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Bearing Press Video Transcript

- 0:05 I'm Paul Johnson with Dexter Precision. In this video we're going to demonstrate pressing a bearing on to a shaft using a servo press. We'll also review some of the data that the servo press can acquire during the operation.
- 0:14 This is our DS50 servo press. This machine is a 5 kilonewton capacity and a 200 mm stroke. You can find out more about our servo press product line in our servo press overview video.
- 0:28 Here's the shaft. It's already pressed into a pulley. This was pressed in our shaft press video. A spacer and a bearing are placed onto the shaft.
- 0:39 This is the bearing press tool it's a piece of hardened steel that fits into the servo press ram. It has a bore in the end that fits over the shaft and there's a flat that presses on the bearing inner race.
- 0:53 This is the bearing press fixture. It's a piece of hardened steel with a bore in it that locates the pulley and the shaft. It mounts in the servo press base.
- 1:05 I'll load the program. You can find out more about writing programs by watching our servo press programming video.
- 1:15 Let's press the first bearing. The machine plots force and position as it presses. There are live readouts for force, position, speed, and time.
- 1:26 And here's a close up. You can see the live data on the screen. The servo press can acquire position, force, and time data as it runs and save the data to a file. The data is saved in a comma separated value file that can be downloaded through USB or Ethernet.
- 1:44 I'm using a spreadsheet open a file. You can use any spreadsheet that can

import a .CSV file.

- 1:51 The servo press shows up as removable disk. Navigate to the export data folder. Data files are stored in sequential folders that are automatically created by the machine. The data files are also created sequentially. Open the file and import the data.
- 2:08 The data is in three columns; time in seconds, position in millimeters, and force in Newtons. I'll select the position and force columns and insert a chart, XY, lines only. Here we can see see the force versus position data from the press operation.
- 2:28 At Dexter Precision we offer our testing service. Send us some sample parts and let's discuss your objectives. We can send some press data and video of the operation.
- 2:38 For more information check out our website at dexterprecision.com