

STATE-OF-THE-ART PRODUCTS FOR ALL-ROUND SOLUTIONS

F&K Delvotec offers more than bonders. We provide products and services for perfectly matched, comprehensive and highly efficient bonding processes. From pilot to full-volume production, with convenient retooling options. F&K Delvotec adapts the machines seamlessly to your processes and smoothes the way to customized handling.

The name F&K Delvotec stands for high-value products, because every development is based on in-depth scientific know-how: with a homogeneous technical platform providing one-stop shopping for individually tailored quality solutions for all applications.

G5 Family

- G5 Single Head
- **⊙** G5 XL

Consultancy, process development and optimized solutions

At F&K Delvotec a highly specialized consultancy, development and applications team ensures optimum support for you, with hardware and software from our own development department – with particular emphasis on thorough consulting with know-how transfer right from the start.

Compatible with the future in all aspects

The F&K Delvotec innovation leadership ensures better bond quality and all-round perfect products for customers. You benefit from production security resulting from high availability and long productive life at a low investment level. With excellent cost of ownership and high future compatibility, in particular with product change benefiting from easy machine retooling.



It has always been a central pillar of our philosophy to provide the right bonding equpiment for evolving technologies. Our newest development is a case in point: we see two new areas developing at a breathtaking rate, solar cells and battery systems for e-vehicles. Both are different from our accustomed industries in semiconductors and electronics in that the parts to be bonded are huge, especially when compared to the constantly shrinking dimensions in the semiconductor world. At the same time, though, these new areas benefit from the superior connection quality and reliability of wirebonding. So it was only a logical extension of our technology portfolio to take the proven components of our highly successful G5 and G5-2 series and leverage them into the new G5 XL platform. With a working area of around 1 square meter, this bonder covers a bond area more than 22 times larger than our other equipment - with the same reliability and quality our customers rate so highly year after year. All of it just goes to prove that we will help our customers stay ahead.









Rated best wire bonder supplier three years in a row.

Staying Ahead in Bonding Technology

G5 XL - Extremely Large Area Wire Bonder

- The world's largest working area
- Designed for very large applications, like solar panels and e-mobility batteries
- Quality proven components from G5 family
- Exchangeable bondheads



WORLD'S LARGEST WORKING AREA



PELVOTEC

UNIQUELY SUITED FOR

■ E-motive batteries

- Solar panels
- → Large-area tv panels

MACHINE SPECIFICATION

Bond Area

- 1130 mm (X) x 700 mm (Y) | 44" x 27"
- Z-Axis: = 40 mm, optional 60 mm
- P-range: = +/- 200°

Work Height

 Adjustable (850 mm – 1050 mm), meets SMEMA requirements (940 mm – 965 mm)

Safety Standard

CE Certification

Monitor

■ Flat Panel Color 19 inch

Microscope

- Stereo zoom with adjustable work distance
- Adjustable light intensity

Electrical Supply

- 200 240 V -5% to +10%, optional 100 120 V -5% to +10%
- Single Phase 50-60 Hz

Power Consumption

- Minimum 0.6 kVAMaximum 3.2 kVA
- Compressed Air

■ 5 – 8 bar

Vacuum

■ Minimum < - 0.8 bar

Positioning Accuracy

■ Repeated positioning +/- 5 µm @ 3 sigma

Digital Ultrasonic generator

■ 30 kHz – 250 kHz

Transducers

■ 40 kHz – 145 kHz

Wire Spool

Fully automatic

Control

Compact PCI, Unix-based real time multi-tasking operating system

Pattern recognition

- Travelling CCD camera
- Cognex® 8000 (PatMax, Pat Quick)
- Resolution better than 0.1 Pixel

Lighting

- Program controlled type & intensity
- Direct red LED
- Other colors optional

Traceability

Range of standard options for export of quality control data

Network Capability

 TCP/IP network standard built in, allowing remote access for diagnosing service and software maintenance

ABOUT F & K DELVOTEC

F&K Delvotec is one of the worldwide leaders in the field of Innovative Wire Bonding Technology. Established in 1978 with headquarters in Ottobrunn near Munich, F&K Delvotec is the only supplier able to support customers throughout the complete range of bonding technologies. With the G5 (5th generation) wire bonders F&K Delvotec supplies advanced technologies for the latest bond processes providing customers with a competitive edge and new potential for success.

Whatever bonding is required F&K Delvotec offers a suitable tailored solution – from bond process development through to complete automation and continuous Quality Assurance.

Our broad portfolio of high-tech products, specialised bonding applications and support services ensures satisfaction of customer's production requirements from a single source. A worldwide customer base is supported around the clock from our headquarters in Germany and our subsidiaries in Singapore and California, as well as our distributors in each country.

Over 30 patents in the field of bonding technology testify to our continuing emphasis on innovative technology. F & K Delvotec's Digital Ultrasonic System, Transducer Test System, Bond Process Control, Inhead Pulltester and Online Pulltester are among the advanced components and features earning high praise and positive acceptance in the market.

WEEE-Reg-No.:

DE 30114933



ISO 9001:2008

Headquarters

F & K Delvotec Bondtechnik GmbH

Daimlerstrasse 5–7 85521 Ottobrunn Germany

Phone: +49 (89) 6 29 95-0 Fax: +49 (89) 6 29 95-100

info@de.fkdelvotec.com service@de.fkdelvotec.com



Our Asia branch

F & K Delvotec Bondtechnik GmbH Co. KG

67 Ayer Rajah Crescent #02-12 Ayer Rajah Industrial Estate SINGAPORE 139950

Phone: +65 (67 79) 50 55 Fax: +65 (67 79) 56 55

info@de.fkdelvotec.com admin_sales@fnk-delvotec.com.sg tech_service@fnk-delvotec.com.sg



Our USA branch

F & K Delvotec Inc.

27182 Burbank Avenue Foothill Ranch, CA 92610 USA

Phone: +1 (949) 5 95-22 00 Fax: +1 (949) 5 95-22 07

info@fkdelvotecusa.com sales@fkdelvotecusa.com



F&K Table Top Machines

F & K Delvotec Semiconductor GmbH

Industriezeile 49a 5280 Braunau Austria

Phone: +43 (77 22) 67 05 28-0 Fax: +43 (77 22) 67 05 28-272

info@fkdelvotec.at



F&K Ultrasonic Technology

F & K Physiktechnik GmbH

Wetzlarer Strasse 54 14482 Potsdam Germany

Phone: +49 (331) 6 00 28-920 Fax: +49 (331) 600 28-921 info@fkphysiktechnik.com

