# RDA-X – simply flexible



The compact offset printing, lacquering and finishing machine for plastic tubes

//polytype

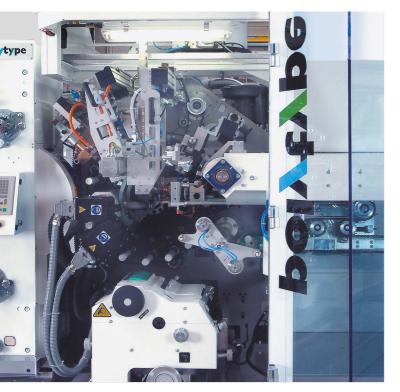
## Always the best – a genuine all-rounder

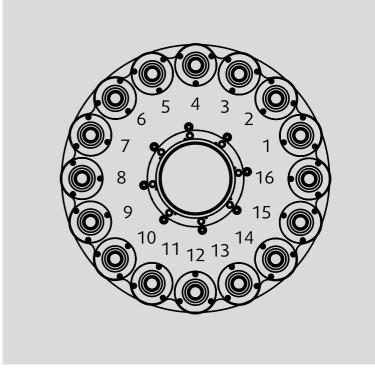


//polytype is a leading manufacturer of high-quality decorating and finishing machines for plastic tubes and sleeves. Customers benefit every day from the extreme flexibility and high productivity of //polytype solutions coupled with the company's process expertise and excellent service.

//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.

- // Printing and tube finishing on one machine
- // Highly flexible machine layout
- // Excellent print quality and high productivity
- // Swiss reliability





The //polytype RDA-X is a 2-in-1 offset printing and lacquering machine for inline and offline production. It enables complete printing and finishing for tubes on an extremely small footprint.

### Example 1 of the occupancy of the stations with capping on the RDA X

- 1 Feeding tubes
- 2 Membane film fixing
- 3 Presence control sealing
- 4 Cap screw-on/snap-on
- 5 Cap tightening
- 6 Surface pre-treatment
- 7 Detection for positioning
- 8 Printing
- 10 UV ink curing
- 12 Lacquering
- 14 Vision control
- 15 Unloading tubes
- 16 Process control

### Example 2 of the occupancy of the stations with capping on the RDA X

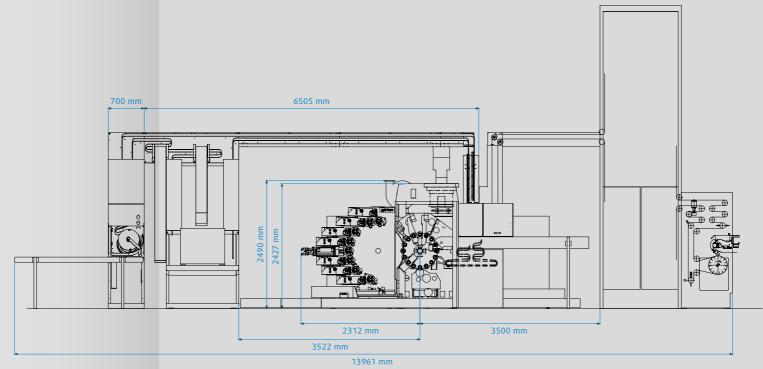
- 1 Feeding tubes
- 2 Presence control
- 3 Cap screw-on/snap-on
- 4 Cap screw-on/snap-on
- 5 Cap tightening
- 6 Surface pre-treatment
- 7 Detection for positioning
- 8 Printing
- 10 UV ink curing
- 12 Lacquering
- 14 Vision control
- 15 Unloading tubes
- 16 Process control

## Example 2 of the occupancy of the stations with only printing on the RDA X

- 1 Feeding tubes
- 3 Presence control
- 6 Surface pre-treatment
- 7 Detection for positioning
- 8 Printing
- 10 UV ink curing
- 12 Lacquering
- 14 Vision control
- 15 Unloading tubes
- 16 Process control

## Machine layout for cost-effective operation

- // Manual or automatic loading and unloading
- // Wide range of tube finishing operations
- // Offline and inline operation
- // Further optional processes also available



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Technical data			
Min./max. diameter:	(13.5)19-50(63.5) mm		
Skirt length:	60-215 mm		
Max. printing width:	205 mm		
Cap diameter:	19-50 mm		
Max. printing speed:*	130/min.		
Weight of main machine:	~10000 kg		
*dependent on machine configuration			

The following processes are also available as options:

- // Lacquer viscosity measurement system
  - // Pre-print
- // Alignment of the print image with a tube marker
- // Vision control system

#### Feeding tubes

Tubes can be fed in manually, semi-automatically from a storage magazine or fully automatically using a drum.

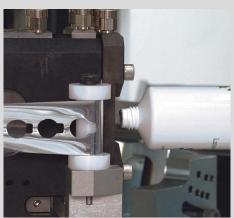
#### Membrane film fixing

To seal the tube opening, precisely sized membranes are punched out before the aluminum or plastic laminate film is welded to the tube head.

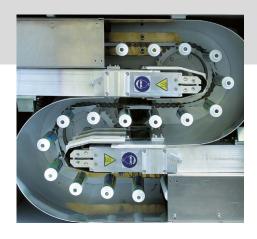
#### Ionisation with dust exhaust

To clean the tubes, particles are neutralized electrostatically and then cleaned of dirt particles using a vacuum.















#### **UV** lacquer curing

The UV lacquer curing process takes place in a separate //polytype oven with progressive heat control. The path is S-shaped and equipped with two UV radiation elements. A swivel-mounted opening enables easy cleaning and simple reel changes.

## Anilox/squeegee lacquering unit

The lacquering unit ensures even application using either a squeegee or anilox lacquering unit. The unit can be pulled out, which ensures excellent accessibility. A temperature control system is also integrated.

#### UV ink curing

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

#### Cap screw-on/snap-on

The same station can be used to screw in closures or snap on caps without time-consuming changeovers.

#### Cap tightening

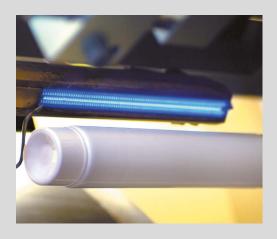
Once a cap has been screwed on, a controlled process is used to tighten it using the correct torque.

#### 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.















## Temperature-controlled inking unit

This inking unit ensures constant ink processing and was designed for fast ink changes. It is also very easy to maintain.

#### 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.

#### Printing plate punching device

30x magnification helps ensure precise printing plate punching.

#### Printing plate cylinder

Printing plate cylinders with clamp or magnetic design enable quick and easy plate changeovers.

## The right printing unit for the right application!

- // The state-of-the-art printing units are the result of decades of experience
- // Robust and durable construction for high-quality printing
- // polytype offers a printing unit solution for every decoration need







## The standard 8-color dry offset printing unit T91

- # 8-color printing unit frame Inking trough with screw or
- levers
- // Separate duct roller drives
- // Central lubrication
- // Automatic roller-washing unit
- // Standard or magnetic printing
  plate cylinder
- // Ink mist removal
- ∥ Plate cylinder Ø: 165 mm
- // Rubber blankets: 6 (3)

## The 9-color dry offset printing unit M91

- **//** 9-color printing unit frame
- // Inking trough with screw or levers
- // Separate duct roller drives
- // Central lubrication
- // Automatic roller-washing unit
- // Standard or magnetic printing
  plate cylinder
- // Printing pressure with fine adjustment
- // Covered gearwheels
- // Plate cylinder Ø: 165 mm
- // Rubber blankets: 6 (3)

## The dry offset printing unit T80 for small diameters

- # 8-color printing unit frame
- // Inking trough with screw or levers
- // Separate duct roller drives
- // Central lubrication
- // Automatic roller-washing unit
- // Standard or magnetic printing
  plate cylinder
- // Printing pressure with fine adjustment
- // Ink mist removal
- // Covered gearwheels
- // Toray printing method
- // Plate cylinder Ø: 100 mm
- // Rubber blankets: 8 (4)

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