

EVOLUSION ARROWS HUNTING SHAFT SELECTION CHART*

COMPOUND BOW + IBO VELOCITY 330 FPS + RELEASE AID

ARROW SHAFT LENGTH is the CARBON ONLY measurement of the arrow. ARROW SHAFT LENGTH does not include any extra length of the point, insert, half-out or nock.

AMO DRAW LENGTH OF ANY BOW is measured with the bow at full draw, from the nock throat on the bowstring to a point level with belly of the bow grip PLUS 1.75 inches. This puts the end of the arrow carbon about 1/4 inch forward of the bow riser.

COMBINED POINT WEIGHT IS THE BROADHEAD + INSERT COMBINED WEIGHT. SUBTRACT THE WEIGHT OF YOUR INSERT FROM THE COMBINED POINT WEIGHT, TO FIND THE BROADHEAD WEIGHT REQUIRED.

The number/s on left side of each field represents ARROW SPINE which indicates arrow shaft STIFFNESS. A SMALL SPINE NUMBER = STIFFER ARROW and a LARGE SPINE NUMBER = WEAKER ARROW.

The numbers to the right in each field represent the **recommended** point weight range (in grains) for each combination of shaft length / draw length / draw weight / arrow spine.

REMEMBER: Changing point weight changes the dynamic spine of the arrow. A heavy point causes the shaft act weaker and a light point causes the shaft act stiffer. Point weight has a direct effect on arrow tune.

| SHAFT LENGTH CARBON ONLY | 25 inch | 26 inch | 27 inch | 28 inch | 28.5 inch | 29 inch | 30 inch | 31 inch | 32 inch | SHAFT LENGTH CARBON ONLY |
|-----------------------------|---|--------------------------------------|---------------------------------------|---|---|---|---|---|---|-----------------------------|
| BOW DRAW LENGTH | 25.5 inch | 26.5 inch | 27.5 inch | 28.5 inch | 29 inch | 29.5 inch | 30.5 inch | 31.5 inch | 32.5 inch | BOW DRAW LENGTH |
| DRAW WEIGHT | ARROW SPINE AND <u>COMBINED POINT WEIGHT</u> (Insert + Broadhead) | | | | | | | | | DRAW WEIGHT |
| 40 LB | NO SPINE AVAILABLE | 600 145 | 600 105 500 175-170 | 500 145 | 500 120 | 400 220-195 | 400 170-155 | 400 120 350 205-180 | 350 155-145 | 40 LB |
| 45 LB | 600 145 | 600 105 500 180 | 500 145 | 400 205-195 | 400 195-175 | 400 180-155 | 400 120 350 205-180 | 350 155-145 | 300 210-180 | 45 LB |
| 50 LB | 600 105 500 175 | 500 145 | 500 105 400 205 | 400 180-170 | 400 155-145 | 400 120 350 195 | 350 170-145 | 300 220-195 | 300 180-155 T275 235-205 | 50 LB |
| 55 LB | 500 145 | 400 210 | 400 180-170 | 350 205-195 | 350 180-170 | 350 170-145 | 300 230-195 | 300 180-155 T275 235-205 | T275 210-195 250 260-230 | 55 LB |
| 60 LB | 400 220 | 400 180-170 | 400 145 350 205-200 | 350 175-145 | 350 155-145 | 300 235-205 | 300 180-155 T275 260-230 | 300 145 T275 210-180 | 250 235-195 | 60 LB |
| 65 LB | 400 180-170 | 350 220-205 | 350 180-170 | 300 235-205 | 300 195-180 | 300 195-170 T275 260-230 | 300 145 T275 210-180 | T275 230-180 250 235-195 | 250 195-170 | 65 LB |
| 70 LB | 400 155-145 | 350 195-170 | 350 145 300 230-220 | 300 210-170 | 300 180-155 | T275 230-180 250 285-260 | 250 240-205 | 250 195-180 | NO SPINE AVAILABLE | 70 LB |
| 75 LB | 350 195-170 | 350 145 300 235-220 | 300 210-175 T275 260 | 300 170-145 T275 235-205 | T275 210-180 250 285-235 | T275 180 250 260-220 | 250 210-180 | NO SPINE AVAILABLE | NO SPINE AVAILABLE | 70 LB |

EVOLUSION ARROWS® INSERT SPECIFICATIONS

.2445 (6.2 mm) ID RAPTOR / RAPTOR X: STANDARD ALU INSERT WEIGHT IS 20 GRAINS. OPTIONAL BRASS (75/50 gr) OR STAINLESS STEEL (75/55 gr) INSERTS ALLOW A HIGHER COMBINED POINT WEIGHT.

.204 (5.2 mm) ID TOMAHAWK: STANDARD S/S HALF-OUT WEIGHT IS 55 GRAINS. THE OPTIONAL ZT OUTSERT SYSTEM WEIGHS 85 GRAINS, ALLOWING A HIGHER COMBINED POINT WEIGHT.

IF YOU NEED HELP DETERMINING YOUR CORRECT ARROW SPINE - please contact Evolusion Arrows via the [website contact page](#).

WE WILL OFFER OUR RECOMMENDATION** IF YOU INCLUDE THE FOLLOWING DETAILS ABOUT YOUR SET-UP:

BOW DRAW WEIGHT, DRAW LENGTH, BRACE HEIGHT, AXLE TO AXLE SPEC AND FACTORY SPECIFIED IBO SPEED RATING. THE BROADHEAD WEIGHT AND THE VANE CONFIGURATION YOU PREFER.



NEVER SHOOT AN ARROW AND POINT COMBINATION THAT IS TOO WEAK IN SPINE! Doing so will INCREASE THE RISK of arrow or equipment FAILURE and POSSIBLE INJURY to yourself or by-standers.

* Spine and combined point weight recommendations allow for optimum arrow FOC (Front-Of-Centre) values. Evolusion Arrows may alter the arrow spine selection figures in this chart if product specifications change.

** Please note that a perfectly matched arrow may never fly true if your bow is not correctly tuned.