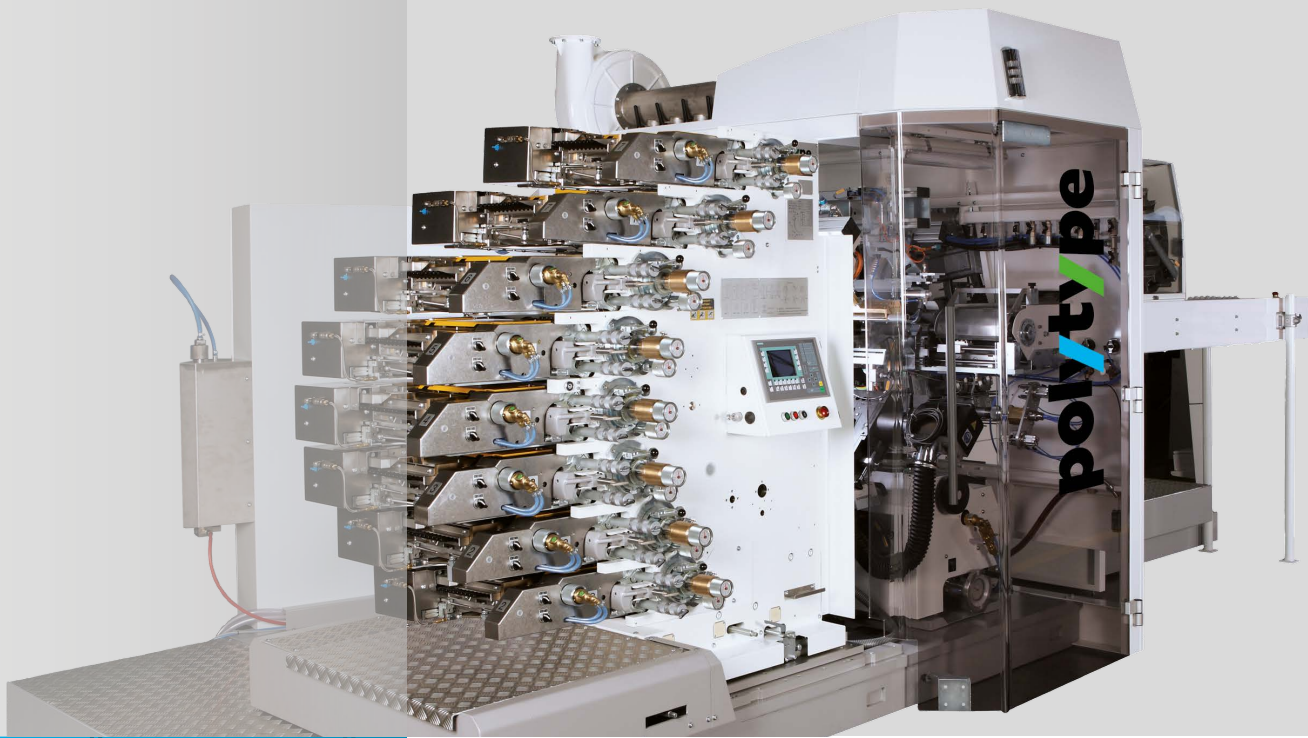


# RDA-X – simply flexible



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

# Always the best – a genuine all-rounder

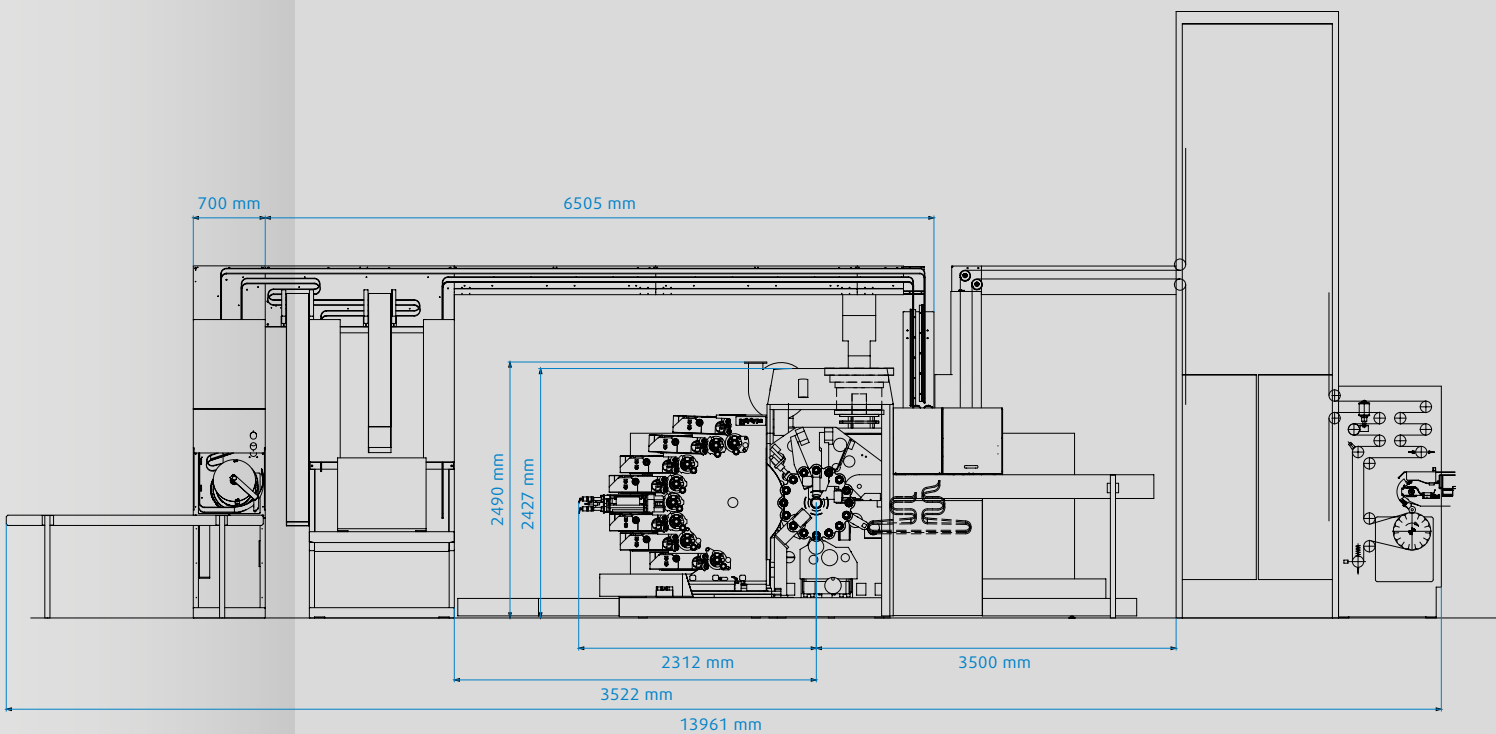


//polytype is a leading manufacturer of high-quality decorating and finishing machines for plastic tubes and sleeves. Customers benefit every day from the extreme flexibility and high productivity of //polytype solutions coupled with the company's process expertise and excellent service.

//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.

# 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



## 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

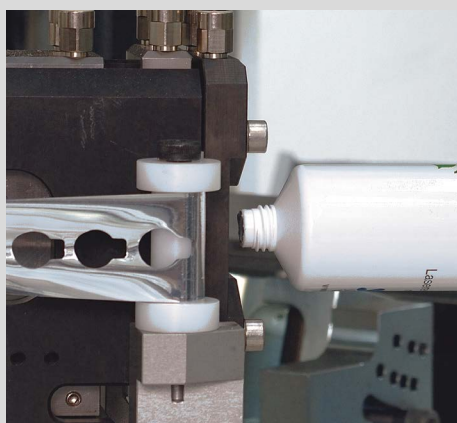
### Feeding tubes

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



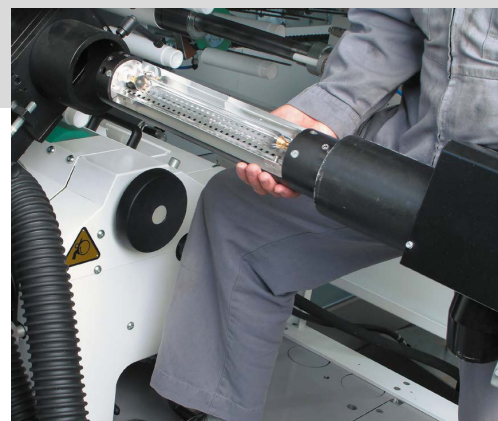
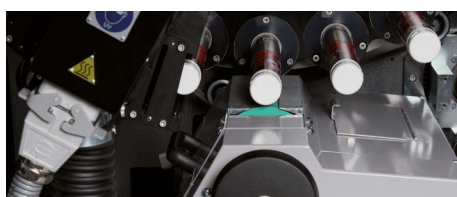
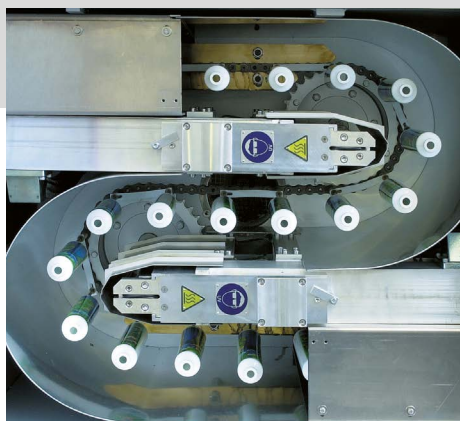
### Membrane film fixing

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

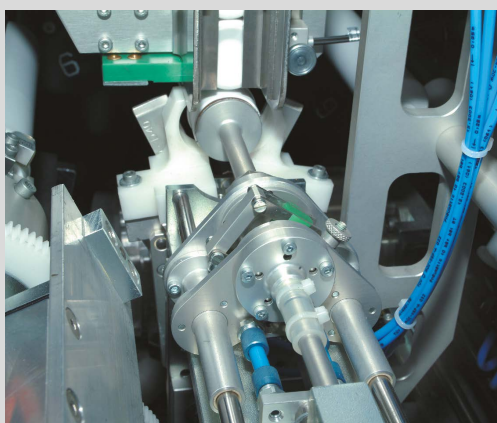
The lacquering unit ensures even application using either a squeegee or anilox lacquering unit. The unit can be pulled out, which ensures excellent accessibility. A temperature control system is also integrated.

### 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.



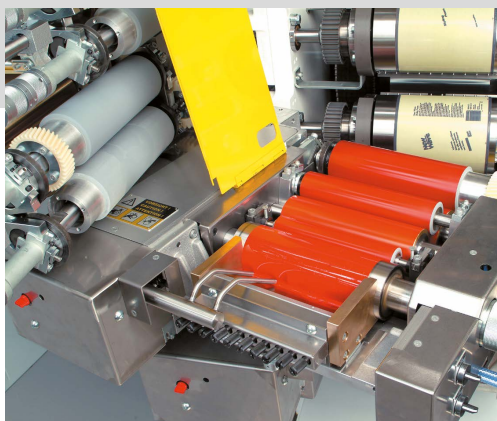
### Cap tightening

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.



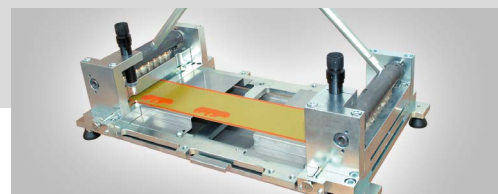
### Temperature-controlled inking unit

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.

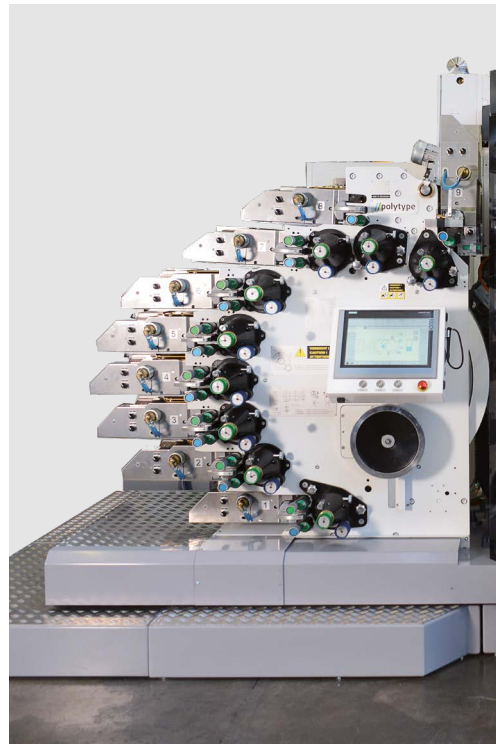


### Printing plate cylinder

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)

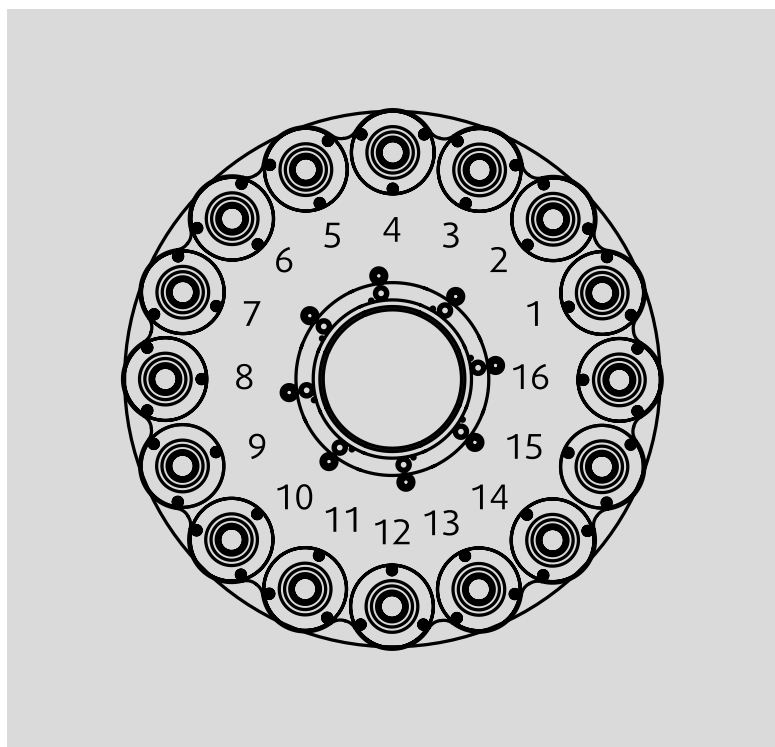
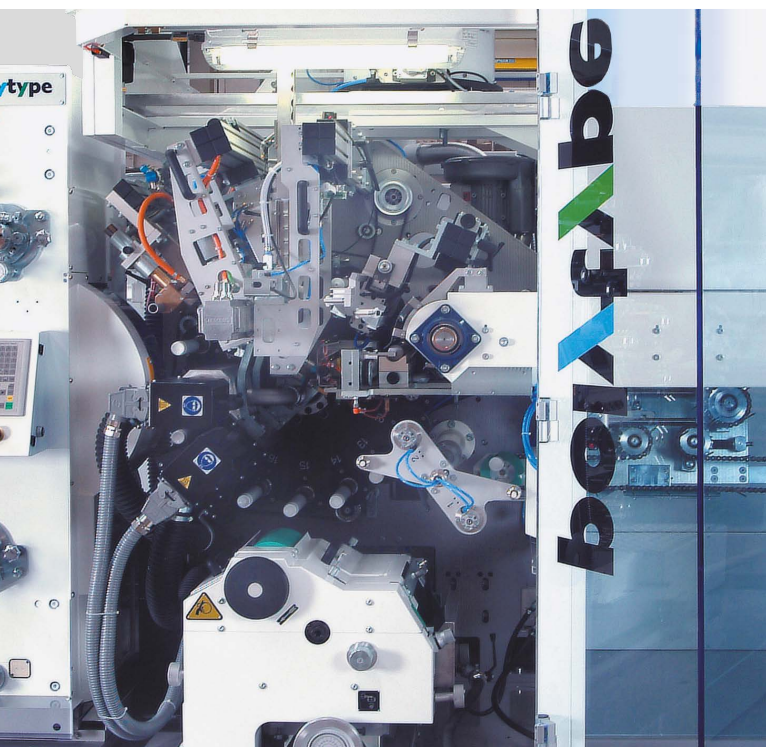
## The 9-color dry offset printing unit M91

- // 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)

- // 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 Membrane 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

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