Konica Minolta IJ Head for Industrial Applications

Konica Minolta Technology Center Inc.,
IJT R&D Center
Katsuaki KOMATSU
Business Development Center
Akiyoshi OHNO
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  • Large Drop : Single-pass capable
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• Gray Scale Technology
• Assisting Tool **New!**
1. Konica + Minolta ... Who?

(Unit: billions of yen)

FY2005 Target 1.3 trillion yen = $12 billion

FY2002 Forecast

Minolta

Konica

M + K

FY2005 Target
# 2. Head Family

## Non-Aqueous Model

<table>
<thead>
<tr>
<th>Type</th>
<th>nozzle</th>
<th>dpi</th>
<th>ink</th>
<th>pl</th>
<th>KHz</th>
<th>with</th>
<th>without</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>512</td>
<td>360</td>
<td>Oil Solvent UV Special</td>
<td>42</td>
<td>7.6</td>
<td>X</td>
<td>X</td>
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<tr>
<td>S</td>
<td>14</td>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td>(X)</td>
<td>X</td>
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X available (X) coming soon

## Aqueous Model

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<td></td>
<td>Textile</td>
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<td>128</td>
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<td>512</td>
<td>4</td>
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<td>Photo</td>
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3. Non AQ : Common Feature

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- Shear mode / 3 Cycle Operation
- 256 x 2 rows = 512 nozzle
- 180 x 2 rows = 360 native dpi
- Native 360 dpi (npi)
- Compact (85x67x20 mm)
- Light (ca.85 g)
- Same Design
- Easy to stitch
- Universal to ink type

X available (X) coming soon
3.1 Easy to Stitch
4.1 Type 512L_/LH

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- Ideal for **Single-pass** print
  - Coding/Marking
  - Industrial
- (Outdoor) Signage
Single Pass
Multi Color
4.2 Type 512S_/SH

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- Fine Image Quality (Smaller Drop Size)
- Higher Driving Frequency

- **3 Step Gray Scale (New!)**
  - Good enough? Yes!
  - Simple / Realistic
  - Still Single-pass possible

- (Indoor) Signage
- Industrial - where small drop size required
5. Gray Scale Technology

C-cycle
B-cycle
A-cycle
6. Assisting Tools

Family of Supporting Tools

- Board for Simple Test: for Drop Observation
- Head Evaluation Kit: for print test or system development
- Parts of Real Printer with Consultancy (New!)
6.1 Block Diagram

Circuit diagram in our Textile printer

Suitable for all application, all types of head
6.2 Parts of Real Printer

A : Head Driving Board
   - 3 cycle/1 cycle operation
   - 8 heads connectible

B : Image Processing Board
   - 2 kind of interface (USB/other)

C : Mechanical Control Board
   - To be designed by Printer Integrator
Summary

- Simple Concept

**Non-Aqueous Model**

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- Gray Scale Available
- Assisting Tools

KonicaMinolta 512 nozzle Head
New Standard of Industrial Inkjet