

Specifications

Mechanics

<i>Table travel X, Y, Z</i>	Work area 100 x 115 mm Resolution 0,25 µm, repeatability < 2 µm
<i>Theta-axis</i>	Resolution 1°, repeatability 1°
<i>Speed</i>	All axes programmable from 0.2 to 16 mm/s Test speed from 0.2 to 5mm/s

Measurement heads

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

Control

<i>Computer</i>	Dual Core PC, 1,6 GHz Pentium processor, 4GB RAM, Ethernet, USB 4x + 4x frontside USB
<i>Monitor</i>	TFT flat screen monitor
<i>Operating system</i>	Windows 7
<i>Printer</i>	all Windows-compatible printers can be installed

5600

Automatic Bond Tester

The automatic bond tester 5600 complements F&S BONDTEC'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 outputted 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 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.

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

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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,

Work holders

Standard



2 x 2"

with mechanical clamping

optional



4 x 4"

with vacuum and mechanical clamping

optional



4 x 4"

with mechanical clamping

Head Parking System for storing of temporary not required pull- and shear-heads
can be mounted on the left or right side of the machine

General

<i>Microscope</i>	Stereoskop Standard 40x, other Microscopes optional
<i>Lighting</i>	20 W halogen spot light, LED Light optional
<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