

TWL: TECHNOLOGY WITHOUT LIMITS, INC.

57 Service Road, West Warwick, RI 02893

Phone (401) 286-7756 Fax (401) 828-8989

E-Mail jacklopeztlw@cox.net

(800) 545-4570 ext. 244

EVS4000: EFFICIENCY VIBRATION PLATING SYSTEM

Process: Apply high speed vibration with speed control to the cathode bar & jewelry items being electroplated.

Concept: Eliminate hydrogen gas bubbles at a faster rate to increase the plating efficiency, while reducing the plating time and consumption of rhodium metal. The improvement of efficiency is directly related to the quality and formation of the rhodium metal deposited. White color and reflectivity of the plated surface are also directly related to the formation of the rhodium deposit.

Benefits:

- Labor hours reduced
- Rhodium consumption reduced
- Productivity increased
- Whiter and more reflective final plating result

Summary: the standard rhodium plating time for 1 rack was 30 seconds. After EVS4000 was implemented the plating time was reduced to 20 seconds per rack. This is a 30% reduction. Reduction by 30% in plating time results in a 30% reduction in labor hours and a 30% increased capability of productivity. Improved plating deposit formation increases the resistance to oxidation and the reflectivity and whiteness of the rhodium final finish.

Components:

(All systems are built to specification)

Example: EVS4000

1 Vibrator: # SPRT21 vibrator

1 Speed controller: # SPC vibration speed control

4 Shock absorbers: # MAC150138 vibration shock absorbers

2 Poly pro mounting plates

2 Poly pro locking V-Blocks

Stainless steel nuts, bolts, and, washers

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