

Kick Drum Beater Ball:

This new Kick Drum Beater Ball utilizes state of the art materials in the construction of an ultra light weight beater head with a very resilient stem. This new beater ball features the ability to be purchased in a kit that gives the player a dozen or more custom settings or playing feelings by the introduction of user selected and removable weights to the inside tubular shaft that lies perpendicular to the striking face of the Beater. These weights set the mass of impact and they also set the timing of that impact by virtue of their length or the combined length of several weights.

This beater uses a very broad radius face for maximum surface contact on the drum head which also greatly reduces friction and head wear. The motion of the weights is similar to that of a dead blow or anti bounce hammer. The secondary impact of the weight traveling inside of the galley just milliseconds after the striking surface contacts the head accomplishes many tasks.

When the beater strikes the drum, a reaction occurs that tries to throw the beater head backwards. This results in a buzz between the striker and the head. This buzz diminishes the energy imparted to the shell, the opposing head, and the audience. The addition of the secondary impact negates this buzz and increases the time of contact and hence the time of compression of the tonal wave. This enhanced compression time, (fast as it might be) results in the Psychoacoustic Perception of greater volume. In fact, the pressure wave is louder but the real power of the perceived wave is in the enhanced compression time due to the imparted energy of the secondary impact. A longer duration of a low note is perceived as louder when it is extended in time and less in actual energy according to the Fletcher-Munson audio curves.

The Beater kit comes with a selection of 3 weights. Each weight is a different mass and length. An add on kit will be available with varying length, and mass weights so that the Player can vary the time delay of the impact, and the imparted mass to the drum giving a totally customized feel to the kit.

The construction of the beater is Stainless Steel and Delrin. The weights will be of Stainless Steel, and Ceramic.