



5600CS

Automatic Bond Tester

The automatic bond tester 5600CS 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.

Specifications

Mechanics

Table travel X, Y, Z Work area: x= 100 mm y=115 mm
Resolution 0, 25 µm, repeatability < 2 µm

Speed Test speed from 0.2 to 5mm/s

Measurement heads

Accuracy 0.25 % of max value

Calibration Stored in measurement head; temperature-compensated load cell
Optional calibration at customers side (specific tools required)

Control

Computer Dual Core PC, 1,6 GHz processor,
4 GB RAM, Ethernet, USB 4x frontside

Monitor TFT flat screen monitor

Operating system Windows 7

Printer all Windows-compatible printers can be installed

Additional features

Programming Automatic repeat measurements on hybrids or COB using the programmable table movement and Pattern Recognition Unit (PRU)

Evaluation Statistics such as mean value, standard deviation, trend, cp, cpk, etc. Based on SQL Databank

Export format SQL, CSV, HTML

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Other Operator profile, various password levels,

Test-Cartridge

Pulltester Cartridge



Available Pullheads:

PH100C	100 cN
PH1000C	1000 cN
PH5000C	5000 cN

Sheartester Cartridge



Available Shearheads:

SH500C	500 cN
SH5000C	5000 cN

Tweezertester Cartridge



Available Tweezerhead

TH100C	100 cN
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The Test-Cartridges can be changed without any tool within less than 1 minute

General

<i>Microscope</i>	Stereoskop Standard 40x, other Microscopes optional
<i>Lighting</i>	20 W halogen spot light (optionally LED ring 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. 500VA
<i>Connections</i>	Air 6 bar; vacuum 0, 7 bar

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