The new way of decoration

//Efficiency
- Changeover times reduced to near zero
- Printing of simple one-color production and long production runs on same machine
- Cost-effective for small batches
- Significant reduction of stock and running waste

//New workflow
- No printing plates
- No back input for corrections
- A fast and efficient way for decoration

//Print Quality
- Extremely high print quality comparable to IML / Sleeve / Label decorating
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//Easy to use
- Reduction of wrong steps
- Change to any color (CMYK) and select individual colors
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//Variable data
- Printing possible: data transfer is possible from database
- Variable data can be differentiated
- Individualization and personalization for marketing opportunities

//Time to market
- No printing plates
- No back input for corrections
- No printing plates
- No back input for corrections
- No printing plates

For further information visit: www.polytype.com
or e-mail: info@polytype.com

DigiTube
Design realised with Ink-Jet printing
The new way of decoration
- Cost-effective for small batches
- The easy way for photorealistic graphics
- Pre-press: Computer to product
- One to one marketing
- A fantastic time to market

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facial cleanser
DigiTube from Design realised with Ink-Jet printing
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Always well-rounded
DigiTube
The digital printing machine for tubes, sleeves and cartridges
//polytype is the world leader in the manufacture of systems for direct printing of plastic tubes.
//polytype machines combine innovative technology with the highest levels of reliability complemented by the most user-friendly operation. Its international customers appreciate the modularity of the design and the expansion opportunities provided.
//polytype is part of the Swiss wifag/polytype Group, which operates globally and has branches in Switzerland, Germany, Italy, the USA and Thailand. This alliance gives //polytype access to a broad technology base and guarantees a global and professional partnership for your success.
Technical data  DigiTube

Min./max. tube diameter: 19-50 mm
Min./max. tube length: 50-215 mm
Tube head incl. cap height max.: 50 mm
Print height, up to: 210 mm
Resolution, up to: 1200 dpi
Mandrels: 24
Max. printing speed: 120 tubes/min
Weight of main machine: ~ 13000 kg

Highly reliable Ink-jet printing machine
High level of productivity
Live time extension with up-dates
Highly market acceptance based on a stable and repeatable production

Station set up for the DigiTube

1. Tube loading / Tube presents control
2. Pre-treatment by corona or gas
3. Dust removal
4. Positioning to previous design
5-8. White
9-16. Cyan, Magenta, Yellow, Black
17-19. UV Curing
20. Image quality control
21. Lacquering
22, 23. Unloading
24. Unloading control

//polytype Calmar System

To convert input data like PDF files to a printed image on the substrate //polytype developed its own ink-jet system and called it Calmar. Calmar comprises the following elements:

- Intuitive graphical user interface
- Data processing software
- Network technology
- Printhead driving electronics
- Ink supply

Calmar is a complete ink-jet printing technology platform. Thanks to the //polytype control, every aspect in the lifecycle of the system – from developing new features tailored to the cap industry over producing industrial grade electronics and software to a professional after-sales service.

Lacquer curing
A separate //polytype UV oven is used for lacquer and varnish curing. Its progressive power control provides stability for premium lacquer quality.

Final ink curing
The UV ink curing process is equipped with progressive power control. It was developed for quick lamp changes and ease of maintenance.

White pre-print and a colour process printing
For transparent or coloured tubes, a white base coat is indispensable. The pre-print can be all over the tube or only there where it is needed to highlight the process colours. To make it fast, each of the CYMK colour will be printed separately. The high precise positioning system ensures the perfect match for fantastic imaging of the tube and/or on the cap.

Positioning to a previous design with camera
With the combination with a former design, it is possible to print a previous design or more decoration tools. For example, fake intaglio and pantone colours with a previous decoration and imaging with the DigiTube.

White ink-curing
The white ink curing process is equipped with progressive power control. It was developed for quick lamp changes and ease of maintenance.

Lacquer curing
A separate //polytype UV oven is used for lacquer and varnish curing. Its progressive power control provides stability for premium lacquer quality.

Varnishing
The anilox lacquering unit ensures a highly reliable application of every glossy or matt varnish. The unit can be pulled out, which ensures excellent accessibility. A temperature control system is also integrated.

Surface pre-treatment
To ensure reliable ink adhesion, this station is used to pre-treat the surface of the tubes with gas or a corona.

Control panels
With the two control panels, the line is easy to operate and view at a glance. The first panel is for the navigation of the printing machine and the second for the preparation of the printing jobs.

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14. Unloading control

//polytype the expert for digital printing machines for tubes

Over a decade of experience in digital printing
At service around from one hand