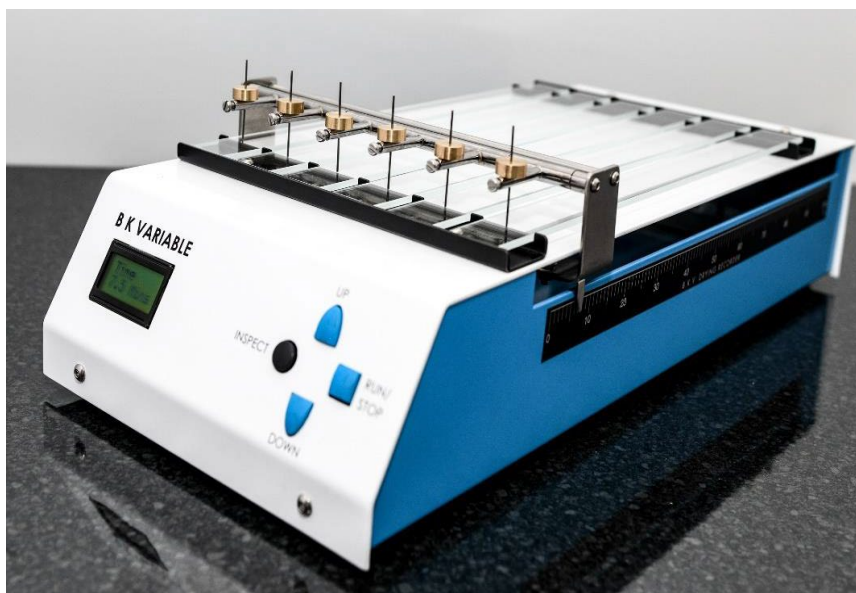


# Drying Time Recorder Model 504-V

With  
variable  
speeds



testing equipment for quality management



Technical Description

Precise Recording  
of the drying Properties

of Paints and  
Similar Coatings

## Purpose and Application

The **Drying Time Recorder, Model 504-V**, automatically determines and registers the drying behaviour of paints and similar coatings.

## Test Principle

A needle slides over the coating film at a defined speed. The track produced by the needle varies according to the degree of dryness. The various drying stages are defined by calculating the time and track characteristics of the film under investigation.

## Design and Function

The instrument consists of a metal body with a cover plate. This plate serves as a platform for holding 6 glass strips measuring 305 x 25 mm onto which the coatings are applied. The six hemispherically ended testing needles are fixed in a carrier device made of steel.

The Drying Time Recorder with variable testing speeds, has a choice of 20 pre-programmed running times from 7.5 minutes to 96 hours. Other running times (in increments of 30s) are available on request and accordingly to be specified in the order.

The set time is shown on the illuminated display.



The following track definitions conform to the degree of dryness of the coating:

- |                                   |  |
|-----------------------------------|--|
| ◆ No track                        | Coating material runs together behind the needle |
| ◆ Continuous track                | No flow of coating material                      |
| ◆ Rhombic track                   | Incipient surface dryness                        |
| ◆ Continuous track on the surface | Incipient through-dryness                        |
| ◆ Interrupted track               | Incipient non-stickiness                         |
| ◆ No track                        | Incipient handling fastness                      |

To determine the time of each transitional point the carrier device with the test needles is moved back by hand and the needles placed on the appropriate point. The relevant time can then be read off on the time scale.

## Accessories

We recommend using the ERICHSEN Quadruple Film Applicator, Model 360, to produce an even, 13 mm wide coating film on the supplied glass strips.

The addition of brass weights (optional accessories) increases the tracking force of the needles so that the drying properties of even particularly resistant paints and varnishes can be determined.

## Technical Data

Dimensions: (approx.)	Height: 120 mm
	Width: 470 mm
	Depth : 220 mm
Net weight:	approx. 3.3 kg
Voltage:	100-240 VAC, 50/60 Hz, 1.8 Amp
Fuse:	main plug 13 Amp
Running length:	300 mm
Running time:	variable
Standard times:	7.5 min/15 min/30 min/1 h/ 1.5 h/2 h/3 h/4 h/ 6 h/9 h/12 h/ 15 h/18 h/24 h/30 h/36 h/48 h/ 60 h/80 h/96 h

### Order Information

Order No.	Product Name
05040251	Drying Time Recorder, Model 504-V
Scope of delivery includes:	
◆ 6 glass strips	
◆ 6 test needles	
◆ 1 mains cable	
◆ 1 operating manual	

### Accessories / Spares

Order No.	Product Name
00460131	Quadruple Film Applicator, Model 360, for film width of 13 mm
05040353	Brass weights (5 g each) for test needles, 6 pieces
05040153	Spare glass strips, 12 pieces
05040253	Spare test needles, 12 pieces

Subject to technical modifications.  
Group 9 - TBE 504-V – III/2020