

SPECIFICATIONS

| Model | HT2512UV | HT3020UV | HT3116UV | HT3200UV |
|----------------------|--|--------------------------|--------------------------|--------------------------|
| Print head | Kyocera | Kyocera | Kyocera | Kyocera |
| Print head quantity | 10 pcs (Max quantity) | 10 pcs (Max quantity) | 10 pcs (Max quantity) | 10 pcs (Max quantity) |
| Resolution | 363 * 3600 dpi | | | |
| Print speed | Draft | 101m ² /h | 125m ² /h | 120m ² /h |
| | Production | 78m ² /h | 95m ² /h | 90m ² /h |
| | Quality | 55m ² /h | 70m ² /h | 66m ² /h |
| Printing mode | Uni-direction & Bi-direction | | | |
| Max dimension | 2.5 m * 1.2 m | 3.05 m * 2.0 m | 3.05 m * 1.47 m | 3.2 m |
| Max thickness | 100 mm | | | 50 mm |
| Media | Various types of sheets and roll materials | | | |
| Ink type | Eco-friendly UV curing ink (voc free) | | | |
| Color configuration | C、 M、 Y、 K、 W | | | |
| Input format | Adobe Postscript Level3、 PDF、 JPEG、 TIFF、 EPS、 AI | | | |
| Machine size (L*W*H) | 4.95 m* 2.51 m* 1.44 m | 5.51 m* 3.24 m* 1.44 m | 5.51 m* 2.71 m* 1.44 m | 6.19 m * 1.59 m * 1.62 m |
| Net weight | 1150 KG | 1520 KG | 1450 KG | 2260 KG |
| Gross weight | 1745 KG | 2330 KG | 2160 KG | 3130 KG |
| Power | 8.3 KW (20A) | | | 9.0 KW (20A) |
| Power supply | 400VAC.50Hz 3P/N/PE | | | |
| Certificate | CE, FCC | | | |
| RIP software | Caldera | | | |
| Curing | LED lamp | | | |
| Data transmit | High-speed PCIE | | | |
| Environment | Seperated workroom in good cleaning and ventilated condition, avoid direct sunlight Temperature: 18° C – 30° C(64°F-86°F) Constant Humidity: 30%-70% | | | |

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Double Row Kyocera Linear Motor Solution

Available flatbed models

- HT2512UV
- HT3116UV
- HT3020UV

Available hybrid and roll to roll models

- HT3200UV (Hybrid)
- HT5000UV RTR (Roll To Roll)

Top level UV printing quality and productivity from Handtop

Kyocera print head is known as a type of print head with high precision, fast speed and strong stability all across the print head industry. The perfect combination with Handtop printers as well as a second upgrade of double row linear motor application, once again elevates the performance of Kyocera print head to a new era, bringing the miracle of high precision super fast printing to advertising industry.

- Fine-art printing quality under 6 pass enable a productivity of 90 m²/hr on flatbed printer HT3116 and 105 m²/hr on hybrid printer HT3200. This is belong to the top level speed within the industry.
- Unique array of the print heads guaranteed the output color as well as fine-art quality by eliminating the bending.
- Fine-art printing quality, carriage speed up to 1.5m/s.



Shenzhen HANDTOP Tech Co.,Ltd

Add:The Third Factory, NO.322 Yuanhu Road, Longgang District Shenzhen China.
Tel: +86 0755-2796 0460 E-mail: info-handtop@hanglorygroup.com
Fax: +86 0755-2321 7841 http://www.handtopuv.com

High-Speed Double Row Linear Motor Application



Linear motor superiorities

- No mechanical contact, longer lifetime.
- High precision, max accuracy reaches to sub-micro level.
- Silent movement, more stable, guaranteed fine-art printing.
- Premium running speed, high carriage speed up to 1.5m/s.
- Simple structure, easy maintenance.

Breakthrough against advertising printing productivity limits

Speed and precision are the eternal pursuit in advertising printing industry, more importantly, productivity is the ultimate weapon to win the game in competition. Unique Handtop linear motor application, with carriage speed up to 1.5m/s and bi-directional printing, giving premium productivity under same print head quantity.

Superiority for the special print head array

In digital printing, the matching of print head design and the inkjet software control technology is causing a lot of headaches for those advertising printing service providers who pursuit extreme quality. But these problems were well resolved by Handtop double row linear motor application.

Through the special print head array and application of the linear motor, this solution successfully achieved brighter and richer color performance, restore the attraction of high fidelity advertising images.

Handtop uses self-developed high energy LED lamp in this application. The energy density is around 2-3 times against normal LED curing. Featured as low heat, fast cooling, long life and good focus, ensured the curing efficiency during high speed inkjet output.

Hardware technology upgrade

To match with the upgrade of the new application, and pursuit higher productivity and printing quality, all related hardware also adapted on the design to ensure the overall improvement of the machine performance.

We upgraded the Kyocera print head control board to improve the data processing capability. Even in high speed bi-directional printing, the printer is capable enough to handle with continuous image data. We also upgraded the PCIe transmit ability in image data communication control module, improve the stability of data transmitting to a new level, highlighting the upgradability and fluency of the hardware control.

Besides, Handtop improved a lot for important components such as carriage, guiding beam component, equip with linear motor, guarantee a stable printing in high speed and high precision status.

Major functional upgrades on hybrid models

- New leading roller component, smoother and more stable media transportation.
- Media registration with higher precision.
- More accurate stepping.
- More secure.

Handtop UV ink is VOC free and been certified by SGS heavy metal standards subjected to EN71 regulations. Can be applied to toys level safety applications.



Reliable linear motor

First to use high quality linear motor and silent guide rails, contributes a quiet operation of digital printing. High precision magnetic raster ensure precise printing.

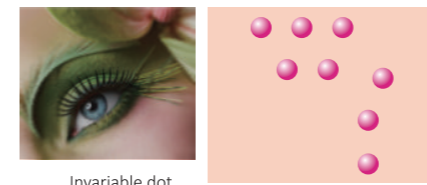
High speed bi-directional printing

Bi-directional printing tech elevates the productivity in great scale, saving time cost for customers. Handtop self-developed software calculation, enables high precision control of the jetting route, strength and frequency, as well as the improvement of device anti-interference ability, ensuring the accurate location of every ink drop.

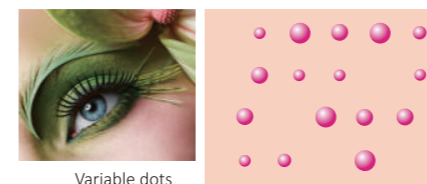
High efficiency LED curing lamp

Massive ink density in the double row application needs high efficiency LED curing lamp to better avoid the curing insufficiency. The curing power of Handtop self-developed LED lamp is 2-3 times of normal LED lamps. Through software control, users are able to adjust the power from 0-100% and thus to ensure good printing performance.

Grey-scale printing can save ink as well as more exquisite output contributes to fine-art printing. Handtop developed multi-level grey-scale inkjet printing technology with Kyocera heads and applied this technology to all kinds of applications, including double row symmetrical array.



Invariable dot



Variable dots