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## Ball Joint Boot Test Machine

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### DESIGNED TO RUN THE NEW FORD KEY LIFE TEST

In order to satisfy today's demanding customers, Ford Motor Co. has developed a stringent new test for boots protecting ball joints. Among the test requirements are the following:

- Block cycle of articulation of joint
- Rotation of joint
- Air temperature range from -40°C to +80°C
- Slurry with independent nozzles
- Cooling of slurry to -15°C
- Environment humidity control
- Adjustable start/stop position of articulation

DTE has responded with a machine specifically developed to run this demanding test. The machine is supplied as a turn-key system and includes the following components:

- Two environmental chambers containing five specimens each (This machine can run two independent tests of five parts each, or one test with up to ten parts.)
- Servo-Hydraulic control of articulation using fatigue rated actuators
- Environmental conditioning unit for controlling air temperature and humidity
- Slurry system including refrigeration and agitation system
- Independent flow controls for each specimen



Similar machines manufactured by DTE have been in operation for many years. They have a history of reliability due to a robust design using proven materials, components, and control systems.

Control of this machine is accomplished with an industry standard PLC control system, eliminating expensive proprietary computer systems often used on test machines. Additional purchased components are commercially available and are proprietary, as is customary with some test machine manufacturers.

Services required:

- (1) 80 amp electrical drop
- (1) 60 amp electrical drop
- 12gpm water at 85°F
- 3/8" compressed air line