

### It All Starts With

**PLASTIKOIL® filament** – For years, Gateway Bookbinding has endorsed the many advantages of working with an elliptical profile of plastic filament. For those customers manufacturing coil in-house, this elliptical PLASTIKOIL filament – versus a round profile – results in much higher yields per pound of formed coil. The elliptical profile has also been proven to work better with automated coil insertion equipment. Gateway maintains a large inventory of spooled filament, with our extrusion department operating 24 hours a day so that we can provide our customers with quick and efficient turnaround.

### The Advantages Of PLASTIKOIL® Filament

- Made from top quality, high grade PVC
- 45 different colors to choose from
- Custom color matches / custom filament diameters also available
- Disposable spools (No spool deposits or spools to return)
- Manageable 25 lb. (11 kg) spools maintained in inventory
- Envirokoi® filament – an environmentally friendly PLASTIKOIL® by-product produced from over 95% post-commercial waste.
- RecyKoil filament available – manufactured from recycled materials that are sourced outside of Gateway's own internal production
- PETG filament – also available as an alternative to PVC
- In-stock – Large inventories of Black / White / Clear maintained at all times
- Fast turnaround – 24 hour production

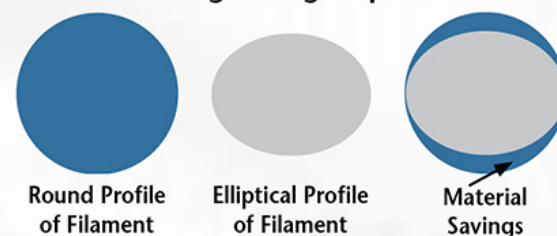
### Advantages of In-House Plastic Spiral Manufacturing

- 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 the highest customer satisfaction.

Standard PLASTIKOIL® Filament Profiles	PLASTIKOIL® Lite Filament Profiles	Corresponding Coil Diameters
1.8 mm (.072")	1.6 mm (.063")	6 – 9 mm
2.0 mm (.080")	1.8 mm (.072")	10 – 13 mm
2.2 mm (.088")	2.0 mm (.080")	14 – 17 mm
2.4 mm (.096")	2.2 mm (.088")	18 – 23 mm
2.6 mm (.104")	2.4 mm (.096")	25 – 32 mm
2.8 mm (.110")		35 – 42 mm
3.0 mm (.118")		45 – 50 mm



### Material Savings using Elliptical Filament



## In-House Coil Production / Interline Solutions

Plastikoil® NCF6 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





The new NCF6 control system with its Allen-Bradley Micro 850 PLC and Panelview C400 4.3 inch color touchscreen improves the operator interface, making it easy and fast to set up the machine or change sizes. **Pre-programmed temperature and machine speed values** are optimized for each coil diameter insuring consistent top quality coil while at the same time insuring MAXIMUM productivity.



**Unique 2 Roller System**  
Allows for easier mandrel changes and a better cool air flow around the forming coil.



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



**Innovative Hot Start Feature**  
The Hot Start Feature allows the NCF6 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.

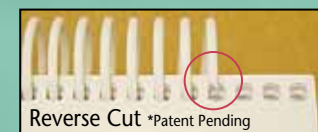


**Built In Mandrel Storage**

## Exciting NEW Features of the PLASTIKOIL® NCF6 Concept Former

- **Coil Diameter Capabilities** – 6 mm to 30 mm with options up to 50 mm
- Multiple Pitch options – .2475" / 4:1 / 6 mm / 5:1 / 3:1 / 2.5:1
- Custom pitches also available
- Min / Max lengths – 6.5" to 18" (16 – 46 cm)
- Optional slide-in extension table – for lengths up to 43" (109 cm)
- **An enhanced state of the art PLC Control system**
- **Color Touchscreen** with a very User Friendly Interface – making set up and changeovers even easier
- **Pre-programmed temperature and machine speed values for each coil size** – Optimized for MAXIMUM productivity
- **Enhanced system status monitoring** (watchdog features) complete with fault log to aid with service and maintenance
- **An electrical system complete with breakers. No replacement fuses needed.**
- **3 phase AC motors and variable frequency drives.**
- **Empty Spool Detection system** – allows for easier and quicker spool changes.
- **Improved ergonomics with the Control Touchscreen and E-stop now on the front of the machine for easier operator access.**
- Easy mandrel changeover
- Positive Hexagon Mandrel Drive
- Cost effective IMC (Interchangeable Mandrel Components)
- Unique Spool Brake design
- Safety shields on the heater drum
- Air cylinder coil eject
- Automatic Oiling System
- Small footprint
- Smooth, quiet, simple operation
- Self-reliant / Minimal operator supervision
- Hot Start option – Stop / Start with zero waste
- Optional packaging systems
- Interline capabilities with the PBS 3000QS4 Auto Inserter(s)
- Optional packaging / single and dual interline modules pre-configured into the control system make expansion easy

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.



## Modular Solutions for Plastic Spiral Binding

Operate in unison or detach whenever necessary for independent production.

### PBS 3000QS4 Automatic Inserter

**Start with** a stand alone 3000QS4 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® NCF6 Concept Former

### PLASTIKOIL® Concept QS Single Interline System

**Interline** your 3000QS4 with a PLASTIKOIL® NCF6 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 3000QS4** 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 3000QS4 Auto Coil Inserters keeping pace with the PLASTIKOIL® NCF6 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!