



Plastikoil® New Concept Former

U.S. Patent # 6,382,950



Plastikoil® Concept QS2 Dual Interline System

U.S. Patents # 6,000,897, #7,246,982 & # 6,382,950



**SMPOR-SISTEMAS MÁQUINAS E PRODUTOS, LDA**

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 Sociedade por Quotas \* Capital Social € 1 000,00 \* Registada na C.R.C. do Porto \* NIF 510375359  
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**Built In Mandrel Storage**



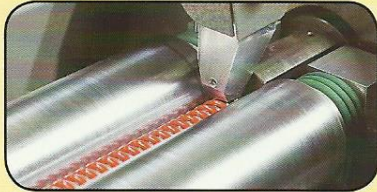
**Automatic Oiling**

Ensures precise amount of oil is released so coil is not under lubricated or too greasy.



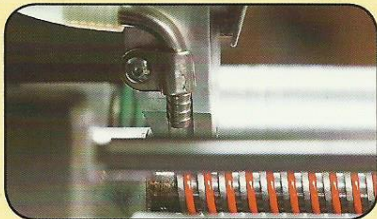
**State of the Art PLC Control System**

**Pre-programmed Roller Speed Ratios** optimized for each diameter and self-adjusting. Simply key in the diameter of coil being run and the mandrel's speed and the roller speeds adjust accordingly.



**Unique 2 Roller System**

Allows for easier mandrel changes and a better cool air flow around the forming coil.



**Innovative Hot Start Feature**

The Hot Start Feature allows the New Concept Former to Stop and Start—without any interruptions in production. Hot air keeps the filament warm as it exits the heater drum so that when the Former re-starts there is no product distortion. A very important feature that allows the Concept QS Interline systems to operate as well as they do.

## Features of the PLASTIKOIL® New Concept Former

- Coil Diameter Capabilities – 6 mm to 30 mm with options up to 50 mm
- Multiple Pitch options – 4:1 / 6 mm / .2475" / 5:1 / 3:1 / 2.5:1  
Custom pitch also available
- Min / Max lengths – 6.5" to 43" (16 – 109 cm)

- State of the Art PLC Control System
- User Friendly Interface
- Pre-programmed speed ratios optimized for each diameter / self adjusting
- Electronic temperature control (ensures precision and reliability)
- Digital counter offers simultaneous box / total order requirements

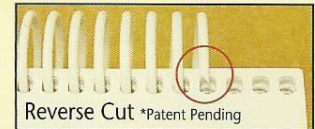
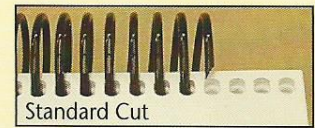
- Easy Mandrel changeover
- Positive Hexagon Mandrel Drive
- IMC (Interchangeable Mandrel Components)

- Unique Spool Brake Design
- Safety shields on the heater drum
- Air cylinder coil eject
- DC Variable speed motors
- Automatic Oiling System
- Patented

- Small Footprint
- Smooth, quiet, simple operation
- Self reliant / Minimal operator supervision

- Hot Start option - Stop / Start with zero waste
- Optional packaging methods
- Interline capabilities with the PBS 3000 QS Auto Inserter/ Finishing System

Gateway's NEW patent pending Reverse Cut PLASTIKOIL®



The reverse cut lead edge smoothly funnels its way through the punch hole in comparison to the standard cut lead edge. A great advantage especially when binding thicker books. An option on the PLASTIKOIL® New Concept Former. Retrofits also available for existing machines.



COIL



OFFICE SYSTEMS



PUNCHES



COIL INSERTERS



MANUFACTURING



INTERLINE



FILAMENT



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# Modular Solutions for Plastic Spiral Binding

Operate in unison or detach whenever necessary for independent production.

## PBS 3000 QS Automatic Inserter

Start with a stand alone 3000 QS Automated Coil Inserter.



600  
books/hr

Works with pre-formed, pre-cut lengths of plastic spiral

- QS—Quick Setup—No tools required for basic setup and changeover
- Multiple pitch options—Changeover simple and inexpensive
- Vertical book placement can accommodate tabs or wider covers
- Consistent simultaneous crimping of both coil ends
- Single stage process—More efficient than two stage insertion/crimp
- Binding capabilities—6 mm through 30 mm coil diameter
- Min / Max binding edge—5 to 12 inch with options to 17 inch
- Low maintenance design—No need for expensive service contracts
- Can be interlined with the PLASTIKOIL® New Concept Former

## PLASTIKOIL® Concept QS Single Interline System

Interline your 3000 QS with a PLASTIKOIL® New Concept Former.



800  
books/hr

Now you're able to manufacture coil in-house, on demand  
**In-House Manufacturing = 50% Material Cost Savings**

- In-house coil manufacturing interlined with automated coil insertion
- Coil produced and immediately conveyed into position for insertion into book
- Manufacture the coil you need—when you need it
- Free up valuable inventory floor space
- Coil forming capabilities—6 mm to 30 mm (50 mm not available when interlining)
- One operator handles the entire setup
- Hands free coil placement dramatically speeds up binding productivity
- 'Hot Start' feature allows the Former to stop & start with zero waste
- Operate in unison or detach when necessary for independent production
- Can be expanded to a Concept QS2 Dual Interline System

## PLASTIKOIL® Concept QS2 Dual Interline System

Add a 2nd 3000 QS to your Single Interline System for maximum output. 1 Forming Machine interlined with 2 Auto Inserters.



1400  
books/hr

Double your productivity without doubling your cost.  
**In-House Manufacturing = 50% Material Cost Savings**

- The first **DUAL** Interline system for plastic binding with **two** interlined PBS 3000 QS Auto Coil Inserters keeping pace with the PLASTIKOIL® New Concept Formers' high speed production output
- All of the advantages of in-house coil manufacturing
- Bindery labor savings as high as 65%
- Modular design—Operate as a Dual Interline or operate with one Inserter inline and one Inserter offline to bind two different jobs at the same time.
- Maximize bindery productivity without the need to invest in a second forming machine
- Productivity ratings as high as 1400 books per hour!

COIL

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# PLASTIKOIL®

Gateway Bookbinding Systems Ltd.  
The Plastic Spiral Experts

**SMP** OR  
SISTEMAS MÁQUINAS  
E PRODUTOS, LDA

## The PLASTIKOIL® New Concept Former

Gateway Bookbinding Systems Ltd. has been manufacturing plastic spiral binding for almost 50 years. Those years have yielded a tremendous amount of experience in the areas of plastic extrusion and the forming of coil.

As the industry continues to change, customers have come to expect coil production on demand. Whether you are a manufacturer making coil for resale, or you are producing coil for your own in-plant or bindery's consumption, the PLASTIKOIL® New Concept Former brings you a new concept in forming equipment design. A revolutionary new concept in manufacturing on demand with a design that is flexible enough to enable you to accommodate all of your coil production requirements.

The PLASTIKOIL® New Concept Former. From Gateway Bookbinding – The Plastic Spiral Experts.



## The Advantages Of In-House Plastic Spiral Manufacturing



- Increase your profit margin – Material savings up to 50%!
- Produce exactly what you need – when you need it.
- The 7 recommended stock filament profiles yield 26 different coil diameters – from 6 thru 50 mm.
- Free up valuable floor space by eliminating formed coil inventory.
- No product distortion during transit – improving bindery productivity.
- Save on freight – eliminating the need to rush ship pre-formed coil in by air freight.
- Packaging savings – re-use cartons when consuming coil in-house.
- Empowering you to provide outstanding customer service – resulting in immeasurable customer satisfaction.

## The PLASTIKOIL® Concept QS / QS2 Interline Series

For the bindery or in-plant doing higher volumes of plastic spiral binding work, the Concept QS Interline series provides a modular solution that enables you to expand as your workload grows.

You can get started with a stand alone PBS 3000 QS Auto Coil Inserter – working with pre-formed/pre-cut lengths of coil. The 3000 QS can insert coil at speeds up to 600 books per hour, providing a consistent simultaneous crimping of both coil ends.

As your needs grow, interline your 3000 QS with a PLASTIKOIL® New Concept Former. Now you're able to manufacture coil in-house and on demand resulting in material savings up to 50% with improved coil insertion productivity up to 800 books per hour.

Take it a step further and add a 2nd 3000 QS to your Single Interliner System for maximum output.

The one PLASTIKOIL® New Concept Former interlined with two 3000 QS Inserters – double your productivity without doubling your cost!



## The Advantages Of Gateway's Interline Systems



- A modular system that you can operate in unison or detach whenever necessary for independent production.
- Hands free coil placement dramatically speeds up binding productivity.
- Maximize productivity without the need to invest in a second forming machine.
- Bindery labor savings as high as 65%.
- Innovative 'Hot Start' feature allows the Former to stop & re-start with zero waste.
- Heated Accumulator for improved coil crimping.
- Designed with almost 5 decades of plastic extrusion and coil forming experience.
- Manufactured in North America by Gateway Bookbinding – The Plastic Spiral Experts.

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