



HGS MACHINES



TEJAS

# The Optimal Solution for your entry into Digital Printing

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Redefining Machines.



# Sustainable by nature

## The smallest possible footprint

As a manufacturer we & our associated Ink Partner are engaged in a continuous process to reduce our impact as much as possible. This means saving energy, water and chemicals is a priority. We purify our water and air before it leaves our factories and we process our waste responsibly, compliant to local regulations and standards. Our scope in sustainability extends to the production sites of our customers as well. We help them to reduce the environmental footprint of textile printing with products and expert advice, to save energy, reduce emissions and prevent waste of precious resources.

## Digital dramatically reduces waste

The core benefit of digital printing is flexible on demand production. No need to push large quantities with longer lead times and risks of overstock or shortages. Customers can order smaller batches and simply re-order successful collections. Digital dramatically reduces the waste of resources required to produce and ship stocks that never reaches any consumers. Next to that, HGS Machines has instilled a long-term sustainability strategy on its entire operation, impacting everything we do today and tomorrow.



# Time to take Digital Printing Seriously

## **Tejas is the optimal solution for your entry into digital printing.**

At HGS we have put 2 decades of our experience in textile printing into proven digital technology to help you meet the demands of today's fashion industry. Tejas provides industrial performance and more sustainable, high quality digital printing at a profitable cost level. With fast turnarounds and full application support, Tejas is the optimal solution for your entry into digital printing.

## **Combining the best of both worlds with the Tejas print engine**

The print engine works with RICOH GEN 6 print heads that have a proven long lifetime, while the unique HGS technology ensures consistent print quality even in varying room climate conditions. The variable drop size enables you to produce sharp images, vibrant colours and smooth gradations. An inbuilt reservoir system keeps the ink flow smooth to produce fresh colours and crisp designs anytime.

## **User friendly**

To help you succeed in digital, we made sure the printer is very easy to operate. The Printer comes with Open body for an easy maintenance. The installation is plug & play and the latest colour management engine and colour processing tools are included in the preloaded RIP software. A key operator training comes as a standard, covering user maintenance, working with profiles for smooth gradations and vibrant colours with different fabrics, practical tips & tricks, and more.



# Limitless Creativity

HGS is a total systems supplier, offering productive hardware, best-in-class software and the choice of reactive or pigment inks. With Tejas we introduce a robust entry-level digital printer that offers immense creative opportunities to print on a large variety of fabrics. A perfect solution for start-ups with enough printing demand to fulfil the need for a medium-speed printer

## End-to-end support of your business

With HGS you can access decades of experience in textile printing, right from the source. Our application support specialists are dedicated to help you explore new possibilities and will share everything there is to know to keep your Tejas in perfect condition. And when outstanding results matter, rely on HGS' ink technology. Our inks are specially formulated to deliver optimum performance. In-house machine R&D allows us to offer machine with unrivalled quality and runnability that add value to your business. Our inks guarantee unattended printing without nozzle blockages or print head failures while adhering to the highest standards and legislation on sustainability.

## End-to-end control for quality output

The combination of the versatily fabric infeed unit, complete control over the fabric during printing, the separate inline dryer and the international recognized HGS Reactive or Pigment inks based on Novacron technology guarantees an end-to-end control for quality output. The in-built negative pressure system keeps the Ricoh printheads in optimal printing condition during all times, enabling stand alone printing for long periods.

# Designed for continuous production

## Fabric infeed system

- Auto tensioning sensor to maintain constant tension throughout the length
- Multiple tensioning roller to control boing in fabric and ensure straight edges
- Guide supported Conveyor with adhesive keeps the fabric even and prevents creases while printing – achieving accurate printing results
- Pneumatic controlled pressure roll ensure the fabric pasting even

## Blanket cleaning system

- Equipped with brush roller and water jets to wash off the lint and excess inks on the blanket
- 3 Sponge roller to ensure removal of excess moisture
- Infrared belt dryer with hot air to dry the blanket completely and activate the adhesive on the blanket

## Dryer

- Separate infrared dryer for rapid drying of printed ink on fabric
- Energy efficient radiation for reduced heat dissipation into the room

## Ink system

- 10 litre ink tanks for long ink refilling cycles
- Latest degassing and bubble removing system to avoid printhead blockage during printing
- Inline ink filters for safety of printhead
- Ink refill during running
- Low ink warning for operator attention

# A closer look to inspiring details

Features	Description			
Printing width	1800 mm			
No. of PH	4 or 8			
Print heads	Ricoh Gen 6			
Ink	Reactive or Pigment			
Colours	8			
Environment Conditions	Room temperature 20 - 25°C			
Printer Electronic	BYHX			
Conveyor cleaning system	3 Sponge roll, 1 brush roll, Back dryer, fabric supprting roll			
Print modes / Production modes				Speed (sq mtrs / hr)
	Passes	DPI	4 PH	8 PH
	2	600 * 600	60	120
	3	600 * 900	45	90



# Applications of Digital Textile printer Perfect for

## Sarees



## Suits and Dress Materials



## Bed Sheets



## Curtains and Upholstery



## Why Choose Digital Textile Printing?

### Unlimited Design Possibilities

Print detailed graphics, vibrant colors, photo-realistic images, and gradient effects with ease.

### Low Minimums, High Flexibility

Ideal for customized pieces, boutique collections, and short runs without heavy setup costs.

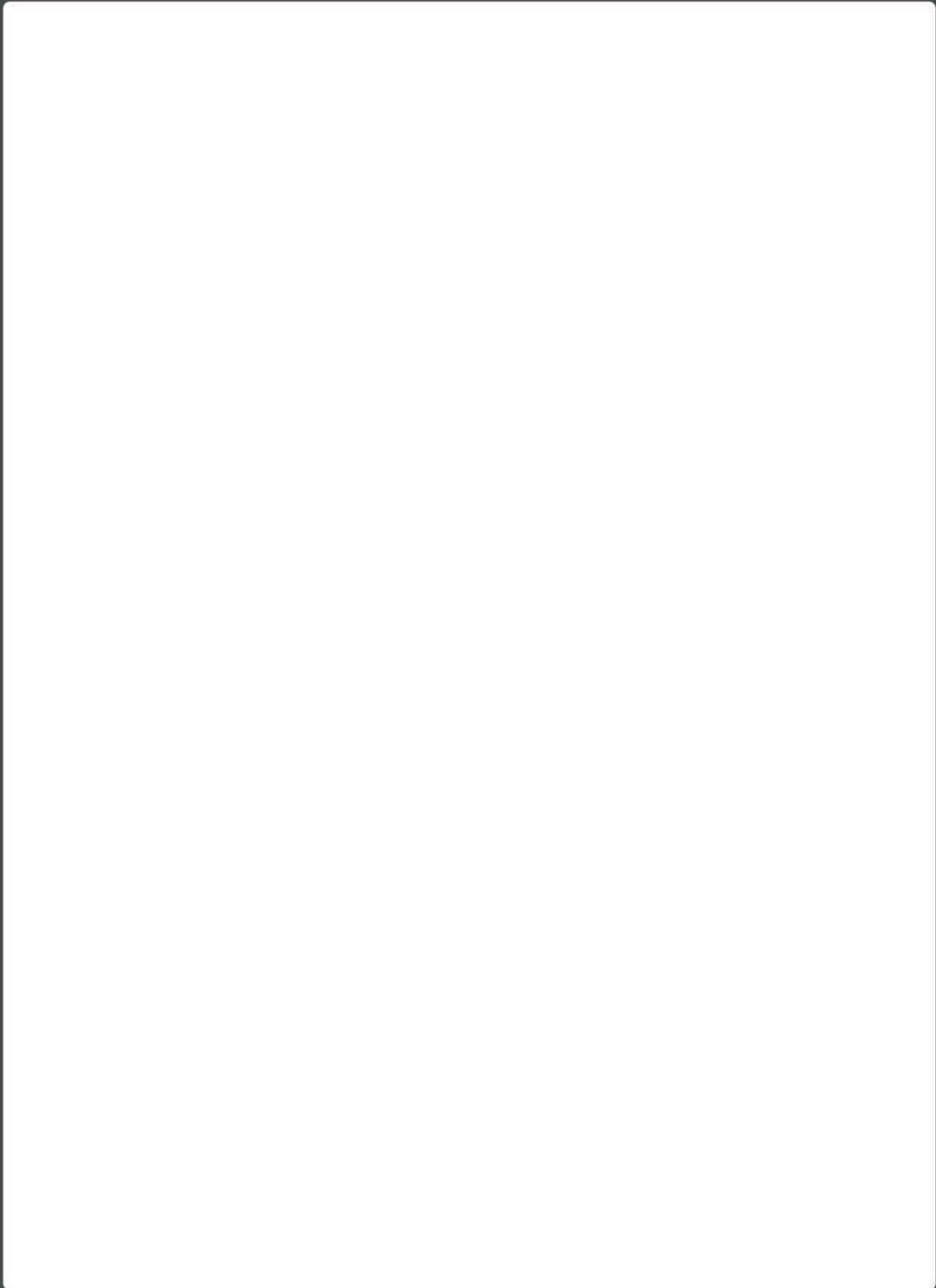
### Eco-Friendly

Consumes less water, fewer chemicals, and produces minimal waste compared to traditional methods.

### Fast Turnaround

Quick sampling and production timelines help meet market trends and customer demands faster.

## Quick Notes



## About HGS Machines

Since inception in the year 2005, the HGS Machines Pvt. Ltd. has come into view after its merger with HGS engineering. Its leadership is marked by many successful challenges our constant chase of 'excellence' and considered among the India's Digital Textile Printers Industry. HGS Group has supervised by young entrepreneurs under the guidance of Our Founder Director Mr. Prashant Mohan Vats, Who have a vast technical knowledge of industry. HGS had engineered the conveyer belt system in 2007, which was one of first innovation in the Indian digital textile industry. The objective was very clear to provide the highly competent & Global standard printers with the Economical price. At HGS, We understand the changing needs of printing industry. For execute your new collections every time, we make highly innovative & cost saving printers every time, which bears the exceptionality of high definition digital printing. We have also become a key player in the market for digital printing. In 2010 we were the first in the industry who manufactured a digital textile printer. We have built a network in Pan India in more than 30 cities. We take pride in putting our customers first, letting their ambitions inspire us, and deploying our expertise, resources and network to help them to achieve their goals. Our solutions are designed to empower customers worldwide in all stages of the printing process; from pre-press to printing, from textile to industrial – and beyond. That is the impact of a key player.

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