

Specifications

Mechanics

Table travel X, Y, Z	Work area approx. 50 x 50 mm, 100 x 100 mm optional Resolution 0,25 µm, repeatability < 2 µm
Theta-axis	Resolution 1°, repeatability 1°
Speed	All axes programmable from 0.2 to 10 mm/s Test speed from 0.2 to 5mm/s

Measurement heads

Pull test range	100 cN, 10 N, 30 N or 50N, air bearing Resolution 0.010 cN, 0.05 cN, 0.3 cN, 0.5cN
Shear test range	500 cN, 50 N, 500 N Touch-Down set-up; Hot-Plug Resolution 0.01cN, 0.5cN, 5.0cN
Peel & tweezer test range	100cN, 10N, 50N
Option:	300N Resolution 0.01cNm, 0.05cN, 0.5cN, 5.0cN
Accuracy	0.25 % of total measured value
Calibration	Stored in measurement head; temperature compensating load cell Optional calibration by customers side (specific tools)

Control

Computer	Single-Board PC, 300 MHz Pentium processor, 128 MB RAM, floppy disk, ethernet, printer connection, serial port, USB CD-ROM optional
Monitor	TFT flat screen monitor
Operating system	Windows 2000
Printer	all Windows-compatible printers can be installed



5600

Automatic Bond Tester

The automatic bond tester 5600 complements F&K's die and wire bonders.

The PC controlled moving table allows any number of bonds to be tested automatically from a stored program.

Results can be analysed and output immediately or exported in a number of data base formats for subsequent analysis as desired or fed back and displayed to the F & K die and wire bonders.

Powerful extended capabilities enable measurements such as force/time or force/distance curves to be made and deliver more data over the quality of the bond tested.

Exchangeable measurement pods ensure rapid conversion to different force ranges. The calibration curves of all measurement pods are stored internally; additional heads for shear, peel and tweezer testing with customer-specific tools and jaws are available.

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Additional features

<i>Programming</i>	Automatic repeat measurements on hybrids or COB using the programmable table movement
<i>Evaluation</i>	Statistics such as mean value, standard deviation, trend, cp, cpk, etc.
<i>Data export</i>	Database (ODBC), per wire and module, per operator, per machine, etc. Export as Excel-file
<i>Export format</i>	CSV (comma separated values) and others
<i>Other</i>	Operator profile, various password levels, optional barcode readers for product identification; feedback of measured values to die and wire bonders for parameter optimisation optional
<i>P2B option</i>	Communication with F&K Delvotec Die or Wire Bonder

Work holders

Standard

optional

optional



2" x 2"
with mechanical clamping

4" x 4"
with vacuum and mechanical clamping

4" x 4"
with mechanical clamping

Head Parking System

for temporarily storing 2 additional pull and shear test heads
can be mounted on the left or right side of the machine

General

<i>Microscope</i>	Nikon Stereo microscope SMZ2, all Leica microscope models optional
<i>Lighting</i>	20 W halogen spot light
<i>Dimensions</i>	Height 70 cm, width 70 cm, depth 65 cm; weight approx. 80 kg
<i>Supplies</i>	100...240 VAC, single phase, 50/60 Hz, max. 500 VA
<i>Connections</i>	Air 6 bar; vacuum 0,7

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