

# Station Break Down

## **Station 1 - Load Unload Area**

Dimensions - 30" x 38" x 42" High

Constructed from type structural steel, it includes:

- Hot DC rotator saddles.
- Auto position for barrel cover location. After hoist lowers barrel into the load/unload stand the barrel will automatically rotate and position the cover for operator removal. Operator will then press the rotate button and the barrel will rotate for a select amount of time assuring the work is dumped and the barrel will automatically rotate and position the opening for operator to load barrel and replace cover.
- Directional chute.
- Basket removal cart.
- Emergency stop pull cord.

## **Station 2 - Hot D.I. Rinse**

Dimensions - 33" x 38" x 30" Deep

Temperature - 104°F

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- Overflow weir with outlet. Water Inlet ball valves.
- Water solenoid controlled by PLC with adjustable "on time" from the HMI and Dwyer flow meter
- One 1.5" side bottom drain outlet to A/A drain. T316 SS heater with over-temp safety.
- Low level safety controller. Temperature RTD probe. Push / Pull exhaust hoods.

## **Stations 3-5 - Triple Counterflow Rinse**

Dimension - 92" x 38" x 30" Deep

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- Two (2) sets of over / under flow baffles.
- Overflow weir with outlet.
- Water Inlet ball valves.

- Water solenoid controlled by PLC with adjustable “on time” from the HMI and Dwyer flow meter
- Three 1.5" side bottom drain outlets to A/A drain.
- Sized for future heating in station 3

### **Station 6 - Passival**

Dimensions - 30" x 38" x 30" Deep

Temperature - 75°F

Constructed from 1” thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- PTFE heater with over-temp safety.
- PTFE cooling coil. (mini chiller in section X)
- Low level safety controller.
- Temperature RTD probe.
- Push / Pull exhaust hood.
- Water Inlet ball valve.
- Ph. monitor and chemical feed system.

### **Station 7 - Soak Clean**

Dimensions - 30" x 38" x 30" Deep

Temperature - 100°F

Constructed of 1” thick stress relieved natural polypropylene, it includes:

- 6” overflow weir with bottom drain outlet and oil decant spigot.
- Locating saddles with hot DC rotator saddles.
- T304 SS heater with over-temp safety.
- Low level safety controller.
- Temperature RTD probe.
- Push / Pull exhaust hoods.
- Water Inlet ball valve.
- 1.5" side bottom drain outlet to cleaner dump drain.
- Recirculation pump with skim pipe.

### **Station 8 - Electro Clean**

Dimensions - 32" x 38" x 30" Deep

Temperature - 100°F

Constructed from 1” thick stress relieved natural polypropylene, it includes:

- Cast Bronze locating saddles for DC power and rotator.
- T304 SS heater with over-temp safety.
- Low level safety controller.
- Temperature RTD probe.
- Push / Pull exhaust hoods.
- Water Inlet ball valve.
- 1.5" side bottom drain outlet to cleaner dump drain.
- Two (2) solid copper anode bars.
- T304 stainless steel anodes.
- Bussed for 100 amps.

### **Stations 9, 10 & 11 - Triple Counterflow Rinse**

Dimensions - 88" x 38" x 30" Deep

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- Two (2) sets of over / under flow baffles.
- Overflow weir with outlet.
- Water Inlet ball valves.
- Water solenoid controlled by PLC with adjustable "on time" from the HMI and Dwyer flow meter
- Three 1.5" side bottom drain outlets to A/A drain.

### **Station 12 - Acid Activator**

Dimensions - 26" x 38" x 30" Deep

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- Push / Pull exhaust hood.
- Water Inlet ball valve.
- 1.5" side bottom drain outlet to Acid drain.

### **Stations 13, 14 & 15 - Triple Counterflow Rinse**

Dimensions - 88" x 38" x 30" Deep

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- Two (2) sets of over / under flow baffles.
- Overflow weir with outlet.
- Water Inlet ball valves.

- Water solenoid controlled by PLC with adjustable “on time” from the HMI and Dwyer flow meter
- Three 1.5" side bottom drain outlets to A/A drain.

### **Stations 16, 17 & 18 - Triple Counterflow Rinse**

Dimensions - 88" x 38" x 30" Deep

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Locating saddles with hot DC rotator saddles.
- Two (2) sets of over / under flow baffles.
- Overflow weir with outlet.
- Water Inlet ball valves.
- Water solenoid controlled by PLC with adjustable “on time” from the HMI and Dwyer flow meter
- Three 1.5" side bottom drain outlets to A/A drain.

### **Station 19 - Cyanide Drag Out Rinse**

Dimensions - 26" x 38" x 30" Deep

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Containment tank.
- Locating saddles with hot DC rotator saddles.
- Water Inlet ball valve.

### **Station 20, 21, 22, 23 & 24 - Cyanide Brass Plate**

Dimensions - 160" x 38" x 30" Deep

Temperature - 100°F

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Containment tank.
- Cast Bronze locating saddles for DC power and rotator.
- Titanium heater with over-temp safety.
- Titanium cooling coil with solenoid.
- Low level safety controller.
- Temperature RTD probe.
- Push / Pull exhaust hood.
- Water Inlet ball valve.
- 2500 GPH Mefiag filter assembly.
- Ten (10) solid copper removable anode bars.
- Forty (40) Titanium anode baskets.

- Plastic current shields between plating cells.
- Bused for 100 amps per station

### **Stations 25, 26, 27 & 28 - Cyanide Brass Plate**

Dimensions - 130" x 38" x 30" Deep

Temperature - 90°F

Constructed from 1" thick stress relieved natural polypropylene, it includes:

- Containment tank.
- Cast Bronze locating saddles for DC power and rotator.
- Titanium heater with over-temp safety.
- Titanium cooling coil with solenoid.
- Low level safety controller.
- Temperature RTD probe.
- Push / Pull exhaust hood.
- Water Inlet ball valve.
- 2500 GPH Mefiag filter assembly.
- Eight (8) solid copper removable anode bars.
- Thirty two (32) Titanium anode baskets.
- Plastic current shields between plating cells.
- Bused for 100 amps per station

### **Off Line Cyanide Brass Plate Make Up Tank**

Dimensions - 24" x 24" x 30" Deep

Temperature - 90°F

Constructed from ½" thick stress relieved natural polypropylene, it includes:

- Containment tank.
- Electric mixer.
- Titanium heater with over-temp safety.
- Temperature RTD probe.
- Exhaust port.
- Water Inlet ball valve.
- Cover with access door.
- Two (2) metering pumps.