**Specifications**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Nassenger VII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Drop-on-demand Piezo inkjet technology</td>
</tr>
<tr>
<td>Printhead</td>
<td>512 Nozzle Water-Based Inkjet Printhead + 24pcs</td>
</tr>
<tr>
<td>Ink Types</td>
<td>Reactive Dye Ink, Yellow, Cyan, Black, Pink, Gray, Extra Magenta, Blue, Orange, Sky</td>
</tr>
<tr>
<td>Acid Dye Ink</td>
<td>Yellow, Magenta, Cyan, Black, Light Magenta, Light Cyan, Light Black, Blue, Red</td>
</tr>
<tr>
<td>Max. Printing Width</td>
<td>1,850mm</td>
</tr>
<tr>
<td>Min. Printing Width</td>
<td>100mm</td>
</tr>
</tbody>
</table>

**Print Modes**

- **Main Scanning**
  - Resolution (dpi): 540, 720, 900
  - DPI: Single Drop, Multi-Drop, 2-Drop
  - Direction: Unidirectional printing, Bidirectional printing
  - VL: User-selectable
- **Sub-Scanning**
  - Resolution (dpi): 240, 540, 720, 900, 1,440

**Operating Environment**

- Mechanical Operation: 15~30°C, 40~70%RH
- Inkjet Correction Control: 20~28°C, 40~70%RH

**Ink Supply System**

- Mechanism: Supplied by Motor-Driven Pump
- Ink Bottle: Dedicated Bottle (5L each color)

**Maintenance of Printhead**

- Printhead Cleaning: Wet Cleaning
- Nozzle Detection: Faulty nozzle detected by laser beam
- Capping: Wet Capping
- Maintenance: Auto/Manual Maintenance

**Dimensions**

- Scanning Unit: W 4,440 x D 815 x H 1,450 (mm)
- Fabric Transport Unit: W 2,419 x D 1,411 x H 917 (mm)
- Ink Supply Unit: W 1,230 x D 880 x H 1,250 (mm)

**Weight**

- Scanning Unit: approx. 240 kg
- Fabric Transport Unit: approx. 300 kg
- Ink Supply Unit: approx. 146 kg (without ink)

**RIP Supported**

- RIP software of Wasatch Computer Technology recommended

**Power Supply**

- AC200 V Single Phase 50/60Hz Common (Japan)
- AC230 V Single Phase 50Hz Common (EU)

**Transport Method**

- Endless Belt

**Ink Supply System**

- MECHANICAL OPERATIONAL MANUFACTURING SYSTEM
- MECHANICAL OPERATIONAL MANUFACTURING SYSTEM

**Set up ground plan**

**KONICA MINOLTA, INC.**

**Inkjet Business Unit**

No.1 Sakuradai-machi, Hino-shi, Tokyo 191-8511, Japan

Tel: +81-42-589-3702 Fax: +81-42-589-2865

URL: [http://konaminolta.com](http://konaminolta.com)

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**New Textile Printing System**

**Nassenger VII**

High-speed printing performance of 210m²/hour!

- Equipped with new high speed multi-nozzle inkjet printheads
- High printing speed; maximum 210m² per hour with a maximum fabric width of 1,850mm
- Integral nozzle check function
- Accurate production of subtle tints, tones and colour gradients
- High capacity 10L ink tanks

The Nassenger VII includes a scanning print unit and a precision fabric transport unit. A separate un-winder and dryer etc. will be needed to complete the print system.
Environmentally Friendly Inkjet printing

The digital plateless system of the Nassenger VII greatly reduces the process from planning and design to sample creation, and further delivers high productivity through mass-production.

Comparison of print process

Design
Post processing
To sewing processing
1-14 days

Digital inkjet printing

Inkjet textile printing

Screen textile printing

Image arrangement
Plate design
Colour tracing
Plate making
Ink mixing for sample
Production hardware maintenance / check
Sample printing
Plate washing / storage
Treatment of waste ink

Productivity

High printing speed: maximum 210m² per hour

The new Nassenger VII uses 24 inkjet printheads and provides significantly increased production rates – up to 3.6 times more than the Nassenger V. The Nassenger VII is ideal for low volume production with very fast delivery times.

Capacity

High capacity 10L ink tanks

The 10L ink tanks built into Nassenger VII make long print runs possible and improve productivity. Inks are supplied in 5L bottles and in-line degassing units ensure that print quality remains constant and printhead reliability is optimised.

Quality

Accurate production of subtle tints, tones and colour gradients

The new high-speed printhead has multi-drop print functionality that produces richer colours and smoother transitions from light to dark tones. Effects that can only be printed using inkjet are enhanced by the use of multi-drop technology.

Fabric Variety

Maximum fabric width of 1,850mm

The unit is ideal for interior fabric applications including curtains and bedding. Nassenger VII makes a diverse range of fabric printing applications possible.

Reliability

Equipped with a nozzle check function

A nozzle-check function is equipped to ensure stable jets from all nozzles. A new head nozzle-check function has been adopted to achieve major improvement in printing reliability.

Dye-Affinity Chart

<table>
<thead>
<tr>
<th>Ink type</th>
<th>Best</th>
<th>Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactive dye</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Acid dye</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

The 512 nozzle high-speed printhead has been developed specifically for use in Nassenger VII. Printing only when required, the piezo printheads use ink extremely efficiently. This makes the Nassenger VII very economic to use. The shared mode design of the printhead requires only low drive voltages, and has a long service life, making the heads environmentally friendly when compared to other piezo systems.

Print Speed

<table>
<thead>
<tr>
<th>Print Speed</th>
<th>210 m²/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>540 x 360 dpi</td>
<td></td>
</tr>
<tr>
<td>540 x 540 dpi</td>
<td>145 m²/h</td>
</tr>
<tr>
<td>540 x 720 dpi</td>
<td>115 m²/h</td>
</tr>
<tr>
<td>720 x 720 dpi</td>
<td>85 m²/h</td>
</tr>
<tr>
<td>720 x 900 dpi</td>
<td>70 m²/h</td>
</tr>
<tr>
<td>900 x 900 dpi</td>
<td>55 m²/h</td>
</tr>
</tbody>
</table>

*single drop / ink leave off

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Environmentally Friendly Inkjet printing

Greatly reduces environmental load over conventional processes.

Inkjet dyes are plateless on-demand inks. They contribute greatly to energy reduction efforts in manufacturing processes.

Comparison of enviroment load “Screen printing vs Inkjet printing”

Reduce power consumption

Screen printing: 97% Inkjet printing: 57%

Reduce adhesive paste consumption

Screen printing: 85% Inkjet printing: 62%

Reduce water consumption

Screen printing: 85% Inkjet printing: 62%

Reduce waste materials

Screen printing: 85% Inkjet printing: 62%

Reduce elimination of carbon dioxide

Screen printing: 62% Inkjet printing: 95%

*Results taken from in-house comparison