

## *Designed and built to outlast the competition!*

NAVCO pneumatic rappers set the industry standard for operational reliability, durability and overall dependability:

- Better electrode and hopper cleaning than any other rapper for precipitator plates, wires, electrodes and hoppers
- High-output compact design – perfect for difficult applications where repetitive-impact rappers are needed
- Field-proven performance on precipitators in all climate conditions



**P**roven performers, NAVCO pneumatic rappers have provided customers with the highest power levels and least re-entrainment for more than 30 years.

In difficult rapping applications, NAVCO rappers are the rappers of choice. They provide maximum performance for:

- high-resistivity fly ash in the power industry
- salt cake in the paper industry
- cement dust for both dry- and wet-process kiln precipitators and lime-kiln precipitators
- smelter furnaces, BOFs, sinter plants, roasters and other primary metals applications

In challenging applications like these, NAVCO repetitive-impact pneumatic vibrators offer more uniform and better electrode cleaning than single-impact rappers. And their simple, rugged construction make them proven long-haul performers.

### *Effective Hopper Rapping*



NAVCO pneumatic rappers are suitable for vertical or horizontal applications such as precipitator ash hoppers. In addition, their high reliability, high effectiveness and low maintenance make them ideal for hopper rapping.



# NAVCO® Pneumatic Precipitator Rappers

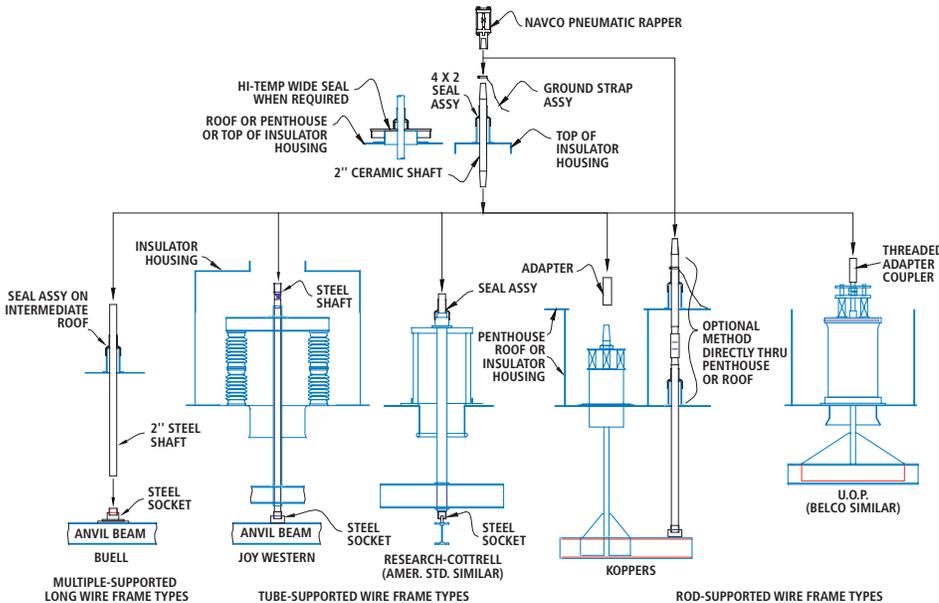
2

## Features

- Teflon-coated piston and bore
- One moving part
- Balanced exhaust ports
- No ring seals or mounting springs
- Thick sidewall
- Taper and housing are one part – not bolted or welded
- Standard 3-degree, 30-metric tapers for interference fit on steel-to-steel or steel-to-ceramic shafting
- Transfers a continuous forced-frequency response into the electrodes, producing high plate response
- Particle agglomeration is enhanced by adjusting time between rapping
- No irregular dust layer is left on the plates

## Benefits

- Resists corrosion, reduces friction and prevents rust seizure
- Promotes long, reliable performance
- Reduces wear
- Minimizes failure opportunities
- Enables easier rebuilding
- Minimizes failure opportunities
- Maximizes flexibility and adaptability
- Reduces structural deflection and minimizes chances of mechanical failure
- Reduces re-entrainment
- Provides higher power levels by increasing sparkover voltage



## Specifications

- Air-lube and oil-lube models available
- Operating pressure: 25 - 45 psi
- Weight: 43 lbs
- Average consumption: 1 - 2 acfm

## Rapping Optimization

The Neundorfer MicroRap rapper control is a powerful tool with maximum user flexibility. With the MicroRap control, each rapper is assigned its own programmable output. In addition, the operator designates rapping groups and assigns each rapper its own operating characteristics.

**MicroRap™**

## System Engineering

If needed, Neundorfer will design and supply a compressed-air and integrated control system to assure minimum system maintenance, more efficient operation and long service life. Systems can include desiccant dryers, solenoid valves, FRLs, piping/wiring, PLCs and integrated software.



**NEUNDORFER**  
PARTICULATE KNOWLEDGE

**Neundorfer, Inc.** • 4590 Hamann Parkway  
Willoughby, Ohio 44094 • Phone: 440-942-8990  
Fax: 440-942-6824 • E-mail: solutions@neundorfer.com  
www.neundorfer.com