

ISSUE REVISION	2/3/2014	DATE: 2/3/2014	PAGE: 1 OF 3	Advisor: Dr. Nancy Ruzycki Author: Jared Carter
The University of Florida		<b>Title: Instron Satec Impact Tester</b>		

- *Personnel performing this procedure will have training provided by trained UF personnel.*

## I. PURPOSE

The purpose of this SOP is to describe the usual steps for using the Instron Satec impact tester

## II. PERSONAL PROTECTIVE EQUIPMENT (PPE)

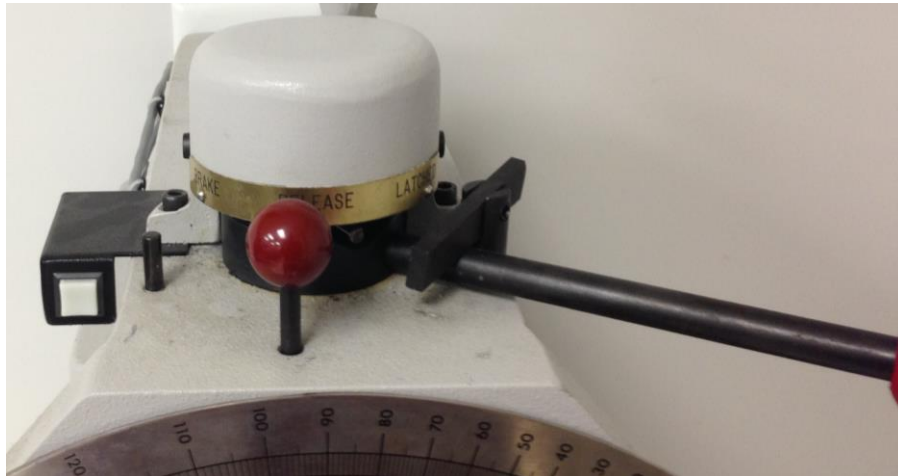
- Users must stand behind blue line on the floor when impact tester is being used
- Safety glasses must be worn
- **\*\*ONLY ONE OPERATOR MAY USE THE MACHINE AT A TIME\*\***

## III. PROCEDURE

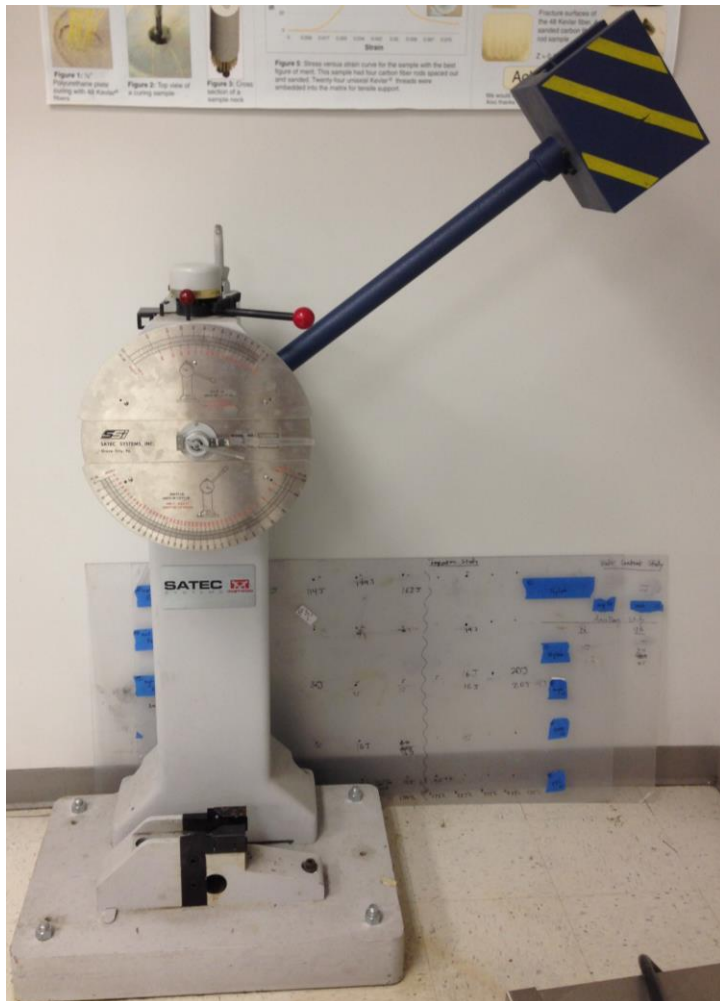
1. Start Fracta software
2. Swing lever to “LATCHED” position (as shown in figure 1)
3. Pull hammer up until it locks into position as shown in figure 2. This is the second position that it can latch to.
4. Load sample as shown in figure 3. The notch should face away from the hammer
5. Make sure the area around the tester is clear.
6. Press the white button shown in figure 1. This prepares the software to record data
7. Swing the lever from the “LATCHED” position to the “RELEASED” position **NOTE: THIS REQUIRES A CONSIDERABLE AMOUNT OF FORCE**
8. After the sample is broken, remove the red pin and swing the lever into the “BRAKE” position.
9. After the hammer stops swinging, return the lever to “RELEASE” position and replace the pin
10. Retrieve your sample

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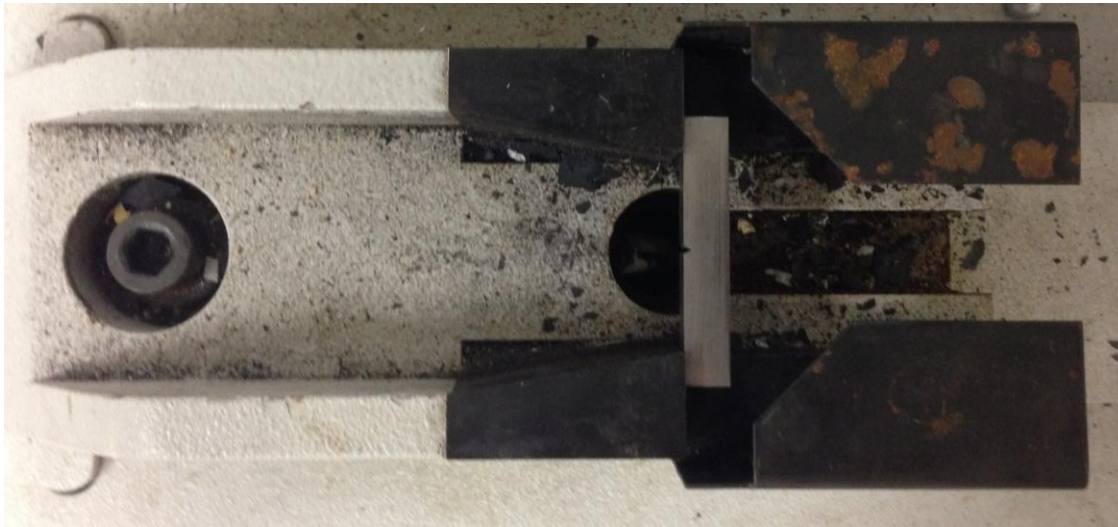


**Figure 1:** Lever positions (L to R: BRAKE, RELEASE, LATCHED)  
White button and red pin also shown



**Figure 2:** Hammer in correct position

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**Figure 3:** Sample loaded correctly (Hammer swings from right to left)