

# **KRK** KUMAGAI RIKI KOGYO

## **KRK Sheet Splitter**

### **Model No. 2086**

This tester is used in studies of sheet structures. By splitting paper into several layers, it analyzes the comprehensive formation of the cross section as well as penetrability of adhesive, ink or color. Mechanism: it uses a pair of metal rolls cooled to 0°C or lower, between which a sheet of wet paper or paperboard is drawn to be nipped. Then both sides of the sheet get frozen, resulting in internal tear that leads to splitting of the sheet into two frozen sheets, which are collected by a doctor shipped with the tester. Use of this tester enables preparation of more unified and larger specimens compared to conventional methods (using a microtome or a razor). Thus, it can support various research objectives involving observation of characteristics emerging in paper manufacturing such as formation, condition of wire marks, fiber length distribution across layers of paper and filler distribution as well as penetration of printing ink. If the physical characteristics of paper are likely to be affected by water penetration into the specimen, the adhesive tape method can be employed to conduct similar delamination tests.



<b>Specimen Size</b>	90mm wide, 280mm long
<b>Cooling Roll</b>	110mm in diameter, 140mm long
<b>Material</b>	stainless steel SUS-304
<b>Pressurizing</b>	by spring 3 to 8kg (total pressure)
<b>Circumferential Speed</b>	1.9 to 18.5m/min. (stepless)
<b>Surface Temperature</b>	-18°C (minimum)
<b>Refrigerator</b>	air-cooled small refrigerator
<b>Power Source</b>	three-phase 200/220VAC 50/60Hz 15A
<b>Outer Dimentions</b>	740×1,000×1,180mm
<b>Instrument Weight</b>	310kg
<b>Referential Standard</b>	TAPPI UM576
<b>Referential</b>	(1) TAPPI 47 (5) P.254 to 263 J.Psrker and W.C. Mih (2) P.T.J. March 15, ' 79 P.43 to 46 G.G. Maltenfort (3) H. Tanaka, Technological Research Institute, Technological trend and development of neutral paper making

Sold & serviced by:

**OpTest Equipment Inc.**

[www.optest.com](http://www.optest.com) - [sales@optest.com](mailto:sales@optest.com) - +1-613-632-5169