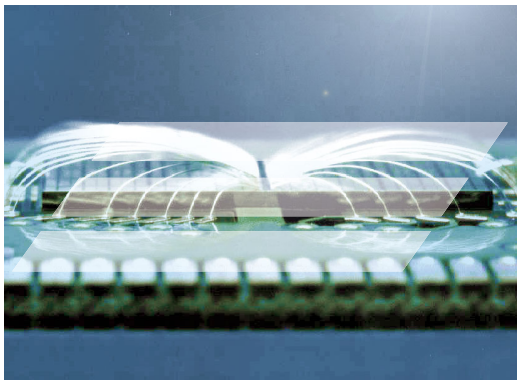
Large Area Hybrid Wire Bonder

64/66000 G5



The 5th generation of F&K Delvotec's fine and heavy wire bonders offers utmost flexibility for all aluminium and gold wire applications from 17 to 600 µm. Optimum bond quality is ensured by the vibration-free machine frame and high performance bond heads with integrated impedance measurement and bond process control.

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SPECIFICATIONS

Bond areas	220 mm x 100 mm 220 mm x 220 mm
Z-range	50 mm
Die count	Over 200 per circuit standard
Pattern recognition	Travelling CCD camera and Cognex 8000
Control	Pentium M™ processor with UNIX-based operating system
Data transfer	Range of standard options for export of quality control data
Network capability	TCP/IP network standard built in, allowing remote access for diagnosis, service and software maintenance Ethernet and SMEMA interface, SECS/GEM HSMS capability
Quality assurance	Impedance analysis, Bond Process Control for extremely uniform bonds Optional: pull tester integrated in bond head
Overall dimensions machine only	62 x 120 x 180 cm (W x D x H)
Line requirements	100 – 120; 200 – 240 VAC, 50 – 60 Hz, 0.5 kVA single phase
Compressed air/vacuum	4 – 8 bar (rel.) / < -0.8 bar (rel.)

FINE WIRE BOND HEAD

Wire diameter	17 to 100 µm
Wire feed	Motor-driven 2" spool Wire feed angle 45° standard, 60° or 90° optional, 1" bond tool
Digital ultrasonic system	Programmable digital generator 30...250 kHz

HEAVY WIRE BOND HEAD

Wire diameter	100 to 600 µm
Wire feed	Motor driven 3" and 4" wire spool Snap-on wire guide Front and back-cut unit 2 ¾" bond tool
Digital ultrasonic system	Programmable digital generator 40...120 kHz

MATERIAL INPUT

Substrate types	Leadframes, PCBs, boats, carriers etc.
Component handling	Manual, semi-automatic, automatic, magazine to magazine or in-line

OPERATING DATA

Placement accuracy	Typically better than +/- 5 µm @ 3 sigma

64/66000 G5-001

F&K DELVOTEC

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