

# Launch Angle



Launch Angle is the angle the ball takes off at relative to the horizon

**Launch angle is highly correlated to dynamic loft.**

Launch angle will always be a little less than dynamic loft, but will have a similar value.

Along with ball speed, launch angle is a primary component to determining the height and distance of a shot.

Every golfer should be fitted to achieve the optimal balance of launch angle and spin rate based on their club speed and ball speed.

## **Technical Definition:**

*Launch Angle – The vertical angle relative to the horizon of the golf ball’s center of gravity movement immediately after leaving the club face*

## Tour Averages

### **PGA TOUR**

Driver – 10.9 deg

6 iron – 14.1 deg

### **LPGA Tour**

Driver – 13.2 degrees

6 iron – 17.1 degrees

### **Male Amateur (Driver)**

Scratch or Better – 11.2 degrees

5 HCP – 11.2 degrees

10 HCP – 11.9 degrees

Average Golfer (14.5) – 12.6 degrees

Bogey Golfer – 12.1 degrees

The standard assumption for launch angle comes from Optimizer. For the driver, a club speed of 94 mph, attack angle of 0 degrees, and optimized carry results in a launch angle of 13.6 degrees. For a 6-iron, a club speed of 80 mph and mid-trajectory results in a launch angle of 16.9 degrees. For a PW, a club speed of 72 mph and mid-trajectory results in a launch angle of 26.7 degrees.