

# Controlled Depth Pin Plating

Precision, Efficiency, Gold Savings



## Technic CDPP - Engineered for High-Accuracy Processing

Technic's **Controlled Depth Pin Plater** is a high-precision electroplating system engineered for controlled-depth plating of loose components, delivering unmatched accuracy and cost efficiency. Designed for electrical connectors, the CDPP targets plating only where needed, typically the ends of pins or socket, significantly reducing precious metal usage compared to conventional methods.

### Ideal for Plating

- Electrical connector pins and sockets
- Spring-plunger contacts
- Terminal posts

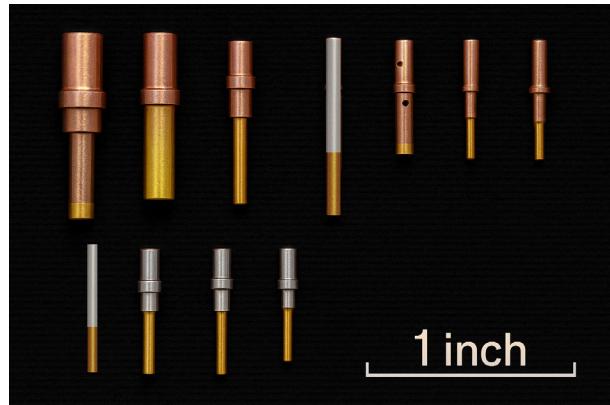


### Benefits

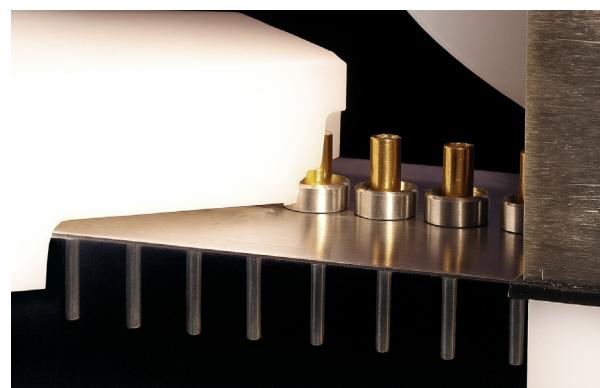
- **Scalable Throughput** – Accommodates low to high-volume production with up to 20,000 parts per hour.
- **Significant Gold Savings** – Reduce precious metal use by up to 70% compared to barrel plating.
- **Unmatched Uniformity** – Proprietary plating cell and sparger design ensures consistent depth control and uniformity.
- **Clean Demarcation Lines** – Eliminates 'brown ring' at the interface between plated and unplated areas.

### Features

- **Flexible Transport Belts** – Choose from belts with permanent inserts for fixed production or removable cartridges.
- **Dual-Lane Configuration** – Process two part types simultaneously using common chemical reservoirs.
- **Controlled Fluid Dynamics** – Precise fluid flow/level management ensures plating depth repeatability within  $\pm 0.5$  mm.
- **Advanced Anode Technology** – Program-controlled, anode configurations adapt easily to varied components.
- **Reliable Cathode Contact** – A contact roller system delivers a stable, low-resistance electrical connection with minimal drag and no particle generation.



The CDP2000 plates only the portion needed on a variety of connector configurations.



# Technic CDPP

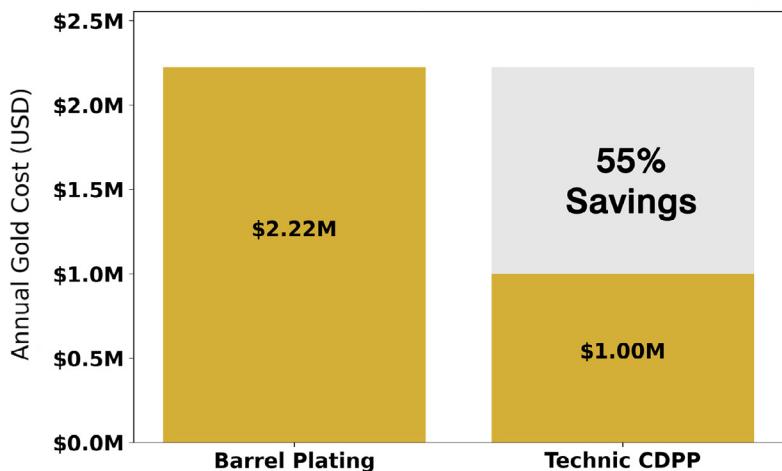
## Real-World Gold Savings

The CDPP delivers exceptional plating performance, process flexibility, and substantial material savings—making it the ideal solution for modern connector manufacturers focused on performance, efficiency, and profitability.

### Case Study: Controlled Depth Plating vs Barrel

Demonstrated savings below is based on actual production runs using Technic's CDPP vs. conventional barrel plating (50 micro-inch thickness)

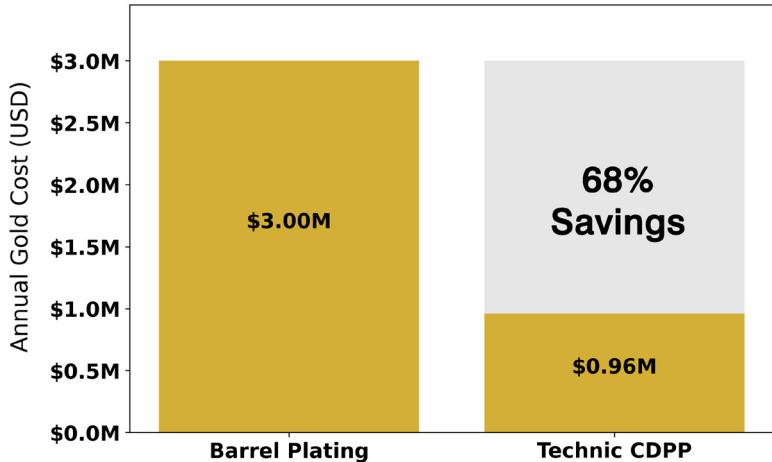
#### Annual Gold Consumption - Pins



Production: 7,200 parts/hr  $\times$  2,000 hrs/year = 14.4M parts/year

**SAVINGS: \$1,220,000\* per year**

#### Annual Gold Consumption - Sockets



Production: 5,400 parts/hr  $\times$  2,000 hrs/year = 10.8M parts/year

**SAVINGS: \$2,040,000\* per year**

\*Savings estimated at \$4,000/troy oz.

