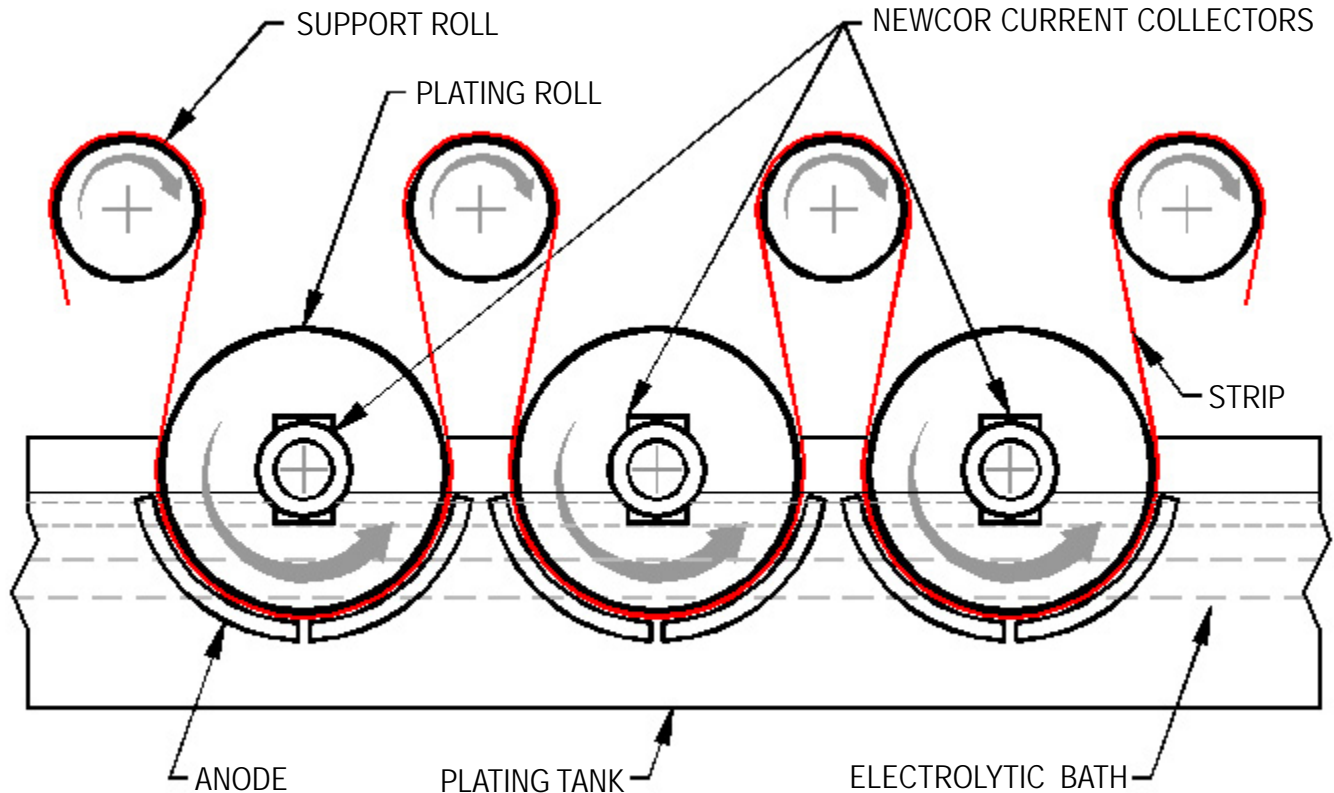


# Steel Mill Solutions Through Technology

NBC-1343



## Typical Electroplating Arrangement



*30,000 Amps continues duty cycle*

### ELECTROPLATING TANK CURRENT COLLECTOR

**Application:** Electroplating tank conductor and roll support for immersion into an electrolytic bath. The collector is supported by the shaft and transmits high amperage electricity to the roll. The Current Collector Assemblies will retrofit into existing electroplating lines. The current collector assembly is capable of conducting a maximum of 30,000 AMPS at 30 volts at a 100% duty cycle.

**Cost Savings:** These units provide substantial operating and maintenance cost savings. Reduced water cooling requirements due to more efficient design, providing much longer service life and reduced maintenance than traditional units.

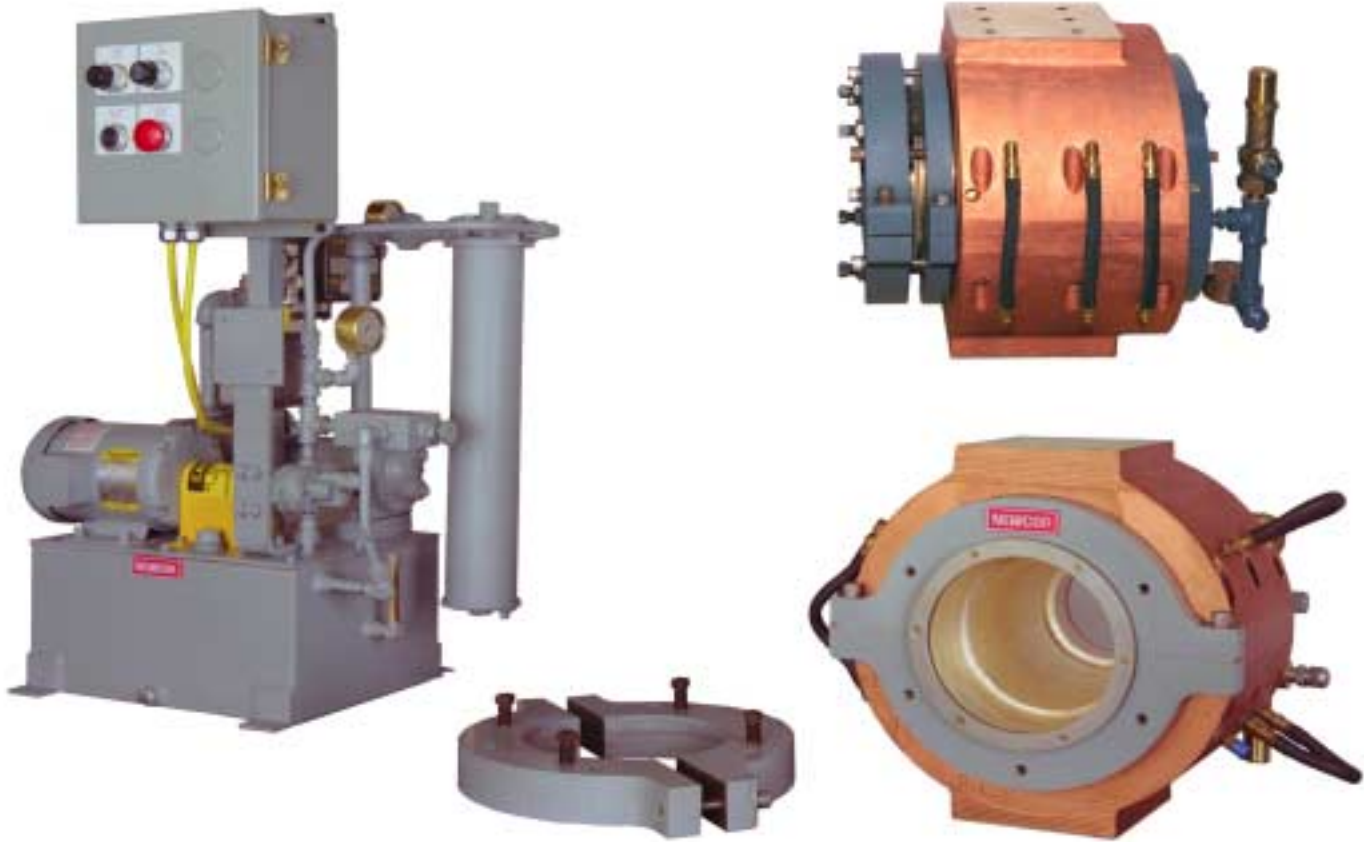
**NEWCOR**®

**Bay City Division**

**INNOVATIVE  
MANUFACTURING  
SYSTEMS**

1846 N. Trumbull Drive, Bay City MI 48707-0370  
Phone: 989-893-9505 FAX: 989-892-8961

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*These NEWCOR Current Conducting Assemblies are capable of conducting a maximum of 30,000 volts at a 100% duty cycle.*

## STANDARD DESIGN FEATURES

1. Precision Ball Bearings.
2. Silver, spring loaded, contact shoes for maximum current conduction.
3. Industry standard high quality seals.
4. Filtered high grade castor oil lubrication pump system for adequate cooling and long life.
5. High capacity circulating pump for collector assemblies.
6. Easy read sight gauge for monitoring fluid level.
7. Tapered, hollow rotating inner shaft assembly complete with coupling to connect with taper shaft of the process equipment.

8. Main wear surfaces designed as replacement parts.
9. Rugged cast copper housing enclosure.

## OPERATIONAL REQUIREMENTS

1. Water-for 70 degree fahrenheit clean water inlet, typical outlet water temperature is 100 degrees fahrenheit as 30,000 AMPS.
2. Castor Oil AA USP Pharmaceutical grade or AA Standard may be substituted. One (1) gallon for Current Collector and 4 - 7 gallons for recirculation and system depending upon hose lengths.
3. Oil Pump Motor is 1/2 HP, 3 Phase, 480 Volts.

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