Air Bar Technology
Spooner has designed and built, state of the art, flotation systems for more than 30 years. Constant development of special air bar systems provide solutions for a vast range of process problems.

The web is supported throughout via a dynamic air pressure pad with high clearance, achieving non-contact web handling. This enables less expensive floor space and simplified process.

Spooner Air Bars offer:
- Superior Web Stability, ensuring consistent flotation performance
- Energy Saving, minimal energy consumption
- Wide Operating Tension Range, providing optimum operating flexibility
- Wide Width Capacity: suitable for even bays
- Moderate Construction, offers consistent performance
- Even Pressure Distribution: gentle on coatings

Typical Applications
- Coating on Papers
  Air Float Dryer (U.K. Paper)
- Impregnation and Sizing of Papers
  Air Float Dryer (Torlado, U.K.)
- Finishing: coating, Mycronic Mede
  Air Float Dryer, DBF8, Germany
- Casting of non-wovens
  Air Float Dryer (BUSS, U.K.)
- Thermal Paper Drying
  Spoonerfoam Dryer (Richter, France)
- PSA Paper and Film Drying
  Air Floatation Dryer (Baltikah, France)
- Lithographic Drying on Foil
  Spooferfoam Dryer, DBF8, U.K.
- Paper Drying
  HPC Dryer (Siegfried, Germany)
- Steel Strip Drying
  Silverleaf® Coater, Canada
- After-Casting Drying
  Self-Threading Dryer and Coater (SPA Tensions, Finland)
- Post-Scale Press Drying
  Jet Foil® (Rheinlander Paper, U.S.A)
- Str-Mask Paper Roll Coater
  Air Turn® (New Ep, Spain)

References
ICI, Olivetti, 3M, Voith Sulzer, DuPont, Mobil, BTG, Arjo Wiggins, Stora, Mitsubishi, Polytype, PCMC, DuPont-Howson, New Oji.

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**Company Philosophy**

Spooner is dedicated to a culture of creativity and innovation to maintain its position at the forefront of web processing technology.

**Spooner Industries Ltd**

Spooner offers unrivalled worldwide experience in the drying, curing, cooling and non-contact handling of coated and impregnated web materials, whether the substrate be paper, film, foil, heavy metal strip or textiles.

A thorough understanding of heat transfer, air flotation technology and pollution abatement allows the Company to design and effect solutions for a wide and growing range of industries and processes.

A comprehensive capability is offered from concept design, through manufacturing for full installation and on-site commissioning. Spooner’s factory test and R&D facilities back up more than 70 years of experience, knowledge and customer satisfaction.

Spooner Industries Ltd offers you:

- Quality Assurance through ISO 9001 accreditation and extensive internal and external auditing for complete customer satisfaction
- A comprehensive international network of experienced agents backed up by Spooner sales and technical engineering teams
- Full installation and commissioning services worldwide, with supervisory or full team erection and operator training
- A rapid response at all times to service requirements, anywhere in the world; preventative maintenance and inspection contracts
- Spare parts back-up that offers a prompt, reliable and knowledgeable service
- A dedicated R&D Test Centre facility, that allows in-depth study and demonstration of new processes and equipment design

Aerial view of Spooner offices and factory R&D Line No.7 Spooner Test Centre

**Air Flotation Technology**

Spooner is committed to providing its customers with advanced drying systems incorporating high levels of sophistication, performance and product quality. Spooner optimizes design to give ease of operation, long life and simple maintenance, combined with high standards of art; flotation results. The principle of operation is shown below.

Spooner offers a uniquely flexible approach to Air Flotation Dryer design, with the widest choice of:

- Air Flotation nozzles: optimised for your product range
- Enclosure Design: to integrate with your current and future needs
- Heating Systems: matching heat input to idiosyncratic needs
- Solvent Level Control Methods: ensuring safety whilst optimising efficiency
- Medium Heat Recovery: enabling low-cost possible energy recovery

### Air Flotation Dryers

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### Air Flotation Systems

Continuous development of Spooner Air Flotation systems has established a comprehensive range of equipment for all web processing industries.

#### Air Flotation Dryers

Utilising Air Flotation reduces the transfer load, to a moving web and support, B, on a cushion of air, from A through the dryer. Spooler offers unrivalled worldwide experience in the drying, curing, cooling and non-contact handling of coated and impregnated web materials, whether the substrate be paper, film, foil, heavy metal strip or textiles.

**Self-Threading Equipment**

Spooner self-threading technology has established unrivalled solutions for a wide range of applications, from heat transfer, air flotation technology and pollution abatement to design and effect solutions for a wide range of industries and processes.

#### Inert Atmosphere Dryer

Utilising a nitrogen atmosphere within the dryer for solvent based coatings allows safe operation, low operating cost, solvent recovery and low VOC emissions to atmosphere.

#### Low Tension Dryers

Use of specifically designed nozzles allows flotation of webs with minimum tension whilst ensuring high heat transfer rates.

#### Air Flotation Coolers

Jet foil is a highly performance dryer replacement for paper drying cylinders allowing for shrinkage.

#### Low Tension Dryers

Jet foil is a high performance cooling equipment for Film, paper and metal strip.

#### Curing Ovens

Non-contact, non-contact heating equipment for Film, paper and metal strip.

#### High Speed Air Floaters

Spray nozzles and pressure chambers under construction in Spooner’s factory. Specially designed brokets allow for maximum efficiency and low tension.

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