



Hangzhou Color Powder Coating Equipment Co., LTD

Email: export@colourspray.com Phone: 0086 13967171593 Website: www.colo-group.com

Application Success Story of Pretreatment - Canada

Request for high quality pretreatment equipment for powder coating

This company Metaltech-Omega from Canada, Since 1960, they develop, manufacture and sell a wide range of safe, reliable and innovative steel products, such as SAFETY GUARDRAIL SYSTEM, TEMPORARY FENCES, ALUMINUM SCAFFOLDING.



Their Requests:

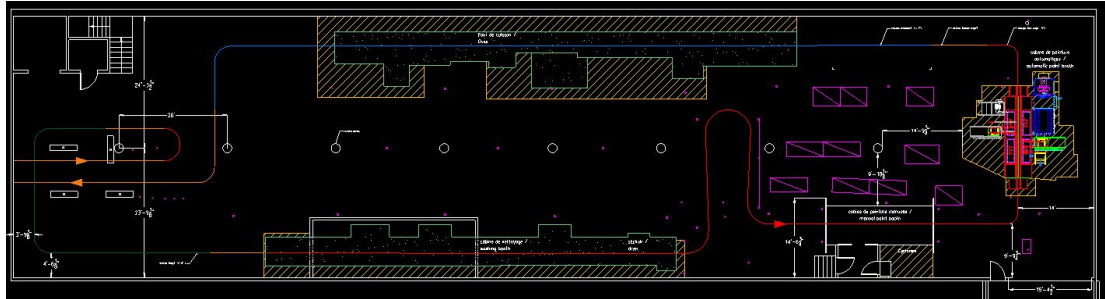
- 1) Replace the **pretreatment equipment** and **drying oven** in the old painting line.
- 2) Save space, their factory height is limited
- 3) high production, fast powder coating line need
- 4) Less labor use, less maintenance, easy operation
- 5) Long life of the spraying equipment



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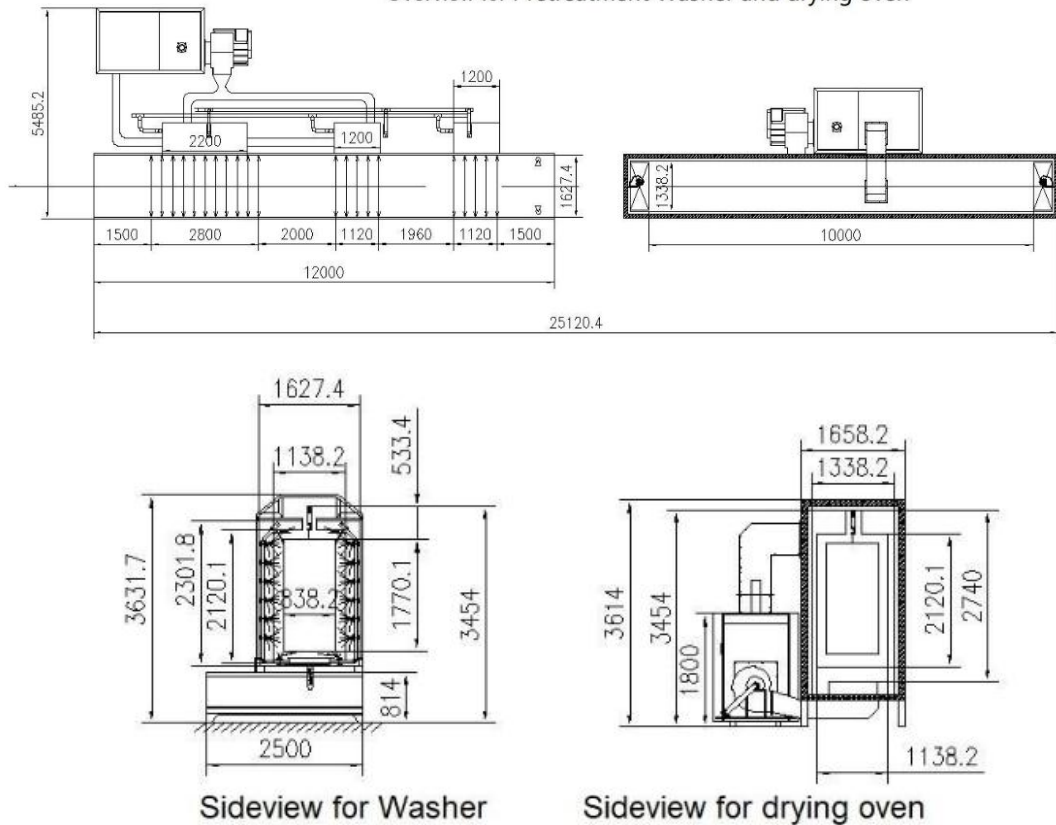
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The drawing of their old powder coating plant:



COLO design the new equipment for washing area and drying area.

Overview for Pretreatment Washer and drying oven



Pretreatment Washer Specifications

Washer Inner size: L12*W1.63*H2.46m, Opening size: W1.14*H2.12m

Materials: stainless steel, SS304 t=4mm, Down frame: 8# square tube

Soaping tank: L2.5*W2.2*H0.6m, 1pc

(Rust removal, degreasing, phosphating / three-in-one station):

Hot Rinse tank: L2.5*W1.2*H0.6m, 1pc

Rinse tank: L2.5*W1.2*H0.6m, 1pc



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Water pump: 7.5kw 1pc, 3.75kw 2pcs

Shower device: 3 sets

Shower treatment time: soaping - 180s, hot Rinse - 60s, Rinse - 60s

Drainage steam device: 1 set, 0.75kw fan

Heating devices: 1 set 400,000 kcal burner

Blowing water duct: 2.3M, air knife 2pcs, 3kw fan

Drying Oven Specifications

Internal size: L*W*H=L10*W1.34*H2.74m, Opening size: W1.14*H2.12m

Material: rock wool board/ T=100mm, edging SGCC/T=1.5mm

Down stand 8# square tube, inner shelf 6# square tube

Combustion chamber: 1pc with 300,000 riello Burner

Insulation Fan: 11kw, 1pc, 15000m³/h air flow

2pcs air curtains for the ovens, 2.2kw fan

Washing Equipment



Washing Steps

Step 1: Soaping (rust removal, degreasing, phosphating three processes in one station), require heating, spraying time is 180s

Step 2: Rinse, require heating to clean the parts, spraying time is 60s

Step 3: Rinse, no heating required, wash the parts for subsequent drying step, spraying time is 60s



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Why choose COLO equipment?

The project focus on the washing equipment, because there are some problems existing in customer's old line, such as water leakage. Thus customer requires more on materials, we use 4mm stainless steel instead of 2mm stainless steel.

To meet Canada CSA & NEMO Standard, we use SIEMENS electrical components for the heating machine instead of other brand.



Thank you for choose COLO, this customer ordered the powder coating machine and powder feed center from us before, they are quite satisfied with the quality.

COLO has 10 years experience in producing powder coating equipment, we hope we could offer more and more suitable solution for the customers all over the world.