

THE BRONX GROUP



LIGHTWEIGHT MANDREL SYSTEM

Providing Production Efficiency Solutions for the
Coil Coating Industry



www.thebronxgroup.com

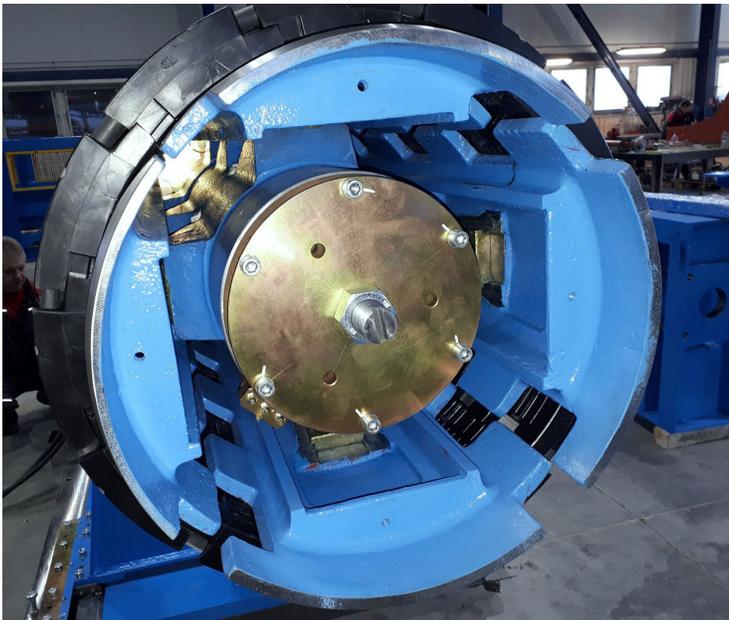
MANDREL

The Bronx Group

Bronx has been designing and building Colour Coating Lines for over 50 years, with as many references in over 30 countries. Our strength in engineering, commitment to excellence and performance all come together in creating a custom solution. Our customer's business and success are key in cementing our global reputation in coil coating, finishing lines and industry modernisations.

Given our rich experience and history in the industry, Bronx has witnessed many significant advances in coating technology and equipment design. Bronx prides itself on being at the frontier of introducing these technologies to the market, such as the Lightweight Mandrel System.

About the Bronx Lightweight Mandrel System



Bronx Lightweight Mandrel System

We pride ourselves on our ability to deliver optimal results and to help your business move forward.

Bore sizes of feed coils to production lines such as continuous paint and galvanising lines vary worldwide.

Typically, bore sizes of 508mm (20") and 610mm (24") can be supplied. Designers of continuous paint lines tend to supply uncoiler mandrels at 508mm. In order to fit a 610mm bore sized coil on the mandrel, rubber components are utilised to ensure a secure fit.

The technology was developed to allow for the simple handling of components, such that are light enough for a single operator to lift and replace on an uncoiler, without requiring heavy machinery which would be necessary for steel sleeves.

When assembled, these components will expand with the mandrel to make firm contact with the coil.

SYSTEM

Benefits

The common pitfalls for using rubber sleeves include poor safety and efficiency. Firstly, rubber sleeves are typically heavy and can be awkward to fit.

Additionally, placing the sleeve can be time consuming, and may also involve the use of cranes and heavy machinery. Both place operators at risk. Bronx's modernised lightweight mandrel sleeve is safer due to its more compact size and weight.

Safe; reduces operator risk

Efficient; reduces sleeve fitting time

Lightweight; reduces operator risk

Robust; strength to handle both steel and aluminium coils

How Does it Work?

1. Fit the twelve (12) components around the assembly tool.
2. Slide the rubber bands into the grooves.
3. Repeat for five (5) full sets, then push each set onto the mandrel.

Weighing in at only 14.5 kilograms (32 lbs) for each set, it is simple to attach them to the uncoiler mandrel by hand.

Once assembled, the segments will then proceed to expand with the mandrel, ensuring the coil is secured.

As your trusted partner in coil processing, we endeavour to provide solutions tailored specifically to your business and its needs in an ever-changing industry.





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