



**APPLICATION SUMMARY**

Ultrasonic Welding welds together two pieces of material (ex: plastic) using high frequency vibrations. This results in a clean welding process, producing uniform, fluid tight welds. The clean welding process makes it ideal for medical equipment, toys, semiconductors, and consumer electronics. One of the keys to a clean weld is the proper application of clamping force. Too little force results in an incomplete weld, too much force results in deformed parts. Incorporating a load cell inline with the welding stack enables the ultrasonic welder to provide the correct amount of contact force to every part.

**PRODUCTS IN USE**

1 LCB/LCF Series Load Cells paired with Instrumentation (IAA Series or IDA100)

All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

**Sensor Solution Source**

Load · Torque · Pressure · Multi Axis · Calibration · Instruments · Software

[www.futek.com](http://www.futek.com)

**SCIENCE GATE**  
Your Automation Partner

**SCIGATE AUTOMATION (S) PTE LTD**  
No.1 Bukit Batok Street 22 #01-01 Singapore 659592  
Tel: (65) 6561 0488 Fax: (65) 6562 0588  
Email: sales@scigate.com.sg Web: www.scigate.com.sg  
Business Hours: Monday - Friday 8.30am - 6.15pm



U.S. Manufacturer