

FURNACE COMPONENTS



Nicro's commitment to innovation has led to many new and improved products for the submerged arc furnace industry.

Thorough analysis of clients' particular problems and requirements enables us to offer solutions in the form of well-designed and engineered components.

Because of the typically harsh conditions experienced on furnaces, our products are also robust yet maintenance-friendly.

NICRO
INDUSTRIAL

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FURNACE COMPONENTS

Contact Shoes.

Nicro was the first company in South Africa to manufacture contact shoes from rolled/forged slab material, removing the inherent problems associated with cast copper.

These contact shoes have a 98% minimum conductivity with the water passages being drilled to allow for maximum cooling.

Throughout the submerged arc industry, we have redesigned and replaced many old style contact shoes, improving clients' power input and baking profiles.



Features

- Rolled/forged high conductivity copper with a refined grain structure.
 - Water passages drilled directly into the material to be cooled.
 - ICAS of 98% minimum means increased electrical transfer/exceptional conductivity.
 - Machined to electrode diameter creates good contact.
- Refurbishment of existing contact shoes carried out.

Pressure Rings.

Nicro repairs all types of pressure rings, replacing damaged areas (e.g. caps) and fitting new, improved diaphragms.

We have increased the lifespan of these products by improving the water flow through the pressure ring and cap design, for optimum cooling. By changing the method of casting, we have eliminated the use of core plugs and removed potential leak paths. Use of a Nicro patented stainless steel diaphragm or rolling seal increases the area of force at reduced water pressure.

A new method of locking the pressure rings together removes potential stress points.



Features

- Pressure ring manufactured in copper, aluminum bronze, stainless steel.
 - Nicro patented stainless steel diaphragm or rolling seal increases surface area exposed to water pressure.
- Redesigned water flow for optimum cooling.
 - Smooth clean water ports means less turbulence.
 - Locking method removes stress points.
 - Retractable push plate for ease of maintenance.