



## *Digital production on substrates as wide as 2.20 m*

### *Stork Digital Imaging*

For high-quality digital production runs on virtually all types of fabric with widths up to 2.20 m, the Tourmaline digital printer from Stork is unrivalled. It is compatible with natural and synthetic textiles including delicate materials like silk, polyamide and stretch fabrics. And it is just as effective when working with stiffer, woven materials.

The Tourmaline, with its extra-wide printing area, is ideal for creating home furnishings, banners, flags and other fabrics where width is critical. But as the printing width can be adjusted, it is equally productive when working with narrower substrates. Like other Stork digital printers, the Tourmaline gives many advantages over conventional printing techniques, including

increased flexibility, higher printing speed and extra convenience.

A new belt drive gives it extra precision, so the print at the end of the substrate is exactly the same as at the beginning. An adhesive blanket prevents even the smallest movement of the substrate once it is in position and ensures perfect registration. A precision unwind mechanism guides the fabric smoothly and precisely onto the blanket, whose glue is activated by heat. The Tourmaline also eliminates 'back-printing' - which occurs when ink passes through the fabric and stains the underside - by removing excess ink from the adhesive blanket using a rotating cleaning unit. This also extends the lifetime of the blanket.

#### [Differentiating from other printing systems](#)

Nowadays, most professional digital printing systems provide acceptable end results. But what really makes the difference are aspects like operating software, the level of application knowledge and available support. Our dedicated PrinterServer software, with its easy-to-use graphical interface, ensures excellent reproduction of the original design, as well as a high degree of conformity between individual print runs.

In addition, the Tourmaline incorporates much of the expertise that has made Stork one of the world's most renowned suppliers of textile printing equipment. Our proven ink technology, our advanced colour

management capabilities and our extensive application knowledge are all combined to give you outstanding image quality that in many cases surpasses that of conventional printing. At Stork we also provide extensive training so first-time users can get the very best out of their equipment. And you always have the backup of our global support network.

#### What U See is what you get

To ensure compatibility with other systems, the Tourmaline is prepared for a standard known as Stork U See. As the

name suggests, what you see is exactly what you get, ensuring consistency in colour and quality from design through samples right up to the end product. This, for instance, guarantees an identical output from different printers, even when they are not located in the same site or even country.

#### External ink supply

The Tourmaline is fed by an external ink system which guarantees a smooth, uninterrupted and stable ink supply to the printer, without the nozzle failure often

associated with other systems. This is especially useful at higher printing speeds.

#### Comprehensive range

The Tourmaline is part of a wider range of digital printers from Stork. We offer systems that enable everything from sampling to small- and even medium-volume production print runs. These are complemented by auxiliary equipment including fixation units and external ink systems. For full details, see [www.storkprints.com](http://www.storkprints.com).

### Technical specifications

#### Printer

Printing method	Inkjet Piezo Drop on Demand with variable drop-size (VDS)
Print heads	8 heads in in-line arrangement, 2x8 colours, 180 nozzles per colour
Printing speeds	Maximum speed 42 m <sup>2</sup> /h Average speed (high quality) 20.1 m <sup>2</sup> /h
Print width	2200 mm
Fabric feed system	Controlled unwind / rewind – Adhesive blanket – Spreader roll, dancer rolls to control winding / rewinding + tension or tensionless feeding Maximum roll diameter 280 mm and maximum roll weight 50 kg
Dimensions	3800 (W) x 1850 (L) x 1600 (H) mm
Weight	1200 kg
Power Supply	Printing machine: 100-240 Vac. 50/60 Hz Blanket: 400 Vac., 50/60 Hz, 3-phase + neutral + earth
Operating environment	18-25°C, 35-65% RH

#### External ink system

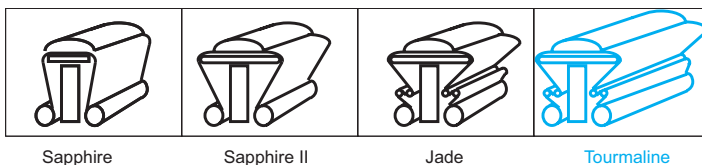
Dimensions	700 (W) x 1670 (L) x 1070 (H) mm
Weight (incl. cartridges)	150 kg

#### Ink

Type	Reactive, Acid, Disperse Direct
Format	2000 ml (external ink system)

#### Fabrics

Max. Width	2200 mm
Height adjustment	6.6 mm



Sapphire

Sapphire II

Jade

Tourmaline

The data in this brochure was valid at the time of publishing, and is subject to change without notice. Stork reserves the right to modify its products at any time without further obligation.

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