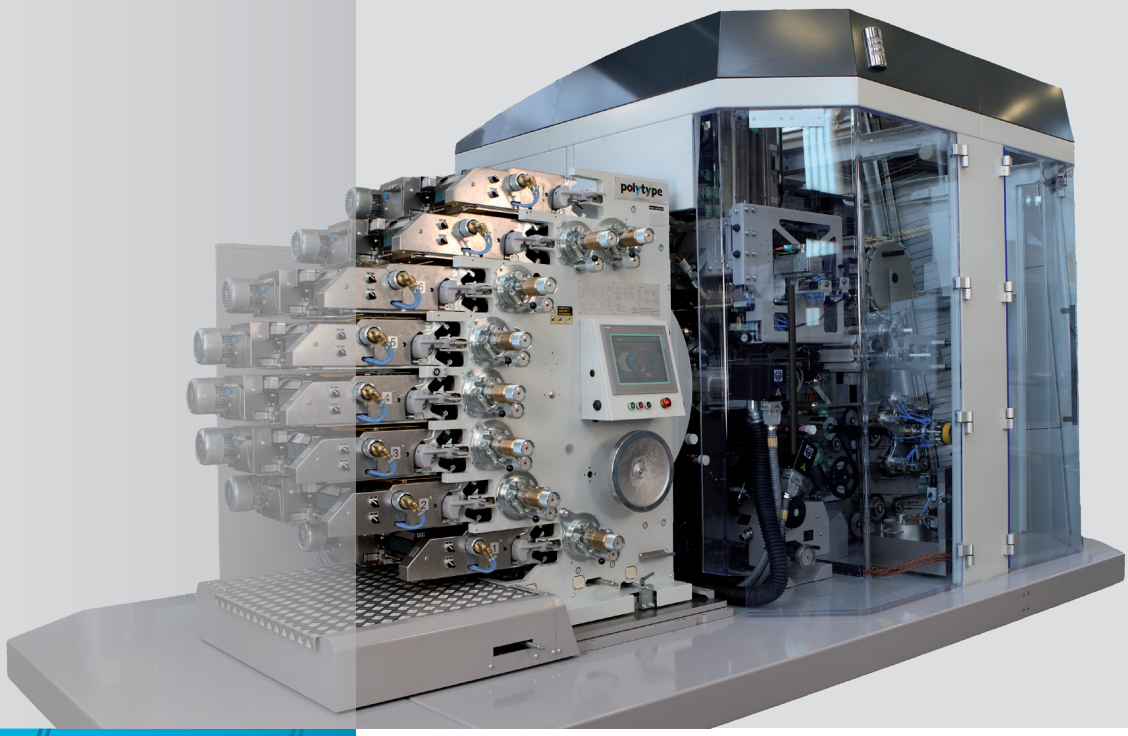
RDA 24-150 – extra flexibility



The high-performance offset printing, lacquering and finishing machine for plastic tubes

//polytype

Passion · Innovation · Decoration

Always the best – a genuine all-rounder

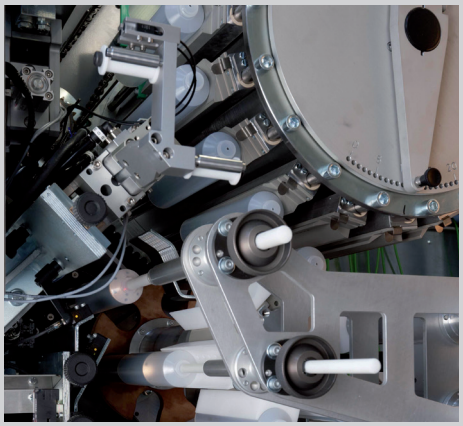
//polytype is a leading manufacturer of high-quality decorating and finishing machines for plastic tubes and sleeves. Customers benefit every day from the extreme flexibility and high productivity of //polytype solutions coupled with the company's process expertise and excellent service.

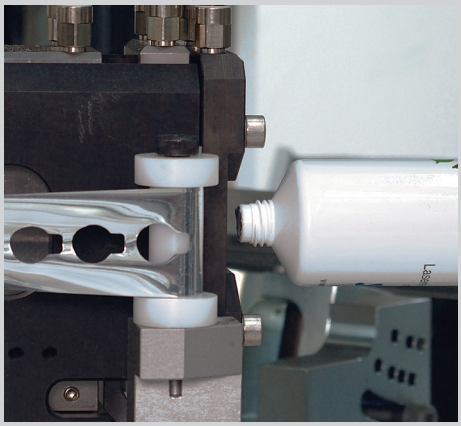
//polytype is part of the Swiss wifag//polytype Group, which operates globally and has branches in Switzerland, Germany, Bulgaria, USA and Thailand. This alliance gives //polytype access to a broad technology base and guarantees a global and professional partnership for your success.

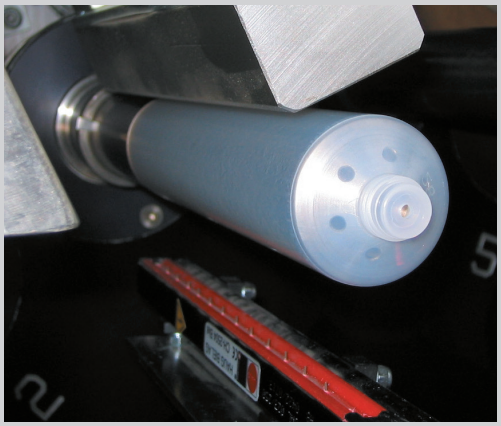
Feeding tubes
Tubes can be fed in manually, semi-automatically from a storage magazine or fully automatically using a drum.

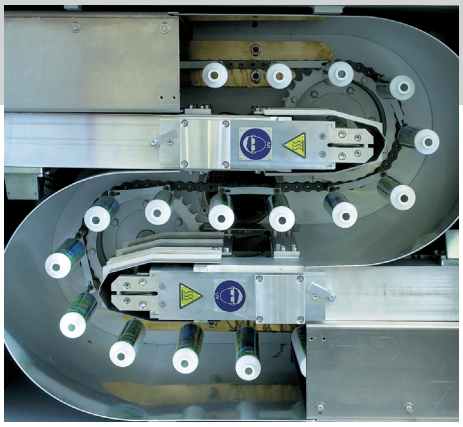
Membrane film fixing
To seal the tube opening, precisely sized membranes are punched out before the aluminum or plastic laminate film is welded to the tube head.

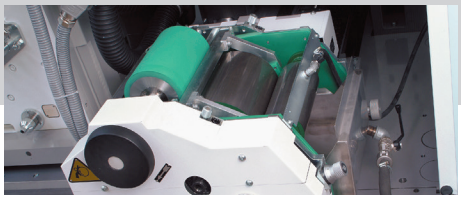
Ionisation with dust exhaust
To clean the tubes, particles are neutralized electrostatically and then cleaned of dirt particles using a vacuum.

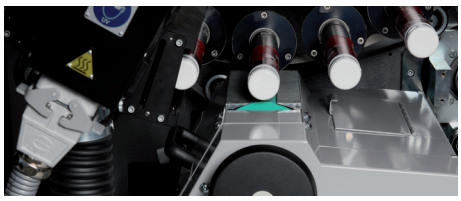


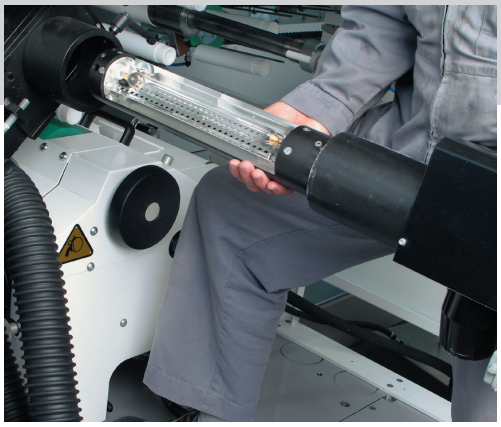












UV lacquer curing
The UV lacquer curing process takes place in a separate //polytype oven with progressive heat control. The path is S-shaped and equipped with two UV radiation elements. A swivel-mounted opening enables easy cleaning and simple reel changes.

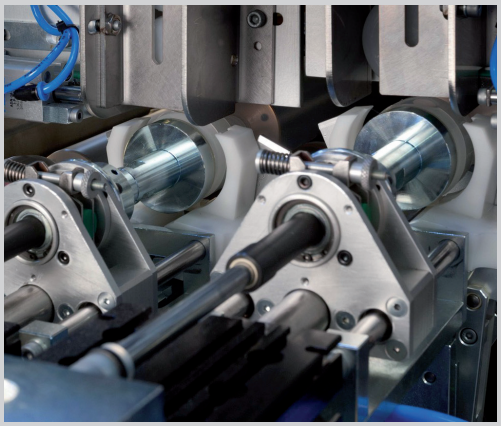
Anilox/squeegee lacquering unit
The lacquering unit ensures even application using either a squeegee or anilox lacquering unit. The unit can be pulled out, which ensures excellent accessibility. A temperature control system is also integrated.

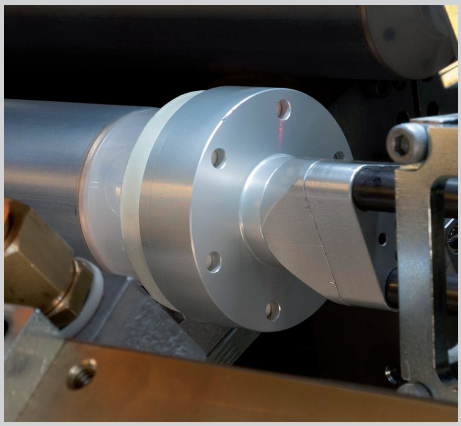
UV ink curing
The UV ink curing process is equipped with progressive power control. It was developed for quick lamp changes and ease of maintenance.

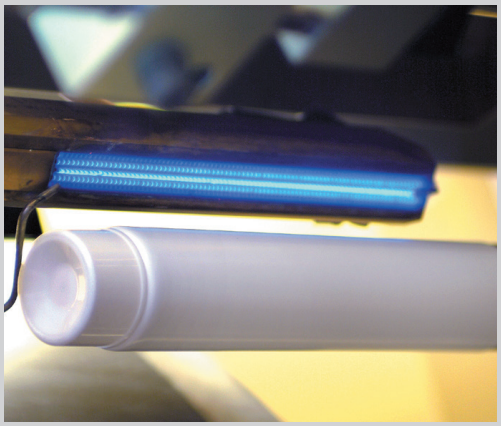
Cap screw-on/snap-on
The same station can be used to screw in closures or snap on caps without time-consuming changeovers.

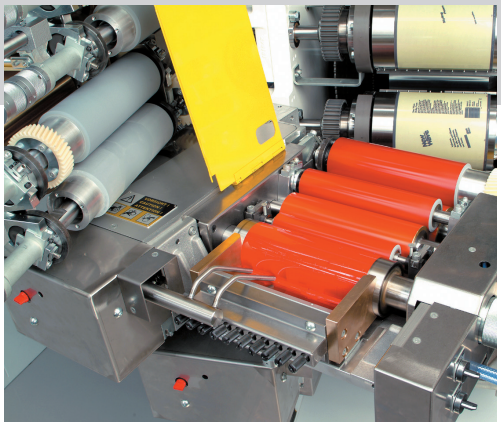
Cap tightening
Once a cap has been screwed on, a controlled process is used to tighten it using the correct torque.

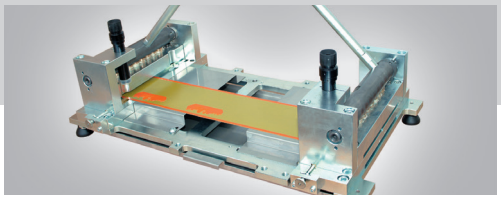
Surface pre-treatment
To ensure reliable ink adhesion, this station is used to pre-treat the surface of the tubes with gas or a Corona.

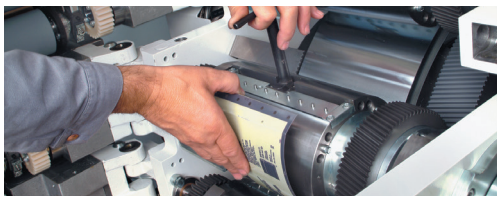












Temperature-controlled inking unit
This inking unit ensures constant ink processing and was designed for fast ink changes. It is also very easy to maintain.

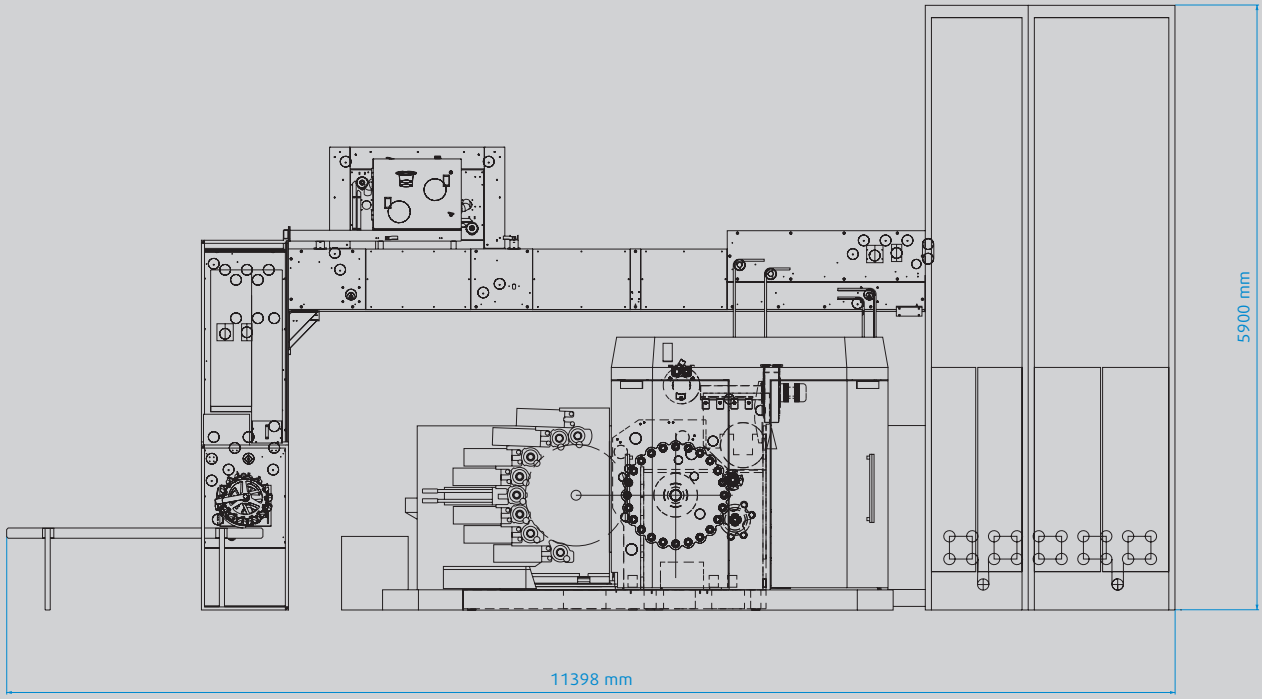
High-precision printing unit
The printing unit can reproduce print images comprising up to 8 colors in consistently high quality even over longer periods. Thanks to the ergonomic design and quick-change options, a print image can be changed within a very short space of time.

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.

Controlled process variety – from start to finish

// Fast design changes thanks to quick-change options
// High positioning accuracy of flip-top caps relative to the print design
// Fast tube format changeover without tools
// Further optional processes available



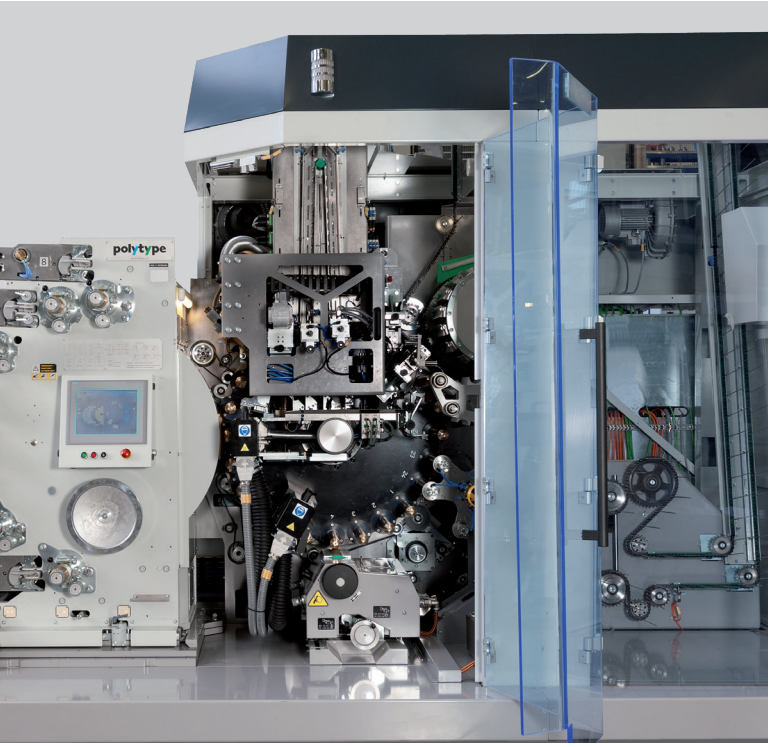
The //polytype RDA 24-150 is a 2-in-1 high-performance offset printing and lacquering machine for inline and offline production. It enables complete finishing for tubes on an extremely small footprint.

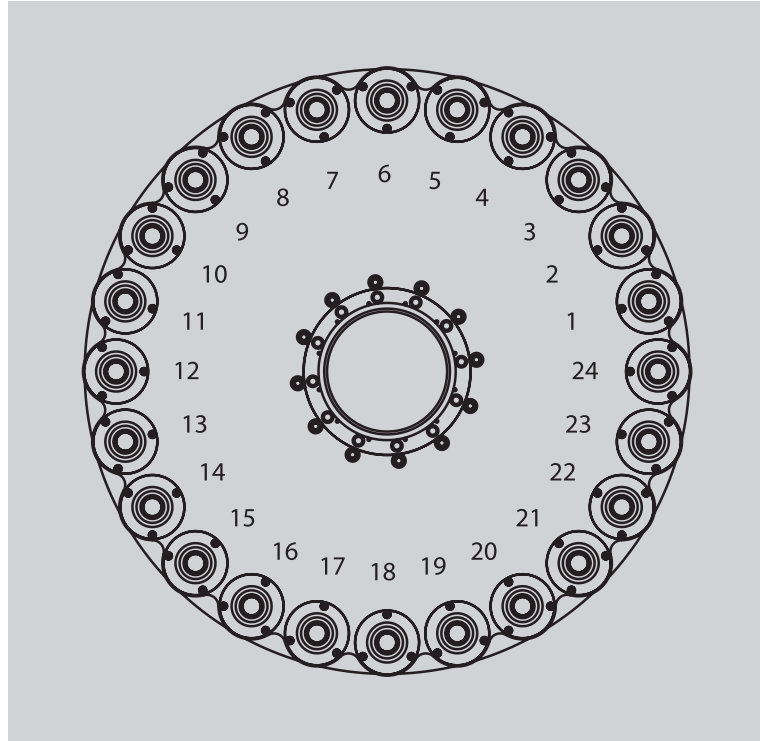
The following processes are also available as options:

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

Technical data	
Min./max. diameter	(13.5)19-50(63.5) mm
Skirt length	50-215 mm
Max. printing width	205/215 mm
Cap diameter	19-50 mm
Max. printing speed	150/min.
Weight of main machine	~12000 kg

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





The //polytype RDA 24-150 is a high-performance 2-in-1 offset printing and lacquering machine.
This decorating machine was designed primarily for inline operation, but can also be used offline.

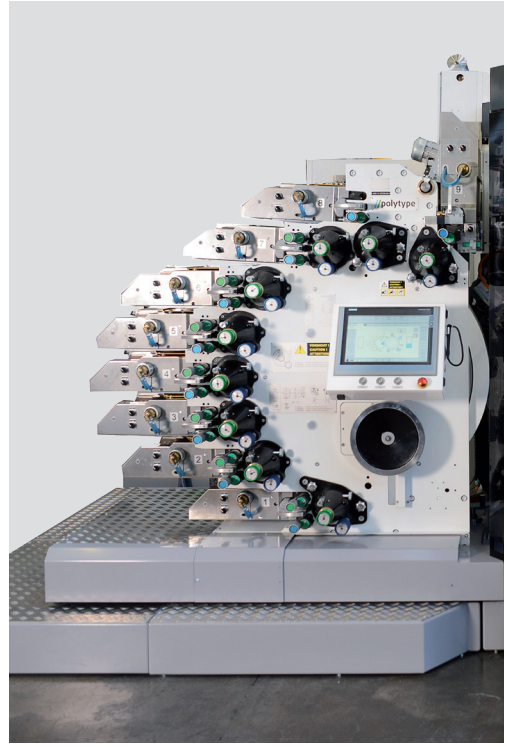
The integrated finishing operations make it possible to produce complete, high-quality tubes efficiently and with a very attractive ROI – and at speeds that normally call for a separate transfer and tube finishing machine.

Stations can be set up for RDA 24-150

1 – Feeding tubes
2 – Process control
3 – Membrane punch
4 – Tube mouth sealing
5 – Sealing control
6 – Cap screw-on/snap-on
7 – Cap screw-on/snap-on
8 – Cap tightening
9 – Surface pre-treatment
11 – Detection for positioning
12 – Printing
16 – UV ink curing
18 – Lacquering
21 – Vision control
22 – Unloading tubes
23 – Unloading tubes
24 – Process control

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 ∅: 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 ∅: 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 ∅: 100 mm
// Rubber blankets: 8 (4)

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