Asmega SPA Automated Rack Plating Line

Stock Code: TS015J  
Manufacturer: Asmega SPA  
Model: 27 Station Automated Rack Plating Line  
Year of Manufacture: 2006  
New or Used: Used (Second Hand)  
Work Envelope (WxDxH mm): 4130 x 960 x 2000 mm (Actual tank size)  
Process Stages: 27 (29 stations available in the line)  
Other Info: Exceptional clean & modern plating plant  
External Dimensions (WxDxH): Overall footprint: 49m x 11.6m

A little used Asmega SPA Automated Rack Plating Line commissioned in 2007 at a basic purchase cost in excess of 928,000 Euro's and only used for an 8 month period

Currently configured to run 17 flight bars automatically using 3 auto transporters for Zinc plating but could be reconfigured for use with other electrolytic and electroless plating processes

The Asmega SPA Automated Rack Line is a fully Automatic Plating Plant used in the metal finishing industry to carry components held commonly in Racks or Barrel, mechanically through a number of treatment cycle Tanks, by means of PLC operated transporter system.

The advantages of Asmega SPA Automatic plant is the direct savings in labour costs, Better process application & production control, Improved solution maintenance, quality control, efficient fume extraction and ventilation……all leading to a high rate of economy in production costing.

Asmega SPA Automated Rack Plating Line

The Asmega SPA SCADA WINCC ver 6.0 Siemens PLC Automation and interface system allows the operator to fully control all aspects of the plant including:

- Multi level operator access control
- Full colour graphic display
- DC Rectification current or voltage control with multi ramp and dwell profile setting and polarity reversal
- Multi program storage memory
- Literal and graphical display synoptic system
- Alarm monitoring
- System data archive facility
- Manual operation and maintenance modes
- System monitoring with diagnostics
- Process logging showing throughput data with flight bar count facility
- Process control including tank temperatures, transporter speed control and process timings

The Asmega SPA Metal Finishing System, Plant & Equipment is suitable for adaption too:

- Electroplating
- Electrolytic and Electroless Plating
- Phosphating
- Anodising
- Electrophoretic Coating
- Electropolishing
- Chromating
- Cleaning
- Pickling

With:

- Twin station well type forced air dryers
- Switch mode DC rectification
- Fume Exhaust System (Scrubbed clean air ventilation system)
- Solution air agitation
- Siebec Filtration System
- Twin insertion and extraction stations

Asmega SPA Electroplating System with little modification can be used for for Mild Steel, Stainless Steel, Copper, Aluminium and Plastics for:
The Asmega SPA array of Electroplating System options:

• ENP
• Copper Plating
• Chrome Plating
• Nickel Plating
• Nickel Chrome Plating
• Brass Plating
• Precious Metal Plating
• Zinc Plating
• Tin Plating
• Tin Zinc Plating
• Plating on Plastic: Decorative Chrome, and others
• Phosphating
• Anodizing
• Blackodising
• Chromatising

Rack (Vat) Plating Plants for Metal or Plating on Plastic with modular design and high capacity with fixed or flexible-fixed configurations of process tanks.

Barrel Plating for Metals, ideal for small or difficult to handle parts, with high capacity.

The Asmega SPA Decorative Plating Equipment System
Automatic processing equipment systems for plating Aluminium, Copper, Brass, Steel and Stainless Steel parts with Copper, Nickel, Chrome, Brass, Silver, Gold, Tin, Lead and others.

The Asmega SPA Aircraft Plating Equipment
Large tank system from Hard Chrome, Nickel and Cadmium plating of extraordinary size and aircraft parts.

The Asmega SPA Anodizing Equipment System
Automating process equipment systems for Anodizing type I, II hardcoating of Aluminium parts.

The Asmega SPA Anodise Systems
Type I CAA – Chromic Acid Anodized
Type II SAA – Sulphuric Acid Anodize
Type III HAA - Hardcoat Acid Anodize
PAA - Phosphoric Acid Anodize
BSAA – Boric Sulfuric Anodize

The Asmega SPA Conversion Coating
Phosphating
Chromatizing
Blackodising
Asmega SPA Automated Rack Plating Line

The Asmega SPA Electro-polishing Equipment System
Automatic straight line processing equipment system of Electro-polishing of Stainless Steel and Aluminum parts.

The above systems include Process and rinse tanks, rectifiers and bus work, temperature control, solution agitation, transporter hoists, ventilation hoods, fume scrubber, electrical control panels, and all electrical and plumbing interconnecting between related components.

General specification:

- Tanks: 18 (including 5 x double stations)
- Transporters: 3
- Bars: 17
- Barrels: None
- Tank dimensions:
  - Tank Length: 4130mm
  - Tank Depth: 2000 mm
  - Tank Width: 950-1425-1900 mm
- Tank material: Polypropylene and stainless steel
- Working envelope (W x D x H): 4130 x 600 x 1600
- Machine cycle time: 270 seconds per flight bar
- Process Stages: 23
- Height of scrubber (up to flange) 6760 mm
- Maximum load capacity of hoists 350kg

Please see the attached "Additional files" for current plant layout, overall dimensions and included switch mode DC rectification.

Full manuals, drawings and PC program discs are available with this machine

Please note The process line solution heating and well dryers require either a thermal fluid or steam generator to complete the installation.

View Asmega SPA Automated Rack Plating Line on our web site at http://www.rileysurfaceworld.co.uk/machines/24608.htm

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.