

## Ceramic Seaming Rolls

### Food & Beverage Can | Fits Any Seamer Brand

We use our advanced ceramic materials to make high performance tooling for the production of two-piece cans, three-piece cans and aerosols for the food, beverage and specialty markets. Our product range includes Proseamer™ ceramic Can Seaming Rolls, Spin Flange Rolls, Z-Bar Tips, Diablo Rolls and many other wear resistant parts.



The parts are made using Nilcra Zirconia, an advanced ceramic material that is exceptionally strong and tough. It is an ideal choice for use in can production because it is highly resistant to corrosive chemicals and food stuffs but gentle on the on the internal lacquer-coated surfaces. Nilcra Zirconia is a consistent, reliable material (Weibull Modulus >30) with a low coefficient of friction. Abrasive materials have minimal effect on its surface.

Can seaming rolls and other tooling parts made with Nilcra Zirconia can last much longer than those made of conventional materials such as Tungsten Carbide and Tool Steel. They are durable enough to survive production jams and crashes and, because they have a low wear rate, allow longer, more consistent scuff-free production runs. Can makers, and the canneries, producers and packagers that use them, benefit from reduced down time, increased yields and more reliable product quality.

Nilcra Zirconia is approved for food use by the US Food and Drug Administration (USFDA).

For more information about Nilcra Zirconia and our can tooling manufacturing capability, and to discuss your specific tooling needs, contact us today.

# Case Study

## Industry: Steel Can making and filling



In high speed steel can making and especially in can filling where the rollers are exposed to moisture, steam, acidic juices and brine it is critical to maintain the profile in a can seaming roller – not just dimensionally to ensure proper closing of the lid but also maintaining a smooth finish so tinplate and lacquer on the cans isn't scratched as this can lead to costly rejections.



## The Application

For more than 20 years Morgan has been producing Nilcra Zirconia Can Seaming Rolls which are used for rolling the lids onto steel food cans used in the packaging of a wide variety of food products – tomato's , pineapple, baked beans, fish / tuna etc.

Morgan's Nilcra Zirconia is harder than steel or chrome-alloy and is highly resistant to corrosive environments.

The material is resistant to galling or metal pick up which is the major problem with most steel seaming rollers.

Nilcra Zirconia is highly resistant to chemical corrosive attack which makes it ideal for use with food products such as pineapple, tomato, tuna which are packed in highly corrosive brine or juices containing food acids.

In many cases we incorporate the roller bearing outer race into the roller - creating a stronger roller. Morgan supplies wear parts made in one of our high-performance ceramics for high wear areas such as valves, pumps, homogenizers, bearings, semiconductor, medical or metal forming rollers.

## Ceramic Seaming Rolls

### Your Benefits:

- ✓ Improved seam quality
- ✓ 3-5x the life of steel rolls
- ✓ No metal galling/pick up
- ✓ Less seam scuffing
- ✓ Less scratches
- ✓ Eliminates corrosion
- ✓ Eliminates re-polishing
- ✓ Less frequent adjustment
- ✓ Lower inventory levels
- ✓ Less frequent purchasing and planning
- ✓ Removal of roll cleaning operation



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