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Servo Press Overview Video Transcript

- 0:02 I'm Paul Johnson with Dexter Precision. We make electromechanical servo presses with capacities from five hundred newtons to twenty-five kilonewtons. The smaller presses are perfect for applications such as wire crimping, installing electrical connectors, and assembling medical devices.
- 0:16 The larger presses are suited for pressing bearings, metal forming, crimping and staking.
- 0:24 This is our DS20 servo press. It has a two kilonewton capacity and a one hundred millimeter stroke. This one has an optional two-hands start operator control.
- 0:33 All of our presses have welded steel C-frame bases with T-slot tables.
- 0:38 Let's take a closer look. An AC servomotor and synchronous belt system drive a ballscrew inside this actuator to move the ram. The ram has an integrated loadcell that provides force feedback to our thirty-two bit controller.
- 0:55 The controller provides an operator interface with a seven inch display and a keypad. It controls the ram and acquires force data from the loadcell.
- 1:03 Programming is done right at the controller. No additional software is necessary.
- 1:07 The machine can press to a distance from where it detects the part, press to a force, or press to a position.
- 1:13 As the machine runs it can display, record, and analyze force and position data. Force and position data are displayed on the screen in real time.

- 1:23 Digital meters show force, position, speed, and time.
- 1:27 A selection of analyzers, tests, and windows can be programmed to evaluate the test data and ensure that it meets requirements.
- 1:36 The controller can acquire and store force, position, and time data, and save it to a file.
- 1:41 The file can be downloaded through either USB or Ethernet for further analysis.
- 1:46 Here are some of our other presses.
- 1:49 This is our DS75 servo press. It has a seven point five kilonewton capacity and a two hundred millimeter stroke.
- 1:56 This is our DS150 servo press. It has a fifteen kilonewton capacity and a two hundred and fifty millimeter stroke. This one has our optional optical two-hands start operator interface and a workstation base. The base has a quarter inch steel table with a replaceable stainless steel top.
- 2:14 This is our DS250 servo press. It has a twenty-five kilonewton capacity and a three hundred millimeter stroke. At Dexter Precision we can provide customized machines. If you need a special base, table, stroke, or even custom software, contact us. We'll see what we can do.
- 2:31 We also provide a testing service to make sure our press is right for your application. Send us some sample parts and let's discuss your objectives. We can provide test data and video of the press operation.
- 2:42 For more information check out our website at dexterprecision.com