

# Porcelain Enamel (PE) Powder Coating: Premium Appliances

Highest quality robotic application of  
porcelain enamel powder onto flatware  
and cavities (Slovenia).



## Project Overview

### What's new on the installation?

First fast color changeable system in the PE market, where flatware and cavities can be enameled in one booth.

### Manual touch up needed?

No. This line is running 100% automatic.

### What was the biggest challenge?

Achieving with only one PE powder type highest quality demands on the premium products which is resolved by Encore<sup>PE</sup> guns.

## Specifications:

Year of construction: 2013  
Type of components: Appliance  
Parts material: Metal  
Product height: 1.65m  
Product width: 0.8m  
Conveyor: Continuous  
Controls: PowderPilot

Coating surface: 2.200 flat panels  
per day; 750 cavities per day  
Cabin: Delta<sup>PE</sup>  
Exchange by colour: Filter module:  
Filters: 20.000m<sup>3</sup>  
Colour change: Average 30 mins  
Powder Center: Rotary Sieve  
Robots: 2 x ABB

Gun assembly: Robotic combined with fixed guns  
Automatic: 24 x Encore<sup>PE</sup>  
Pump type: Encore PE (venturi)  
Requirements / features:  
- Combi booth where same robot guns spray cavities  
and flatware  
- HDLV transfer pumps for smooth virgin and reclaim  
powder feed