

## Stork Prints

The Stork Prints Group is the leading supplier of printing consumable concepts for the textile and graphic markets as well as 2-dimensional, high accuracy, metal precision products. The group achieved a turnover of € 200 million in 2007. For more information please visit [www.storkprints.com](http://www.storkprints.com).

### *The Netherlands*

*Stork Prints B.V.  
P.O. Box 67  
5830 AB Boxtmeer  
The Netherlands  
Tel.: +31 485 59 95 55  
Fax: +31 485 59 95 56  
[info.storkprints@stork.com](mailto:info.storkprints@stork.com)  
[www.storkprints.com](http://www.storkprints.com)*

### *U.S.A.*

*Stork Prints America Inc.  
P.O. Box 26458  
Charlotte, N.C. 28221  
U.S.A.  
Tel.: +1 704 598 71 71  
Fax: +1 704 596 08 58*

### *India*

*Stovec Industries Ltd.  
N.I.D.C. Near Lambha Village  
Post: Narol  
Ahmedabad 382 405  
Gujarat State  
India  
Tel.: +91 79 571 04 07  
Fax: +91 79 571 04 06*

### *Austria*

*Stork Prints Austria GmbH  
Kufsteiner Strasse 4  
A-6336 Langkampfen  
Austria  
Tel.: +43 5372 69 93 0  
Fax: +43 5372 69 93 54*

### *Mexico*

*Stork Mexico S.A. de C.V.  
P.O. Box 44-227  
03100 Mexico D.F.  
Mexico  
Tel.: +52 55 56 82 32 99  
Fax: +52 55 56 82 44 04*

### *Indonesia*

*P.T. Stork Prints Indonesia  
Cikarang Industrial Estate  
Jl. Jababeka Raya  
Block C No. 1  
Bekasi 17550-Jawa Barat  
Indonesia  
Tel.: +62 21 893 41 36  
Fax: +62 21 893 41 35*

### *Poland*

*Stork Prints Polska Sp. z.o.o.  
ul. Brzezna 3  
90-303 Lodz  
Poland  
Tel.: +48 42 6 37 11 28  
Fax: +48 42 6 37 11 34*

### *Brazil*

*Stork Prints Brasil Ltda.  
Av. Com. Leopoldo Dedini,  
150  
CEP 13.422-210  
Piracicaba (SP)  
Brazil  
Tel.: +55 19 34 37 13 00  
Fax: +55 19 34 37 13 90*

### *China*

*Stork Textile Systems Wuxi  
Co. Ltd.  
No. 251, Xing Chuang Ba Lu  
Wuxi-Singapore Industrial Park  
Wuxi, Jiangsu 214028  
P.R. China  
Tel.: +86 510 8528 22 25  
Fax: +86 510 8528 22 41*

### *Turkey*

*Stork Prints Baski Sistemleri  
Tic Ltd Sti  
Kaya Sultan Sok.  
Huseyin Bagdatlioglu Is  
Merkezi  
No: 97 Kat:1 D:2A Kozyatagi  
34742 Istanbul  
Turkey  
Tel: +90 216 464 83 53  
Fax: +90 216 464 83 57*

### *Pakistan*

*Stork Prints Pakistan (Pvt) Ltd.  
11, Bangalore Town  
Cooperative Housing Society  
Shahrah-e-Faisal  
KARACHI 75350  
Pakistan  
Tel.: +92 21 455 83 34  
Fax: +92 21 455 82 77*

### *Japan*

*Stork Prints Japan K.K.  
Daimei Building, 7F  
3-20-10, Toyosaki, Kita-Ku  
Osaka-City  
Osaka Pref. 531-0072  
Japan  
Tel.: +81 66 359 88 65  
Fax: +81 66 359 88 73*

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*Apollo dryer*

*Efficient drying with minimal  
energy consumption*

*Stork Prints*

The Stork Apollo is a high-efficiency drying unit that enables rapid and uniform drying of cloth widths ranging from 1850 to 3250 mm. Its extremely economical performance means that a minimal amount of energy is required to perform the drying operation, and its compact footprint takes up little floor space. In addition, compatibility with several fuel types allows the Apollo to integrate easily into your existing facilities.

#### Exceptional drying efficiency

The Apollo is characterised by extremely high efficiency in drying. As much air as possible is re-circulated, and a high velocity is achieved in the direct vicinity of the cloth by blowing jets of air directly onto it from both above and below. The optimum amount of air is extracted to achieve maximum evaporation and a steady outflow across the full width of the dryer, while keeping power consumption low.

#### Less room required

Another significant advantage of this high efficiency is a saving in floor space. The Apollo consists of a series of pre-assembled sections, and you specify the number you need to match your drying requirements. Configurations can be made up of one to five sections, depending on the intended use and desired evaporation rate. In many cases, fewer sections are

required than with competitor drying systems; therefore you need less room in your plant. Being more compact also means there is less cloth inside the dryer, so inspection and adjustment can take place at an earlier stage, which increases process efficiency. The Apollo's modest dimensions enable greater flexibility in configuration as well: the units are only 2.75 m high, and can therefore be installed on an upper floor.

#### Quick installation

The modular nature of the Apollo also drastically reduces installation time, as the pre-assembled sections are easily joined together on-site. All sections fit into standard sea-freight containers to simplify shipping and reduce delivery costs. Once in use, the Apollo requires a minimum of maintenance, and the air nozzles can be removed from the dryer for easy cleaning.

It is also extremely easy to use the Apollo. All functions can be accessed on the dryer itself. This simplifies and speeds up control.

#### Choice of heating methods

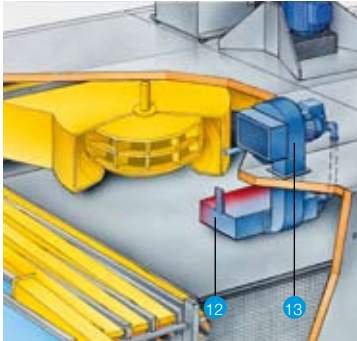
The Stork Apollo can be heated using steam or thermal oil, as well as directly using gas. This flexibility gives you the option of selecting the method most suitable for your plant. When steam or thermal oil is used, the air in the dryer

is heated by a heat exchanger. With gas, the Apollo has an in-built burner over which the air passes and heats up. The gas supply is controlled proportionally, and is accurate and efficient. The high turndown ratio (20:1) allows quick heating while offering the possibility to operate at a very low energy level for substrates sensitive to heat. In this way the Apollo is suitable for drying many different types of substrate.

#### Options

The functionality of the Apollo can be extended through a number of options:

- Underside drying function with adjustable conveyor height.  
To prevent smudges on the conveyor belt caused by paste from the underside of the substrate, the conveyor is lowered in the first section of the Apollo and the substrate is dried from the underside before coming into contact with the conveyor belt.
- Integrated fixation zone.  
An integrated fixation zone can be added to enable the fixation of pigment dyestuffs. The fixation time is adjustable and independent of the line speed. This operation saves an extra fixation process.
- Conveyor belt washer.  
An optional washing unit

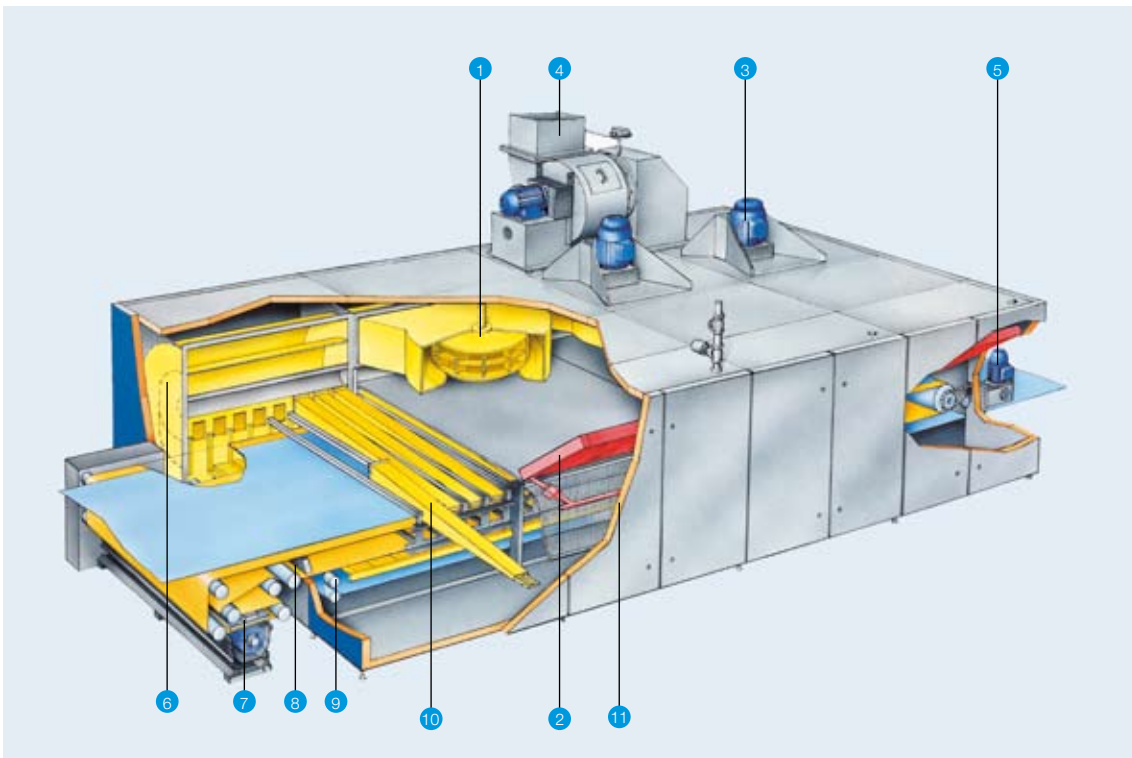


is available to clean the conveyor belt in a separate washing cycle (see 7 in diagram).

- Variable speed control for circulation fans.
- Variable speed control for exhaust fan.
- Temperature control for steam/oil heating.

#### Technical specifications

Available widths:	1850/2400/2800/3200 mm
No. of sections:	2,3,4 or 5
Heating method:	steam/oil/gas



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| <ol style="list-style-type: none"> <li>1. High-efficiency radial circulation fan</li> <li>2. Heat exchanger (for steam or thermal oil systems)</li> <li>3. Circulation fan motor</li> <li>4. Exhaust duct</li> <li>5. Conveyor belt drive</li> <li>6. Air distribution system</li> <li>7. Conveyor belt washer*</li> </ol> | <ol style="list-style-type: none"> <li>8. Conveyor belt guiding and tension control</li> <li>9. 1, 3 or 5* passages</li> <li>10. Nozzles</li> <li>11. Insulation</li> <li>12. Gas burner (for gas-fired systems)</li> <li>13. Combustion air supply</li> </ol> <p>* Optional</p> |
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