

24 April 2008 **AC&E LTD** (press release)

## **First Dispensing Simulation Software for Desktop Robots**

Robot simulation specialist AC&E Ltd announces CSR E-Hub Dispensing, the first desktop dispensing robot simulation software designed specifically for automated dispensing machines. The software provides full simulation of all robot operations including 3D linear and arc interpolations, enabling optimisation of complex dispensing paths and operator training ahead of production.

The combination of increasingly sophisticated dispensing programs for complicated gasketing processes and high cost of engineering adhesive compounds makes simulation an essential pre-requisite for achieving cost efficient, trouble-free dispensing operations. CSR E-Hub Dispensing gives engineers the ability to develop and prove out dispensing programs for desktop robots ahead of their use on production line machines. With a library of 3D kinematically accurate models of the most popular 3 and 4 axis robots and dispense tools, the software provides realistic simulation and accurate positioning of the robot with repeatability of  $\pm 0.01$ mm for dispensing beads and dots including variation of bead thickness, all with robot speed.

In addition to collision detection, CSR E-Hub Dispensing enables the creation and import of customised parts, fixtures and work tables with workcells. Program development and training is conducted on a PC that fully replicates the operation of the real machine. In this way the engineer does not need to take a machine out of production for programming and training.

“CSR E-Hub Dispensing is a competitively priced, simulation solution that, for the first time, brings desktop robot simulation within easy reach of manufacturers. Gone are the days when they had to tie up important production resource for programming and training, E-Hub Dispensing not only makes programming more efficient it also enables production of better quality programs,” says Yash Khandhia, managing director, AC&E Ltd.

CSR E-Hub Dispensing is part of the AC&E E-Hub range of simulation modules based on CimStation Robotics (CSR), 3D simulation software. E-Hub modules can exchange data with various graphics standards and engines, for example IGES, STEP and ACIS, as well as specific CAD systems, including Catia and Pro-E and other simulation systems in the field of robotics. Typical modules for 6 axis robots include Dispensing, Assembly / Handling, Paint, Spot Welding, Arc Welding, Press and Polish.

For more details contact AC&E Ltd on 01925 830085 or e-mail [info@acel.co.uk](mailto:info@acel.co.uk). Information on AC&E's range of simulation software can be found at [www.acel.co.uk](http://www.acel.co.uk).

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