

Balco Engineering Ltd Manual Electropolish Line



Stock No	TE367
Manufacturer	Balco Engineering Ltd
Model	Manual Electropolish
Year of Manufacture	2013
Serial	MS-0055
Condition	From a working environment, Seen working by RSW, Good Condition
Work Envelope (WxDxH mm)	200/320/360/390 x 500 x 500
Process Stages	6
Other Info	Wall mounted control cabinet containing
Location	Our Central Warehouse, Aldridge, UK
External Dimensions (WxDxH mm)	700 x 3140 x 2180mm

Description

An ideal opportunity to acquire a manual Electropolishing Line installed by Balco Engineering Limited in 2013 and subject to an upgrade by them in 2016. The line is utilised in the production of medical implants.

The plant comprises a series of tanks in an enclosed extracted canopy as detailed on the process schedule attached, arranged in a straight line with the work is carried from tank to tank manually by the operator.

Approximate plant dimensions 3140mm long x 700mm wide x 2180mm.

Additional Ancillary Equipment

- Rectifier & pump (LxW) - 500mm x 700mm
- Wall mounted control panel.

The line is fully consoled in polypropylene sheet and the tanks are located inside an integral PP bund with support stand to working height from factory floor level.

Specification of equipment

Tank No. 1 Process Electropolish

- Temperature: 60°C
- 1 Off single compartment tank of internal size (complete with top flange) - 360mm x 500mm x 500mm
- The body of the tank is manufactured from polypropylene material

Tank is supplied with:

- Fume extraction canopy
- Lift off tank lid
- 1 Set electric heating equipment complete with protection and control
- 1 Set process temperature control
- 1 Set solution circulation pump complete with suction and delivery pipework
- 1 Off anode bar
- 2 Off cathode bars fitted with stainless steel cathode plates
- 1 Off Balco rectifier 100 amps X 15 VDC

Tank No. 2 Process Rinse 1

- Temperature: AMB
- 1 Off double compartment tank of internal size (complete with top flange) - 390mm x 500mm x 500mm
- Central division plate to form two 190mm wide compartments
- The body of the tank is manufactured from polypropylene material

Tank is supplied with:

- Fume Extraction Canopy
- Lift off Tank Lid
- 1 Off Water Inlet
- 1 Off Rear Overflow to drain

Tank No. 3 Process Rinse 2

- Temperature: AMB
- 1 Off Single compartment tank of internal size (complete with top flange) - 360mm x 500mm x 500mm
- The body of the tank is manufactured from polypropylene material

Tank is supplied with:

- Fume extraction canopy
- Lift off tank lid
- 1 Off bottom water outlet
- 1 Off wash off gun

Tank No. 4 Process Nitric Acid

- Temperature: AMB
- 1 Off single compartment tank of internal size (complete with top flange) - 200mm x 500mm x 500mm
- The body of the tank is manufactured from polypropylene material

Tank is supplied with:

- Fume extraction canopy
- Lift off tank lid

Tank No. 5 Process Rinse 3

- Temperature: AMB
- 1 Off Double compartment tank of internal size (complete with top flange) - 390mm x 500mm x 500mm
- Central division plate to form two 190mm wide compartments
- The body of the tank is manufactured from polypropylene material

Tank is supplied with:

- Fume extraction canopy
- Lift off tank lid
- 1 Off water inlet
- 1 Off rear overflow to drain

Tank No. 6 Process Hot Rinse

- Temperature: 60°C
- 1 Off Single compartment tank of internal size (complete with top flange) - 360mm x 500mm x 500mm
- The body of the tank is manufactured from polypropylene material

Tank is supplied with:

- Fume extraction canopy
- Lift off tank lid
- 1 Set electric heating equipment complete with protection and control
- 1 Set process temperature control
- 1 Off work bar

Control Console

Wall mounted control cabinet containing two off electronic temperature controllers. Complete with contactors, circuit



breakers and rail mounted terminal blocks.

Electrical Wiring

All electrical wiring between the central control console and field electrical items is installed in corrosion resistant PVC or galvanised-steel cable tray suitably supported.

Mechanical Services

One set mechanical services serving the previously described plant complete with all necessary supports and brackets.

Note - *If some pipework cannot be chemically cleaned and decontaminated to the standard necessary it will not be shipped and will need replacement on reinstallation.*

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.