

DRK113 Crush Tester-Touch Screen



Product Introduction

DRK113 Crush Tester-Touch Screen is a high accuracy and intelligent instrument, designed according relevant standards. The advanced components, mating parts and single chip micro-computer are logical structured, to ensure the property and appearance. The instrument has all kinds of parameter testing, switch, adjusting, display, memory, printing functions.

Product features

- 1、Mechatronics modern design concept, compact structure, nice appearance, easy maintenance.
- 2、Adopting fixed on upper platen type, high precision weighing sensor, to ensure collecting data rapidly and accurately; high measurement accuracy.
- 3、Adopting high-speed ARM processor, high degree of automation, data acquisition is fast, automatic measurement, intelligent judgment functions, safe and reliable has powerful data processing function, It have power data processing function, can get all the statistical results, and can automatic reset, convenient operation, easy adjustment, stable performance.
- 4、Display the pressure force and deflection in time on the LCD display.
- 5、Adopting modular body thermal printers, print speed is quick, convenient in paper;

Product application

It is mainly applied to do Ring Crush Test(RCT) for paper, thickness of 0.15~1.00mm; Edge Crush Test(ECT) for cardboard, Flat Press Test(FCT) for cardboard, Adhesive Strength Test(PAT) for cardboard and Tube Compress Test(CMT) for small paper tube, diameter less than 60mm.

It is also used in testing compression strength of paper cup, paper bowl, paper barrel, paper tube and other type small package. It is an ideal testing equipment for paper package manufacturer, scientific research institution, quality inspection department.

Technical standards

ISO 12192	《paper and board----compressive strength-----ring crush method》
ISO 3035	《single-faced and single-wall corrugated fibreboard-determination of flat crush resistance》
ISO 3037	《corrugated fibreboard. Determination of edgewise Crush resistance (unwaxed edge method) 》
ISO 7263	《 corrugating medium-determination of the flat crush resistance after laboratory fluting》
GB/T 2679.6	《corrugating paper-determination of the flat crush resistance》
QB/T1048-98	《board and carton box-tester of crush resistance》
GB/T 2679.8	《paper and board –determination of compressive strength-ring crush method》
GB/T 6546	《corrugated fibreboard-determination of edgewise crush resistance》
GB/T 6548	《corrugated fibreboard- determination of ply adhesive strength》

Product parameter

Item	Parameter
Power	AC220V±10% 2A 50Hz;
Error	±1%
Variation of indication	< 1%
Resolution	0.1N
Measuring range	(5~5000)N
Platen parallelism	≤ 0.05 mm
Working stroke	(1~70)mm
Test speed	(12.5 ± 2.5) mm/min
Circle pressure plate diameter	235mm
Interface	Menu in English and chinese, LCD display
Printout	Modular integrated thermal printer
Working environment	Room temperature(20 ± 10)°C; relative humidity < 85%

Main fixtures

Mainframe, certificate of quality, power line, 4 rolls of printer paper, operational manual,
Optional: RCT central plates, RCT sample cutter, ECT sample cutter, ECT blocks, PAT clamps,
Computer and software, etc.

DRK113-1 RCT Sample Cutter



Product introduction

The instrument according to GB/1048 regulations to manufacture, it is the sample cutter for the test of all kinds of paper and paperboard.

Product features

The sampling devices pleasing to look, compact structure, reasonable and effortless operation, easy to use

Product application

It is the sample cutter for the test of all kinds of paper and paperboard. It is the supporting tool of DRK113 Crush Tester.

Technical standards

The instrument according to GB/1048 regulations to manufacture.

Product parameter

- 1、 Sample width: 12.7-0.025mm
- 2、 Sample length: 152-0.25mm
- 3、 sample both sides parallelism: $<0.015\text{mm}$

Main fixtures

Mainframe; operating manual; certificate of quality

DRK113-2 ECT Sample Cutter



Product introduction

ECT sample cutter is specific sample cutter for corrugated cardboard for ECT、PAT, it is supporting tools of DRK113 crush tester.

Product Feature

Structure is simple、high accuracy、easy maintenance

Product Application

The instrument is used for cutting sample for all kinds of cardboard, available for 3 layer

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5layer、7layer etc

Technical Standard

This instrument is designed and manufactured according to the specified requirements of GB6543 and GB6548

Product Parameter

- 1、Verticality of blade movement line and the baffle: $\pm 0.10\text{mm}$
- 2、Depth of parallelism of blade of movement line and the locating end face of the locating board:
 $\leq 0.10\text{mm}$
- 3、Size tolerance of the cut sample: $\pm 0.5\text{mm}$

Product Configuration

Mainframe、operational manual

DRK113-3 FCT sample cutter



Product introduction

FCT sample cutter is the Special apparatus of my company produced corrugated board flat crush test, it is the supporting tool of DRK113 Crush Tester.

Product features

The sampling devices pleasing to look, compact structure, high accuracy, easy maintains.

Product application

Take a corrugated board, press the sampler in the corrugated board, Press the handle clockwise rotation to 3-5 laps and sample will be cut. Do not counterclockwise rotation to prevent the blade being damaged.

Technical standards

ISO3035 《Corrugated fiberboard — Determination of flat crush resistance》

GB/T 2679.6 《Determination of corrugated paper flat crush resistance》

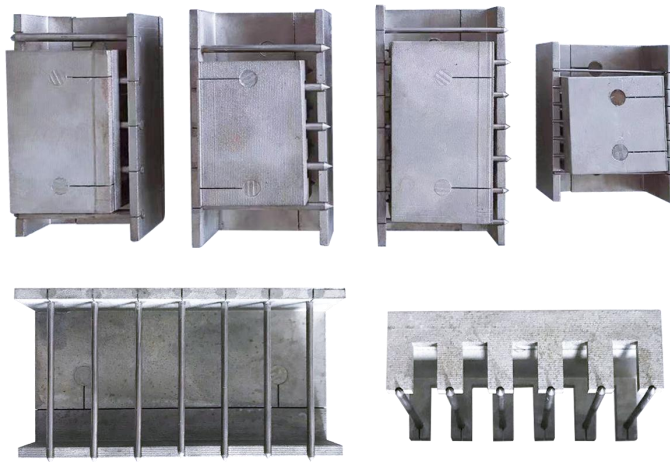
Product parameter

Sampling area: 64.5 cm² 32.2 cm²

Main fixtures

Mainframe; operating manual; certificate of quality.

DRK113-4 Corrugated Fiberboard Adhesive Strength Test Clamp



Product introduction

The instrument is designed and manufactured according to various technical indicators of national standard GB/T6548-1998

<<measurement of corrugated cardboard bonding strength >>

Product feature

Nice appearance, compact structure and reasonable, easy to use.

Product application

The instrument is used to cut the sample for corrugated cardboard adhesive strength test,

it is special instrument for cardboard sample, it is also optional tools for DRK113 crush

tester.

Technical standard

The instrument is consists of bracket, detacher , long and short needle。

The principle for insert sample interval of long and short stitches relative vertical motion, make the surface paper and paper needed for the complete separation of power,

The instrument conform to GB/T 6548

Product parameter

- 1、 bracket's upper and down parallel: ≤ 0.10
- 2、 clamp's upper and down parallel: ≤ 0.10
- 3、 long and short needle's straightness: ≤ 0.10
- 4、 model A corrugated cardboard length, short needle's diameter: $\phi 3 \pm 0.10$
- 5、 model C、 B corrugated cardboard length, short needle's diameter: $\phi 2 \pm 0.05$

Product configuration

A set of clamp