

KES

Method of Tensile Fatigue
Test for Steel Plate

KES T – L484

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Quoted Standard

1. Scope of application

This standard shall specify the fatigue testing method by using standard metallic fatigue test plate at normal temperature and at normal atmosphere with 10-ton MTS fatigue tester in our company to achieve more than 10^4 times repeating fatigue life.

2. Test sample

- 2.1 Use plate for a test sample.
- 2.2 The size of standard test sample is shown in the figure 1. If the thickness of test raw material differs from that of standard test sample, add steel plate for thickness compensation to the test sample.

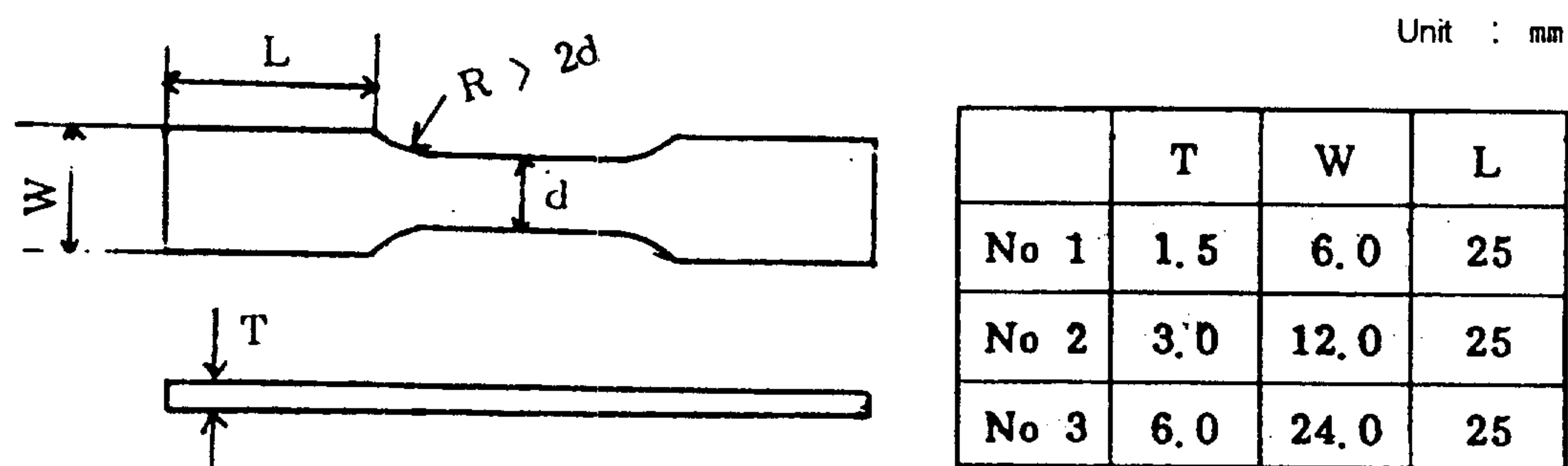


Figure 1: Fatigue test sample for 10-ton MTS

- 2.3 In case of machining the test sample such as cutting and grinding, be careful that no severe processing deformation occur in a test sample and a test sample should not be heated too much. To remove burr in a test sample due to machining process like cutting and grinding, use finer sand paper gradually, and polish it with #320 sand paper or finer at final stage.
- 2.4 Edge of plate sample is required to have appropriate curvature of radius.
- 2.5 Be careful that the test sample has no rust (An oxidized substance) or damage after processing.