Chapter 7  Tooling Alternative Selection
Case Studies

7.1 Tooling Path Reviewing Form

The tool path evaluation form shown in Table 7.1 is a simple form that allows a sand casting tool design professional to quickly estimate the best tooling alternative selection for a given casting geometry as a function of production volume. The form also allows the tooling professional to document the key considerations driving the selection. It should be noted that the “key tool considerations and issues” include the decision factors discussed in Chapter 6.

7.2 Case Studies

The following case studies illustrate how casting geometry, production volume, and other key tooling considerations and issues drive tooling alternative selection for a variety of different parts that are to be produced as sand castings. The tooling alternative evaluations presented were performed with the assistance of Clinkenbeard & Associates, Rockford, Illinois.

7.2.1 Sensor Box

PART DESCRIPTION AND VIEWS
Envelop Dimensions: 15.25x19.65x11.45 inches
Materials: Aluminum
Figure 7.1 The 3D CAD view of the sensor box