卸, 可集成至精益生产流程
- 占地面积小, 与注塑成型系统匹配
- 基材安装简单, 可选基材旋转
- 挑选并放置适合机械手操作的基材夹具
- 即插即用
- 可实现工业4.0

涂层类别

- 铝
- 铬
- 钛
- 不锈钢

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