

Figure 1. Illustration of the test set-up. Looking at the top of the magazine box cross-section.

The block was placed at the front of the magazine box to prevent the box from distorting during the tensile testing. The total force required to fail the box was reported from the Instron load cell. The shear strength per weld was calculated by dividing the total force by 4 (divide by 2 to determine the force per side, then divide by 2 again to determine the force per weld (2 welds on 1 side of the box)).

Figure 2 shows a graphical presentation of the data collected for all four of the tested samples. The testing results form the conclusion that the production boxes are much stronger than the DAT sample magazine boxes. The DAT boxes should be replaced with current production boxes as soon as they are available for test.

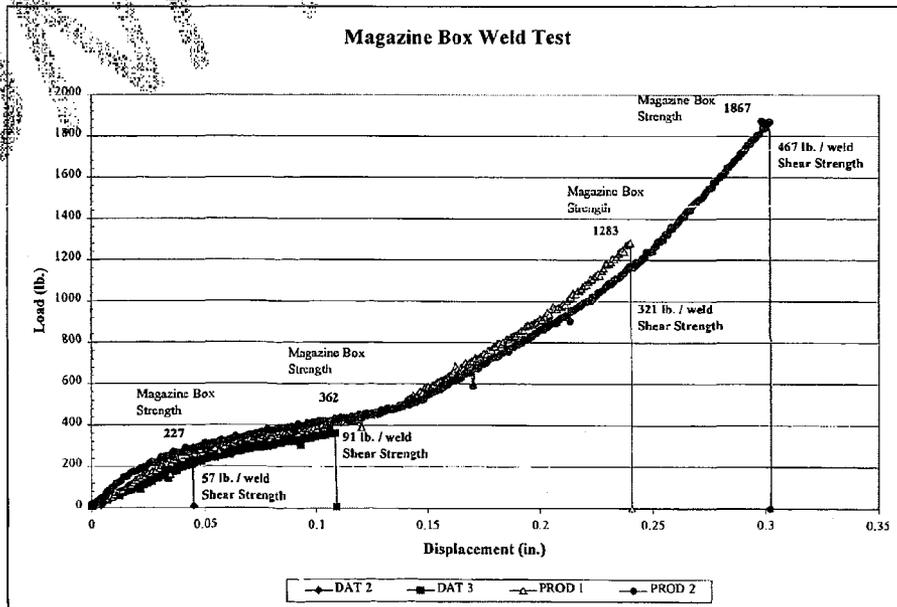


Figure 2. Chart of the testing results of the four tested magazine boxes.