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纸与纸制品检测设备行业领导者

中建材智能自动化研究院有限公司
(原杭州轻通博科自动化技术有限公司)

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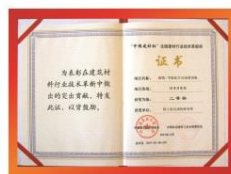
公司简介

中建材智能自动化研究院有限公司是一所集科研、开发、生产、经营为一体的综合性科研机构，隶属国资委直属中央企业——中国建材集团有限公司。围绕凯盛玻璃、凯盛光伏、凯盛材料、凯盛装备、凯盛工程五大领域专业研发制造工厂自动化生产设备，智能制造系统、检测仪器、监测设备、专用装备以及信息技术领域的软件开发和系统集成。产品及设备的应用涵盖了轻工造纸、建材行业、市政工程、热电电力、电子行业、光热光伏、新能源等多个行业。

研究院拥有一支高素质、高水平的科技人才队伍，与国内科研院所、高等院校及企业建立了广泛的科技交流与合作，并积极承担国家重点科技攻关项目及省部级重大攻关项目的设计和研发，以先进的技术实用的成果服务于新老客户。研究院拥有的50余项自主创新科研成果荣获国家级新产品、省部级科技进步奖、国家专利等。**在核心业务领域集中资源、为不同行业的客户提供高质量、高性价比的产品及解决方案。**

公司已通过ISO9001质量管理体系认证和ISO14001环境管理体系认证

公司荣誉





YQ-Z-48A型 白度颜色测定仪
YQ-Z-48A Type Color Tester

本仪器符合GB/T3978、GB/T7973、GB/T7974、GB/T7975、ISO2470等标准中有关规定,适用于测定物体的白度、黄度、颜色色差,纸张的不透明度、透明度、光散射系数、荧光白度、光吸收系数和油墨吸收值。
To test whiteness, yellowness, color and color difference of objects, and opacity, transparency, light scattering coefficient, light absorption coefficient and ink absorption value of paper.

规格参数 Specifications and parameters:

- 模拟D65光源照明。采用CIE1964补充色度系统和CIE1976(L*a*b)色空间色差公式。
- 采用d/0照明观测几何条件。漫射球直径150mm,测试空直径25mm, Adopt d/0 illuminating geometrical viewing conditions. Diameter of the diffuse globe is 150 mm and diameter of the testing hole is 25 mm.
- 测量重复性(Repeatability of test): $\delta(Y10) < 0.1$, $\delta(x10, y10) < 0.001$;
- 准确度(Accuracy): $\Delta Y10 < 1.0$; $\Delta x10(Y10) < 0.01$;
- 试样尺寸(Sample size):
测试平面(testing plane): $\phi \geq 30\text{mm}$,
厚度(thickness) $\leq 40\text{mm}$.



YQ-Z-48B型 白度测定仪
YQ-Z-48B Type Whiteness Tester

本仪器符合GB/T3978、GB/T7973、GB/T7974、ISO2470等标准中有关规定,适用于测定物体的白度、荧光白度,纸张的不透明度、透明度、光散射系数、光吸收系数。

It is applied to test ISO brightness of objects.

规格参数 Specifications and parameters:

- 零点漂移(Zero drift): $\leq 0.1\%$;
- 示值漂移(Indication drift): $\leq 0.1\%$;
- 示值误差(Indication error): $\leq 0.5\%$;
- 重复性误差(Repetitive error): $\leq 0.1\%$;
- 镜面反射误差(Specular reflectance error): $\leq 0.1\%$;
- 试样尺寸(Sample size):
测试平面(Testing plane): $\phi \geq 30\text{mm}$,
厚度(Thickness) $\leq 40\text{mm}$.



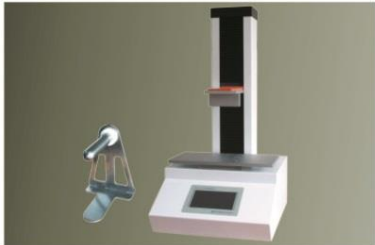
YQ-Z-48B型 白度测定仪(触摸屏、液晶屏)
YQ-Z-48B Type Whiteness Tester

本仪器符合GB/T3978、GB/T7973、GB/T7974、ISO2470等标准中有关规定,适用于测定物体的白度、荧光白度,纸张的不透明度、透明度、光散射系数、光吸收系数。

It is applied to test ISO brightness of objects.

规格参数 Specifications and parameters:

- 零点漂移(Zero drift): $\leq 0.1\%$;
- 示值漂移(Indication drift): $\leq 0.1\%$;
- 示值误差(Indication error): $\leq 0.5\%$;
- 重复性误差(Repetitive error): $\leq 0.1\%$;
- 镜面反射误差(Specular reflectance error): $\leq 0.1\%$;
- 试样尺寸(Sample size):
测试平面(Testing plane): $\phi \geq 30\text{mm}$,
厚度(Thickness) $\leq 40\text{mm}$.



BMY-50型 生活用纸饱满度仪
BMY-50 Type Tissue Paper Plumpness Tester

本仪器是测量生活用纸成品包装可压缩性的专用仪器。本仪器可分别测试平张纸包装和卷筒纸包装。

This is a special instrument for measuring the compressibility of finished tissue packaging. Which is applied to test flat paper packaging and roll paper packaging.

规格参数 Specifications and parameters:

- 最大测试压力(Maximum test pressure): 100 N;
- 测试速度(Test speed): (1~400) mm/min;
- 最大试样重量(Maximum sample weight): 3 kg;
- 最大压板尺寸(Maximum platen size):
400 cm x 200 cm;
- 通讯输出(Communication output):
以太网(Ethernet)、串口(serial port);



TTM系列电脑抗张试验机
TTM Series Vertical Tensile Tester

本仪器符合ISO1924.2、GB/T12914、QB/T1053、GB/T22898等标准中有关规定,适用于纸与纸板及包装材料的抗张力、抗张强度、伸长率、伸长率、裂断长、抗张能量吸收等项目的测量。

It is applied to test tensile strength, elongation, extensibility, breaking length and tensile absorbed energy index of paper, board and packaging materials.

规格参数 Specifications and parameters:

- 精度(Accuracy): $\pm 1\%$;
- 测量范围(Measuring range): 0.1~30N(生活用纸专用) / 1~100N / 3~300N / 5~500N;
- 测试速度:(Adjustment range of speed):
(5~600) mm/min;
- 夹头间距(Chuck spacing): 20~200mm(可调);
- 试样宽度(Sample width): 15mm (25mm, 50mm);
- 带实时曲线显示,可与上位机连接。



WZL-B型 卧式电脑拉力机
WZL-B Type Horizontal Tensile Tester

本仪器符合ISO1924.2、GB/T12914、QB/T1053、GB/T22898、GB/T24328.3等标准中有关规定,适用于纸与纸板及包装材料的抗张力、抗张强度、伸长率、伸长率、裂断长、抗张能量吸收等项目的测量。

It is applied to test tensile strength, elongation, extensibility, breaking length and tensile absorbed energy index of paper, board and packaging materials.

规格参数 Specifications and parameters:

- 精度(Accuracy): $\pm 1\%$;
- 测量范围(Measuring range): (0.1~30) N(生活用纸专用) / 1~100N / 3~300N / 5~500N;
- 测试速度:(Adjustment range of speed):
(5~400) mm/min;
- 夹头间距(Chuck spacing): 20~200mm(可调);
- 试样宽度(Sample width): 15mm (25mm, 50mm);
- 带实时曲线显示,可与上位机连接。



WZL-C型 卧式电脑拉力机(气动)
WZL-C Type Horizontal Tensile Tester(Pneumatic method)

本仪器符合ISO1924.2、GB/T12914、QB/T1053、GB/T22898等标准中有关规定,适用于纸与纸板及包装材料的抗张力、抗张强度、伸长率、伸长率、裂断长、抗张能量吸收等项目的测量。

It is applied to test tensile strength, elongation, extensibility, breaking length and tensile absorbed energy index of paper, board and packaging materials.

规格参数 Specifications and parameters:

- 精度(Accuracy): $\pm 1\%$;
- 测量范围(Measuring range): (0.1~30) N(生活用纸专用) / 1~100N / 3~300N / 5~500N;
- 测试速度:(Adjustment range of speed):
(5~400) mm/min;
- 夹头间距(Chuck spacing): 20~200mm(可调);
- 试样宽度(Sample width): 15mm (25mm, 50mm);
- 带实时曲线显示,可与上位机连接。



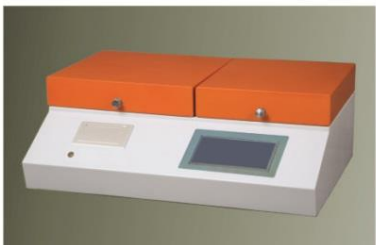
GDH-10型 高精度生活用纸厚度仪
Thickness meter for tissue paper with high precision

本仪器符合GB/T24328.2等国家标准,是卫生纸、餐巾纸等生活用纸产品的专用厚度测试仪。

It is applied to test thickness of toilet (sanitary) paper, napkin paper and other tissue paper products.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (0~10) mm;
- 分度值(Graduation): 0.001 mm;
- 接触压力(Contact pressure): (2±0.5) Kpa;
- 接触面积(Contact area): (10±0.2) cm².



RRY-1000型 柔软度测定仪
RRY-1000 Type Softness Tester

本产品符合GB/T8942、QB/T1060标准的相关规定,是一种模拟手感柔软程度的测试仪器,主要用于生活用纸、烟草薄片、纤维制品等材料的柔软度测定。

It is applied to test the softness of sheet flexible materials, such as tissue paper and fiber fabric.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (10~1000) mN;
- 分辨率(Resolution capacity): 1 mN;
- 示值误差(Value error): $\pm 1\%$;
- 试样台狭缝宽度(Platform slit width) (四档):
5mm, 6.35mm, 10mm, 20mm;
- 各档宽度误差(Width accuracy): $\pm 0.05\text{mm}$;
- 试样台狭缝两边平行度误差(Platform slit parallel error): $\leq 0.05\text{mm}$.



BSM-20型 球形耐破度测定仪
BSM-20 Type Spherical Bursting strength Meter

本产品符合GB/T24328.7《卫生纸及其制品第7部分:球形耐破度的测定》标准的相关规定,用于生活用纸耐破度测定。

It is used to test bursting strength of tissue paper.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): 20.00 N
- 最小分辨率(Minimum resolution): 0.01 N
- 测量精度(Measuring accuracy): $\pm 1\%$
- 测量环内径(Internal diameter of measuring ring):
(50.0 ± 0.2) mm
- 测量球直径(Diameter of measuring ring):
(16.00 ± 0.05) mm
- 测量球穿破试样速率(Speed rate of measuring ball through the sample): (125 ± 5) mm/min



DFY-180型 掉粉率测定仪
DFY-180 Type Powder Drop Rate Measuring Instrument

本仪器符合GB/T20810标准中有关要求,适用于卫生纸及卫生原纸掉粉率的测定,可模拟卫生纸在抖动情况下纸毛和纸粉脱落情况。

This instrument meets the relevant requirements of GB/T 20810 standard and is suitable for the determination of flour drop rate of toilet paper and toilet base paper. It can simulate the flour and flour drop of toilet paper under the condition of shaking.

规格参数 Specifications and parameters:

- 往复频率: (180 ± 10) 次/min
- 测试时间: 2 min
- 往复行程: (100 ± 1) mm
- 噪音: (65 ± 5) dB
- 电源: 220 V/50 Hz
- 触摸屏控制



XSY-200型 纸张吸水率测定仪
XSY-200 Water absorption tester (Klemm method)

本产品为克列姆式吸水仪,符合GB/T461.1、ISO 8787标准的相关规定,是测量纸张毛细吸水高度的专用仪器,不适用于10min内毛细吸水高度小于5mm的纸和纸板。

It is used to test capillary height of the paper, it is not applied for the paper and board which capillary height is less than 5mm in 10min.

规格参数 Specifications and parameters:

- 吸水高度测量范围(Measuring range): (0~200) mm;
- 纸张厚度(Sample thickness): $\leq 1.5\text{mm}$.



BST型 平滑度测定仪
BST Type Smoothness Tester

本仪器为别克式平滑度仪符合ISO 5627、GB/T456、QB/T1665等标准中有关规定，适用于纸和纸板平滑度的测定。

It is applied to test smooth surface of paper and board.

规格参数 Specifications and parameters:

- 测量范围(Measuring range) : (1~9999) s;
- 测试面积(Measuring area) : (10±0.05) cm²;
- 接触压力(Contact pressure) : (100±2) kPa;
- 显示(Display) : 液晶, 点阵式菜单 (LCD in Chinese, dot-matrix menu).



IBT型 层间结合强度测定仪
IBT Type Internal Bond Impact Tester

本仪器符合GB/T 26203《纸和纸板 内结合强度的测定(Scott)》，主要用于测试纸和纸板层间结合强度。反映纸和纸板抵抗层间分离的能力，即纸和纸板内部粘粘强度。

This instrument conforms to GB/T 26203 "Measurement of the bonding strength between paper and cardboard" (Scott). It is mainly used to test the bonding strength between paper and cardboard. It reflects the ability of paper and cardboard to resist interlayer separation.

规格参数 Specifications and parameters:

- 试样尺寸(Size of sample) : 25.4x25.4mm;
- 冲击角度(Punch angle) : 90°;
- 分辨率(Resolution) : 0.1J/m²;
- 测量范围(Measuring range) :
A档 : (20~500) J/m² ;
B档 : (500~1000) J/m² ;
- 示值误差(Accuracy) :
A档 : ±1J / m² ;
B档 : ±2J / m² .



WTD-1000型 卧式挺度测定仪
WTD-1000 Type Electronic Bending Stiffness Tester

本产品符合QB/T1051、ISO5628、ISO2493标准的相关规定，适用于纸张、纸板及各种薄片形材料的抗弯曲强度的测定。

It is used to test bending stiffness degree of paper, board and other kinds of sheet-shaped material.

规格参数 Specifications and parameters:

- 测量范围(Measuring range) : (20~1000)mN ;
- 示值误差(Accuracy) : ±1% ;
- 弯曲长度(Bending length) : 10mm, 25mm, 50mm ;
- 弯曲角度(Bending angle) : 7.5° ±0.1°
15° ±0.1° ;
- 弯曲速率(Bending speed) : 300° / min ±30° / min.



SLY-1000型 撕裂度测定仪
Tearing Strength Tester(Elmendorf Method)

本产品为爱列门道尔夫式撕裂度测定仪，符合GB/T 455、QB / T1050、ISO1974标准，适用于各类纸张的撕裂强度测定。

It is used to test tearing strength of various types of paper

规格参数 Specifications and parameters:

- 测量范围(Measuring range) : (20~1000)mN;
- 示值误差(Accuracy) : ± 1% .



GDH-4型 高精度纸张厚度仪
Thickness meter for tissue paper with high precision

本仪器符合GB/T451.3、QB/T1055等国家标准，是纸与纸板厚度测量的专用测试仪器。

It is applied to test thickness of paper and cardboard.

规格参数 Specifications and parameters:

- 测量范围 (Measuring range) : (0~4) mm ;
- 分度值 (Graduation) : 0.001 mm ;
- 接触压力 (Contact pressure) : (100±10) Kpa ;
- 接触面积 (Contact area) : (2.00±0.05) cm² .



HDY-12型 生活用纸厚度仪
HDY-12Type Thickness meter for tissue paper

本仪器符合 GB / T24328 . 2 等国家标准，是卫生纸、餐巾纸等生活用纸产品的专用厚度测试仪。

It is applied to test thickness of toilet (sanitary) paper, napkin paper and other tissue paper products.

规格参数 Specifications and parameters:

- 测量范围 (Measuring range) : (0~12)mm ;
- 分度值 (Graduation) : 0.01/0.001mm ;
- 接触压力 (Contact pressure) : (2±0.5)KPa ;
- 接触面积 (Contact area) : (10±0.2)cm² .



HDY-18型 瓦楞纸板厚度仪
HDY-18Type Thickness meter for corrugated paper

本仪器符合GB / T6547、QB/T1055等国家标准，是瓦楞纸板厚度测量的专用测试仪器。

It is applied to test thickness of corrugated board.

规格参数 Specifications and parameters:

- 测量范围 (Measuring range) : (0~18)mm ;
- 分度值 (Graduation) : 0.01/0.001mm ;
- 接触压力 (Contact pressure) : (20±0.5)KPa ;
- 接触面积 (Contact area) : (10±0.2)cm² .



PT/ZH系列 纸张厚度仪
PT/ZH Series Paper Thickness Meter

本系列仪器符合ISO 534、ISO3034、GB/T451.3、QB / T1055 等标准中适用于纸张、纸板及其他片状材料、瓦楞纸板的厚度测定。

It is applied to test thickness of paper, board, corrugated cardboard and other sheet materials .

规格参数 Specifications and parameters:

- 测量范围(Measuring range) : (0~4)mm ;
- 分度值(Graduation) : 0.01mm / 0.001mm ;
- 接触压力(Contact pressure) : (100±10)kPa ;
- 接触面积(Contact area) : (200±5)mm² .



CAY-250型 尘埃度测定仪
CAY-250Type Dirtiness Tester

本产品符合GB/T1541标准的相关规定，适用于纸张和纸板尘埃度的测定。

It is used to test dirtiness of paper and board.

规格参数 Specifications and parameters:

- 光源 (Light source) : 20W 日光灯 ;
- 照射角 (Irradiation angle) : 60° ;
- 测试台尺寸 (Work dimension) : (270x270)mm.



TQY-10 型 纸张透气度测定仪
Air Permeance Tester(Schopper Method)

本产品为肖伯尔式透气度测定仪，符合GB/T458、GB / T22901、QB / T1667、ISO 5636/1、ISO5636/2标准的相关规定，适用于测量具有中等透气性能的各种纸张的透气性，如水泥袋纸、纸袋纸、食品包装纸、医用包装纸等产品。

It is used to test a variety of medium permeability of paper, such as cement bag paper, sack, food packaging, medical packaging and other products.

规格参数 Specifications and parameters:

- 测量范围(Measuring range) : (10⁻²~10³)µm / (Pa·s);
- 测试面积(Measuring area) : (10.0±0.2)cm² ;
- 试验压差(Pressure difference) : (1.00±0.01) kPa.



SDJ-100/YDJ-100 型 纸浆打浆度测定仪
SDJ-100/YDJ-100 Type Beating Degree Tester

本仪器符合ISO5267.1、GB/T3332、QB/T1054等标准中有关规定，适用于检测稀释纸浆悬浮液滤水能力，即打浆度(叩解度)的测定。

It is applied to measure the rate of drainage of dilute pulp suspension, just the measurement of pulp degree in terms of the Schopper-Riegler(SR) value.

规格参数 Specifications and parameters:

- 测量范围(Measuring range) : (1 ~ 100)SR;
- 示数量筒分度值(The division of reading cylinder) : 1SR;
- 溢流口泄水时间(Emptying time of overflow) : (149±1)s;
- 剩余体积(Residual volume) : (7.5~8) ml.



WG-2A/WG-2B型 数控电动离心机
WG-2A/WG-2B Type NC Electric Centrifuge

WG-2A/WG-2B是一种专用离心机，广泛适用于造纸、印染等行业的试验室或车间现场打浆度试验的试样制备，浆料浓度测定及实验室洗涤浆料等。

WG-2A/WG-2B is a specific centrifuge, it is widely used in laboratories of papermaking, printing and dyeing industry, etc. And it is used to dehydrate pulp, with the beating degree tester, etc.

规格参数 Specifications and parameters:

- 脱水重量(Dehydration weigh) : (100~500)g ;
- 脱水速度(Dehydrating barrel speed) :
WG-2A : 2800r/min ;
WG-2B : 1400r/min ;
- 脱水时间(Dehydration time) : (0.5~5)min.



GM 型光泽度测定仪
GM Type Glossiness Tester

本仪器符合GB/T8941、GB/T9754、ISO2813等标准中有关规定，适用于测定物体表面的光泽度。

It is applied to test surface gloss in papermaking, printing, paints, coating industry.

规格参数 Specifications and parameters:

- D65照明和CIE明视觉函数，光度线性 (D65 illumination and CIE photopic vision function, photometric linearity): 0.3%;
- 测量范围(Measuring range): 1~999.9 (光泽度单位)(glossiness units)
- 测量重复性(Repeatability of test): 0.5光泽度单位 (Glossiness units);
- 准确度(Accuracy): 1光泽度单位(glossiness units);
- 试样尺寸(长x宽)Sample size: (length x width): 50mmx50mm.



PS 系列频闪仪
PS Series Portable Stroboscope

PS 系列便携式频闪仪(频闪静像仪)是根据闪光频率与运动物体的图案同步时，人眼视觉暂留而产生的相对静止的原理制成的，可直接观察照射到的运动对象，适用于印刷、造纸、纺织、医药、轻工、机械加工等行业。

PS Series Portable stroboscope is used to make a cyclically moving object appear to be slow-moving or stationary. It is used in printing, papermaking, textile, medicine, light industry, machinery processing and other industries.

规格参数 Specifications and parameters

- 电源(Power supply): 交流(AC)220V ± 10%, 50Hz; 交流(AC)110V ± 10%, 50Hz;
- 内触发频率范围(Range of within trigger frequency): (50 ~ 12000) times/min;
- 外触发频率范围(Range of external trigger frequency): (50 ~ 12000) times/min;



LCI-1型铅芯浓度仪
LCI-1 Type Lead Concentration

本仪器用于测定铅笔芯浓度，可测定铅笔芯在指定样纸上涂划痕迹的反射光密度

The instrument is applied to test the concentration of the pencil lead. It measures reflected light density of lead-marks on the designated paper.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): $0 \leq d$ (reflected light density) ≤ 2 ;
- 试样尺寸(Sample size): 边长25mm正方形 (square: 25mmx25mm);
- 测量孔(Measuring holes): 直径22mm圆形 (round, 22mm diameter);
- 重复性(Repeatability): 亮度因数误差小于0.1% (error of brightness factor is less than 0.1%);
- 示值误差(Indication error): 亮度因数误差小于0.3% (error of brightness factor is less than 0.3%).



COBB型可勃吸收性测定仪
COBB Type Cobb Absorption Tester

本仪器符合ISO535、GB/T1540、QB/T1668等标准中有关规定，适用于纸和纸板表面吸水性的测定。

It is applied to test surface water absorption in paper and board.

规格参数 Specifications and parameters:

- 试验面积 (Test area): $(100 \pm 0.2) \text{cm}^2$;
- 试验用水 (Experimental water): $(100 \pm 5) \text{ml}$;
- 压辊长度 (Roller length): $(200 \pm 0.5) \text{mm}$;
- 压辊质量 (Roller quality): $(10 \pm 0.5) \text{kg}$.



DHD-4型纸张电动厚度仪
DHD-4 Electric Paper Thickness Tester

本仪器符合GB/T451.3、QB/T1055等国家标准，是纸与纸板厚度测量的专用测试仪器。

This instrument conforms to GB/T451.3, QB/T1055 and other national standards, which is applied to test the thickness of paper and cardboard.

规格参数 Specifications and parameters:

- 规格参数 Specifications and parameters:
- 测量范围 (Measuring range): $(0 \sim 4) \text{mm}$;
- 分度值 (Graduation): 0.001mm;
- 接触压力 (Contact pressure): $(100 \pm 10) \text{kPa}$;
- 接触面积 (Contact area): $(200 \pm 5) \text{mm}^2$



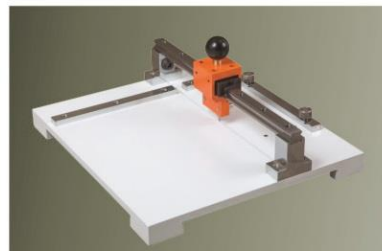
SP-152型环压取样器
SP-152 Type RCT Cutter

本取样器符合QB/T1671标准中有关规定，是切取纸和纸板环压强度专用取样工具。

It is used to cut samples which used to do RCT of paper or board and do FCT of corrugating medium.

规格参数 Specifications and parameters:

- 取样宽度(Sampling width): $(12.7 \pm 0.05) \text{mm}$;
- 取样长度(Sampling length): $(152 \pm 0.2) \text{mm}$;
- 取样厚度(Sampling thickness): $(0.1 \sim 1.0) \text{mm}$.



CB-25型边压(粘合)取样器
CB-25 Type ECT (PAT) Cutter

本取样器符合QB/T1671标准中有关规定，用于切取瓦楞纸板边压强度试验、粘合强度试验所需的试样。

It is used to cut the samples needed in ECT and PAT measurement of corrugated cardboard.

规格参数 Specifications and parameters:

- 取样尺寸(Sampling size): 25mmx100mm(边压试样ECT); 25mmx80mm(100mm)(粘合试样PAT);
- 取样尺寸误差(Sampling size error): $\pm 0.5 \text{mm}$.



TDJ-38型挺度取样器
TDJ-38 Type Stiffness Cutter

本取样器适用于切取纸板挺度试验所需试样，是纸板挺度试验必备的专用取样器。

Suitable paperboard stiffness test dedicated sampler.

规格参数 Specifications and parameters:

- 取样宽度 (Sampling width): $(38.0 \pm 0.2) \text{mm}$;
- 取样长度 (Sampling length): 70mm或80mm;
- 试样两长边平行度 (Parallelism): $< 0.1 \text{mm}$;
- 取样厚度 (Sampling thickness): $(0.1 \sim 0.6) \text{mm}$.



DJ-15/SP-300型标准切纸刀
DJ-15/SP-300 Type Paper Cutter

本取样器符合QB/T1671标准中有关规定，用于切取15mm宽度的试样，以满足于纸与纸板抗张试验、耐折度试验、短距压缩试验等项目的试样制备。

It is used to cut 15mm width of samples, and to meet the sample preparation of paper and cardboard in tensile test, folding test, short-range compression test.

规格参数 Specifications and parameters:

- 取样宽度(Sampling width): $(15 \pm 0.1) \text{mm}$;
- 取样最大长度(Maximum sampling length): 360mm.



KT-300型可调距切纸刀
KT-300 Type Adjustable Paper Cutter

本取样器符合QB/T1671标准中有关规定，用于切取各种尺寸规格的试样，以满足纸张、纸板及其他薄页材料各种试验所需的试样制备。

It is used to cut various sizes of samples, and to meet the required sample preparation of paper, cardboard and other tissue materials tests.

规格参数 Specifications and parameters:

- 取样最大尺寸(Maximum sampling size): 300mmx360mm;
- 取样宽度误差(Width sampling error): $\pm 0.15 \text{mm}$.



DL-125型可勃吸收取样器
DL-125 Type Cobb Absorption Cutter

本取样器符合QB/T1671标准规定，用于快速、准确地切取标准尺寸的试样，是纸张、纸板吸水试验及透油性测定标准试样的专用取样器具。提供冲压式和简易式两种型号选择。

It is used for quickly and accurately cut standard sample on the COBB absorption measurement.

规格参数 Specifications and parameters:

- 取样尺寸(Sampling Dimension): $\Phi 125 \text{mm}$;
- 取样尺寸误差(Sampling size error): $\pm 0.2 \text{mm}$;
- 取样厚度(Sampling thickness): $(0.1 \sim 1.0) \text{mm}$.



DL-100型圆形定量取样器
DL-100 Type Substance Cutter

本取样器符合QB/T1671标准规定，用于快速、准确地切取标准面积的试样，是纸张、纸板及其他薄页材料定量测定试样的专用取样器具。提供冲压式和简易式两种型号选择。

It is used for quickly and accurately cut standard sample on the quantitative measurement.

规格参数 Specifications and parameters:

- 取样面积(Sample dimension): 100cm^2 ;
- 取样面积误差(Sampling area error): $\pm 0.35 \text{cm}^2$;
- 取样厚度(Sampling thickness): $(0.1 \sim 1.0) \text{mm}$.



IGT型 印刷表面强度测定仪
IGT Type Printability Tester

仪器符合GB/T22365标准是用来检测涂布纸和非涂布纸表面强度的一款专用仪器，是印刷类纸张造纸厂、印刷厂和油墨厂经常使用的仪器，用力控制印刷的适性性能。

规格参数 Specifications and parameters:
(适用于干拉毛表面强度的测定)

- 测试面积: $10 \pm 0.05\text{cm}^2$
- 准确度: 0.1s
- 测量范围: (20~350) cm/s
- 摆锤仰角: 165°
- 印刷盘: $\phi 65\text{mm} \times 10\text{mm}$, $\phi 65\text{mm} \times 20\text{mm}$.
- 摆速度: (20~125) cm/s
- 印刷压力: 0~700N



MCJ-43型 摩擦试验机
MCJ-43 Type Friction testing machine

本仪器符合GB7705、GB7706、QB/T3007等国家标准，广泛用于造纸、印刷等行业、印刷油墨层的耐摩擦性试样试验。

It is applied to test durability of printing ink layer and related products surface layer.

规格参数 Specifications and parameters:

- 摩擦速度 (Speed): $(43 \pm 1)\text{次}/\text{min}$ (可调);
- 摩擦行程 (Distance): 60mm.



DLJ-1500型 单翼跌落试验机
DLJ-1500 Type Single Wing Drop Tester

本机专用于测试产品包装受到坠落之受损情况，及评估运输搬运过程中包装箱耐冲击强度。执行标准: ISO2248, JIS Z0202-87, GB/T4857.5-92.

It is applied to test products packaged by the fall of the damage and to assess the transport impact resistance strength of handling procedure.

规格参数 Specifications and parameters:

- 跌落高度 (Drop height): 300mm~1500mm;
- 显示方式 (Display method): 数显高度显示器 Digital height indicator (Optional);
- 试件最大重量 (Specimen maximum weight): 60kg;
- 试件最大尺寸 (Specimen maximum size): $(L \times W \times H)$ 1000 x 700 x 1000mm;
- 跌落面板面积 (Dmp panel area): $(L \times W)$ 1700 x 1400mm;
- 托臂尺寸 (Arm size): 290x240x8mm;
- 跌落误差 (Drop error): $\pm 10\text{mm}$;
- 跌落平面误差 (Fell flat error): $< 1^\circ$.



CWY型 槽纹仪
CWY Type Vertical Fluter

本产品用于瓦楞芯纸进行瓦楞芯平压(CMT)和瓦楞竖压(CCT)测试时制备样品。瓦楞芯纸起楞后配合电脑压缩试验仪可测定瓦楞芯原纸的平压强度(CMT)和竖压强度(CCT)。执行标准QB1061、GB/T2679.6、ISO7263、TAPPI T809

It is applied to make the sample for CMT and CCT of corrugating medium paper. It is used to compact standard corrugated waveform (i.e. corrugated medium paper laboratory fluting).

规格参数 Specifications and parameters:

- 工作转速 (Working speed): 4.5r/min;
- 温度显示分辨率 (Temperature display resolution): 1°C ;
- 温度测量精度 (Measured precision of temperature): $0.5\text{级} \pm 1\text{字}$;
- 工作温度可调范围 (Working temperature range): 室温 (room temperature) ~ 200°C ;
- 工作压力可调范围 (Working pressure range): $(49 \sim 108)\text{N}$;
- 标准工作温度 (Standard working temperature): 175°C ;
- 弹簧张力 (Spring tension): 100N.



SFY105型 快速水分测定仪
SFY 105 Type Rapid Moisture Meter

本仪器广泛应用于一切需要快速测定水分的行业，如纸张、食品、饲料等实验室和生产过程中。同时满足固体、颗粒、粉末、胶状体及液体含水率的测定要求。

It is a latest rapid moisture testing instrument which widely used to test moisture of all the industries.

规格参数 Specifications and parameters:

- 规格 (Weighting range): 110g/5mg;
- 秤盘尺寸 (Scale size): $\Phi 90\text{mm}$;
- 加热单元 (Warming unit): 卤素灯-T-01;
- 温度量程 (Temperature range): $40^\circ\text{C} \sim 199^\circ\text{C}$;
- 温度可调 (Temperature adjustment): 1°C ;
- 水分精度 (Moisture precision): 0.1%;
- 水分量程 (Moisture range): 0.00%~100.00%;
- 水分可读性 (Moisture readability): 0.10%;
- 干重量程 (Dry weight range): 100.00%~0.00%;
- 干重可读性 (Dry weight readability): 0.10%。



JA/LT系列 电子天平
JA/LT Series Electronic Balance

本产品广泛用于纸张定量称重、表面吸水性检测。

Test quantitative weighing and surface absorption of paper.

规格参数 Specifications and parameters:

- 称量范围 (Weighing range): 0-100g/0-120g/0-200g/0-220g/0-300g 等;
- 读数精度 (Precision): 0.1mg/1mg/1g 等;
- 秤盘尺寸 (Size): $\Phi 80\text{mm}$ $\Phi 110\text{mm}$;
- 输出接口 (Output interface): RS232C.



GZX/101系列 电热鼓风干燥箱
GZX/101 Series Drying oven of constant temperature

电热鼓风干燥箱(热空气消毒箱)是供造纸、工矿企业、化验室、科研单位等干燥、烘焙、熔蜡、灭菌。

Drying, roasting, melting wax and sterilization of Paper, industrial and mining enterprises, laboratories, research institutes and so on.

规格参数 Specifications and parameters:

- 产品类型 (Type): 微电脑普通型 (Microcomputer normal type);
- 电源电压 (Supply voltage): AC 220V $\pm 10\%$ / 50Hz $\pm 2\%$;
- 控温范围 (Range of Temperature Control): 室温 (Room temperature): $+5^\circ\text{C} \sim 250^\circ\text{C}$;
- 温度分辨率 (Temperature Resolution): 1°C ;
- 温度波动度 (Temperature Fluctuation): $\pm 1^\circ\text{C}$;
- 温度均匀度 (Temperature Uniformity): $\pm 1^\circ\text{C}$;
- 载物托架 (Bracket): 2块;
- 定时范围 (Time range): 0~999分钟。



WFH系列 三用紫外分析仪
WFH Series ultraviolet analyzer

本产品主要用于纸、纸板及纸浆中荧光物质的检测。是食品包装纸QS认证实验室必备仪器。

Test fluorescent substance of paper, paperboard and pulp.

规格参数 Specifications and parameters:

- 波长 (Wavelength): 254nm, 365nm;
- 紫外滤色片 (UV filter): 200x50mm;
- 电源 (Power supply): AC 220V $\pm 10\%$ 50Hz
- 重量 (Weight): 3.0kg.



环压试验中心盘(配件: 粘强度试验架、平压取样器)
RCT, PAT and FCT Accessories

RC-13环压试验中心盘(图1) 本器具符合GB/T2679.8标准，是测定纸和纸板环压强度专用的辅助器具。

FQ-AC粘强度试验架(图2) 本器具符合GB/T6544、GB/T6548标准，是瓦楞纸粘强度试验(PAT)的专用辅助器具。

规格参数 Specifications and parameters:
1. 适用楞型: A楞、C楞、B楞、E楞;
2. 插针直径: $\Phi 3\text{mm}$ (A楞型), $\Phi 2\text{mm}$ (B楞型), $\Phi 3\text{mm}$ (C楞型), $\Phi 1\text{mm}$ (E楞型)。

PY-645/322平压取样器(图3) 本取样器符合QB/T1671标准，是瓦楞纸平压强度试验(FCT)的专用取样器具。

规格参数 Specifications and parameters:

- 1. 取样面积 (Sampling area): 64.5cm²(WPD645型); 32.2cm²(WPD322型)。



PHS系列 酸度计
PHS Series PH Meter

本产品主要用于纸、纸板和纸浆中的PH值的检测。

Test PH value of paper, paperboard and pulp.

规格参数 Specifications and parameters:

- 仪器级别 (level): 0.01级;
- 测量范围 (Measuring range): pH: (0.00~14.00)pH mV: (-1999~1999)mV;
- 分辨率 (Resolution): pH: 0.01pH mV: 1mV
- 基本误差 (Basic error): pH: $\pm 0.01\text{pH}$ mV: $\pm 0.1\% \text{FS}$;
- 稳定性 (Stability): ($\pm 0.01\text{pH} \pm 1\text{个字}$) / 3h.



NDJ系列 粘度计
NDJ Series Visco

本产品广泛用于纸张和纸化涂料的粘度检测。

Test chemical coating viscosity of paper and paperboard.

规格参数 Specifications and parameters:

- 测量范围 (Measuring range): 10~10万map.s;
- 转速 (Speed): 6, 12, 30, 60 Spin/minute;
- 测量误差 (Measuring error): $\pm 5\%$ (牛顿液体) Newtonian liquids;
- 电源 (Power supply): 220V $\pm 10\%$, 50Hz.



FD-G1型 纸张水分仪
FD-G1 Moisture Analyzer

本产品用于测量纸板，纸张，瓦楞纸箱等水分。可在卷纸上测量，也可在纸垛上测定纸张水分。

Test moisture content of paper, paperboard and Corrugated boxes.

规格参数 Specifications and parameters:

- 测定方式 (Measurement methods): 高频电磁波感应式 High-frequency electromagnetic induction;
- 测量范围 (Measuring range): 0~40%;
- 分辨率 (Resolution): 0.1%;
- 温度补偿 (Temperature compensation): $-10^\circ\text{C} \sim +100^\circ\text{C}$;
- 显示 (Display): 3% LCD液晶数字显示 LCD digital display;
- 电源 (Power supply): 9V (6F22型) 电池一节。



CT-5000B型 整箱抗压试验机
CT-5000B Type Box Compression Tester

本仪器符合ISO2872、ISO2874、GB/T4857.3、GB/T4857.4、QB/T1048等标准中有关规定，适用于测试各类包装纸箱、钙塑瓦楞箱等包装容器的抗压强度和堆码强度。

It is applied to test the compressive strength and stacking strength of packaging containers, such as various packaging cartons and calcium-plastic corrugated boxes.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (1~30)kN;
- 压板面积(Pressure board area): (800x800)mm / (1000x1000)mm;
- 最大工作行程(Maximum working stroke): 1000 mm;
- 试验速度(Test speed): 10mm / min;
- 速度调节范围(Adjustment range of speed): (5~120)mm / min;
- 带实时曲线显示，可与上位机连接。



CT-5000C型 整箱抗压试验机
CT-5000C Type Box Compression Tester

本仪器符合ISO2872、ISO2874、GB/T4857.3、GB/T4857.4、QB/T1048等标准中有关规定，适用于测试各类包装纸箱、钙塑瓦楞箱等包装容器的抗压强度和堆码强度。

It is applied to test the compressive strength and stacking strength of packaging containers, such as various packaging cartons and calcium-plastic corrugated boxes.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (1~50)kN;
- 压板面积(Pressure board area): (1200x1200)mm / (1500x1500)mm;
- 最大工作行程(Maximum working stroke): 1500 mm;
- 试验速度(Test speed): 10mm / min;
- 速度调节范围(Adjustment range of speed): (5~250)mm / min;
- 带实时曲线显示，可与上位机连接。



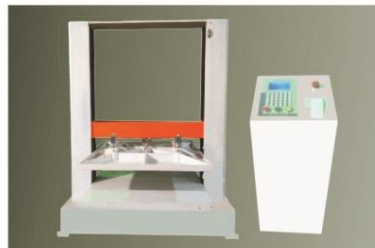
CT-5000D型 整箱抗压试验机
CT-5000D Type Box Compression Tester

本仪器符合ISO2872、ISO2874、GB/T4857.3、GB/T4857.4、QB/T1048等标准中有关规定，适用于测试各类小规格包装纸箱、钙塑瓦楞箱等包装容器的抗压强度和堆码强度。

It is applied to test the compressive strength and stacking strength of packaging containers, such as various packaging cartons and calcium-plastic corrugated boxes.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (0.2~10)kN;
- 压板面积(Pressure board area): (500x500)mm;
- 工作行程(Working stroke): 500 mm/600 mm;
- 试验速度(Test speed): 10mm / min;
- 速度调节范围(Adjustment range of speed): (5~120)mm / min;
- 带实时曲线显示，可与上位机连接。



CT-5000E型 电脑托盘抗压试验机
CT-5000E Type Box Compression Tester

本仪器符合GB/T4857.4、GB/T4857.3、GB/T4896、QB/T1048、ISO8611-1、ISO8611-3等标准中有关规定，主要用于各类瓦楞纸箱、木托盘、金属和塑料包装容器的整体抗压强度和堆码试验。

It is applied to test the overall compressive strength and do the stacking test of corrugated boxes, wooden pallets, metal and plastic packaging containers.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (0.5~100)kN;
- 示值误差(Indication error): $\pm 1\%$;
- 压板面积(Area of pressure plate): (1500x1500)mm(可定制其它尺寸);
- 工作行程(Working distance): 1500mm(可定制其它尺寸);
- 上下压板平行度(between upper plate and lower plate): <2.0mm;
- 加压速度(Pressingspeed): (5~120)mm/min;
- 回程速度(Returnspeed): (5~120)mm/min.



CT-300A型 压缩强度测定仪
CT-300A Type Crush Tester

本仪器符合ISO3035、ISO3037、ISO7263、GB/T2679.6、GB/T2679.8、GB/T6548、QB/T1048、GB/T6546等标准中有关规定，适用于纸与纸板环压强度和瓦楞纸板平压强度、边压强度、粘合强度等试验项目。

It is applied to test RCT of paper and board, FCT, ECT, PAT and CMT of corrugated board.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (60~3000)N;
- 试验速度(Test speed): (12.5 \pm 2.5)mm/min;
- 回程速度(Return speed): (10~60)mm/min;
- 压板间距(Work distance): (1~75)mm;
- 带实时曲线显示，可与上位机连接。



CT-500B型 压缩强度测定仪
CT-500B Type Crush Tester

本仪器符合ISO3035、ISO3037、ISO7263、GB/T2679.6、GB/T2679.8、GB/T6548、GB/T4857.4、GB/T21244、QB/T1048、GB/T6546等标准中有关规定，适用于各类工业纸管、化纤纸管等平压强度与变形量的检测。

It is applied to test FCT and deformation of various industrial paper tubes, chemical fiber paper tubes, etc.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (60~5000)N;
- 试验速度(Compression speed): (12.5 \pm 2.5)mm/min;
- 回程速度(Return speed): (10~60)mm/min;
- 压板间距(Work distance): (1~130)mm;
- 带实时曲线显示，可与上位机连接。



CT-500C型 压缩强度测定仪
CT-500C Type Crush Tester

本仪器是在CT-500B基础上开发的一款纸管平压强度专用检测仪器。主要适用于各类工业纸管、化纤纸管等平压强度与变形量的检测。

The instrument is a special tester to test FCT for paper tubes based on CT-500B. It is applied to test FCT and deformation of various industrial paper tubes, chemical fiber paper tubes, etc.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (0.1~10)kN;
- 试验速度(Compression speed): (1~65)mm/min;
- 回程速度(Return speed): (1~60)mm/min;
- 压板间距(Work distance): (50~200)mm;
- 带实时曲线显示，可与上位机连接。



CT-500D型 压缩强度测定仪
CT-500D Type Crush Tester

本仪器符合GB/T13024-2003、GB/T27590、GB/T27591、BB/T0016、BB/T0032等国家行业标准，可用于纸管、纸杯、纸碗和小纸盒等产品的耐压强度检测。

It is applied to test compression strength for paper tubes, paper cups, paper bowls and small carton boxes.

规格参数 Specifications and parameters:

- 最大量程(Maximum range): 10kN;
- 测量精度(Measuring precision): $\pm 1\%$;
- 压板面积(Work area): 300mmx300mm;
- 压缩速度(Compression speed): (10~65)mm/min;
- 移动速度(Moving speed): (10~120)mm/min;
- 压板间距(Work distance): (20~320)mm;
- 显示器(Display): 触摸屏Touch screen.



NZ-135型 MIT耐折度测定仪
NZ-135 Type MIT Folding Endurance Tester

本仪器符合ISO5626、GB/T457、QB/T1049等标准中有关规定，适用于测定厚度1mm以下的纸张、纸板及其他片状材料的耐折叠疲劳强度。

It is applied to measure folding endurance of the paper, board and other sheet materials which thickness is less than 1mm.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (1~99999)times;
- 折叠角度(Folding angle): $135^\circ \pm 2'$;
- 折叠速度(Folding speed): (175 \pm 10)times / min;
- 折叠头缝口规格(Folding seam specifications): 0.25mm、0.50mm、0.75mm、1.00mm.



BSM-1600型 纸张耐破度测定仪
BSM-1600 Type Paper Bursting Strength Tester

本仪器符合ISO2758、GB/T454、QB/T1057等标准中有关规定，适用于纸张及其他片状材料耐破度的测定。

It is applied to test bursting strength of paper and other sheet materials.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (70~1600)kPa;
- 加压(送油)速度>Loading (to send oil) speed: (95 \pm 5)ml / min;
- 试样夹持力(Clamping force for sample): >430kPa.



BSM-6000型 纸板耐破度测定仪
BSM-6000 Type Corrugated Board Bursting Strength Tester

本仪器符合ISO2759、GB/T1539、QB/T1057等标准中有关规定，适用于纸板、瓦楞纸板及其他片状板材耐破度的测定。

It is applied to test bursting strength of board, corrugated board and other sheet materials.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (300~6000)kPa;
- 加压(送油)速度>Loading (to send oil) speed: (170 \pm 15)ml / min;
- 试样夹持力(Clamping force for sample): >690kPa.



PRT型 纸板戳穿强度测定仪
PRT Type Puncture Resistance Tester

本仪器符合ISO3036-1975、GB/T2679.7、QB/T1664等标准中有关规定，适用于纸板、瓦楞纸板及其它片状材料戳穿强度的测定。

It is applied to test puncture resistance strength in all types of corrugated cardboard.

规格参数 Specifications and parameters:

- 测量范围(Measuring range): (1~48)J;
- 示值误差(Indication error): A档: $\pm 0.05J$;
B档: $\pm 0.1J$;
C档: $\pm 0.20J$;
D档: $\pm 0.5J$.

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<http://www.qtboke.com>



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