

RTSP1400-PLUS

RTSP-Chrome Coating on Automotive Industry
磁控溅射镀铬在汽车行业的应用



Technology Background

PVD hard Chrome deposition with magnetron sputtering technology which is an advanced coating solution to replace the wet chrome electroplating process. Compared with thermal evaporation coating, sputtering deposition's film has better adhesion and much harder performances.

Royal Technology provides 3 standard machines to satisfy different productivity's demand:

RTSP 900, capacity 1 piece; small size, mostly for repairing service

RTSP1400, capacity 4 pieces; medium size, for small scale of manufacturing

RTSP1800, capacity 8 pieces; big size, for vehicle wheels massive production

技术背景

采用磁控溅射技术的PVD镀铬是一种先进的可代替传统湿式水电镀镀铬的工艺。与热蒸发技术相比，磁控溅射镀膜所获得的膜层附着力更好，膜层硬度更高。

永容科技 提供 3 种标准机器，以满足客户不同产能的需求：

RTSP 900，装载量 1 件；小型，主要用于维修服务

RTSP1400，装载量 4 件；中型，主要用于较小规模生产型

RTSP1800，装载量 8 件；大型，主要用于较大规模生产型

Main Features 主要特征

Green technology, environmentally friendly process

PVD Chrome wheel is 80% lighter than chrome plated wheels

PVD Black Chrome / PVD Bright Chrome / PVD Neo-Chrome finishings can be generated

绿色技术，环保工艺；

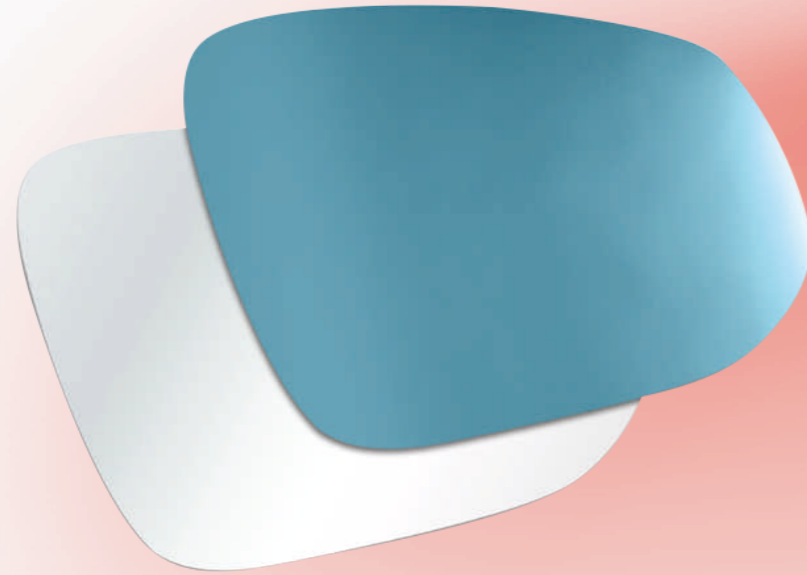
PVD 镀铬轮毂比水电镀镀铬轮毂轻 80%

可生成 PVD 黑铬 / PVD 亮铬 / PVD 彩色等

A red hexagonal icon with the text "Coating Samples" and "镀膜样品" inside.

Technical Specifications

技术参数



Description	For Car Mirror RTSP1400-PLUS	For Car Wheels RTSP900	For Car Wheels RTSP1400	For Car Wheels RTSP1800
Targets Available	Chromium, Aluminum, Stainless Steel, Copper, Brass, Titanium, Silver etc.			
Capacity	Max.4.86sqm	Max.size:27" x 1 Unit	Max.size:25" x 4 Units Max.size:27" x 2 Units	Max.size:22"x 8 Units
Deposition Chamber	φ1400 * H1600mm	φ900 * H900mm	φ1400 * H1600mm	φ1800 * H1800mm
Load Diameter(Max.)	6*φ360mm	1 axis	1 axis	4 axes * φ560mm
Load Height(Effective)	1200mm	700mm	1100mm	1400mm
Deposition Sources	4 sets cylinder sputter 1 set planar sputter	2 sets planar sputter W125*L850mm	2 sets planar sputter W125*L1350mm	2 sets planar sputter W125*L1650mm
Sputtering Power	Max. 40KW	Max. 30KW	Max. 40KW	Max. 60KW
Operation & Control System	CE standard Mitsubishi PLC+ Touch Screen Operation Program with backup			

These configurations are the standard. For a specific developing market and new special coatings, customized configurations and modifications are available on request.

描述	汽车后视镜 RTSP1400-PLUS	汽车轮毂 RTSP900	汽车轮毂 RTSP1400	汽车轮毂 RTSP1800
可镀膜材	铬、铝、不锈钢、铜、黄铜、钛、银等			
装载量	最大4.86 平方米	最大27" x 1 件	最大25" x 4 件 最大27" x 2 件	最大22" x 8 件
镀膜腔体	φ1400 * H1600mm	φ900 * H900mm	φ1400 * H1600mm	φ1800 * H1800mm
工件最大有效旋转直径	6*φ360mm	单轴	单轴	4 轴 * φ560mm
工件有效装载高度	1200mm	700mm	1100mm	1400mm
膜沉积源	4 支圆柱阴极 1 支平面阴极	2 支平面阴极 W125*L850mm	2 支平面阴极 W125*L1350mm	2 支平面阴极 W125*L1650mm
磁控溅射电源	最大 40KW	最大 30KW	最大 40KW	最大 60KW
操控系统	CE标准 三菱 PLC+ 触摸屏 操作程序备份件			

以上列表为设备标准配置，针对特殊的应用领域需要开发新的涂层，可根据所需工艺要求提供定制设备。