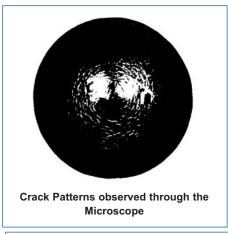
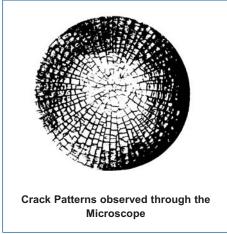


Lacquer and Paint Testing Machine Model 200







testing equipment for quality management



**Technical Description** 

ERICHSEN
Cupping Test

Simple
Manually Driven
Testing Machine

## The Product

The Lacquer and Paint Testing Machine, Model **200**, is a bench-mounted unit with a cast iron machine body and a cylindrical test head.

**Model 200** is used for the ERICHSEN CUPPING TEST in accordance with

DIN ISO 1520, ISO 1520, BS 3900 : Part E4, NF T 30-019 und SIS 18 41 77

on coated sheet metal, with a tensile strength of  $400 \text{ N/mm}^2$ , up to 1.25 mm thick and from 70 - 90 mm wide.

The painted or otherwise coated sheet metal specimen is drawn into a die using a spherical nose punch, thus stretching the material until the coating cracks or peels off. The depth to which the material has been drawn by the punch when the coating fails is the measure of the quality of the paint or coating material and relates to the elongation and adhesive properties.

This simple hand operated Testing Machine is particularly suitable for quality control on lacquers, paints, plastic coatings and enamels in smaller establishments.

## The Description

To perform the cupping test the specimen is placed into an opening through the test head with the coated side facing upwards.

The specimen is clamped by turning the blank holder clockwise.

The drawing process is initiated by pulling the clutch pin outwards from the locating sleeve and then turning the test head clockwise.

When the coating fails, the test is completed.

The depth reached can be read off directly on a digital counter.

The formation of cracks in the coating can be observed during the entire process by looking down onto the die holder.

For more precise visual observation of the failure of the coating during the process the use of a special microscope with battery operated lamp is recommended.

## The Technical Data

Dimensions: Width: 340 mm

Height: 450 mm Depth: 350 mm

Weight, net: approx. 36.0 kg

Width of sheet metal

specimen: approx.70 - 90 mm

(or approx. 30 - 60 mm)

Specimen thickness: max.1.25 mm

Depth displayed: digital

(read-off accuracy 0.1 mm)

Ordering Information		
OrdNo.	Product Name	
0001.01.31	Lacquer and Paint Testing Machine, Model 200, with Test Tool No. 27	
<ul><li>Including:</li><li>◆ Operating instruction manual</li></ul>		

Accessories/Spare Parts	
OrdNo.	Product Name
0001.01.32	Test Tool Set No. 11, for strips 30 - 55 mm wide and 0.2 - 1.0 mm thick, consisting of ball punch 8 mm dia., drawing die and sheet holder ring
0002.01.32	Microscope with magnification factor 10 and battery operated illumination, to fit on Model 200, for accurate visual observation of the beginning crack
0004.01.32	Test Tool in conformity with DIN ISO, ISO, BS, SIS and NF (spare), consisting of ball punch 20 mm dia., die with 27 mm bore and sheet holder no. 27

Subject to technical modifications. Group 1 - TBE 200 - X/2010



