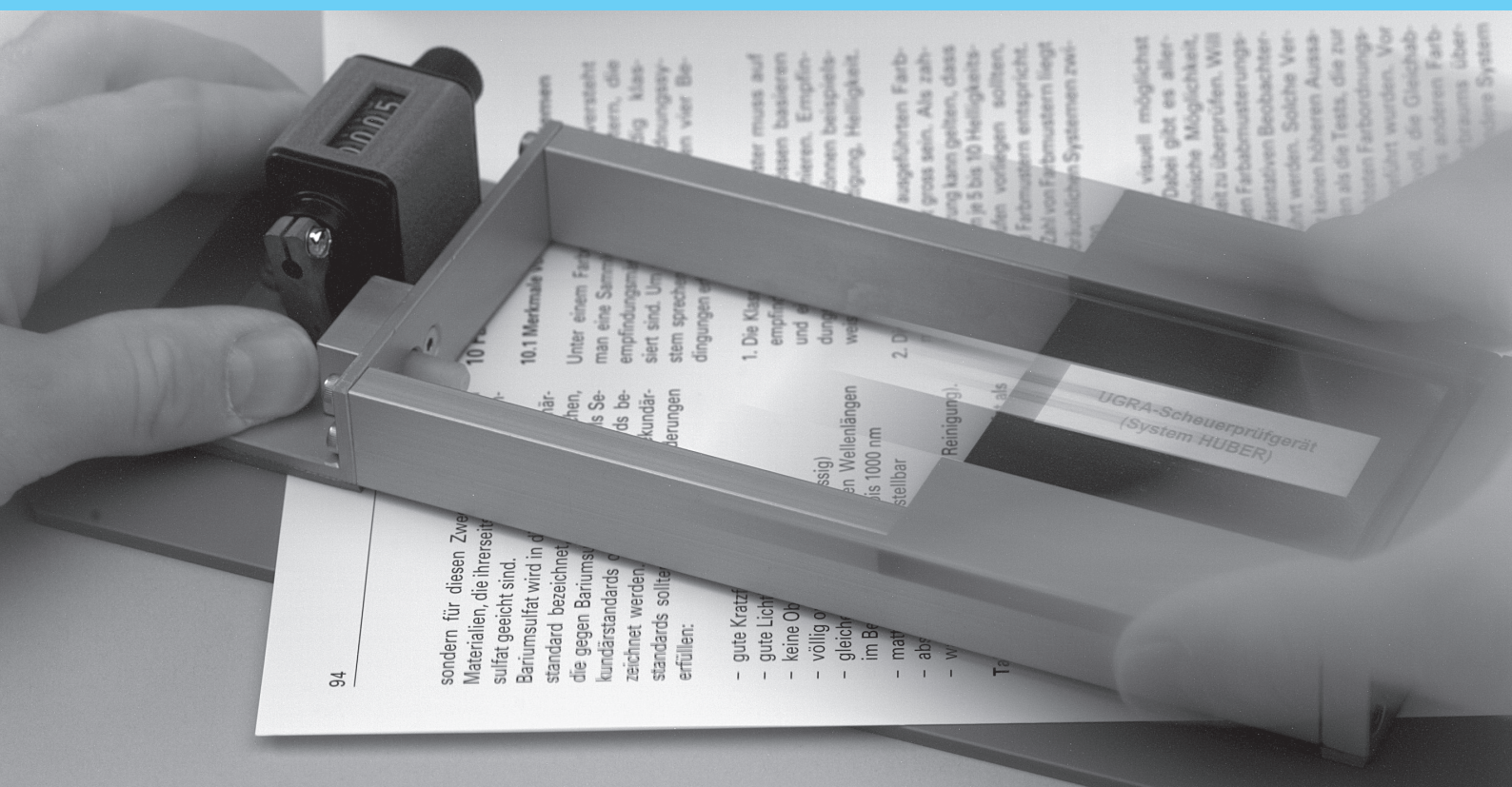


# Ugra Abrasion Tester



## PRINT FINISHING WITHOUT ANY TROUBLE! TESTING OF ABRASION RESISTANCE ON PAPER AND CARDBOARD.

If two surfaces in contact with one another are rubbed together, the result of this kind of pressure is called friction. The term «abrasion resistance» has the same meaning as the term «friction resistance». «Wipe resistance» or «wet abrasion resistance» is however not the same as normal abrasion resistance. For the testing of abrasion resistance on paper and cardboard prints, it is essential that the printed test samples are dry.



## Principle of testing

The device basically consists of these four elements:

- ▶ a guiding slide-frame with counter
- ▶ a gliding abrasion sled
- ▶ a loose metal block in the abrasion sled (weight 530 g) with foam rubber pad on bottom
- ▶ a PVC panel (approx. 14x26 cm) as smooth abrasion base

The metal block has a surface area of 50x50 mm which causes an abrasive pressure of 2 mN/mm<sup>2</sup> or 0.2 N/cm<sup>2</sup>. The friction path measures 2x10 cm per double movement (to-and-fro) and is registered automatically by the counter. The standard of 20 strokes (to-and-fro) must be complied with each test. It ensures the comparability of the assessment results.

## Analysis

The outcome of the abrasion test has to be judged visually.

With a reference sample for comparison, the classifications are:

- ▶ better
- ▶ same
- ▶ worse

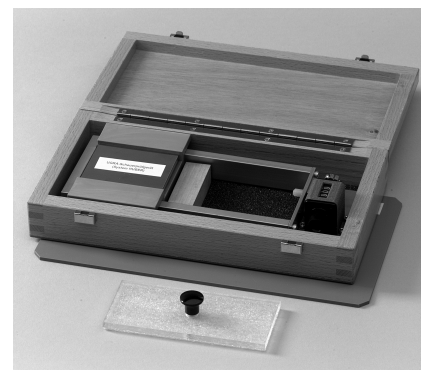
Otherwise, the test result has to be analysed visually according to the five-step scale supplied:

- ▶ no dye transfer
- ▶ marginal dye transfer
- ▶ considerable dye transfer
- ▶ intense dye transfer
- ▶ very intense dye transfer

## MEMBER INFORMATION

Ugra members benefit from 20 % member rebate.

## PRODUCT SPECIFICATIONS



### Comparable classification with other abrasion tester

Abrasion tester	Pressure	Duration of friction
Oser Scheuerprüfer	625 g	5 min.
Prüfbau Quartant	610 g	100 strokes
Sutherland	1820 g	50 strokes
Patra (Pira)	430 g	200 rotations
Fogra	1 000 g	100 strokes
<b>Ugra Device (Huber)</b>	<b>530 g</b>	<b>20 strokes</b>
Device according Dr. Ruf	0.6 atü	20 strokes

### Technical Data:

Dimension (L x W x H): 29x16.5x8 cm  
 Weight: 2.5 kg