

Exercise 02565-11

Pro/ENGINEER - Parts

Readings

ProENGINEER Core and Part Topic Collection.

Purpose

The purpose of this exercise is to get familiar with the sketcher of ProENGINEER and to learn more about the many types of features.

Part 1

Make a geometric model of the objects defined in appendix A.

In appendices A the angle between the upper fitting and the middle piece is 135° and the angle between the middle piece and the dovetailed lower part is 90 degrees. The angle of the dovetail is 60 degrees and the dovetail is cut to a depth of half the thickness of the piece. Furthermore, viewed from below the cut in the material has a width of 38 mm.

Part 2

Make a geometric model of the object in appendix B

Part 3

Make a geometric model of the object in appendix C. Only half of it is shown. The other half is a mirror of the first.

The slips (5 degree) are modelled with Tweak>Draft>Neutral Pln

The cut is made by Cut>Sweep and the trajectory by Sketch>Edge>Offset:Loop or from the icon menu. The section is just at straight line (Add Inn Fcs).

Both the rounds and chamfers have the measure 1.

Appendix A

Appendix B

Appendix C

Appendix D

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