How to Minimize Arrow Weight Variance

1. Calculate desired overall arrow weight by adding the weight of the point/broadhead, insert (if used), fletching (vanes/feathers), outsert (if used), and nock. Then multiply grains per inch by the estimated length of the shaft (typically equal to or 1 inch more than your draw length). Add the two figures together for an estimated overall arrow weight.

2. Shafts

- Cut shafts based on your desired overall arrow weight
- Use an arrow squaring device on both ends of the shaft
- Wash shafts inside/outside – let dry (use gun cleaning patches to dry the inside)
- Weigh and sort shafts on a table from heaviest (top) to lightest (bottom)

3. Inserts (skip steps 3 and 4 if you do not use inserts)

- Weigh and sort inserts on a table next to the shafts from top (lightest) to bottom (heaviest)

*This will match lightest inserts with heaviest shafts

- Install Inserts
- Square the end of the insert with an arrow squaring device

4. Weigh and sort arrows on a table from heaviest (top) to lightest (bottom)

5. Nocks

- Weigh and sort nocks on a table next to the arrows from lightest (top) to heaviest (bottom)

*This will match lightest nocks with heaviest arrows

- Insert nocks (use a little string wax on the portion that goes into the shaft)

6. Arrows

- Weigh and sort arrows on a table from heaviest (top) to lightest (bottom)

7. Fletching (Vanes/Feathers)

- Weigh groups of fletching (3 or 4 fletch)
- Try to create consistent groups by weight

8. Nock End of Arrows

- Clean with AAE Arrow Cleaner (wipe dry)
- Fletch arrows

9. Points/Broadheads

- Weigh and sort points/broadheads on a table next to the arrows from lightest (top) to heaviest (bottom)

*This will match lightest points/broadheads with heaviest arrows

10. Install Points/Broadheads

- Weigh arrows
- Spin test arrows

11. Number or Label Arrows

- Keep track of any arrows that do not group with the others

The rest is up to you!