

Contents at a Glance – Mill 2D

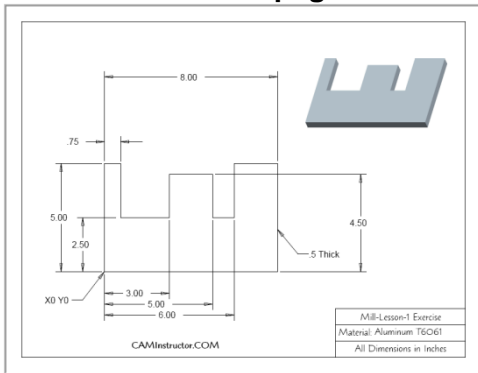
Setting the Environment 1

Tips and Techniques 11

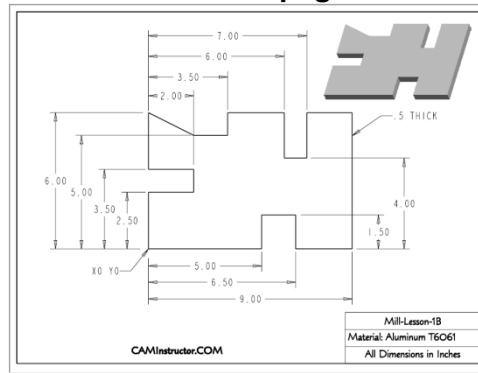
Lesson 1 13



Exercise 1a page 24



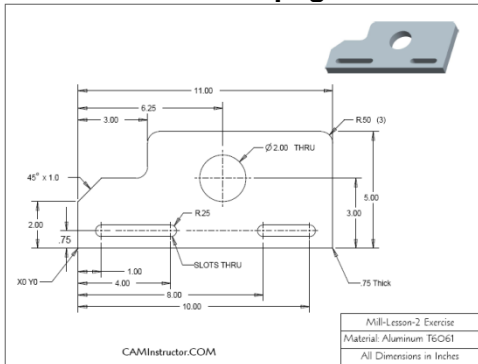
Exercise 1b page 25



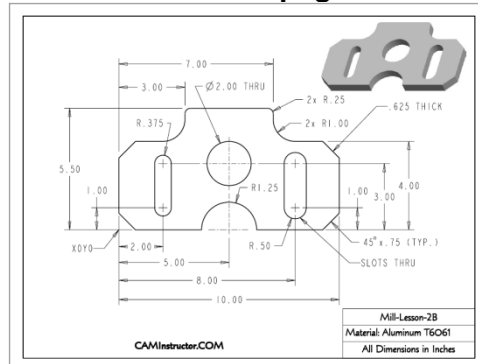
Lesson 2 27



Exercise 2a page 52

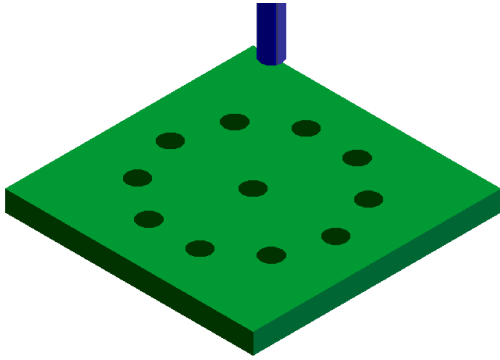


Exercise 2b page 53

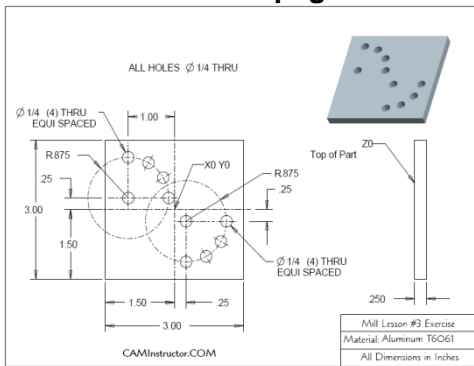


Mill 2D & 3D

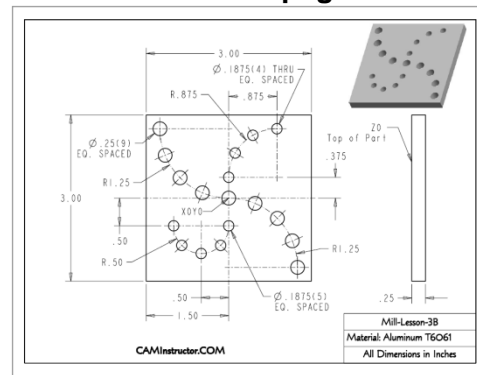
Lesson 355



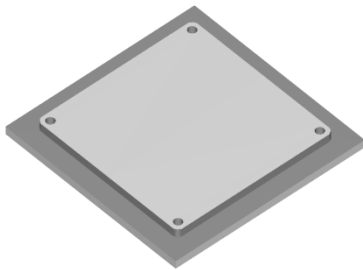
Exercise 3a page 96



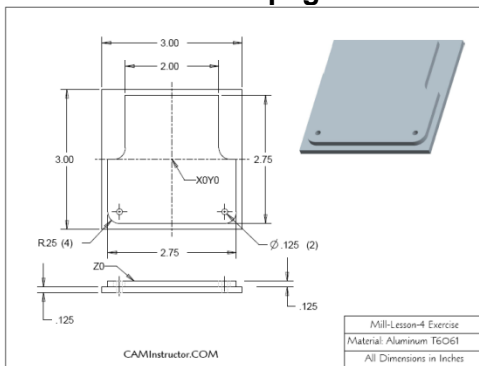
Exercise 3b page 97



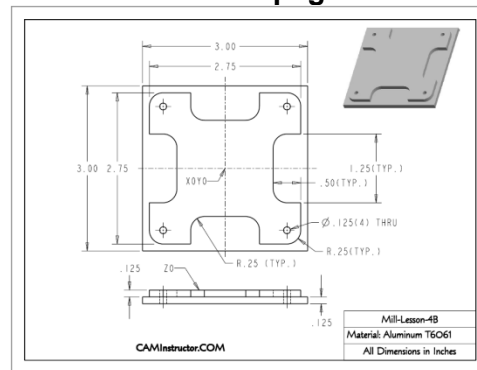
Lesson 499



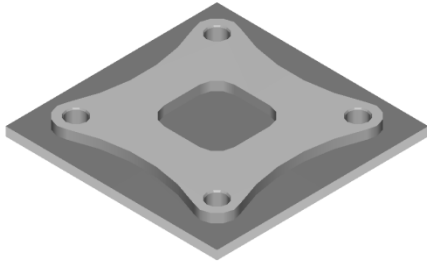
Exercise 4a page 135



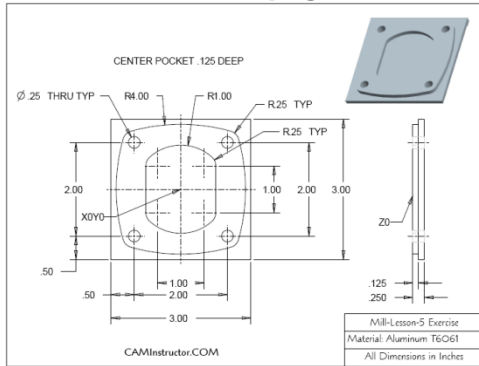
Exercise 4b page 136



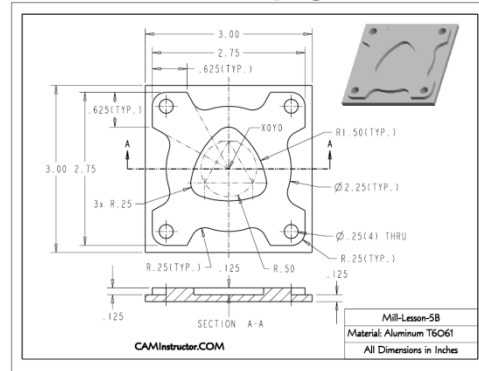
Lesson 5 137



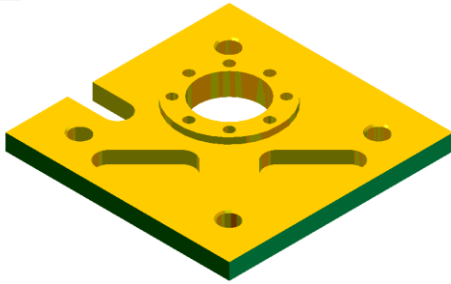
Exercise 5a page 198

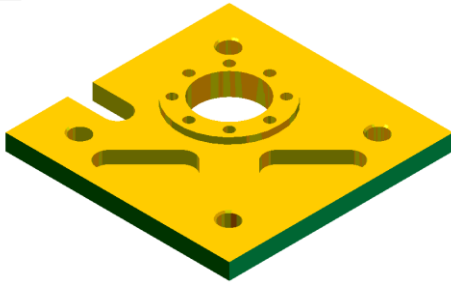


Exercise 5b page 199

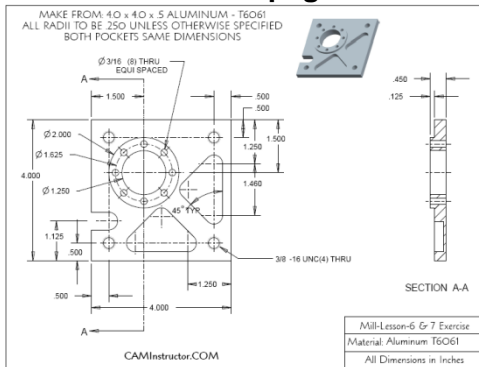


Lesson 6 201

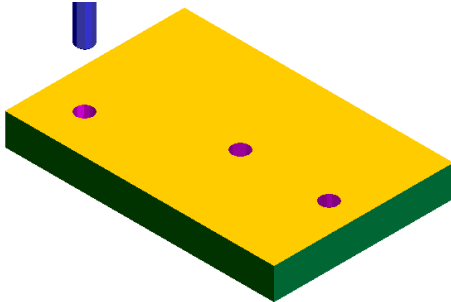
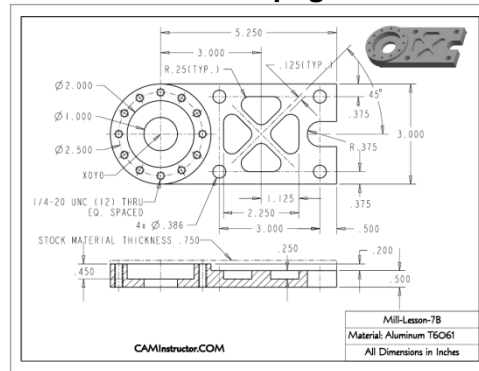




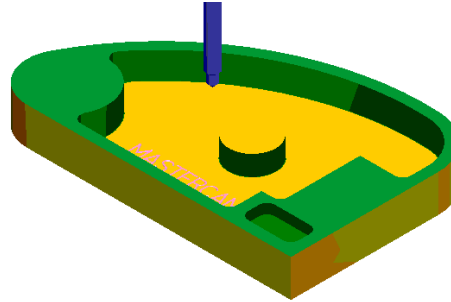
Exercise 7a page 308



Exercise 7b page 309

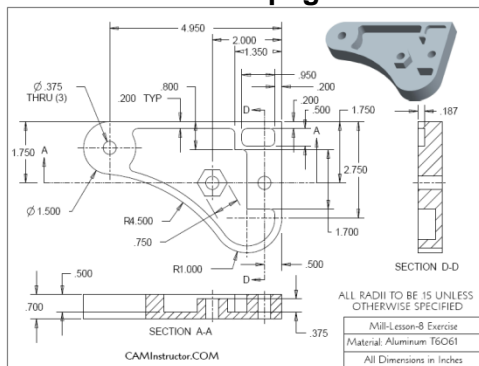


Part 1

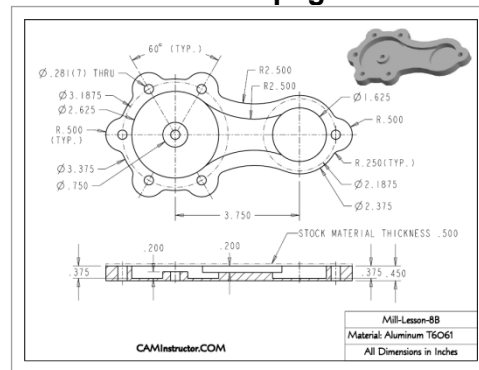


Part 2

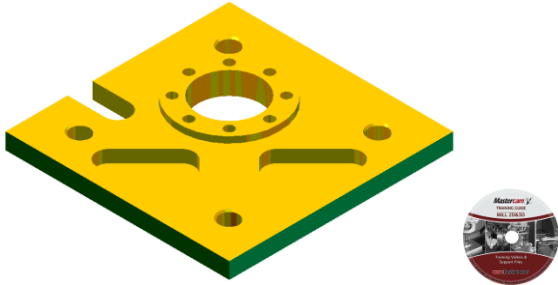
Exercise 8a page 392



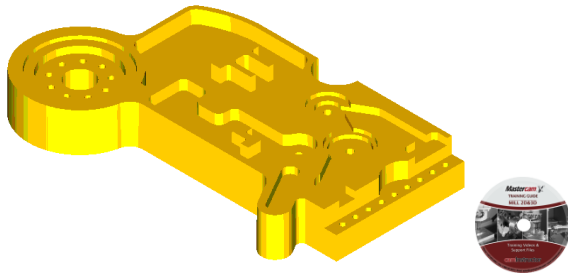
Exercise 8b page 393



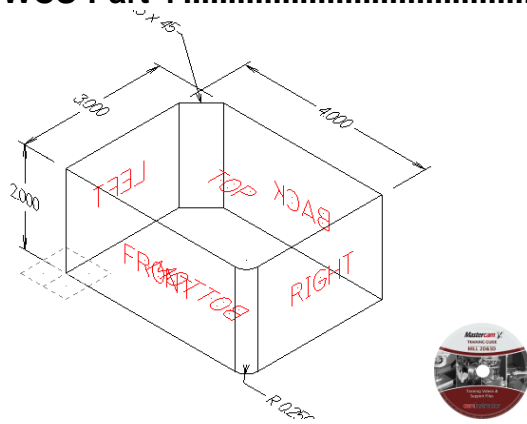
Feature Based Machining Lesson 1395



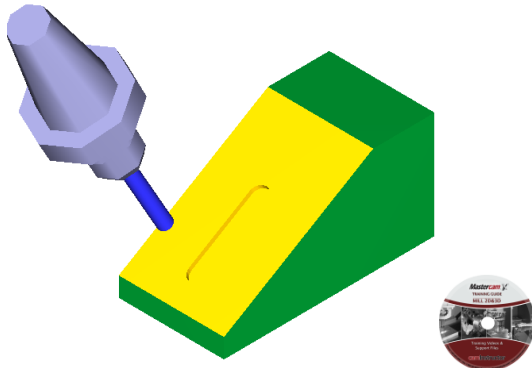
Feature Based Machining Lesson 2397



WCS-Part-1399

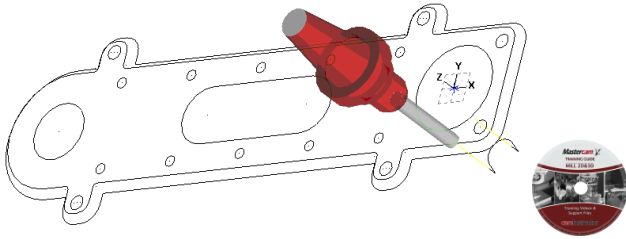


WCS-Part-2401

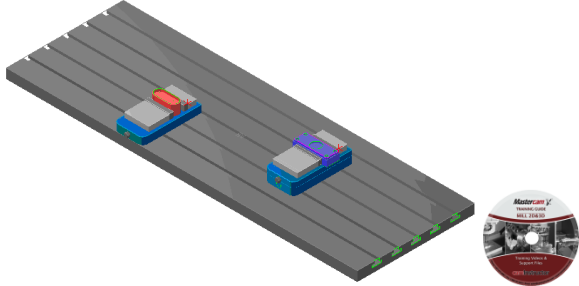


Mill 2D & 3D

WCS-Part-3403



WCS-Part-4405

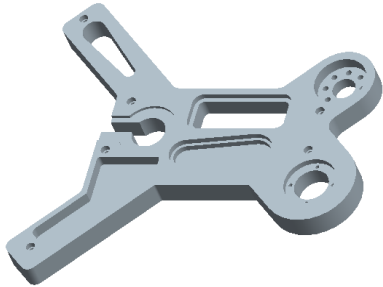


Advanced Exercises407

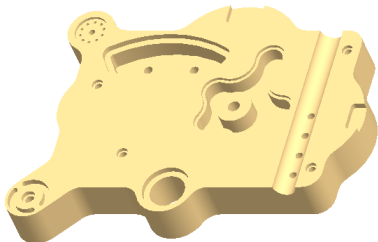


Also located on the CD

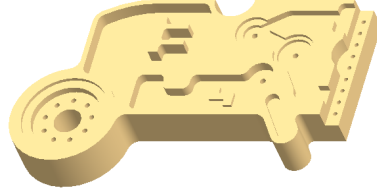
Advanced Exercise 1 407



Advanced Exercise 2 411

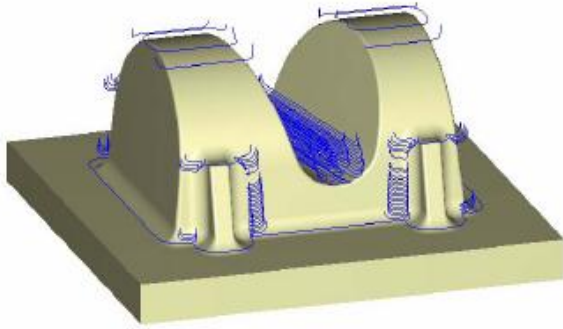


Advanced Exercise 3 415

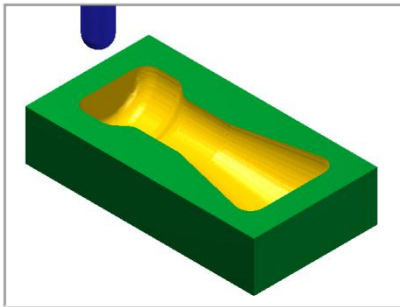


Contents at a Glance Mill 3D

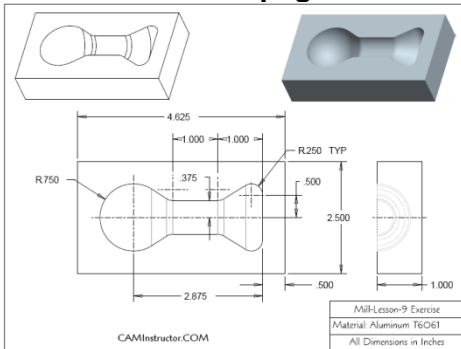
Surface Toolpath Overview.....421



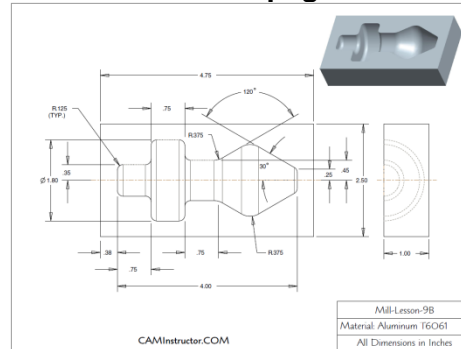
Lesson 9431



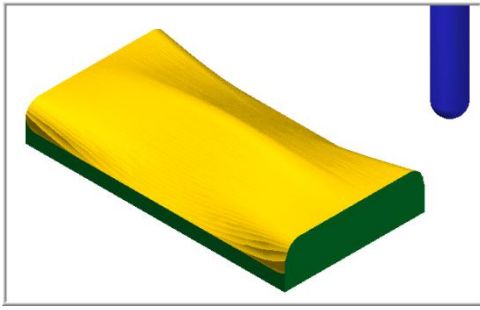
Exercise 9A page 461



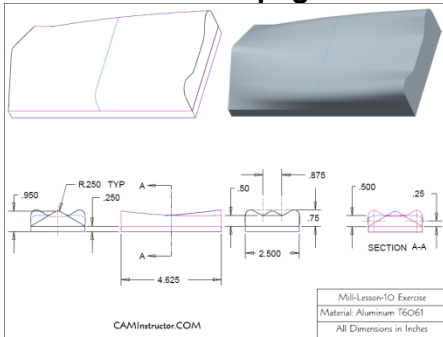
Exercise 9B page 462



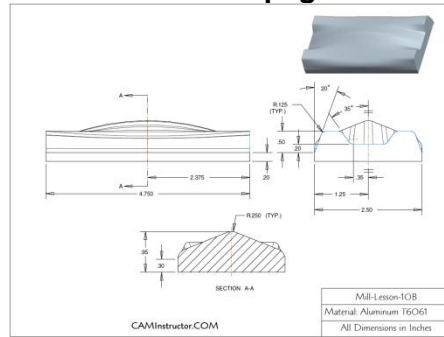
Lesson 10463



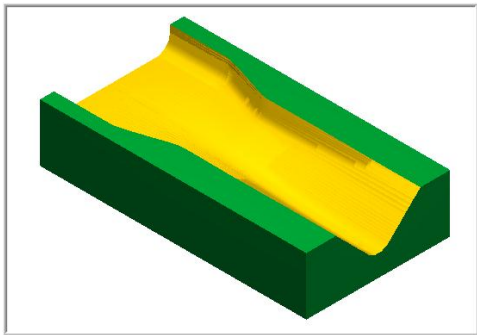
Exercise 10A page 489



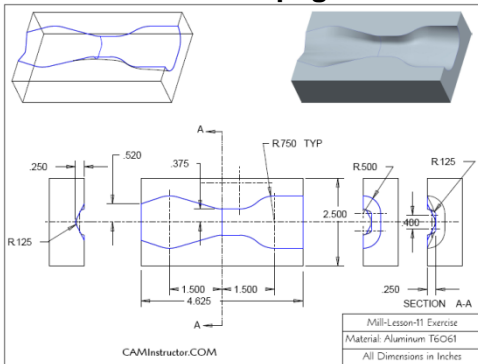
Exercise 10B page 490



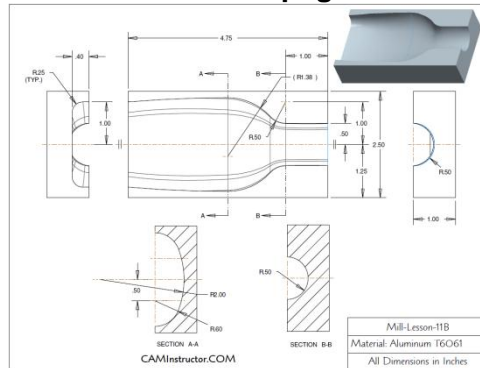
Lesson 11491



Exercise 11A page 522

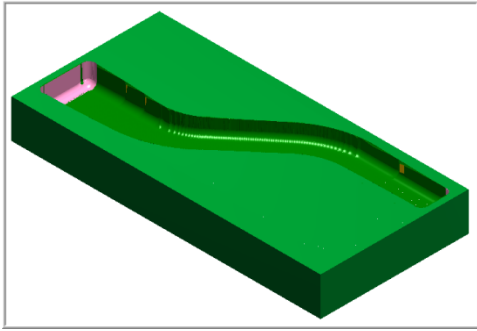


Exercise 11B page 523

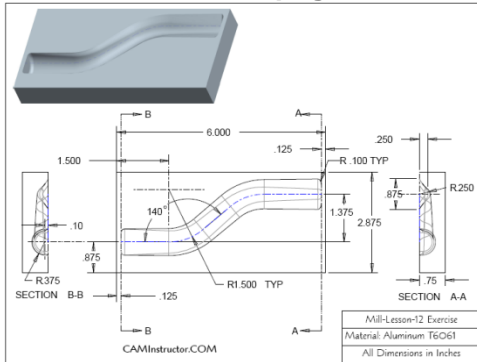


Mill 2D & 3D

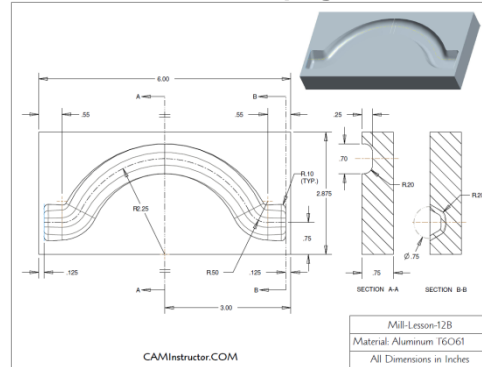
Lesson 12525



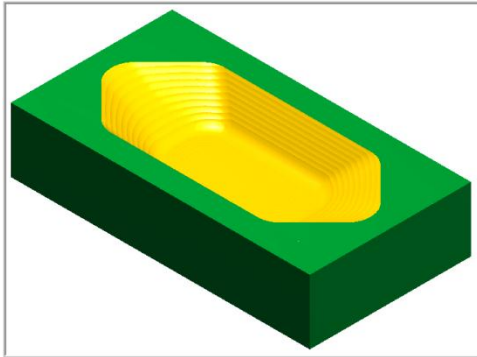
Exercise 12A page 576



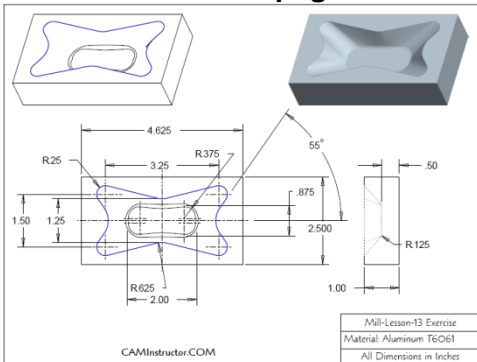
Exercise 12B page 577



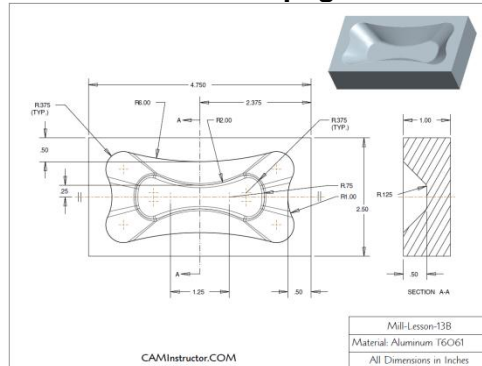
Lesson 13579



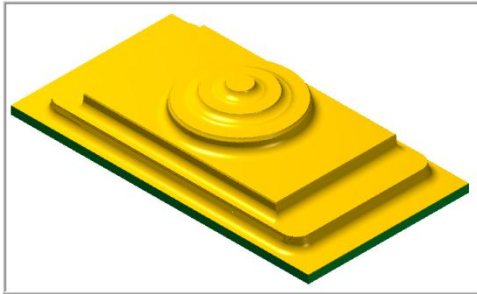
Exercise 13A page 612



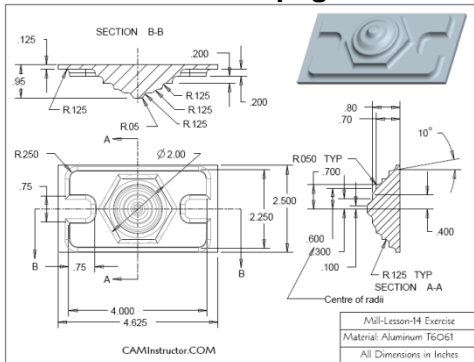
Exercise 13B page 613



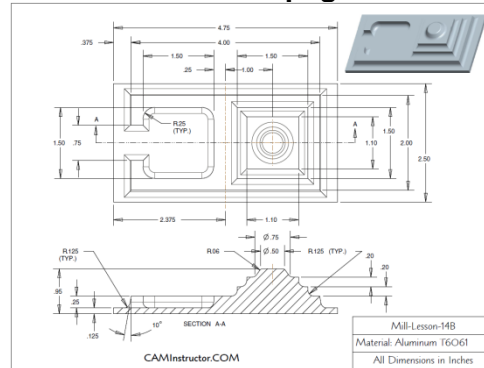
Lesson 14 615



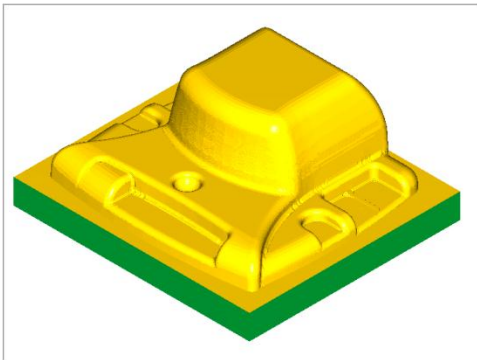
Exercise 14A page 661



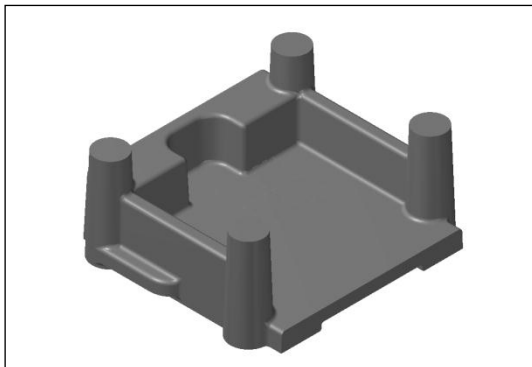
Exercise 14B page 662



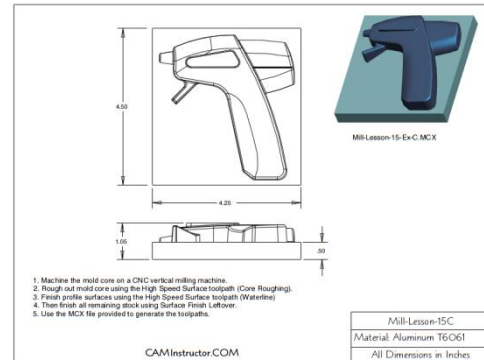
Lesson 15 663

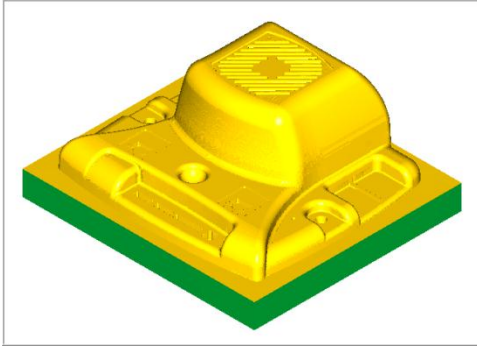


Exercise 15A on DVD

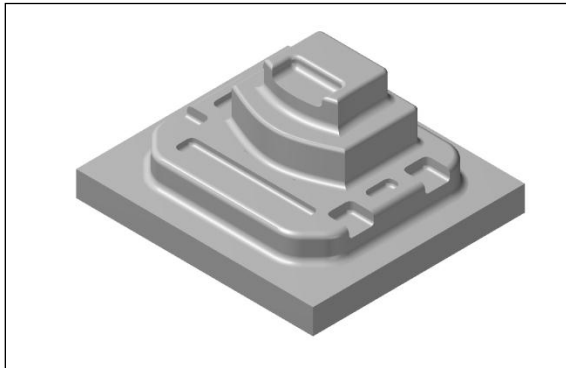


Exercise 15B on DVD





Exercise 16A on DVD



Exercise 16B on DVD

1. Machine the mold core on a CNC vertical milling machine.
2. Rough out mold core using the High Speed Surface toolpaths (Core Roughing & Rest Roughing).
3. Finish profile surfaces using the High Speed Surface toolpaths (Horizontal, Waterline, and Leftover).
4. Use the MCX file provided to generate the toolpaths.

Mtl-Lesson-16C
Material: Aluminum T6061
All Dimensions in Inches

CAMInstructor.COM



What's on the DVD?

1. Training Videos

Getting Started - Video

- -an overview of how the CD works

Setting the Mastercam Environment - Video

Tips and Techniques – Videos including:

- Getting Help – 7 Minutes
- Mastercam Interface – 19 Minutes
- Coordinate System – 10 Minutes
- Creating Lines – 12 Minutes
- Creating Arcs and Circles – 12 Minutes
- Trim and Extend – 5 Minutes
- Xform – 9 Minutes
- Stock Setup – 8 Minutes
- Backplot and Verify – 5 Minutes
- Multi Passes and Depth of Cuts – 8 Minutes
- WCS – Work Coordinate System
4 PDF lessons and videos
- And more videos on how to use Mastercam....

Lesson 1 through Lesson 16 - Videos

- Demonstrations on how to complete each Lesson in the book

Feature Based Machining - Videos

- FBM-Lesson 1 – PDF file of Instructions and supporting Videos
- FBM-Lesson 2 – PDF file of Instructions and supporting Videos

Drawing-Files

- Advanced exercises in .pdf format that can be printed out and used for extra practice

Mastercam-Files

- Mastercam files required by certain Lessons in the book

2. Mastercam Demo Installation Software

Install it onto your computer so you can practice and work in Mastercam. **Please note;** Mastercam Demo Software is a full working copy of Mastercam, however it will NOT allow you to create NC code.

Installation Instructions for Mastercam X5 HLE/Demo Software

1. Insert the DVD into the DVD ROM of your computer
 2. The Training Videos menu may automatically open, you can close this
 3. Open (double click) the My Computer icon on your desktop
 4. Open (double click) the DVD ROM
 5. Open (double click) the Mastercam X5 Demo Software Installation folder
 6. Double click on Setup.exe
 7. Follow the installation wizard for Mastercam Demo Software Installation
-

