

Cost - Effective Excellence for Digital Textile Direct Printing



Making Industry Smarter!

High Cost - Efficiency Meets Superior Performance, Tailored for Small - Batch & Customized Printing Needs

NEO-TEX High Speed Textile Industrial Digital Printer

perfectly integrates high cost-effectiveness with superior performance, specifically tailored for instant printing job requirements.

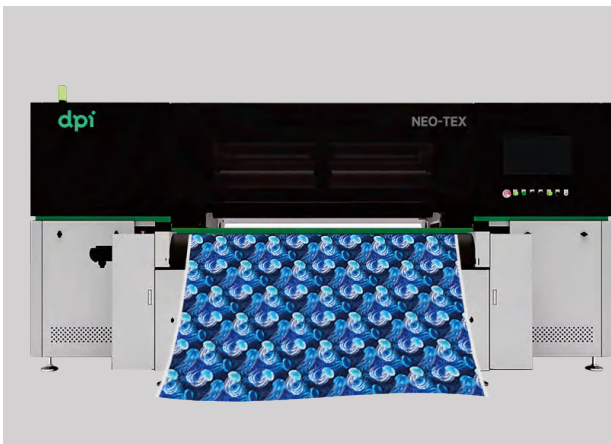
It boasts low investment and controllable operating expenses, flexibly adapting to small-batch orders and customized production needs. It is easy to operate with low maintenance cost, while being equipped with efficient and innovative technologies to deliver high-quality printing results.

Features

- Up to 32 Kyocera print heads, compatible with 6/8 color channels.
- Featuring an 1800mm - 2600mm printing width and paired with a fabric feeding system, it easily handles orders of different specifications.
- Full-circulation ink system and individual temperature control system automatically adjusted according to ambient and print head temps, ensuring jetting stability.
- Features width expansion centering and constant tension devices, compatible with various fabrics.
- Features a belt washing system with dual sink design for residue-free cleaning.
- Adopts a short-frame design, compact structure, small footprint, easy for transportation.

Application	
Apparel	✓
Home Textile	✓
Outdoor Sportswear	✓
Ink Types	
Reactive Ink	✓
Acid Ink	✓
Disperse Ink	✓
Pigment Ink	✓
Fabrics	
Various Cotton	✓
Rayon	✓
Silk	✓
Polyester	✓

*For more details, please contact DPI





Print Heads & Ink Supply System

- Flexibly select print head configurations based on product characteristics.
- Equipped with up to 32 Kyocera print heads, and configured with up to 6/8 color channels.
- The 1800mm - 2600mm printing width covers small and medium-sized home textile & apparel fabric printing needs.
- Full-circulation ink system, auto-activating circulation in standby to prevent print head drying.
- Individual temperature control system, auto-adjusting to ambient and printhead temps for stable ink performance.

Software & Electronic Control

- Integrated unique feathering mode, customized feathering files to reduce the overlap problems.
- Tailor-made printing modes, optimized settings for different design.
- Supports partition control nozzle voltage adjustment to precisely control color variation.
- Accurate waveform & ink matching for accurate color reproduction.

Fabrics Feeding System

- Segmented (detachable) feeding system enabling convenient transport & installation.
- Compatible feeding system with optional single/multi-roll unwinding racks for jumbo/small rolls.
- Equipped with expansion centering and constant tension control devices, suitable for knit and woven fabrics.
- Dancing press roller with heating function to soften fabrics and reduce wrinkles.

Mechanical Structure

- Specialized steel beam structure design minimizes beam deformation risks.
- High-performance belts and transmission components with high-specification materials to ensure printing precision.

Belt Washing System

- Features a dual sink design, supporting separate water inflow and drainage.
- Equipped with double brush rollers, sponge rollers, air blade, water-absorbing rollers and drying system, effectively ensures the stickiness of the belt.
- The scraper can flexibly adjust the angle according to the actual cleaning effect.

High-Efficiency Heating Room

- Symmetrical circulating air duct design, supporting single-layer or multi-layer fabric threading modes.
- Multiple heating methods: electricity,, natural gas, thermal oil, steam, etc.
- Multi-section heating chamber, flexible and adaptable configuration per production need.

Specification

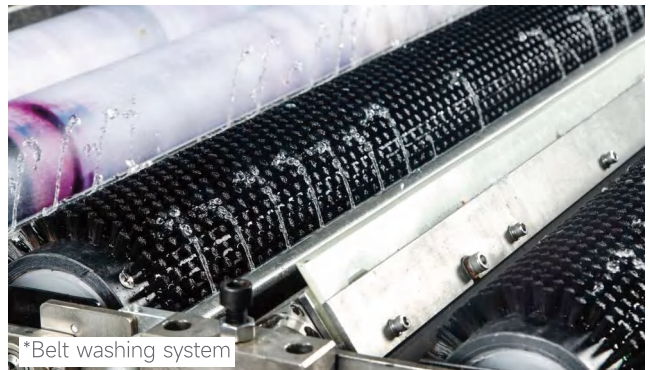
Inline Integrated Fabrics Feeding System
A-Frame Rack Optional
· Integrated fabric feeding
· External fabric feeding with A-frame rack

Fabrics Winding System
· Plaiter Folding
· Surface winding
· Pneumatic shaft winding

Heating Room
· Industrial heating room (1-3 sections).
· Symmetrical circulating air duct design,
· Multiple heating methods: Electricity, Natural gas, Thermal oil, Steam.



*NEO-TEX with fabric feeding system



*Belt washing system

Technical Data

Model	NEO-16	NEO-24	NEO-32	NEO-16	NEO-24	NEO-32	NEO-16	NEO-24	NEO-32
Print Head	Kyocera KJ4B-EX600								
No. of print head	16	24	32	18	24	32	18	24	32
Colors channel	8	6/8	8	8	6/8	8	8	6/8	8
Max printing width	1800 mm			2200 mm			2600 mm		
Resolution	600~2400 dpi								
Drop size	5~16 pL								
Height of platform	950 mm								
Air	0.6 Mpa								
Power supply	Three phase 5 wires 380V								
Power	20 KW								
Dimension (L×W×H)	3600 × 4150 × 2100 mm			3600 × 4550 × 2100 mm			3600 × 4950 × 2100 mm		
Weight	5,500 kg			6,000 kg			6,500 kg		

Based on 1800 mm printing width

		NEO-16(2×8)	NEO-24(3×8)	NEO-24(4×6)	NEO-32(4×8)
Resolution (dpi)	No. of printing pass	Printing speed @m/h	Printing speed @m/h	Printing speed @m/h	Printing speed @m/h
400×600	1	397	491	646	600
400×1200	2	218	270	355	330
508×600	1	309	401	551	521
508×1200	2	165	214	323	278
600×600	1	266	345	485	448
600×1200	2	138	179	280	232

Based on 2200 mm printing width

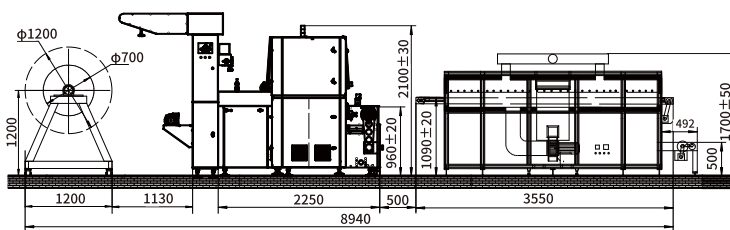
		NEO-16(2×8)	NEO-24(3×8)	NEO-24(4×6)	NEO-32(4×8)
Resolution (dpi)	No. of printing pass	Printing speed @m/h	Printing speed @m/h	Printing speed @m/h	Printing speed @m/h
400×600	1	365	441	580	540
400×1200	2	200	242	319	297
508×600	1	285	370	509	481
508×1200	2	152	197	298	257
600×600	1	246	319	448	414
600×1200	2	127	165	259	214

Based on 2600 mm printing width

		NEO-16(2×8)	NEO-24(3×8)	NEO-24(4×6)	NEO-32(4×8)
Resolution (dpi)	No. of printing pass	Printing speed @m/h	Printing speed @m/h	Printing speed @m/h	Printing speed @m/h
400×600	1	333	412	542	504
400×1200	2	183	226	298	277
508×600	1	260	344	470	448
508×1200	2	140	184	270	239
600×600	1	228	296	410	385
600×1200	2	114	153	235	199

*Bidirectional printing speed is for reference only; actual speed depends on on-site production performance. Specifications are subject to change due to upgrades, without prior notice.

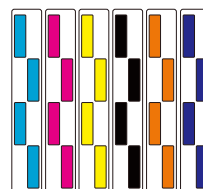
NEO-TEX Layout



*Dimensions are for reference only; actual size per product.



4 Rows / 6 Colors



6/8 Colors / 8 - 32 Print heads

*Additional colors available for customization

DPI is a global technology enterprise, specializes in the R&D, manufacturing, sales, and service of high-speed industrial digital inkjet printers. DPI delivers innovative digital printing solutions to diverse industries such as ceramics, building materials, textiles, and packaging. For more information, please visit www.dpi-t.com

