

KES

Tension and Compression
Fatigue Test Standard for Steel

KES T – L201

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1. Scope of Application

This shall regulate fatigue tension-compression test method for metal material with standard test sample performed at room temperature with more than 10^4 repetition fatigue life.

2. Purpose

This shall be for tension and compression fatigue test for metal material.

3. Test Equipment

Tester should load required load quickly and stably. Tester should have tool counting repetition number to cutting of sample.

Tester should have re-operation protecting tool when tester stops by electric failure or other reason.

4. Test Sample

- (1) Test sample shall be circular or plate shape in principle.
- (2) When machining sample by cutting or polishing, protect prominent deflection of sample and heat. To remove machined mark of sample machined, polish it with smooth sand paper sequently and with one more smoother than #320 finally.
- (3) Circumference of plate shape sample should be given proper R.
- (4) Care for rust or scar of sample after polishing.
- (5) Dimension of sample should be within + 0.5 % at least.

However, measure to 0.01 mm precision when dimension is less than 2 mm.

- (6) Plate width and thickness measurement method for plate shaped sample

- (a) Measure diameter of plate shaped sample at two directions crossing in the same