

Specifications

Mechanics

<i>Table travel X, Y, Z</i>	Work area: x= 100 mm y=125 mm optional Resolution 0, 25 µm, repeatability < 2 µm
<i>Speed</i>	All axes programmable from 0.2 to 6 mm/s Test speed from 0.2 to 5mm/s

Measurement heads

<i>Accuracy</i>	0.25 % of max value
<i>Calibration</i>	Stored in measurement head; temperature-compensated load cell Optional calibration at customers side (specific tools)

Control

<i>Computer</i>	Single-Board PC, 1,6 GHz Pentium processor, 1 GB RAM, Ethernet, USB 4x frontside
<i>Monitor</i>	TFT flat screen monitor Min. 17"
<i>Operating system</i>	Windows XP
<i>Printer</i>	all Windows-compatible printers can be installed



Additional features

<i>Programming</i>	Automatic repeat measurements on hybrids or COB using the programmable table movement and Pattern Recognition Unit (PRU)
<i>Evaluation</i>	Statistics such as mean value, standard deviation, trend, cp, cpk, etc. Based on SQL Databank

5600C

Automatic Bond Tester

The automatic bond tester 5600 complements F&K Delvotec Semiconductor GmbH 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.

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

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

After a first programming a reproducible pull- or sheartest can be guaranteed for all following components.

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Export format SQL, CSV, HTML
Other Operator profile, various password levels, optional barcode readers for product identification; feedback of measured values to die and wire bonders for parameter optimisation optional
P2B option Communication with F&K Delvotec die- or wire-bonder

Test-Cartridge

Pulltester Cartridge



Available Pullheads:
PH100C 100 cN
PH1000C 1000 cN
PH5000C 5000 cN

Sheartester Cartridge



Available Shearheads:
SH500C 5000 cN
SH5000C 50000 cN

Tweezertester Cartridge



Available Tweezerhead
TH100C 100 cN

The Test-Cartridges can be changed without any tool within less than 1 minute

General

Microscope Stereoscope Motic SMZ, other microscopes optional
Lighting 20 W halogen spot light (optionally LED ring light)
Dimensions Height 70 cm, width 70 cm, depth 65 cm; weight approx. 80 kg
Supplies 100...240 VAC, single phase, 50/60 Hz, max. 500 VA
Connections Air 6 bar; vacuum 0, 7 bar

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