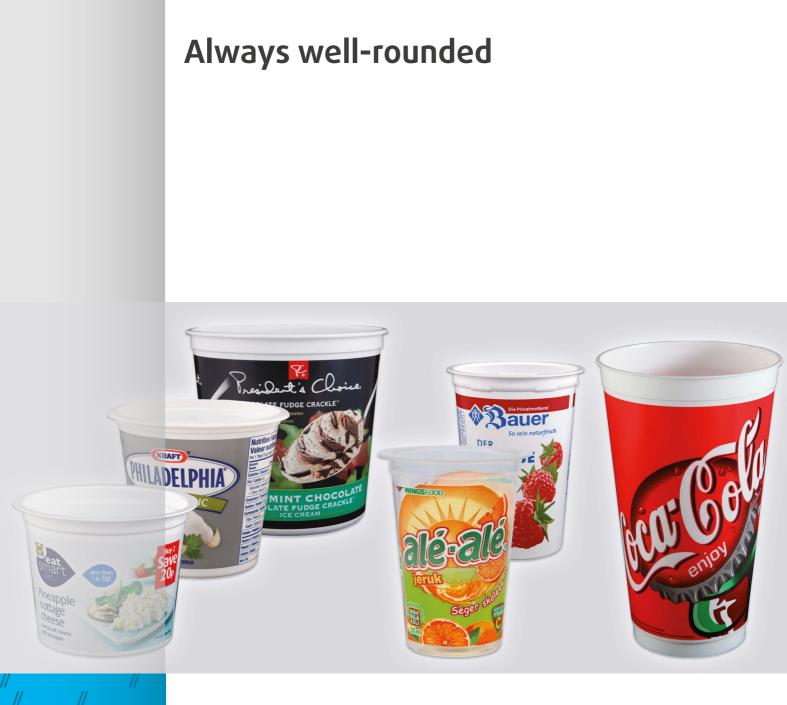
BDM 681/682 – perfect timing



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The high-performance dry offset printing machine for round cups

//polytype



//polytype is the world leader in the manufacture of systems for direct printing of plastic cups and lids. //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 of the machines.

//polytype is part of the Swiss wifag//polytype Group, which operates globally and has branches in Switzerland, Germany, Bulgaria, USA and Thailand. This alliance gives //polytype access to a broad technology base and guarantees a global and professional partnership for your success.

- // High productivity// Fast changeover// Perfect cost/benefit ratio
- // Very user-friendly
- // Wide variety of products

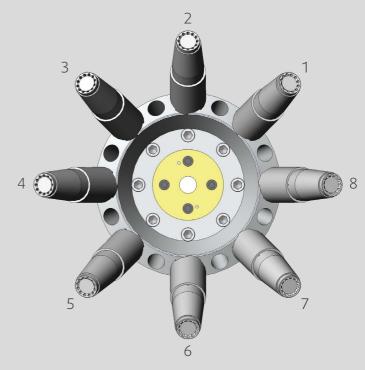


Fast changeover

The //polytype BDM 681/682 enables a fast changeover of cup shapes and printing images. A few user-friendly adjustments is all it takes to ready the machine for the next production series. It is based on the easy part changeover, the automatic roller washing and pre-inking.

Positioning – optional

//polytype has developed a positioning system for technically demanding products such as two-compartment containers. In this case, the container is pre-positioned, pre-printed and printed in the printing station in a single pass. The combination of torque drive, pre-printing and positioning system ensures maximum flexibility for cup printing.



Station set-up for the BDM 681/682

- 1 Cup loading / Cup & double cup presence control
- 2 Pre-treatment by corona or gas
- 3 Not occupied / Option bottom labelling
- 4 Printing / Option pre-print / Option - positioning for 2k or 3k cups
- 5 Not occupied / Option vision control
- 6 UV-curing
- 7 Ejection
- 8 Cup take-off / Option positioning for 2k or 3k cups

Please note: certain option combinations are not possible

Perfect timing – fast, reliable and accurate





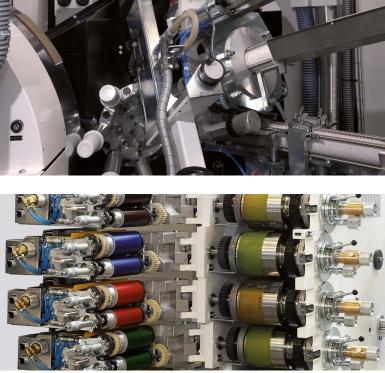
The //polytype BDM 681/682 is very user-friendly and designed for one-man operation. All main components are easily accessible and every inking unit can be swung out individually. Functions such as automatic washing and pre-inking of inking units are available to cut changeover times. All register settings can be made on the fly.

A large multifunctional touchscreen operator panel makes for simple machine control. It can be used to save process data and visualize production data and maintenance work. Includes state-of-the-art technology, prepared for industry 4.0. // Cleverly designed one-man concept

- // Automatic maintenance display
- H Easy access to all components
- // High reliability



The wide in-feed elevator (2.1 m) with high storage capacity and electronic pusher ensures controlled pressure of cups to feed scrolls. A protective enclosure enables excellent access to the print and transfer areas. The process ends with a discharge table with a precise laser counting device.



Loading / unloading

Cup feeding station with servo-driven screws. The station can be opened easily for simple access and a fast changeover. Cup belt take-off system (standard) or system with screws with mechanical read-outs for easy adjustment.

High-precision printing unit

The printing unit can reproduce print images comprising up to 8 colors in consistently high quality even over longer periods. Thanks to the ergonomic design and quick-change options, a print image can be changed within a very short space of time.

// Optimizing your machine for higher productivity

- // Additional service options
- // Preventive measures to extend the service life of your equipment



Standard or LED-UV lnk curing

UV ink curing system for safe drying of the ink. Optionally also available with LED lamp with an energy reduction of up to 80% and a much longer lifetime.

Pre-printing (//polytype patented) – optional

Pre-printing on the //polytype cup printing machine is one of our innovations. The base color is pre-printed and dried immediately in an intermediate stage. This means that print images can be printed on the cup within the same cycle. Pre-printing achieves very high image contrasts and corresponding ink saturation on transparent cups (PP/PS/PET).



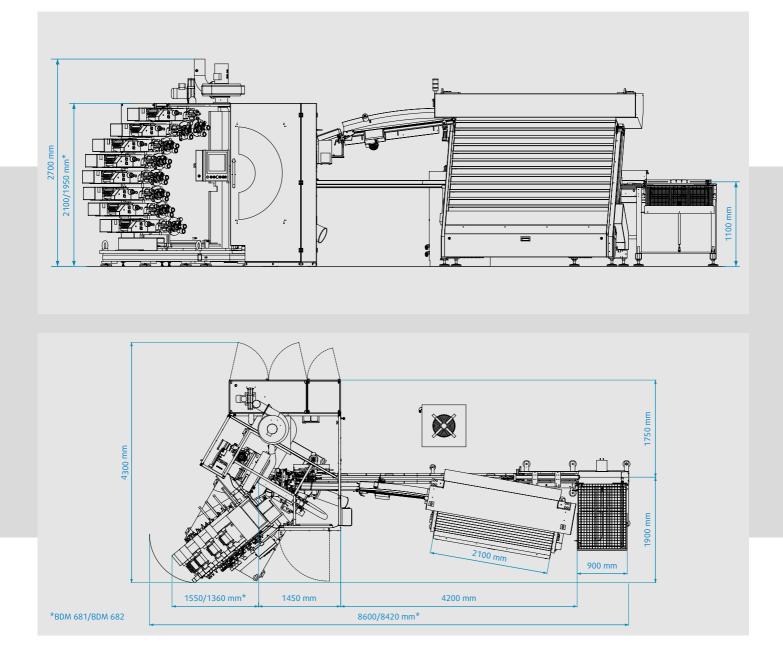
Torque motor

As a better alternative to traditional indexers, screw gears and motors comprising of mechanical drives, the //polytype BDM 681/682 is outfitted with an electric torque drive to increase the maschine's efficiency and flexibility. This solution offers maximum productivity by optimally adjusting the switching angle. It also reduces and optimizes the maintenance requirements.

Excellent service

Productivity is improved thanks to our outstanding service. Our own well-stocked spare parts store ensures quick part replacement if anything should go wrong at any time. Our comprehensive service portfolio ensures you get the best out of your machine at all times. By offering regular maintenance, a hotline service, remote maintenance, and operator and process optimization training, we help you cut costs and improve productivity.

Specification of the BDM 681/682



| Technical data | BDM 681 | BDM 682 | | | |
|-------------------------|--------------|--------------|--|--|--|
| Min./max. cup height: | 35-200 mm | 35-200 mm | | | |
| Min./max. cup diameter: | 60-185 mm | 60-185 mm | | | |
| Min./max. taper: | 2-15° | 2-15° | | | |
| Max. print height: | 145 mm | 145 mm | | | |
| Max. print length: | 418 mm | 502 mm | | | |
| Max. printing speed: | 650 cups/min | 650 cups/min | | | |
| Weight of main machine: | ~ 6000 kg | ~ 6500 kg | | | |

Polytype AG 26, route de la Glâne

SWITZERLAND

WIFAG-Polytype Holding AG Fribourg/Switzerland

Polytype AG Fribourg/Switzerland

BULGARIA

Mechatronica S.C. Gabrovo/Bulgaria

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Wifag-Polytype India Marketing Private Ltd. New Delhi/India

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