

VARIOTESTER



Binding quality

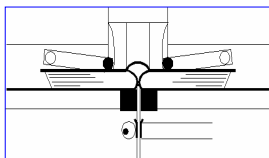
The durability of block binding is an essential feature to assess the quality of books. In book binding sufficient blocking resistance should therefore always be achieved. The quality of glue and back preparation is essential to secure a high quality in bookbinding. However the most expensive glue will not guarantee an optimal binding quality. In bookbinding one should therefore always be able to predict the binding result rather exactly before production starts. The continuity of product control ensures a high level of binding quality and avoids claims. The international applied pull test is an efficient method to maintain a high level of binding quality

Variotester

The Variotester is a compact user-friendly test device that offers a range of test analysis to determine the following properties:

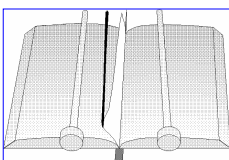
- Pull test [Adhesive Strength]
- Peel – Pull test [Adhesive Strength]
- Paper resistance Pull test
- Paper Tensile Strength test

Pull test [Adhesive Strength]



The pull test measures the binding resistance of a page or a part of sheet. The force acts on the back of a book in a vertical direction. The book will be fixed on the apparatus table with its opening downwards. The test sheet is put through the slit in the table and then fixed into the clamp. The test result is the force that causes the break at the glue point. The result is shown in N/cm for the back length. It is designed to test five books and five pages per book.

Peel - Pull test [adhesive strength]

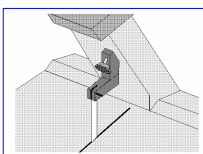


The test simulates the load that relates to the typical use of a book. The book is fixed on the apparatus table with its opening upwards. A drawing movement acts on the corner of the page.

The page is reduced to a length of 30 mm; the angle of this movement is 45 degrees. The force against the drawing movement is measured constantly. The average and the maximum value are shown. The user guidance is the same as at the pull test. The

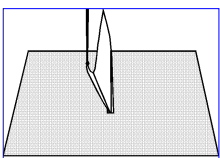
peel-pull test is very suitable to compare the different binding methods.

Paper Resistance Pull test



An upper holder clamp is fixed on the apparatus arm. This clamp picks up one end of the test strip (15 mm width). The other end is fixed by the clamp of the apparatus table. The free stretch length of the test strip is 180 mm. The drawing simulation and the measuring data indication are identical to the pull test. In this way the data of the pull test can directly be compared to the data of the paper resistance pull test. It is designed to test ten paper test strips.

Paper tensile strength test



A test page is fixed with a special clamp onto the apparatus table. The clamp prevents the test page from tearing off at a sharp edge. The page, 30 mm protruded, will be pulled at the corner in the same angle like at the peel-pull test. The force acting against the drawing movement is measured constantly on the drawing way of 30 mm. On the display you can see the average value and the maximum value. It is designed to test ten pages. This test is necessary to get the relative binding resistance at peel-pull load.

Specifications

Dimensions	670 mm x 710 mm Height: 450 mm
Weight	65 kg
Operating Voltage	230 V \pm 15 % / 50 Hz \pm 2 Hz
Power Consumption	\approx 150 VA

Load Range paper pull test, pull test	0...500 Newton
Page tensile strength, peel-pull test	0...15 Newton
Book Size book height:	400 mm
Book width	70-mm.300 mm
Book thickness:	65 mm

Measuring Time paper stability: 10 measuring values and minutes \approx 9 min

Book stability: five books and five measurements per book, minutes \approx 30 min

Measuring Data Output alphanumeric display on the service head interfaces for printer and personal computer: • serial RS 232C