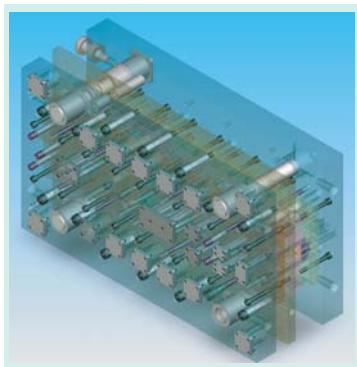


Chiaphua Components Limited



Chiaphua Components Limited (CCL) has been supplying motors to customers worldwide since 1987. CCL is a manufacturer of high quality AC and DC motors for a wide range of product applications ranging from household appliances, personal care products, power tools, floor care to office equipment. With factories located in the mainland China and coupled with modern management techniques, CCL is able to offer customers the most competitive solutions in motor-driven applications in the world.

The mission of CCL is to work as a team to provide customers with innovative and cost effective solutions to cater to their motion related needs; and strive to exceed their expectations in terms of quality, delivery and service. To achieve these, CCL began to pay a close attention to the CAD tools because the management understood that efficient utilization of CAD could help to pave the way for future success in the global market. Upon the thorough evaluation among 3D CAD packages like SolidWorks®, Pro/ENGINEERS®, Mechanical Desktop®, and SolidEdge®, CCL decided to choose



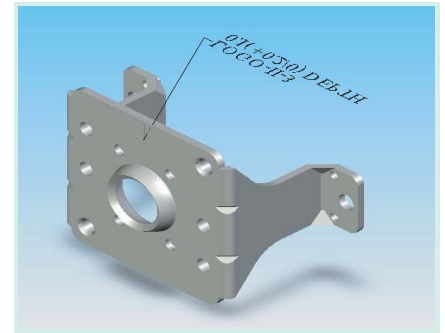
SolidWorks®.

In 1996, CCL purchased two seats of SolidWorks® in their engineering department. Within two months, they found that the productivity of SolidWorks® in 3D was tremendous and could reduce errors. For the first 12 months, CCL was able to complete the manufacturing cycle by linking their 3D mold designs with the machining operations with Mastercam®.



Once the effective total solution was achieved at this phase, CCL determined to invest more on SolidWorks® and put more 3D power to every engineer's desktop. Today, CCL expands to a total number of 40 SolidWorks throughout their network in Hong Kong and China.

The big variety of add-on applications offers CCL with many new design approaches. One of the early SolidWorks® solution partners, which CCL pioneered to use, was the Geartrax® from Camnetics, US. It helped CCL to create solid models of drive components inside SolidWorks. Spur, helical and involute spline gears are created with true involute tooth profiles. This design approach helps CCL to achieve coherent manufacturing based on exact shape in SolidWorks® without sacrificing the accuracy. The latest innovative SolidWorks® solution partner CCL used was 3DQuickPress® from experienced SolidWorks developer specializing in metal designs and manufacturing over 15 years. The determination to increase the productivity of metal stamping is critical to the CCL's motion related business. All the



global motion-component consumers in various industries are pushing their component suppliers to their ultimate limit to roll out quality products at lightening speed. The linkage of the previous 2D-oriented metal stamping process to 3D design modeling process is the final bottleneck CCL has to overcome. With the recent introduction of 3DQuickPress®, CCL is satisfied with the practical approach of helping the tool designers to iterate the stamping stages in 3D, and therefore speeding up the entire process.

"We're very pleased to choose 3DQuickPress® in 2004 and its success has proven it a right choice. Our dream of completing 3D design and manufacturing for plastic and metal parts in a single CAD environment comes true. The success of the production has exceeded our customer's expectation", said C.N. Tsang, General Manager of CCL. "Today, our technical competence is optimizing our products to meet customer satisfaction in the speedy SolidWorks® design



www.cclmotors.com

www.3dquicktools.com



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3DQuickPress is registered trademark of 3D QuickTools Limited. All other company & product names are trademarks of their respected owners.
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