

WEBCOAT

Laboratory paper coating machine



The D300 Web Coater corresponds with the latest technological standards in the industry. The machine enables the coating process to be reproduced very realistically in the laboratory. The comprehensive setting options allow individual formulations to be tested and optimised. The knowledge gained can then be applied on the production machine with high process capability.

BASIC-MODULE D300



The basic module includes all the control and drive units to run the machine at speeds of up to 100 m/min.

Two high-performance drying units are installed, each fitted with a 5.5 kW hot-air blower, and the controllable infrared radiator with max. 9 kW power supplies the energy for drying.

A sophisticated roller pull-off system is equipped with a potentiometer so that the optimum web tension can be set. The facility for online identification of coating weight and humidity is available as an option. State-of-the-art electronics allow precise central control of the system. This displays the drive unit, infrared heating elements and the hot air temperature and quantity, which can all be regulated.

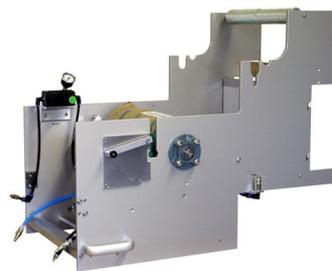
MODULE D301: FILM PRESS



The paper is fed through a gap between the rollers, thereby applying the coating colour to the paper. The coating colour has previously been applied to the roller as a "film" by means of the roll squeegee. This film is then transferred from the roller on to the paper as it passes through the gap.

The exchangeable rotating bars (engraved & smooth) allow both very fluid and also highly viscous formulations to be applied to the paper by the rubber roller.

MODULE D302: BLADE & ROLL SQUEEGEE



More coating colour than is required is transferred on to the paper. The excess is then removed with a blade. This results in an absolutely even surface. The coating weight can be varied by changing the position of the ground blade, the adjustable application pressure and the configurable thickness, thereby achieving even and precise application.

SPECIFICATION

D300 basic module	
Heating power (infrared & air):	20 kW
Web speed :	0 - 100 m/min
Air temperature:	0 - 250° C
Air quantity :	600 - 1600 lt/min
Roller width:	30 cm
Roller diameter:	36 cm
D301 module: Film press	
Applied weight:	1 - 10 g/m ²
D302 module: Blade & roll squeegee	
Applied weight:	1 - 30 g/m ²