

BDM 500/600s – Outstanding offset



The standard and high-performance dry
offset printing machine for round cups

 **polytype**

Passion · Innovation · Decoration

Always well-rounded



//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.

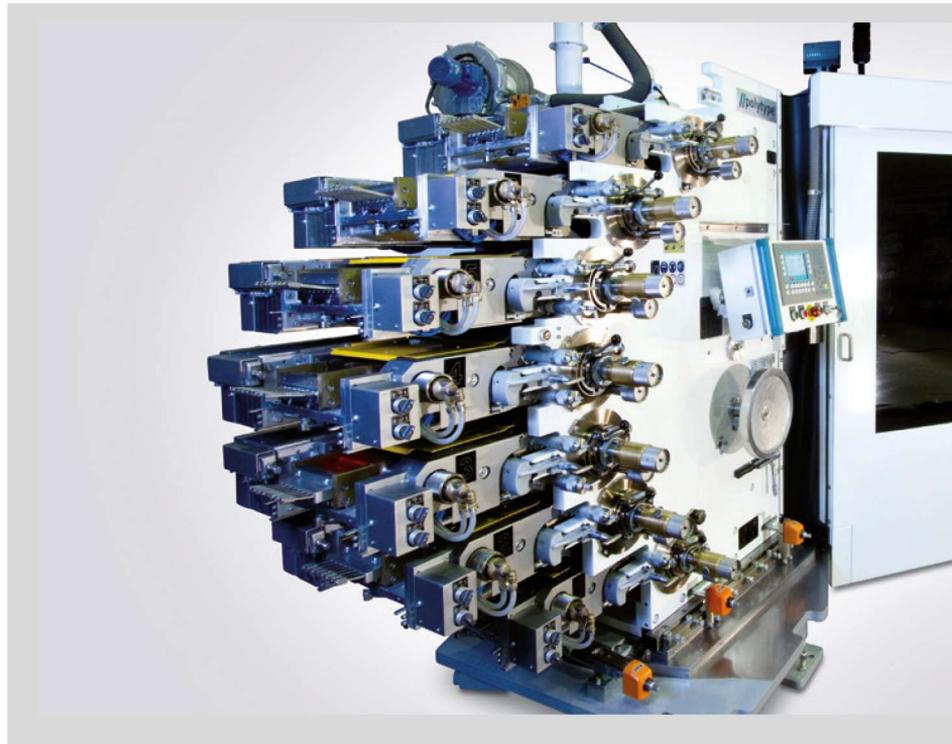
//polytype is part of the Swiss wifag//polytype Group, which operates globally and has branches in Switzerland, Germany, USA and Thailand. This alliance gives //polytype access to a broad technology base and guarantees a global and professional partnership for your success.

The cup printing machine BDM 500/600 of champions

Highly Productive with a Long Service Life

Reliability and durability are hallmarks of Polytype—and these qualities are fully reflected in the BDM 500/600.

Even at maximum speed, the machine runs with impressive smoothness and stability.



Special features that extend the functionality of the BDM 500/600s:

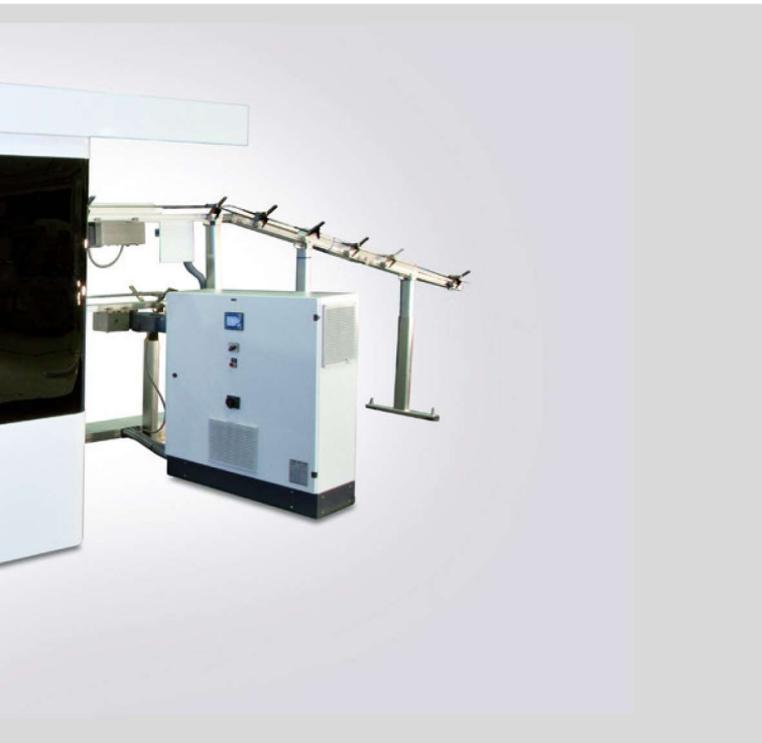
- PU-X, Y & angle adjustments with dial indicator
- Cup Hold-on device
- Vision control system to meet your quality standards (600)
- Ethernet connection
- Metal detector before packaging

- // Standard or high-performance machine – tailored to your needs
- // Swissness inside: Engineering and key components
- // Rigid printing unit with up to 8 colors for powerful decoration

The BDM 500/600 is engineered for optimal performance. Operators can monitor all key components simultaneously, from the printing unit and individual inking systems to the cup transfer process. This intuitive design allows a fast and efficient operation.

User friendly operator panel

The user-friendly control panel enables quick and - intuitive operation of the machine. Settings can be retrieved from a recipe list, which reduces changeover time when changing designs or formats. All process functions can be made while the machine is running.



Quick Format Changes Guaranteed

Format changes are fast and straightforward thanks to easy access to format-related components. Size part change can be made in just a few simple steps, minimizing downtime and maximizing efficiency

Loading / unloading

The large infeed conveyor with 1.5 m cradles allows cups to be loaded efficiently.

The cup feeding station is equipped with servo-driven screws for fast loading.

Cup belt take-off system (standard) or system with screws with mechanical read-outs for easy adjustment.

// The solution with the best price-performance ratio

// Service from the world's leading cup printing machine manufacturer

High quality printing unit up to 8 colors

Highly productive printing unit with built-in Swiss quality guarantees high print quality over the long term. The printing unit is designed to enable quick design changes, which in turn leads to high productivity.

Easily accessible inking units that can be swung out horizontally can be quickly cleaned with the semi-automatic washing system, with the rollers remaining in the inking unit, of course.

Long-life torque motor - unique

As a better alternative to traditional indexers, screw gears and motors comprising of mechanical drives, the //polytype BDM 500/600s is outfit - ted with an electric torque drive to increase the machine's efficiency and flexibility. This solution offers maximum productivity by optimally adjusting the switching angle. It also reduces and optimizes the maintenance requirements.



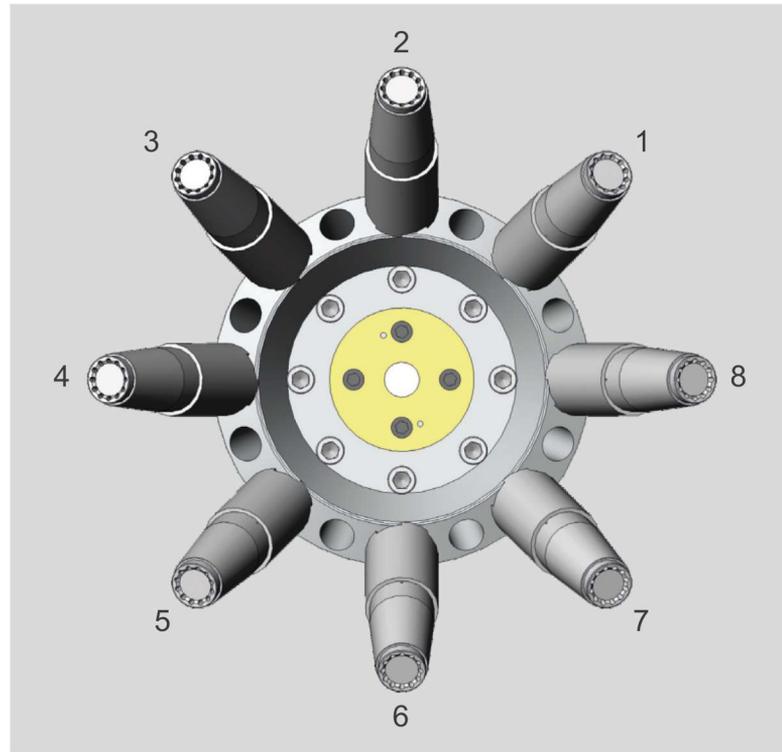
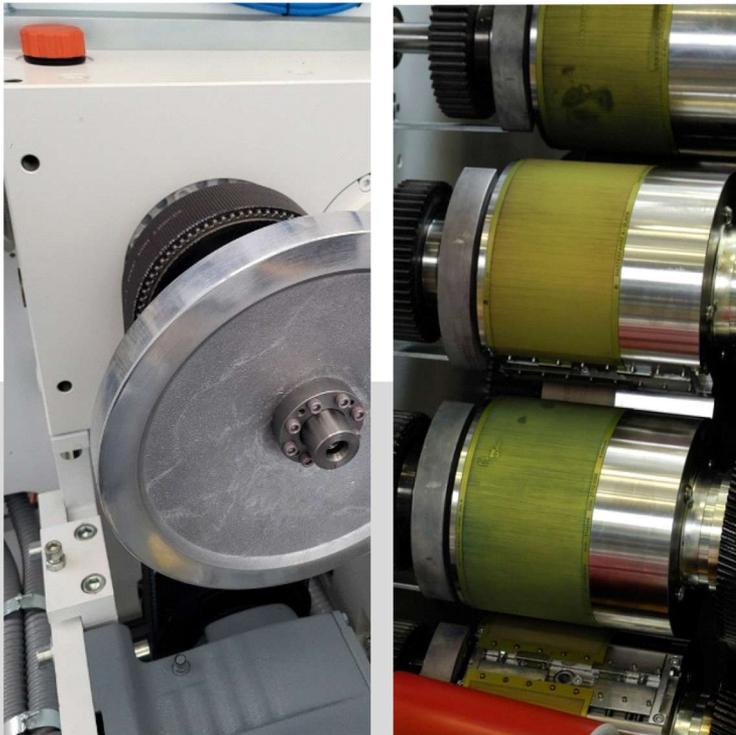
Standard high Power UV Curing or LED

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.

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.

- // Best price-performance ratio
- // Swiss high quality design
- // Reliable and stable production
- // With up to 8 colours
- // State of the art technology



Swissness inside

The BDM 500/600 is the product of Swiss engineering. All the qualities that are so highly valued in Swiss machines have been incorporated into these cup printing machines. This ensures the quality and durability of the BDM 500/600.

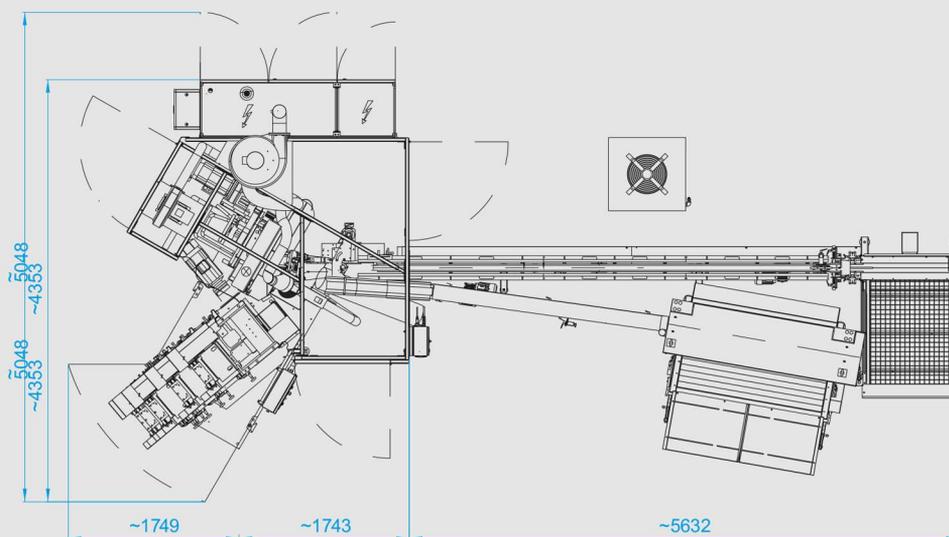
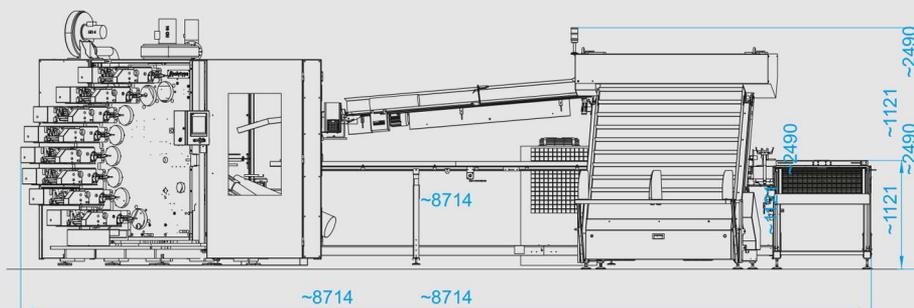
Only high-quality components are used for key parts, which come from leading European manufacturers or are produced directly by Polytype Switzerland.

The excellent price-performance ratio is impressive. High quality at a very attractive price makes the BDM500 & BDM600 machines the first choice.

Station set-up for the BDM 500/600

- 1 - Cup loading /
Cup & double cup presents control
- 2 - Pre-treatment by corona or gas
- 3 - Not occupied
- 4 - Printing / Option possible
- 5 - Not occupied
- 6 - UV-Curing
- 7 - Ejection
- 8 - Cup take-off

Specification of the BDM 500/600



Technical data

BDM 500

BDM 600

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:

502 mm

502 mm

Printing colors:

up to 8

up to 8

Max. printing speed:

500 cups/min

600 cups/min

Weight of main machine:

~ 6500 kg

~ 6500 kg

Polytype AG
26, route de la Glâne
CH-1701 Fribourg/Switzerland

Phone +41 26 426 11 11

info@polytype.com
www.polytype.com

SWITZERLAND

WIFAG-Polytype Holding AG
Fribourg/Switzerland

Polytype AG
Fribourg/Switzerland

AMERICA

Polytype America Corp.
Lincoln Park, NJ/USA

ASIA

Polytype Asia Pacific Co., Ltd.
Chachoengsao/Thailand



Passion · Innovation · Decoration