

## A Convenient Part Library Based on SolidWorks Platform

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**Abstract :** 3D part library is an ideal approach to reuse the existing design and thus facilitates the modeling process, which will enhance the efficiency. In this paper, we implemented the thought on the SolidWorks platform. The system supports the functions of type and parameter selection, 3D template driving and part assembly. Finally, BOM is exported in Excel format. Experiment shows that our method can satisfy the requirement of die and mold designers.

**Keywords :** part library, SolidWorks, automatic assembly, intelligent

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