

Film Applicator
COATMASTER
510 Compact-G/V



Fig. Mod. 510 Compact-G

testing equipment for quality management

ERICHSEN
since 1910

Technical Description

variety of accessories

reliable accurate reproducible

Purpose and Application

A motorised film applicator is used in cases where
- a surface has to be covered with an absolutely uniform film,
- reliable information is needed on the relation-ship between the wet and the dry film thickness,
- a large number of exactly identical samples has to be produced.

All kinds of inevitable inaccuracies when applying films manually, are avoided by using the **automatic drawing method**.

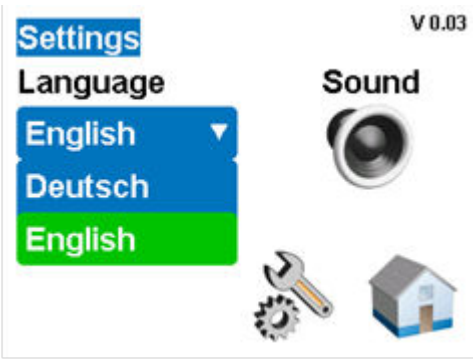
Typical users are:
The lacquer and paint industry, especially for the research / development / quality control of many different products.

Generally universities / academies as well as institutes studying high sensitive facts within the scope of their research and development projects requiring an optimally controlled film application, i.e. in the research of solar cells, fuel cells and accumulators as well as in the medical technology and research.

Design and Function

Basic Unit – 510 Compact

The Film Applicators **COATMASTER 510 Compact** are compact testing instruments equipped with a **touch display**. The use of appropriate accessories means that they can be used as high-precision film applicators.



The microprocessor-controlled, precisely graded step motor drive engineering guarantees an extremely uniform accomplishment as well as an excellent repeatability of all processes set.

- Variable application path up to approx. **290 mm.**
- Freely selectable drawn down speed in the range of 1 - 200 mm/s.
- Automatic quick return by key press.
- Film applicator symmetrically working in one direction.

The ***COATMASTER 510 Compact-G*** is supplied as standard with a glass plate pane as a specimen carrier or as a direct film base, as well as an attachment assembly for doctor blades.



The ***COATMASTER 510 Compact-V*** comes with an attachment assembly and a vacuum suction plate with suction holes (Ø 2.2 mm) for flat fixing of flexible film substrates.

An electric vacuum pump is required for the vacuum suction plate (available under order no. 06230752).



ACCESSORIES

The user can equip the Film Applicators **COATMASTER 510 Compact** with the accessories which comply with the special application requirements and test purposes. In this respect the following accessories are available:

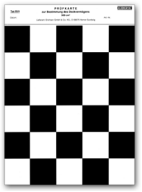
Glas plate
as specimen carrier or direct film substrate.



Three-layer Foam/Rubber/Melinex Coating Bed (flexible)

Foils and Charts:

- Plastic foils, system Leneta®
- Contrast charts with chess board pattern or large black/white fields, as well as serveral other designs (Mod. 451).



Quick Clamping Device *for spirals*
(necessary to use Model 358)

Varius Film Applicators:

- Film Applicator System Wasag, Model 288,
  Width: 80, 120, 180 or 230 mm



- Spiral Film Applicator, Model 358,
  Width: 80, 150 or 220 mm



- Quadruple film Applicator, Model 360,
  Width: 13, 40, 60 or 90 mm



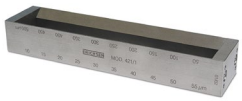
- Film Applicator MULTICATOR 411,
  Width: 80, 150 or 220 mm



- Levelling Test Blade and Sag Teste, Model 419



- Staggered-Gap Film Applicator, Model 421/I,
  10 films each 20 mm wide
- Staggered-Gap Film Applicator, Model 421/II,
  6 films each 35 mm wide



For more detailed information on the film applicators please refer to the individual leaflets 284/286/288/358/360/411/421/E as well as 419/E.

ATTENTION:

The basic unit is not functional without the appropriate accessories. It is therefore **necessary to order the appropriate accessories** with the basic unit in order to carry out the required tests.

Technical Data
Models 510 Compact-G and 510 Compact-V:

Dimensions (approx.)	L	510 mm
	W	380 mm
	H	190 mm
Net weight:		approx. 13 kg
Power supply:		100 - 240 V, 47-63 Hz via wide-range power supply unit
Application path:		290 mm
Draw-down speed:		freely adjustable in the range of 1 - 200 mm/s

Order Information	
Ord.-No.	**Product Description**
03300331	Film Applicator **COATMASTER 510 Compact-G** microprocessor controlled, incl. glas plate pane and attachment assembly for doctor blade (application path **290 mm**)
03300431	Film Applicator **COATMASTER 510 Compact-V** microprocessor controlled, incl. vacuum plate and attachment assembly for doctor blade (application path **290 mm**)
	The scope of supply includes: - Basic unit - Wide-range power supply unit - Operating manual

The right of technical modifications is reserved.
TBE 510 Compact – VIII/2025

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