

## CPS Electroless Plating Bench for Numerous Wet Treatments



Stock No	<a href="#">TZ270</a>
Manufacturer	<a href="#">CPS</a>
Model	Wet Immersion Treatment Bench
Condition	Seen working by RSW, Excellent Condition
Work Envelope (WxDxH mm)	300 x 300 x 200 x 8off
Process Stages	8
Other Info	See images exceptional process support
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	610
External Dimensions (WxDxH mm)	3300 1250 x 2030

### Description

#### CPS Electroless Plating Bench

Electroless plating, also known as chemical plating or autocatalytic plating, is a class of industrial chemical processes that create metal coatings on various materials by a single chemical reaction of metal cations in a liquid bath.

The CPS Electroless Bench, consists of a 6 station wet cleaning and electroless plating process, with 3 pre-treatment stations and 3 electroless plating stations respectively. This process is commonly used in semiconductor manufacturing or other high technology products.

Each cleaning station consists of an acid etching tank and DI (de-ionized) water used in the rinsing tank, to ensure a high level of cleanliness.

Air sparge supply achieved by three Almatec series E pumps located at the rear of the bench

The de-ionizing water supply is controlled from the front control panel, along with air sparge to tanks to each station and Each station has an operator panel which controls:

- The supply of de-ionized water
- The operation of an air sparge, which increases the efficiency of the wet etching process
- Solenoid activated tank drain.

Each electroless plating plants have solution conductivity probes linked to a Walchem Plating Solution controller and thermocouples linked to a Braude Thermaster temperature controller.

#### Features

- PRTD sensor
- capillary or compensating cable
- no moving parts
- Permanent clear display of solution temperature
- Relay operation: 3 & 3 wire output, break on rise (std) or make on rise\*
- Simple set point adjustment
- Easy to calibrate: set temperature plugs available
- Range -10°C to +110°C,  $\pm 1^\circ\text{C}$  accuracy
- "Heater on" display "Probe fault" indication
- Dimensions: 125mm x 125mm x 75mm deep

Solution Control is achieved by using a Walchem WCU410 series controller. The WCU410 series copper controllers are optoelectronic on-line analyzers that may be used in variety of applications such as;

- Electroless copper baths
- Microetch
- Multiple chemistries that contain more than 0.10 grams/litre (g/L) of copper ions.
- Four control relays are available that may be set up to feed chemicals, or as alarms.
- A fifth relay is used as a diagnostic alarm.
- Isolated 4-20 mA output
- Any set point may be viewed without interrupting control.

Bench fumes are managed by a common extraction ducting located at the rear of the bench

#### **CPS Electroless Plating Benches are used in the manufacturing process of the following industries**

- Semiconductor
- Solar
- MEMS

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*Machine Datasheet*



- LED
- Bio-Medical

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