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# DIGITAL PRODUCTION GOES MAINSTREAM

The industry's on-demand mass production and customization powerhouse



The new gold standard of sustainable production with game-changing digital throughput and field-proven MAX technology.

- ✦ **Faster than you ever imagined**
- ✦ **Maximize quality to match global apparel brands' and retailers' standards**
- ✦ **Game-changing operational experience integrating top-of-the-line automation and process control**
- ✦ **Lower costs while producing more**



- **Unmatched productivity of up to 400 impressions per hour.**
- **Integrated printing and curing solution.**
- **Highly automated system that can be handled with a single operator.**

## **Apollo innovation – what are we doing differently?**

- Ground-breaking productivity with a single operator
- Semi-auto loading – reduces the dependency on labor
- Automatic unloading of garments from the printer directly to the dryer
- Tesoma technology with smart capabilities
- Qualiset for top-notch color consistency
- Spot colors support to allow color accuracy when needed

## **Eliminate the challenge of producing sub-500-impressions-jobs**

Producing short jobs on screen printers requires considerable time to create the screens and set them up on the analogue carousel. With Apollo you will be printing from the minute the job is loaded.

## **Less labor required**

Hiring and managing operators today is a challenge, and Apollo helps to reduce the labor dependency.

## **Connectivity**

Apollo has a very broad API, and can interface to multiple peripheral IT entities.

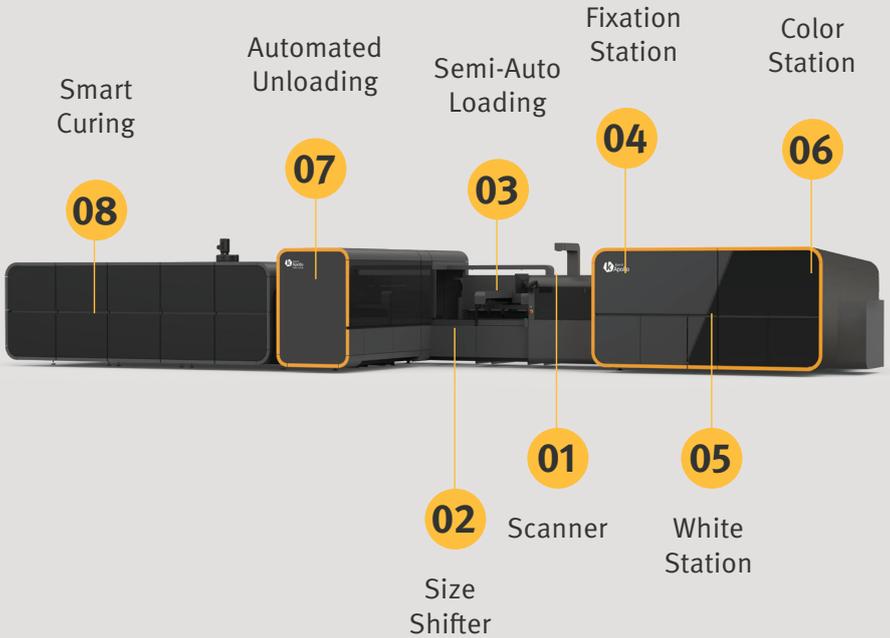
## **Production floor utilization**

- Offset short-to-medium-length jobs to Apollo and free up the automatic carousels for the longer jobs.
- Replace multiple legacy printers with a single system that enables the same productivity with a single operator.

## **Color accuracy**

Working with licensors requires high color accuracy for spot colors. Apollo meets these requirements.

# SIMPLE AND SUPERIOR PRODUCTION PROCESS AND RESULTS



- 01 A **garment is scanned**, and all the relevant details are retrieved (garment).
- 02 Based on the data retrieved, the **pallet will change its size** automatically.
- 03 The operator hands the garment to the **semi-automatic loader** that load the shirt onto the pallet. Quality control takes place.
- 04 **Pretreatment** is applied. The amount of fixation fluid is customized for the specific garment, as it was scanned.
- 05 **White layer** is being printed.
- 06 **Color printing** takes place. Each shirt travels through both printing stations, making the productivity the same for white and dark shirts.
- 07 The **automatic unloader removes** the shirt from the pallet and places it on the dryer's conveyor belt in the right lane.
- 08 **Smart curing** will adjust according to garment and cure in a two-step process.

# MAIN ADVANTAGES

- Powered by advanced patented MAX technology
- Color accuracy to match PANTONE® and spot colors
- Groundbreaking productivity
- Innovative and advanced automation in loading and unloading
- Inline smart curing
- Single-step solution
- Single operator
- Integrated QualiSet autonomous calibration
- Enhanced print durability
- Prints on a wide variety of fabrics
- White ink allowing to print on colored fabrics
- Production data insights via Kornit Konnect
- GOTS, Eco-Passport and BlueSign® for NeoPigment™ Eco Rapid ink
- Integration with Kornit's Global Fulfilment Network

## TECHNICAL SPECS

### Technical Specifications

Production Output	Up to 400 shirts/hour <sup>1</sup>			
Ink Heads Channels	CMYKRG + W + Q.fix + Intensifier			
Print heads	Dimatix StarFire 1024 Twinflex			
Max Print Area	20"X20" or 50.8cmX50.8cm <sup>2</sup>			
Print Resolution	Up to 1200 dpi			
Ink Recirculation	Embedded			
Ink Set	NeoPigment Eco-Rapid			
Fixation	Eco-Fix			
Enhancers	Intensifier and Q.fix			
Humidity System	Integrated			
Printable Substrates	Cotton, Polyester, Cotton-Polyester Blends, Lycra, Viscose, Silk, Leather, Denim, Linen, Wool, and more <sup>3</sup>			
Additional Capabilities	Semi automatic loading <sup>4</sup> Automatic unloading <sup>4</sup> Size shifting for sizes XS-2XL <sup>4</sup> Neck tag printing <sup>5</sup> Qualiset Konnect			
Operating System	Window Server 2019			
System Dimensions	W 5.65m x L 14.8m x H 2.7m or W 18.5 ft x L 48.5 ft x H 8.85 ft			
Recommended footprint	W9.55m x L 17.6m x H 3m or W 31.33 ft x L 57.7 ft x H 9.84 ft			
Weight	Approx. 13,100 Kg or 28,880 lb			
Temperature	18°C-30°C / 64.40F-860F			
Operating Conditions	Humidity: 45%-65%			
Recommended RIP	K-RIP			
Supported Workflow	API + Hot Folder			
Konnect	Supported			
<b>Dryer Power Consumption:</b>	<b>Gas</b>	<b>Gas</b>	<b>Electricity</b>	<b>Electricity</b>
	400V 50HZ	480V 60 HZ	400V 50HZ	480V 60HZ
Max Power Consumption	101A / 64KW	106A / 77KW	225A / 150KW	208A / 161KW
Electric Consumption Average	40KW	40KW	57KW	57KW
Gas Average Consumption	NG 4.4 / LPG 1.7 [m <sup>3</sup> /hour]	NG 4.4 / LPG 1.7 [m <sup>3</sup> /hour]	none	none

<sup>1</sup> For print area up to 12.4"x13" or 31.4cmx33cm

<sup>2</sup> On a non-standard pallet

<sup>3</sup> Automated loading might not be supported for all substrate types

<sup>4</sup> For sizes Woman XS - Men 2XL

<sup>5</sup> Neck tag area if up to 3"X3" or 7.5cmx7.5cm

# KORNIT'S ECOSYSTEM

## Cover Your Bases

**Sustainability:** Meets the highest environmental standards and consumption reductions. GOTS and OEKO Passport certified, and BlueSign® System Partner.

**Ink and consumables:** Paired with Kornit's eco-friendly NeoPigment™ ink for an advanced, sustainable production on multiple fabric types.

**Training and Support:** Multilingual services that include global support, customer empowerment plans, upgrades, beginner to advanced training, maintenance, and more.

**K-RIP Workflow:** Kornit's exclusive RIP (Raster Image Processor) solution, tuned and enhanced specifically for direct-to-garment printing to enable mass customization, offering unparalleled color accuracy to meet the needs of brands and retailers.

**Global Fulfillment Network:** Connects the world's leading brands to a managed network of fulfillers based on proximity to end customers and stores.

# WHAT THE MARKET SAYS



**The game-changing Kornit Apollo platform**, unveiled at the recent ITMA 2023 show, offers what the company calls the ultimate in high-throughput digital production at scale... allowing customers to become more agile, drive revenue opportunities, shift to localized production and ease complex workflow processes”

– *ApparelNews*



The Apollo launch caps off years of painstaking work to develop the automation and streamlining of direct-to-fabric and direct-to-garment, wet-on-wet digital printing. **Apollo is a “breakthrough”** because it is fully digitized and automated, requiring just one employee to manage the entire operation”

– *Sourcing Journal*



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