

## Why The Trottermatic Bow is Better

To begin with, the heavy eccentric at the end of the limb has been replaced by a single small lightweight sheave. No other pulley is needed on the limb. The power cable on the Trottermatic is attached to the axle at the end of the limb by means of a steel wire loop which is folded over the ends of the axle.

Draw force curve is controlled by a special shaped cam which is mounted on the body and is synchronized with the opposite cam by cables. The cam is curved to produce the desired draw force curve. The desired power and length of draw is attained by a combination of various length power cables and bow string. Small variations for fine tuning are made by the adjustment screws at the fulcrum of the limb. The Trottermatic bow has a very simple draw stop which also serves as a means of controlling percentage of dropoff at the holding position. This bow also has a string positioning device which, in effect, gives greater power for a given length of draw and peak draw force. With this device the draw starts with the force normally reached at about four inches of draw. This device also eliminates string whip, thus the need for an arm guard. It also reduces stress on string and reduces noise.

This bow also has an automatic arrow rest which holds the arrow between two steel prongs until the arrow is released and travels about four inches, then the prongs retract into the bow leaving only the pressure plate or button.

Although there are many possibilities for refinement to improve the looks and performance of the Trottermatic Compound Bow, it is my opinion that the basic ideas incorporated into this bow make it better than any other bow on the market today. The bow that I personally shoot has a high sustained level of drawforce without a sharp peak. The last three inches of draw drop from a high level of fifty pounds to twenty-four pounds, yet this bow outshoots other compound bows having a peak draw force of sixty pounds and a thirty-five percent dropoff.

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*Recently a great deal of comment has been made about the fact that this bow is much more stable than any other bow on the market. It has practical no tendency to jump forward upon release of the arrow as is the case with other bows. (This seems to make stabilizers unnecessary for target shooters.)*