

# TAIYO

TAIYO MANUFACTURING CO.,LTD.



SUSTAINABILITY FOR TOP-CLASS PLASTIC PARTS

## WE CAN ...

- ... shape the future of plastic electroplating for automotive interiors with our state-of-the-art and eco-friendly solutions.
- ... commit to protect the environment for future generations without compromising the most demanding quality requirements.
- ... provide customers from all around the world with high-quality plastic products made to meet their expectations.

## HOW CAN WE DO IT?

### 1 Cr (VI) FREE

- 100% Chrome (VI) free processing from pre-treatment to final processing.
- Reduced environmental impact with high level performance and specifications.
- Compliance with EU REACH requirements
- Applicable to multi-injection moulded products (1K, 2K & 3K)



**non-hexa**

**SUSTAINABLE DEVELOPMENT GOALS**

### Current Status (Using Chrome VI)

- Chromic acid etching (Pre treatment)
- Chrome (VI) (Electroplating)
- Environmental impact
- Current production



### After Chrome (VI) ban (202?)

- **New production line (started in Feb. 2022)**
- Permanganic acid etching (Pre treatment)
- Chrome (III) Electroplating
- Safe disposal
- Eco friendly



## 2 COLORS



### Real Copper

- Plating process up till the first copper layer
- Additional top coat to improve the corrosion resistance



### Real Bronze

- Copper tin alloy used to reproduce from silver bronze to gold bronze colors
- Additional top coat to improve the corrosion resistance



### Real Black

- Achieved through Chrome (III) plating (black)
- Additional top coat improves the corrosion and fingerprint resistance



### Paint over chrome

- Colorized coatings on chrome to achieve color variations
- Maintaining the original feeling and the vivid color of metal prevails
- Getting the authentic feel of metal

## 3 TEXTURED PARTS

- Laser etched on molds with a variety of fine designs for injection molding and plating.
- Suitable for 3D surfaces and where chemical etching has limitations
- Laser programming - Easy duplication on other parts.
- Tailor-made designs available.
- Fine, intricate textures kept after plating by means of our own non-levelling technology.



Hairline design  
(Laser etching)



Spin design  
(electroforming)



# 4 PAINTING & LASER

- Manufacturing of painting and laser etched parts
- Wide range of painting and printing capabilities: premium surface finishing in polished, textured, printed or painted parts
- Possibility of adjusting colors to go beyond our customers' needs and expectations
- Ongoing painting business with American OEMs (FORD, GM, FCA) as well as Japanese OEMs



## CONTACT INFORMATION

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