



//polytype
for every demand a perfect solution



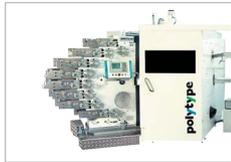
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on the BDM and DDM from //polytype

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//polytype Takes Center Stage in Digital Printing Machine Developments

//polytype, a pioneering name in printing machines for plastic cups and extruded tubes, is making waves once again with its cutting-edge digital developments and strategic expansion. Since the inception of their digital printing machine venture in 2010, Polytype has continuously innovated to provide unparalleled solutions for various applications in the plastic packaging sector.

The journey began with the development of digital printing on flat substrates, which quickly paved the way for groundbreaking advancements. //polytype's commitment to excellence saw the creation of digital printing machines specifically tailored for round cups. Building on these successes, //polytype announces the highly anticipated launch of its enhanced digital printing machine for tubes, cans and cartridges, the DigiTube G3.

Today, //polytype boasts a comprehensive portfolio of digital inkjet printing machines catering to an array of packaging types. From cups (DigiCup) and lids (DigiLid) to bottles (DigiBottle), tubes and cartridges, the company's products have become synonymous with unparalleled quality and productivity. Emphasizing their dedication to continuous innovation, //polytype remains steadfast in its commitment to advancing digital printing technology further.

"We take immense pride in our digital printing machines and their impact on the plastic packaging industry," said Mr. Cotting, Printing Process Manager for digital printing machine from //polytype. "Our ongoing focus lies in enhancing productivity and printing quality, ensuring our customers stay ahead of the competition in a rapidly evolving market."

Exciting developments are already underway, with the latest digital printing machine for tubes poised to be a game-changer. Offering up to 8-color printing capability (White + Cyan, Magenta, Yellow and Black + 3 colors) and a remarkable speed of up to 150 prints per minute, the new DigiTube G3 boasts unprecedented height resolution. Moreover, it will incorporate groundbreaking features to enhance productivity, giving businesses an edge in meeting increasing market demands. The company plans to unveil this revolutionary machine in the coming months, setting new industry benchmarks.

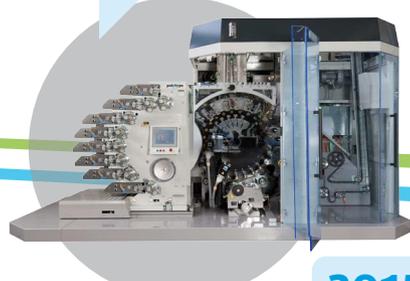
Notably, the advancements made in the tube printing machine will also positively influence //polytype's existing digital printing machines for cups and bottles. Customers can expect to benefit from enhanced capabilities and even higher printing quality as the technology continues to evolve.

With a reputation for innovation and customer-centric solutions, //polytype remains at the forefront of digital printing machine developments. Their dedication to pushing the boundaries of printing technology has earned them the trust of global clients seeking cutting-edge solutions for their packaging needs.

2012
DigiCup



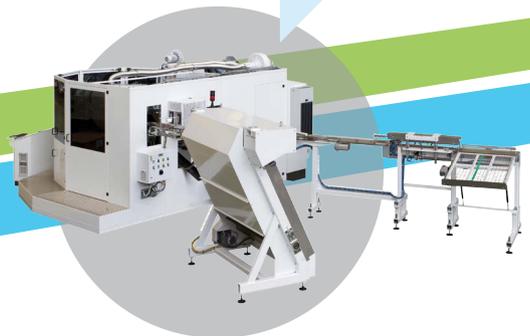
2013
RDA Hybrid



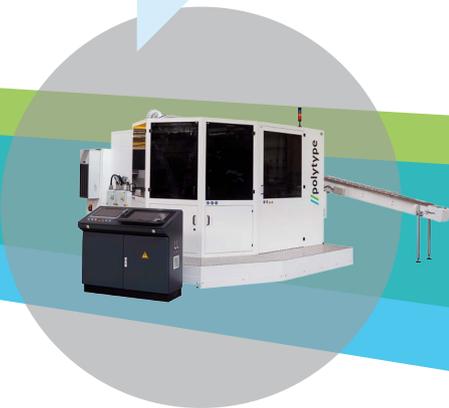
2016
DigiLid



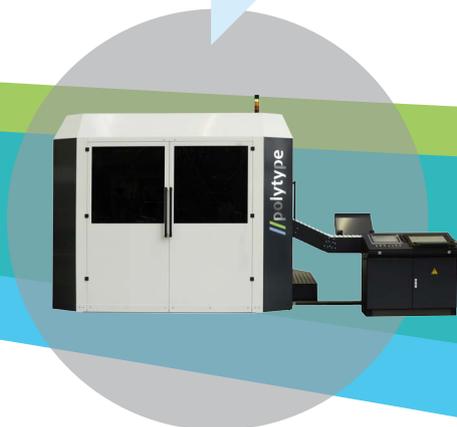
2015
DigiCup



2018
DigiBottle



2019
DigiTube/Can



2024
DigiTube G3



The new Mirror cup printer BDM682-M from //polytype

The optimisation of internal logistics in the decoration of cups is an important lever to exploit cost saving potentials. This is particularly important when several cup-printing machines are used in production in shifts.



Cost optimisation can be achieved on the organisational side by ensuring that the press set-up for a new design runs smoothly, since the necessary format parts, printing plates, inks and so on are provided at the scheduled change-over time.

A further optimisation of production can also lie in the arrangement of the printing machines. By placing a second BDM 682 opposite the first, one operator can keep an eye on two BDM's without having to walk long distances. This arrangement also allows synergies to be exploited in loading and unloading the cups.

//polytype has now included the mirror machine BDM682 in its machine programme. This machine is an exact mirror of the standard BDM682 machine, which means that not only is the press mirrored, but the cup infeed and out-feed is also arranged the other way round.

It could well be worth taking a closer look at this new variant if you are planning to optimise your cup decoration with several printing machines.

A success story that began twelve years ago, the Torque Motor on //polytype's BDM 681/682



Twelve years ago it was a world premiere in cup printing, today the Torque Motor is the standard on the //polytype BDM 681/682. Most important thing is, this technology has proven itself.

//polytype's first BDM with a torque motor, which replaced an AC motor with an indexer & reducer gear, is still doing its job perfectly today. In other words, this machine has been in shift operation for 12 years and still runs smoothly today.

This new technology has created a big benefit which contributed to a drastic reduction in maintenance costs. No investment in new indexers, including a production stop, and no costs for the installation and removal of the indexer have been incurred so far. A further cost advantage is achieved by the lower energy consumption. Compared to the old BDM-692 with indexer gear and the old UV (ballast), a reduction in power consumption of about 3.6 kW (at 600/Min) per hour was measured. If you multiply this saving by the effective production time per year, you get a considerable amount saved year after year.

In addition to these clear advantages of a torque motor, there are other advantages that this drive technology has for the //polytype BDM681/682 cup printing machines:

- Flexibility in operation is increased as it is possible to optimize the "indexing angle" to increase the time of standstill, giving enough time to accurately align the cup (means higher performance)
- Much higher output with a max. speed of up to 650/min without the onset of increased wear (means higher performance)
- High accuracy of the dead point even after years of operation. This drastically reduces residual vibrations when stopping at the print position
- Much less maintenance than a conventional drive

Taking all this into account incl. the new possibilities for fast change over, there are enough reasons to consider whether it makes sense to replace the old cup printer with a new BDM 681/682 after all.



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Now available: Up-Grade of the old Op's OP270 and OP277 on the BDM and DDM from //polytype

In recent times, it has become apparent that the availability at Siemens of the old OP270 and OP277 is difficult to guarantee, which also has a great influence on the price of these electronics. As these OP's are now a special production, the prices for these parts have also risen sharply.

Based on this unsatisfactory situation //polytype has created an Up-Grade-Kit to replace these old OP's with the current Operator Panel KP700. It has the same size as the old one and can be mounted in the existing op frame.

The effort is within a manageable range: After ordering, the current program of the customer is loaded onto the new panel and is sent to the customer ready for operation. Qualified personnel on site can carry out the replacement.

This tested solution is available for all BDM and DDM machines that have a Siemens S7 control.

With this upgrade, //polytype offers a solution that extends the service life of the old BDM and DDM machines at a manageable cost.

If you are interested in a change, please contact service.eu@polytype.com with the machine number.





DigiTube / DigiCan



DigiCup / DigiBottle



DigiLid



Cans



Closures



Tubes



Bottles and Jars



Cups

Lids and Boxes

//polytype, the Swiss expert for digital printing, is a decoration machine provider for different packaging solutions such as cosmetic tubes, jars, cups, lids, bottles and closures.

The key to your success

- // 360° service from a single supplier
- // Highly reliable printing machines with high level productivity
- // Solution for fast design changes and photorealistic decoration

//polytype – your partner for digital decoration
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