

# THE BRONX GROUP



## PRECISION LEVELLING MACHINES

Enhancing Metal with Quality Equipment and  
Customer- Focussed Solutions



[www.thebronxgroup.com](http://www.thebronxgroup.com)

# PRECISION

## The Bronx Group

Celebrating 80 years of providing high quality coil processing solutions, The Bronx Group of companies continues to remain a trusted specialist across the globe. We offer a range of coil coating solutions, from renowned colour coating lines to our embossing line range as well as a host of products which can be placed into an existing line.

The Bronx Group believes that providing access to the best technologies to all its customers, such as precision levelling technology. Whether part of a new installation or a retrofit to an existing line Bronx Precision Levelling machines offer the ultimate in precision levelling.

Built to the highest standards, using 'state of the art' technology, Bronx Precision Levelling machines produce the highest quality demanded by today's steel and non-ferrous industries. We proudly collaborate with our suppliers to ensure faultless operation and a high quality result.



Bronx Precision Leveller

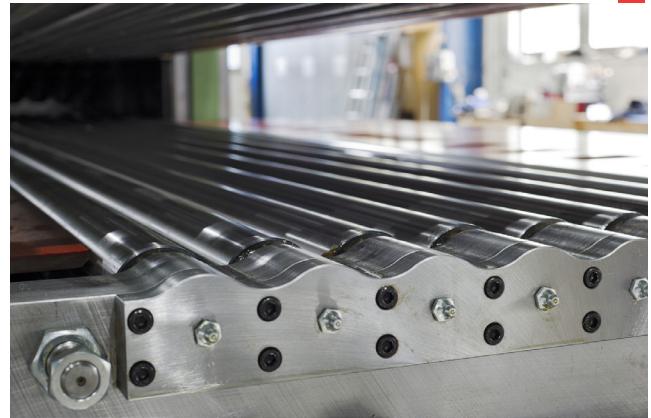
**The Bronx range includes levelling machines with 11, 17, 21 or 23 work rolls with diameters ranging from 35 to 100 mm in 4, 5 and 6 high configurations, suitable for hot and cold rolled steel, coated, stainless steel and aluminium.**

# LEVELLERS

## Work Rolls

All work rolls supplied with Bronx Precision Levellers are manufactured to the closest tolerances from high quality hardened alloy steel. The work rolls are located in self-aligning combined radial and thrust bearings and fully supported on back up roll assemblies.

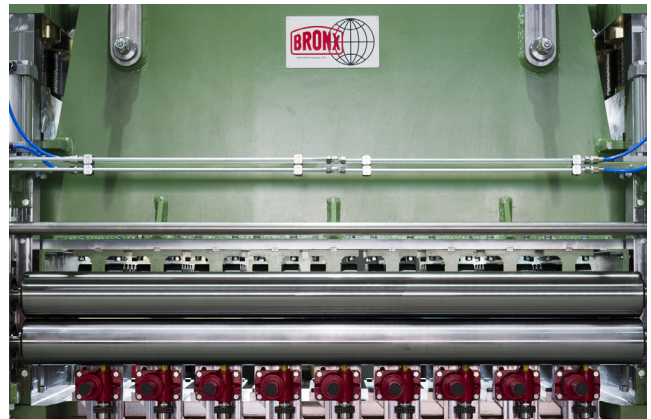
All Bronx Precision Levellers are designed to enable work roll cassette removal through the front of the machine utilising a roll change rig to minimise downtime.



Bronx Work Rolls

## Intermediate Rolls

Intermediate rolls are installed in five (5) and six (6) high configuration machines for processing surface sensitive materials. They can be supplied plain or scrolled to suit any application and are manufactured to the same high standard as the work rolls. Each roll end is fitted with a combined radial and thrust bearing assembly.



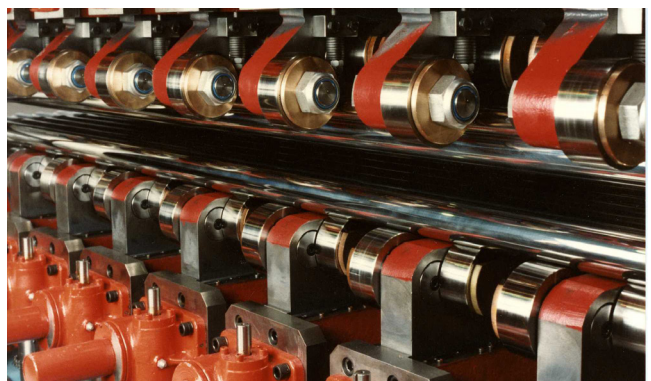
Bronx Pinch Rolls

## Pinch Rolls:

All Bronx levelling machines are equipped with a pair of entry pinch rolls. They are driven from the main distribution gearbox and can have either hydraulic or pneumatic actuation.

## Back-Up Rolls

Bronx back up rolls are specially developed thick-walled, high load capacity, spherical roller bearings. The self-aligning properties of our back up roll enables the work rolls to be deflected facilitating the removal of specific shape defects in the product. The adjustment of the back-up roll assemblies to achieve the work roll deflection is through heavy duty electromechanical wedge mechanisms.



Bronx Back-Up Rolls



## Gearboxes

All work rolls are driven from a distribution gearbox. The gears are precision helical gears manufactured from quality alloy steel and mounted roller bearings. Connection from gearbox to rolls is via specially designed high load capacity universal drive shafts.

## Machine Adjustments

All adjustments are motorised, with inverter control and absolute position monitoring to enable precise setting of the leveller, an ergonomic control console allows the operator to make finite settings of the leveller penetration and roll bend condition which are clearly displayed on the HMI.

The control system features a teach and save feature which enables the roll tilt and penetration positions to be recalled and automatically set from a job code linked to a specific material.

## Spare Parts and Service

Bronx machines are supported with a comprehensive aftersales spares and maintenance service which can be tailored to suit your specific needs.

This service can also be provided for machines supplied by other OEM's.



Bronx Gearbox example



One of our technicians operating a leveller

**Bronx's team will work with you to supply your business with the equipment it needs, providing a complete packaged solution.**

**We're with you from design and planning through to installation and finally provide after-sales service.**



**BRONX ENGINEERING LTD** Bronx head office. Hellier House, Wychbury Court Two  
Woods Lane, Brierley Hill, West Midland DY5 1TA England  
TEL: +44 (0) 1384 486648

**BRONX PROCESS TECHNOLOGIES S.R.O.** Manufacturing Division. Teplárenská 2,  
Košice 040 12 Slovak Republic  
TEL: +421 949 251 663

**USA/AMERICAS** Bronx Office. 205 North Michigan Avenue, Suite 810 Chicago, IL  
60601 TEL: +1 708 212 73 71