

Laboratory Line LabCoater++
CL300-1+


Testing and checking of
100% acrylic lacquers
on **paper** and **film**



Test and check industrial use on **roll-to-roll**

Customers from a wide range of industrial sectors rely on the coating technology and surface finishing by Jagenberg Converting Solutions: With the LabCoater++ CL300-1+ laboratory system for 100% acrylate lacquers, web widths of up to 300 mm are coated in series, and industrial applications are put through their paces.

Quality testing of



100%
acrylic lacquers

On film and paper: scalable testing

If defects and problems with new coatings only become apparent during production, this is not only annoying but also expensive. This is why Jagenberg Converting Solutions has developed the Lab-Coater++ CL300-1+ especially for the product and coating development of 100% acrylic lacquers: With virtually scalable results, the system is ideal for producing test material for decorative films and paper, packaging films and paper, or protective films, as well as for quality testing.

Proof of concept on roll-to-roll

To test process parameters on a small scale in advance, LabCoater++ maps roll-to-roll processes for film and paper substrates in such a way that they can be scaled on the basis of pre-production. The 3-roll applicator also makes it possible to calculate production conditions and process parameters almost exactly in advance. Development times can thus be drastically shortened. What's more, productive systems can be profitably occupied with tried and tested orders in the meantime.

Easy handling, modular application, high variability

The flexible system is able to produce Top-Coats with tactile effects, high matting levels and anti-fingerprint effects.

In addition, coating formulations with high resistance to scratches, UV radiation and chemical influences can be produced.

The necessary settings for pre-gelling, PAC, Excimer and UV DirectCure technology can be made conveniently via the installed UV system from IOT.



LabCoater++ CL300-1+:
The future-proof partner for the development and quality testing of **100% acrylic lacquers** in combination with different substrates.

THE LABORATORY SYSTEM FOR PAPER AND FILM SPECIALISTS

Technical specifications

Substrate

PET, PVC, BOPP, PE: 30-400 µm, Paper 40-200 g/m²

Roll diameter

800 mm / 3" sleeve / 6" adapter

Web width

max. 300 mm

Speed

5-200 m/min.

Web tension

50-200 N

Coating unit

- 3-roll system (syncro/reverse)
- Anilox roll (temperable)
- Application roll (rubber)
- Backing roller (steel)

with application modules

- open doctor blade
- chambered doctor blade
- open chambered doctor blade

IOT system

- 1 x PAC pre-gelling
- 1 x LED (16 W/cm²)
- 1 x UV Ga tube with shutter (80 W/cm²)
- 1 x Excimer (5 W/cm) (2nd prepared)
- 3 x UV system
 - 1 x Ga. dot. Emitter (180 W/cm)
 - 1x UVC DirectCure (180 W/cm) (3rd insert prepared)

System dimensions

approx. 6,600 x 1,600 x 2,600 mm

Control system

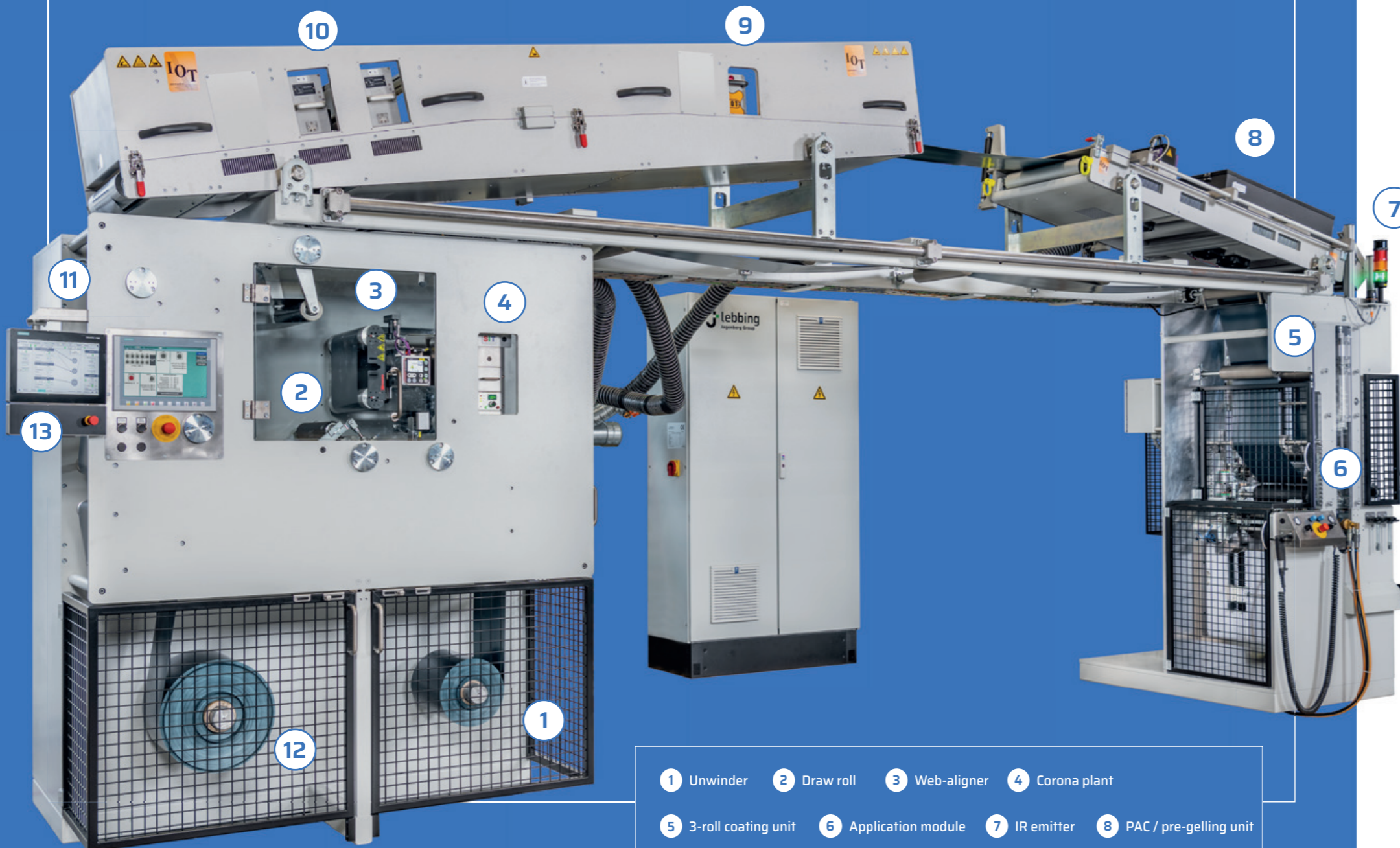
Siemens S7-15xx-F

Optional additional units

- Corona
- Discharge
- IR emitter in front of PAC
- Lacquer supply (temp. max. 45°C)

Application quantity

2-30 g/m² depending on the Hashur and anilox roll design in conjunction with the doctor blade system and the resulting speeds



- 1 Unwinder 2 Draw roll 3 Web-aligner 4 Corona plant
- 5 3-roll coating unit 6 Application module 7 IR emitter 8 PAC / pre-gelling unit
- 9 Excimer 10 UV DirectCure 11 Draw roll 12 Rewinder 13 HMI

LabCoater++ CL300-1+

At the center: the coating unit

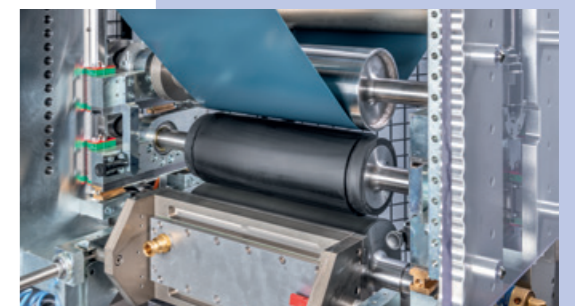
- 3-roll coating unit for 100% acrylate systems
- Direct/indirect and kiss-coat coating
- Individual drive technology (all directions of rotation combinations)
- Height-adjustable infeed and outfeed roll
- Precise roll adjustment
- Modular coating systems
- Temperature-controlled anilox roll
- Temperature-controlled lacquer supply
- Easily accessible inspection section

Modular flexibility

- Application modules in the coating unit can be positioned optionally at 3 o'clock / 9 o'clock to the anilox roll
- Direct, indirect, or kiss-coating application
- Easy handling and installation of the modules
- Expandable with customer-specific modules
- Can be extended with NIR drying for water-based paints



Open doctor blade /
doctor blade bar
lacquer tray







Chambered
doctor blade



Open chamber
doctor blade for
small lacquer
quantities



If you are interested or have any questions about our product LabCoater++ CL300-1+, please do not hesitate to contact Mr. Andreas Bahnmüller: +49 175 2048225

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