

Application Success Stories

SIEMENS Power Supply Systems

SIEMENS

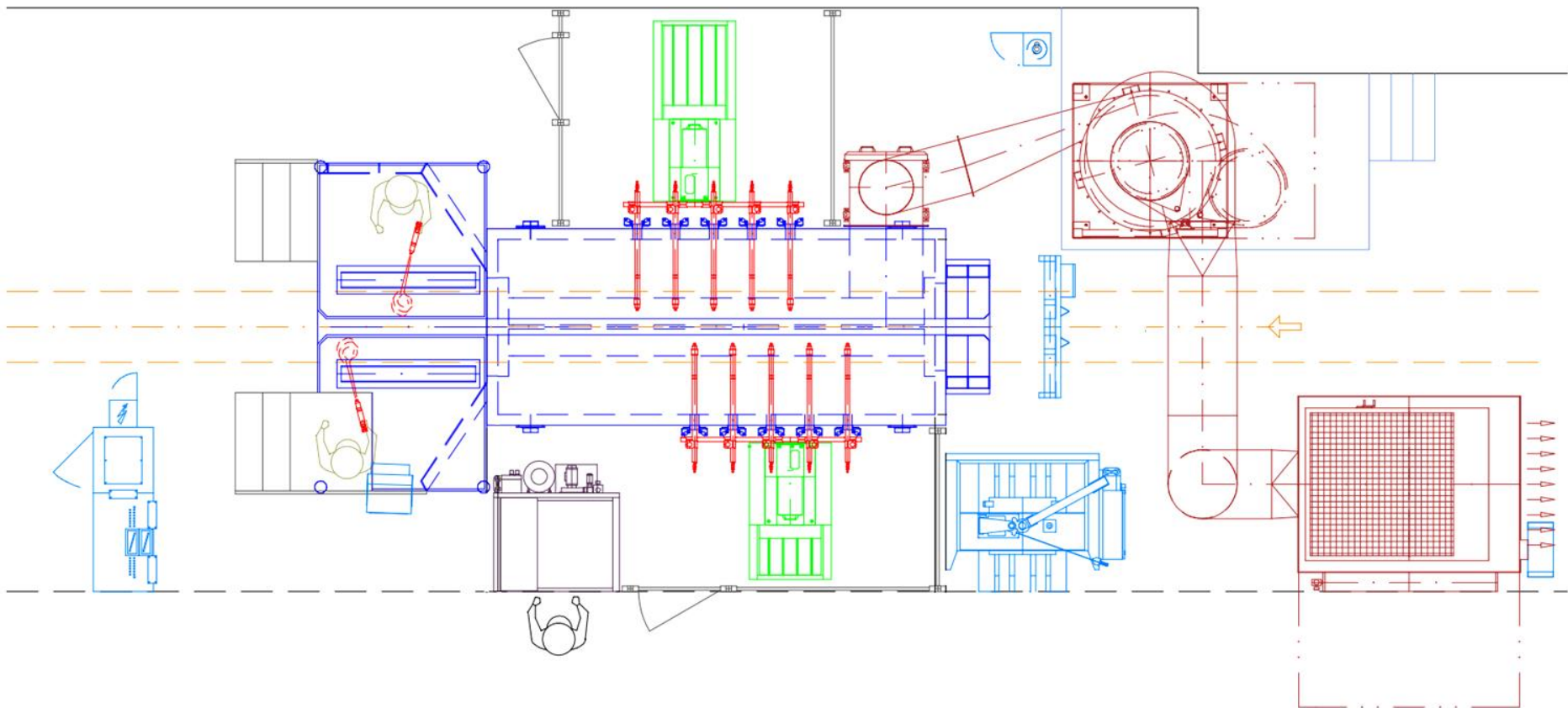


Narrow tolerances

High film thickness

Reproducibility

Application Success Stories



Application Success Stories

Technical Data

Part spectrum:

Various Metal Sheet Components / Traverses
and Aluminum Profiles

Part size:

H 1'200 mm

W 600 mm

L 3'330 mm

Conveyor speed:

V 1.5 m/min

Scope of delivery:

1x OptiFlex AS08/12P

10x Automatic Gun OptiGun GA03

2x Manual Gun OptiSelect GM03

2x ZA06-18 with XT11

1x MagicControl ICS/CM30

1x OptiCenter OC03 with Application Pump AP01



Application Success Stories



The global corporation Siemens manufactures the busbar trunking system LD / LDM in the factory in Cologne. This flexible power supply is an alternative to cable and is successfully used in wind turbines, the industry, on cruise ships, and in buildings and equipment. The systems transmit and distribute power from 40 A to 8200A safely and economically from the transformer via the main and sub-distributions to consumers.

The powder coating on the aluminium profiles of up to 3 meters in length is used as a functional coating between the



individual conductors and simultaneously for heat dissipation. The thickness of the coat ranges from 90 μm up to 250 μm for special applications. To ensure functionality, the thickness of the coats have narrow manufacturing tolerances.

The new electrostatic powder coating system from Gema replaced a Tribo system. The special coating powder is conveyed from BigBag stations or powder containers to the OptiCenter and administered via 10 automatic guns. A preliminary and recoating station enables flexible coatings on



the various part geometries. Gema's installation ensures consistently high quality coating in addition to ease of use, particularly with very regular coat thickness distribution. This is ensured by the application pumps AP01 in the OptiCenter. The quality is so high that Siemens forewent a scheduled, non-contact coat thickness measurement. Thanks to the new electrostatic powder coating system, the busbar distribution systems from Siemens will continue to reliably ensure a modern power supply.