Abstract

EDM wire cut machines has a high working accuracy makes people use to cut workpiece that needs a high accuracy. However many workpiece to work has a small size or do not have any part to clamp on the machine table resulting unworkable on the machine.

One of the methods solving it is to use a helping tool (fixture) to hold the workpiece that is small or do not have any part to clamp.

The fixture designed resulted from several clamping concepts. Fixture also strong enough to hold work piece with maximum weight of 5 kilograms. Fixture was also tested on capability by testing the difference of heights on flatness setting, weighing test to 5kg, workpiece cutting test for round and square workpiece and also testing the result of cutting workpieces.

The result show that fixture designed can work properly and the result of cutting fulfill the tolerance standard.

Keyword: small workpiece or do not have parts to clamp, fixture cylindrical and square workpiece, testing.