BULLET SWAGING PRESS TESTING

Our AbD bullet swaging presses have been subjected to extensive testing to ensure we have the maximum available press force available with minimum handle force input. In other words, let the press do the hard work, not your arm.

The highest forces are developed in the press when the handle is approximately square on to the ram shaft, as seen in the photos.

To carry out this testing we have manufactured a special press handle that holds a miniature electronic load cell that is accurate to within 1% of full scale. The handle has a toggle arrangement end on it rather than the usual swivel ball supplied with our presses, and this allows the force being applied by your hand to be measured when using the press. The test handle length to the centre of the load cell is the same as the normal press handle to the centre of the swivel ball.

A second high accuracy electronic load cell is then positioned between the micrometer stopper and the moving plattern of the press and records the increased force generated by the press.

A portable readout unit is then connected to these two load cells, and it records simultaneously the two forces being generated by the press mechanism.

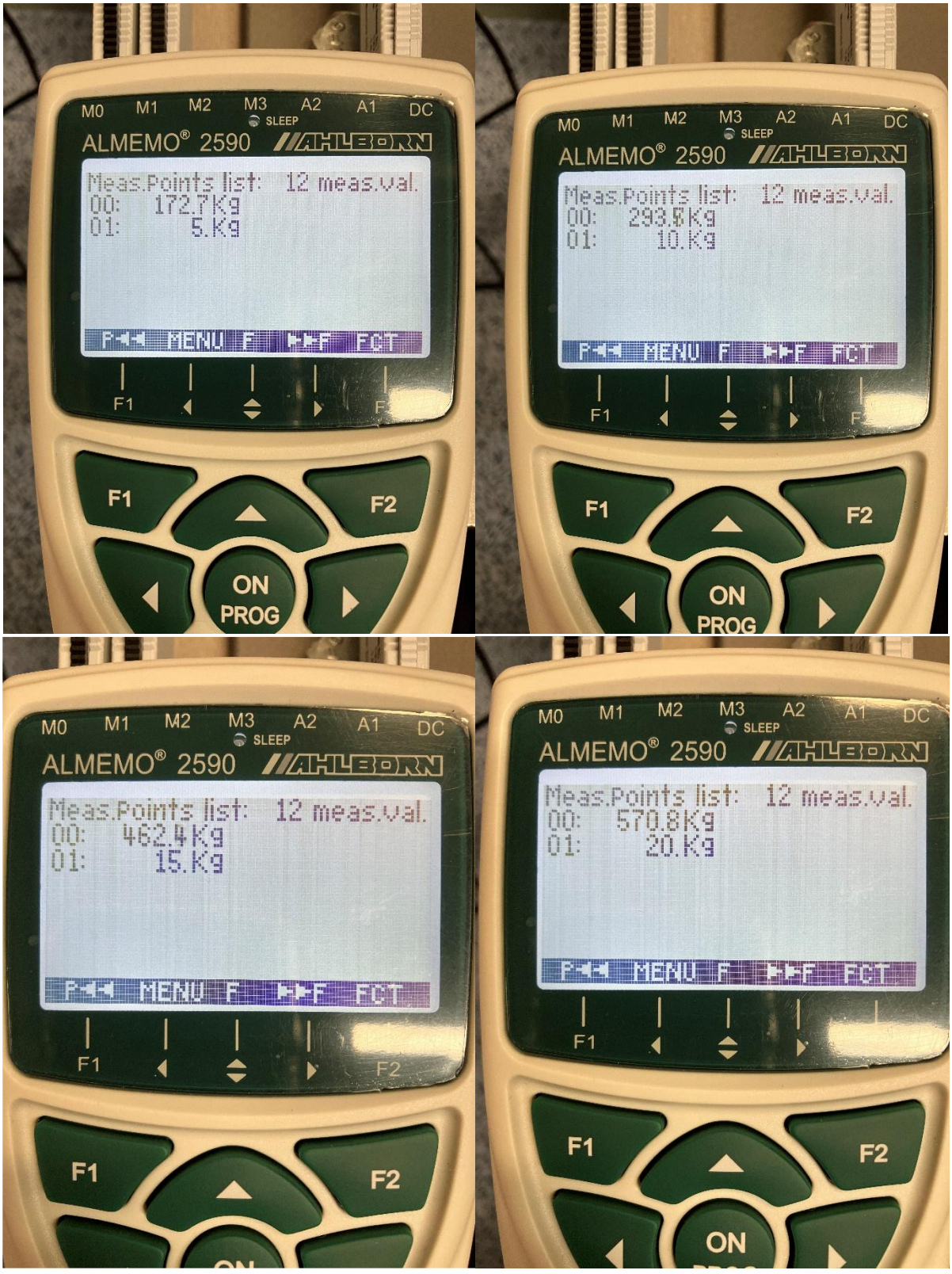
The readout photos show the input force in kilograms and the resultant force created by the press mechanism. We have shown four different operating scenarios.

We have tested the press to over 600kilogram (1322lbs/force) output force, but it is unlikely you will ever need to use that level of force to swage any bullets or during reloading.

We believe this press is one of the strongest and most accurate swaging and reloading presses on the market.

Press Test Handle and Loadcell

Press Output Force Loadcell



The photos show the results of four different handle forces being applied to the press and the resulting force generated on the moving plattern. The average mechanical advantage generated by the press is **30.7:1.**

- 5kg/f input gives 172.7kg/f output. 11lbs/f gives 380.7lbs/f.
- 10kg/f input gives 293.5kg/f output. 22lbs/f gives 647lbs/f.
- 15kg/f input gives 462.4kg/f output. 33lbs/f gives 1019.4lbs/f.
- 20kg/f input gives 570.8kg/f output. 44lbs/f gives 1258.4lbs/f.