

2004
Shaft Fitting
Addendum

Chapter 4
DSFI Listings

© Copyright 2004 DYNACRAFT GOLF PRODUCTS, INC.
All rights reserved. May not be reproduced in any form without
written consent from Dynacraft Golf Products, Inc.

THE DSFI FITTING PROCEDURE

This DSFI Fitting Procedure is more in-depth than in the past. However, it is important to follow all of the steps in order to better fit your customer. A few factors have been changes compared to that outlined in Chapter 7 of “The Modern Guide to Shaft Fitting”. The new information will supersede that information that has been published in the past. The reason for the change has to do with updating the information based on field testing as well as information gathered by custom clubmakers who have used the DSFI in the over the years.

Before delving further into the text, there are a few very important issues to address. First is the concept of the Dynacraft Shaft Fitting Index (DSFI). The key word is “*Index*” as it is a means of comparing one shaft to another. The index number was then adjusted to reflect something that clubmakers could reference, which is swing speed as a guide to shaft fitting. Over the years, this has served its purpose well as the concept of shaft matching to swing speed is quite common..

Probably the key to remember in this study is that the shafts are compared apples-to-apples under the same testing conditions and the parameters of the shafts were revealed. There are many valid theories on shaft fitting, some of which do not base shaft selection on clubhead speed. This text contains information to help those who fit by clubhead speed, and those that do not, because the information on each shaft is quantified so that one can see just how stiff a shaft is, how much torque, it’s cut weight and the amount of tip stiffness. There will be times where you will find a person who uses a particular shaft well that doesn’t necessarily fit by the book, where as the shaft may be rated for someone who swings much harder or less that what the individual does. It really does not matter, as the final outcome is what is most important anyway. But by knowing what the specifications of that shaft are becomes equally important, because any other shaft with similar qualities would also be a shaft choice for that individual.

Step 1 - Personal interview

Ask questions concerning the golfer’s existing clubs. Chances are if someone is in your shop, then something must be wrong with a particular club(s). Are the existing clubs too heavy, too light or just right? Are the existing clubs too stiff, too flexible or just right? Does the ball go left, right or straight to the target? How far does the person hit a Driver? A #5-iron? Lastly, what are the goals of the golfer?

Some of these questions may have some influence on the shaft selection, especially the weight and the flexibility. Other questions are only for your reference. The ball going right may be influence more by face angle of the woods or lie angle of the irons. The height of the shot will be more influenced by loft than by shaft selection.

Step 2 - Measure existing clubs

It is necessary to measure the golfers existing clubs to help identify the possible shaft selections. If all you have is a swingweight scale, you can measure the overall weight of the club. If the golfer complained the club was too heavy, then all you need to do is find a lighter shaft that what was already in the club(s). For other specifications you may need more sophisticated tools to measure with, such as a frequency analyzer. This way you can compare a Driver or #5-iron to those tested in this addendum.

If the shaft in the golfer’s current clubs is in listed this addendum, you can look up the specifications and analyze why the person is not satisfied with them. Use the previous portions of the addendum as a reference. In cases where the shaft is not listed in this addendum (as in the case with proprietary shafts), get as much information as possible either through measuring the clubs or obtaining as much information from the manufacturer.

Step 3 - Examine the golfer’s swing speed

It is not only important to measure the swing speed with the Driver and/or #5-iron, but also how that speed is obtained through the tempo of the swing. For example, if two golfers both have a 100-mph swing speed with their driver, but one has a fast tempo and the other has a slow tempo, then the two golfers do not necessarily use the same shaft. We shall make adjustments while we measure the golfer’s swing speed.

For accurate clubhead speed recording it is necessary to have the golfer warm up first. After the player hits a few shots, use an accurate swing speed device to obtain the clubhead speed for the Driver and/or #5-iron. To gain a consistent and accurate reading of the golfer's swing speed, have him or her hit a steel shafted Driver or a #5-iron. Take the average of 5 swings with each club.

The swing speed measurements for DSFI were based on the Sportek Swing Analyzer readings or similar device such as the GolfTek Golfswing Analyzer. Many portable units such as the BEL-tronic SwingMate or GRT's StrokeMaxxer will yield similar driver swing speeds on average. However, these devices may yield higher #5-iron swing speeds than the Sportek or Golftek analyzers. As a guideline for #5-iron swing speeds, you can also use the chart below based on #5-iron carry distance. (Note: High elevation areas such as the Rocky Mountain region will yield greater distances than in the chart)

#5-iron swing speed vs. distance chart

Swing speed (mph)	Distance (yds)	Swing speed (mph)	Distance (yds)
40	88	66	146
42	92	68	150
44	97	70	154
46	102	72	159
48	106	74	163
50	110	76	168
52	115	78	172
54	119	80	176
56	124	82	181
58	128	84	185
60	132	86	190
62	137	88	195
64	141	90	199

Step 4 - Determine the tempo and length of the golfer swing

Tempo is important from an accuracy standpoint when selecting shafts. If the golfer has a smooth tempo, the golfer's swing will look almost effortless. A smooth tempo will allow the golfer to opt for a lighter shaft as well as more flexible. A small percentage of golfers would fit into this category.

A golfer with a fast tempo tends to be less consistent from swing to swing. You can spot out a quick tempo by examining the initial part of the downswing. The reversal from the top of the take away to the initial downswing is harder to visualize as compared to the smooth tempo. The smooth tempo, there is a gradual build up of speed throughout the downswing. The fast tempo has the greatest acceleration at the top of the swing; thus this swing type may need a heavier shaft and stiffer shaft as well. The highest percentage of golfers fit into the fast tempo category.

If you cannot distinguish between the smooth and fast tempo swing, this is referred to as a moderate tempo. The moderate swing tempo will most likely need a moderate weight and stiffness shaft. The moderate tempo would consist of a good percentage of the golfers who walk into your shop.

Length of swing plays a factor as well. Typically, a golfer with a longer swing will use a more flexible shaft than someone with the same tempo and swing speed, but with a shorter swing. The reason for this is due to the rate of recovery. In a shorter swing (less than parallel) there is less time to allow for the shaft to load and then return to a square position. Thus the stiffer shaft with the shorter swing will yield more accuracy. As golfers get older, there is

less flexibility that can restrict the swing. Even though the swing speed may decrease, it does not necessarily mean that the shaft flex needs to be decreased.

The golfer with a short backswing and no wrist cock (all arm swing), may need a much stiffer shaft than you would consider based upon their swing speed. Many newcomers to the game as well as many women golfers have this swing tendency. Not having a wrist cock greatly reduces clubhead speed. But as this golfer develops a wrist cock with lessons, their swing speed will increase, thus it is best to recommend a stiffer shaft for them to grow into.

Step 5 - Adjusted DSFI calculations

Tempo

For a **fast tempo golfer with a full swing**, the DSFI rating of the shaft should be very close to the average swing speed of the golfer. For the adjusted DSFI, multiply the average swing speed by 0.97 and 1.02 to give the DSFI range for possible shaft selections. For example, if the golfer had a 100-mph average swing speed, then look for shafts between 97 and 102 DSFI.

For a **moderate tempo with a full swing**, the person is not loading the shaft as much as someone is with a quicker tempo. Thus, the person can opt to go to a slightly more flexible shaft. For the moderate tempo range, multiply the average swing speed by 0.92 and 0.97. For example, if the golfer has an average swing speed of 100 mph, then the DSFI range of shafts to look for would be between 92 and 97. The 97% would be stiffer and possibly less risk of loss of accuracy than the 92%.

For the **slow tempo with a full swing**, the person hardly loads (or deflects) the shaft that much during the swing. This golfer could benefit from a softer shaft than normally would be thought of for a golfer with that swing speed. For example, if the golfer had an average clubhead speed of 100 mph, multiply that amount by 0.87 and 0.92. Thus look for shafts with a DSFI rating between 87 and 92.

If you do not feel comfortable with detecting the tempo of a golfer with a full swing, there is an alternative method. You can choose the higher frequency / higher torque combination for the fast tempo golfer. For the slow tempo golfer opt for the lower frequency / lower torque combination that yields the same DSFI rating.

Golfer's who possess a **short back swing, with a wrist cock**, will need a stiffer shaft to compensate for the shorter distance traveled with the clubhead. Multiply their swing speed by 1.02 and 1.07 to find the DSFI range of shafts appropriate for their swing

Golfer's who possess a **short back swing, without a wrist cock** will need even a stiffer shaft to compensate for the shorter distance the clubhead travels and allow them to grow into the shaft. Multiply their swing speed by 1.15 and 1.20 to find the DSFI range appropriate for their swing.

Length

Length has a direct bearing on the stiffness of a shaft. In Chapter 2 of the "2004 Shaft Fitting Addendum", the shafts were tested at lengths that could be normal lengths based on the weight of the shaft (and it's balance point) with modern head weights to obtain a normal swingweight range. Each shaft in this study will specify what length it was tested at. In many cases, the length we tested the shaft and the length you will be making the club for you or your customer will be the same. In cases where you or the customer need longer or shorter lengths compared to the length the shaft was tested at, adjustments to the DSFI will need to be made.

It is important to realize that clubs made at different lengths than those we tested the shafts at will have an effect on the final DSFI rating. If a club is made shorter, yet the swingweight remains the same by adding additional head weight, then the club will be more flexible. The reason for this is twofold: the increased head weight will make the shaft more flexible, plus removing material from the butt end reduces the stiffest portion of the shaft. The converse

holds true as well. If a club is made longer, but the head weight is reduced, then the shaft becomes stiffer. This is true if the shaft length is adjusted from the butt end only.

For example, many clubmakers have been making graphite-shafted clubs longer than steel-shafted clubs by approximately 1" to maintain a normal swingweight with the head weights that exist in the industry. Using a standard weight steel shaft, 257 gram #5-iron and 50 gram grip, the swingweight is usually D-1 at 37.5". A non-tip heavy graphite shaft built to the same length will need approximately 10 additional grams of head weight. By making the club 1" longer, the swingweight is the same without the additional 10 grams of head weight, thus increasing stiffness. The shaft length, if added to the butt end, being larger in cross-section further increases stiffness.

To make adjustments for non-standard DSFI lengths, you need to divide the adjusted DSFI (from the tempo) by the length constants below. For example, if the golfer needed a 1" overlength driver and had a 100-mph average swing speed with a fast tempo, then the adjusted DSFI would be between 92-102. Now divide the adjusted DSFI by 1.033. The new DSFI range would be between 94-99, taking into account for the length of the club.

Conversion for Extending (+) or Reducing (-) Shafts from the Butt End Only						
Woods	+2"	+1.5"	+1"	+0.5"	-0.5"	-1.0"
	1.075	1.056	1.036	1.018	0.983	0.966
Irons			+1"	+0.5"	-0.5"	-1.0"
			1.033	1.016	0.984	0.969

(Note: not all shafts can be used at that length and obtain the desired swingweight with the weights of the components you have. Consult How To Use This Addendum to Compute Swingweight, Head Weight and Approximate Frequency section in this chapter.)

Swingweight

The men's flex shafts were tested at D-1 and the ladies flex shafts were tested at C-6 for the calculated DSFI ratings. In the world of custom clubfitting, all golfers will not play with one swingweight. Therefore conversions must be made to adjust for non-standard DSFI testing procedures. If the swingweight of a men's flex shaft is less than D-1 (assuming grip weight is not decreasing the swingweight), the shaft becomes stiffer. For example, if the frequency of a club is 250 cpm at D-1, then at C-9 the frequency will be 252 cpm. If the swingweight is higher at D-3, then the frequency will decrease to 248 cpm. For clubs to be built higher than D-1 (C-6 for ladies), add 1 mph to the player's adjusted swing speed for each 2-swingweight point increase. For clubs built lighter than D-1 (C-6 for ladies), subtract 1 mph to the player's adjusted swing speed for each 2-swingweight point decrease.

For example, a golfer has a 100-mph swing speed, but he has a slow tempo with a full swing. The adjusted DSFI for his tempo will be between 87 and 92. If he needs a swingweight of D-5, then the adjusted DSFI based on the swingweight will now be between 89 and 94. Starting out with a slightly stiffer shaft will then be offset by the higher-than-normal swingweight during the assembly.

Grip Weights

The grip weights used to calculate the DSFI for each shaft are listed in the Cut Shaft Data tables. Not all grip that clubmakers use will weight the same as what we used to test the clubs. It is important to know that changes in grip weights or grip sizes do not affect the stiffness of the shaft, only the balance point of the club. The only parameters that affect stiffness of a shaft are the length of the shaft and the weight of the clubhead.

If you are using a lighter grip than what was listed in the Cut Shaft Data to increase the swingweight over the standard DSFI measurement (D-1/C-6), then there is no change in the DSFI swing speed ratings. Remember, the head weight hasn't increased to make the shaft any more flexible. However, if you are using a lighter weight grip than what was used to test the shaft to obtain the standard DSFI swingweight, then this will be the same as using a

lighter swingweight. For example, if you were using a 39g grip instead of a 52 g grip, less headweight would be necessary to obtain the desired swingweight. Thus the shaft would react as if the swingweight was C-9, instead of the D-1 the club actually will become.

If you are using a heavier grip than what was used in the Cut Shaft Data and you will increase the headweight to bring the club back to the D-1 swingweight, and then you will need to make the DSFI adjustments. For example, if you were to use a 68 g arthritic grip instead of a 52 g grip that was used in the testing, the club will be counterbalanced by 4-swingweight point to C-7. To bring it back to D-1, then additional headweight is required and follow the steps above regarding swingweight conversions.

Step 6 - Start looking at the applicable selection of shafts

Study the shafts for a given swing speed range in the back of “The 2004 Shaft Fitting Addendum”. These shafts are labeled either “Men’s Driver Shaft Listing by DSFI Swing Speed Ratings”, “Ladies Driver Shaft Listing by DSFI Swing Speed Ratings”, “Men’s #5-iron Shaft Listing by DSFI Swing Speed Ratings” or “Ladies #5-iron Shaft Listing by DSFI Swing Speed Ratings”. Familiarize yourself with those shafts that are steel or graphite. (Note: On “Men’s Driver Shaft Listing by DSFI Swing Speed Ratings”, it is broken down into two categories. One is the Frequency / Torque method and the other is the Deflection Method. You may want to consult both listings until you get a feel for which method you prefer.)

Step 7 - Take note of cost consideration

Naturally, cost is an overriding factor in fitting a player with a shaft. Determining the best shaft for a player is meaningless if he or she cannot afford the club. Because fitting with DSFI involves considering a wide range of shafts and matching those to a player’s swing, there will be times when the shaft of choice ends up being a potentially expensive investment. After all, individual shafts can range from just under \$4 to well over \$100 or more. Be certain to select the best shaft choice that is within the customer’s budget.

Step 8 - Take note of compatibility with different head types

Not all shafts listed herein can be assembled with any clubhead. Do some homework as to what types of heads are compatible to the shafts. For instance, is the shaft Designed for through bore, no hosel metal woods? For just standard size or jumbo sized metal woods? Is the shaft Designed for all wood head types?

Is the hosel parallel or taper? What is the hosel size? Does the shaft have ample parallel tip length for the hosel length after tip trimming? Is the shaft weight proper for the head weights and lengths that you will assemble the clubs? For answers to these questions consult the Dynacraft catalog or the manufacturer to see if the shafts are compatible with the heads that you have chosen for you’re customers.

Step 9 - Sort shafts by weight and material

Sort shafts by their material(s) - as denoted in the following DSFI listing - and weight(s) whether by request from the golfer or through your own fitting recommendations. For example, is graphite a viable choice for the golfer? If so, should it be standard weight, low balance point or very lightweight?

Remember the fundamental rules of fitting. Whenever a golfer has a quick tempo, opt for a heavier weight shaft in whatever material you are seeking. For slow tempo golfers, they are candidates for using lighter weight shafts. Length of swing can also play importance in the proper shaft weight. The longer the golfer’s swing, potentially they could use a lighter weight shaft, while a shorter golf swing may need a heavier weight shaft for control.

Step 10 - Sort shafts by bend point description or T/B Ratio

Although bend point / or kick point are not distinguished by a large measurable range, as stated in Chapter 6 of “The Modern Guide to Shaft Fitting”, they do impact a definite “feel” difference. For instance, the True Temper Dynamic steel pattern has a stiffer feel in the tip than does the True Temper Dyalite pattern, but yet has the similar DSFI ratings in like flexes.

The T/B Ratio can be helpful to identify shafts that may hit the ball higher than another with the same head. The higher the T/B Ratio, typically the more flexible the tip and subsequently a higher launch angle may occur. Another thing we have found is a shaft with a higher T/B ratio can produce a draw bias, or assist in allowing the clubface to close. For woods, a T/B Ratio of 3.0 or higher could be considered draw bias, while shafts with a 2.2 or lower T/B Ratio could be considered sliced bias, or assist those who hook the ball. For irons, a T/B Ratio of 1.7 or higher could be considered draw bias, while shafts with a 1.4 or lower T/B Ratio could be considered sliced bias, or assist those who hook the ball. Special consideration may be needed for loft and/or face angle on woods.

Step 11 (optional) - Sort shafts by frequency/torque relationship

If you have already adjusted for the tempo earlier, you need not follow this step. This is the alternative step mentioned earlier when adjusting DSFI by the tempo of the golfer. If the golfer has a slow swing tempo, find a shaft with a low frequency / low torque combination within the selected range of shafts. If the golfer has a fast swing tempo, then opt for a shaft with a higher frequency / higher torque relationship within the selected range of shafts. The stiffer shaft will stabilize the clubhead while the higher torque will offset the stiff feel.

Step 12 - Final considerations

Dampening: A more recent development in the shaft industry deals with the dampening properties of shaft. In cases where golfer who have hand, wrist or joint discomfort while hitting golf balls could benefit from the new technology. Shaft materials such as graphite, aluminum and titanium have been known to dampen shock at impact. Newer steel shafts, such as True Temper's SensiCore line and Royal Precision's FCM Rifle also can dampen shock upon impact.

Color: While not a performance issue, the color has some merit when fitting shafts. Does the golfer want a particular color, something flashy or plain? Cosmetically, will the club look like a finished golfer club? Even though the shaft may fit the golfer, would a copper colored head match up with a navy blue shaft and a green grip?

Geometry: Some customers may ask for specific shafts with unique geometric shapes such as large butt, "bubbles" or straight tapered steel shafts. Identify which shafts in the addendum meet these specifications. Consult the Dynacraft catalog or information from the manufacturers as to these types of shafts.

Brand Name Loyalty: Certain customers who come into your shop may ask for specific brand names. For companies that offer a full line of shafts, this should pose no problem finding a shaft that meets the swing speed and tempo requirements of the golfer.

Warranty: Some companies offer a lifetime warranty against breakage from normal use. Some companies may offer only limited warranties. A small factor, but one you may deem important.

Working Example #1

We have a golfer who is looking for graphite shafts in his irons. He normally carries his #5-iron 170 yards. We have determined that he has a full swing with a slow tempo and from dynamic fitting a 38.5" #5-iron is best suited to him. Lastly, he felt the clubhead best with a D-3 swingweight using a normal weight grip. Here are the adjustments to find the appropriate range of shafts that would work for him.

Examining the swing speed vs. distance chart, 170 yards would approximate a 77 mph swing speed with his #5-iron. Next we adjust for his tempo. With a slow tempo, we multiply his #5-iron swing speed by 0.87 and 0.92. The adjusted DSFI range is between 67 and 71.

Next we adjust for the non-standard DSFI swingweight of D-1. Because we are using a standard weight grip, we will add 1 mph to the adjusted DSFI range (1 mph equals two swingweights). The adjusted DSFI range is now between 68 and 72. Now find the Men's #5-iron Shaft Listings by DSFI Ratings section.

Working Example #2

In another example, we have a lady golfer who has a short back swing with no wrist cock. We have determined from a dynamic fitting a 36.5" #5-iron is best suited to her. Lastly, she liked the feel of a graphite shafted demo club with a C-2 swingweight using a normal weight ladies grip. Here are the adjustments to find out the range of shafts that will work best for her.

We measured her swing speed with a #5-iron and find it to be 52 mph. Next we adjust for the tempo. With a short back swing and no wrist cock, we multiply her #5-iron swing speed by 1.15 and 1.20. The adjusted range would be between 60 and 62.

Next we adjust for the lighter C-2 swingweight. Since the swingweight is lower than C-6, we need a more flexible shaft. For each 2 swingweights, we will subtract 1 mph off the adjusted DSFI range. The new range is now between 58 and 60.

Now find the Ladies #5-iron Shaft Listings by DSFI Ratings section and look at the appropriate shaft choices in the adjusted DSFI range.

Special Consideration

In some cases, a shaft selection may not be close to the golfer's adjusted swing speed range, due to cost, material, weight, etc. In these situations, pick a shaft that is the closest fit to the parameters required by the golfer. It may not be an exact match, however it will be a safer selection than other shafts with DSFI ratings further from the actual swing speed of the golfer.

How to Use This Addendum to Compute Swingweight, Head Weight and Approximate Frequency

Example: We will use the Dynacraft Dynatech FWL wood shaft in an R-flex. The shaft was tested at our standard length of 43" and standard swingweight of D-1, but we want to make the club 44" with a swingweight of D-0. How much head weight do we need and what will be the approximate frequency?

Head wt	Grip wt	CPM	Swingweight	Length
211.1 g	50.0 g	253	D-1	43"

First, let us change the length to 1" longer. Remember that for each ½" addition in length will result into a 3 swingweight-point increase.

Head wt	Grip wt	CPM	Swingweight	Length
211.1 g	50.0 g	???	D-7	44"

What would be the approximate frequency of the club become with the changes? Since the swingweight is 6 points higher, the frequency will go down 1 cpm per swingweight, so the final result will be:

Head wt	Grip wt	CPM	Swingweight	Length
211.1 g	50.0 g	247	D-7	44"

If we wanted the swingweight to be D-0, how much head weight will be necessary? Examine the chart to see how much weight is required per swingweight and length. At 44", each swingweight requires 1.65 grams. To reduce the swingweight from D-7 to D-0, then we would need to reduce the gram weight by 11.6 g.

Head wt	Grip wt	CPM	Swingweight	Length
199.5 g	50.0 g	???	D-0	44"

What would the adjusted frequency be in this case? Since the swingweight is 7 points lower, the frequency will increase by 7 cpm.

Head wt	Grip wt	CPM	Swingweight	Length
199.5 g	50.0 g	254	D-0	44"

What happens when we will use a grip weight different from that tested in the addendum? If we take our previous scenario, but change the grip weight to 65 grams, what would be the new swingweight? Remember, for each 5 grams of grip weight compared to what was listed, the swingweight will change by 1 point. Therefore 15 grams of additional grip weight will decrease the swingweight by 3 points.

Head wt	Grip wt	CPM	Swingweight	Length
199.5 g	65.0 g	254	C-7	44"

Notice that the frequency of the club did not change. There are only two factors that affect frequency; head weight and length. By changing grip weight, there is no change to the frequency of the club. However, your frequency analyzer may pick up a small change due to the density or pressure exerted on the clamping mechanism.

If we use the same scenario, but want to have a swingweight of D-2, how much head weight will be necessary? Remember, 1.65 grams per swingweight is needed at 44". So a change in 5 swingweight is 8.3 g.

Head wt	Grip wt	CPM	Swingweight	Length
207.8 g	65.0 g	???	D-2	44"

What will be the final frequency of the club become now? Since we are adding 5 swingweights to the club, the frequency will be reduced by 5 cpm.

Head wt	Grip wt	CPM	Swingweight	Length
207.8 g	65.0 g	249	D-2	44"

These examples are made to show you how to use the addendum to figure out ahead of time what the parameters might be if you were to built the club differently than what was tested. Your results may vary slightly due to the tolerances of the components such as raw shaft frequency, shaft weight and balance point. The lie angle of the head as well as its center of gravity could also have an influence on the final outcome.

CLUB LENGTH & SWINGWEIGHT			
Driver Length	Grams/Swingweight	5-iron Length	Grams/Swingweight
45"	1.60	39.5"	1.95
44.5"	1.63	39"	1.98
44"	1.65	38.5"	2.03
43.5"	1.68	38"	2.07
43"	1.71	37.5"	2.11
42.5"	1.74	37"	2.16
42"	1.77	36.5"	2.21
41.5"	1.80	36"	2.26
41"	1.84	35.5"	2.31

Men's Driver Shaft Listing by DSFI Ratings

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Paragon	Pro X2	A	77.9	221	29	9	3.2	8.63	44"	67
Graman	CF310	A	63.3	219	32	10	3.2	5.03	43"	71
Paragon	Lite Touch	A	59.5	241	39	16	2.4	6.98	43"	74
Paragon	PV	R	64.8	244	42	16	2.6	7.16	43"	74
Innovative	Compression 35	R	69.7	240	44	15	2.9	6.04	43"	75
Paragon	PV	S	66.2	250	47	17	2.8	7.75	43"	75
Advance Carbon Design	LW	A-	73.0	226	33	8	4.1	5.61	44"	75
Penley	Graphite Light	A	66.3	222	18	11	1.6	6.19	45"	75
Rapport Composites	Synsor Lite	A	63.6	242	37	14	2.6	7.01	44"	76
Aldila	Excelerator	R	73.9	233	35	11	3.2	5.86	44"	76
Aldila	V2000 Plus	R	69.0	232	34	11	3.1	5.83	44"	76
Graman	CF310	R	66.7	244	43	15	2.9	5.59	43"	77
Paragon	Lite Touch	R	61.1	255	46	19	2.4	7.56	43"	77
Advance Carbon Design	LW	A	73.5	229	35	10	3.5	5.23	44"	77
Paragon	Pro X2	R	83.4	254	45	13	3.5	8.76	44"	77
Accuflex	Icon Lite	S	41.2	226	28	14	2.0	5.94	45"	77
Advance Carbon Design	UL	A-	62.1	225	28	7	4.0	5.56	45"	77
Aldila	VX	R	75.5	250	43	14	3.1	6.26	43"	78
Paragon	Lite Touch	S	61.7	256	48	19	2.5	7.04	43"	78
SK Fiber	V.I.P.	A	64.0	227	29	6	4.8	5.57	45"	78
Aldila	Excelerator	A	69.7	236	36	13	2.8	5.41	44"	79
Dynacraft	Copperhead	R	66.7	241	37	12	3.1	5.78	44"	79
Penley	Tour Light	A	59.8	222	23	6	3.8	4.55	45"	79
UST	ProForce XL	A	53.1	224	27	6	4.5	4.84	45"	79
Advance Carbon Design	UL	A	64.7	229	32	7	4.6	5.41	45"	79
Rapport Composites	Cirrus OS .365"	R	61.9	226	30	18	1.7	5.03	45"	79
Aldila	VL	A	69.1	246	35	13	2.7	5.21	43"	80
Harrison	Tour Classic II A&R	A	83.1	244	41	14	2.9	4.82	43"	80
UST	Competition Pro	A	73.4	244	39	15	2.6	5.75	44"	80
Advance Carbon Design	LW	A+	74.5	236	35	11	3.2	5.07	44"	80
Aldila	Excelerator 60	A	61.8	238	34	12	2.8	6.11	45"	80
UST	Super 47	R	46.4	233	32	10	3.2	5.45	45"	80
True Temper	Dynalite	A	99.4	232	35	13	2.7	3.46	43"	81
Graman	CF310	S	68.2	252	47	18	2.6	5.41	43"	81
Rapport Composites	Oracle Plus	A	78.9	240	37	13	2.8	5.00	44"	81
Advance Carbon Design	LW	R-	74.4	237	37	10	3.7	4.85	44"	81

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Aldila	V2000 Plus	S	70.2	249	42	14	3.0	5.64	44"	82
UST	ProForce ATR	A	67.9	227	29	8	3.6	4.19	45"	82
Grafalloy	ProLaunch 45	R	43.4	240	31	12	2.6	5.62	45"	82
Advance Carbon Design	UL	A+	62.5	235	32	7	4.6	5.19	45"	82
True Temper	Release	Men's	101.8	234	35	16	2.2	3.20	43"	83
True Temper	Release SensiCore	Men's	109.4	233				3.21	43"	83
Harrison	Tour Classic II A&R	R	84.8	250				4.64	43"	83
Rapport Composites	Advent	A	78.2	245	36	11	3.3	5.07	44"	83
Advance Carbon Design	LW	R	75.1	241	39	10	3.9	4.51	44"	83
Paragon	Low Torque EX	R	78.0	247	42	16	2.6	5.13	44"	83
Accuflex	Icon v.3	R	64.6	240	33	15	2.2	5.43	45"	83
Penley	Tour Light	R	59.0	233	28	11	2.5	4.59	45"	83
Royal Precision	Precision Lite	A	105.8	236	39	13	3.0	3.24	43"	84
MCC	MFS 30+	R	76.0	258	48	18	2.7	5.14	43"	84
Rapport Composites	Advent	R	78.9	250	36	13	3.0	5.12	44"	84
SK Fiber	Tour Trac 80	R	75.1	246	41	9	4.6	4.70	44"	84
UST	Competition Pro	R	76.7	257	43	17	2.5	5.84	44"	84
Aldila	Excelerator	S	70.4	251	43	13	3.3	5.38	44"	84
Grafalloy	ProLite 45	A	56.6	236	31	9	3.4	4.76	45"	84
Accuflex	Vizion	R	53.4	238	29	8	3.6	4.95	45"	84
Aldila	Excelerator 60	R	62.4	244	37	13	2.9	5.45	45"	84
Grafalloy	ProCustom	R	66.7	246	37	8	4.6	5.88	45"	84
UST	ProForce 55	R	60.0	245	30	10	3.0	5.65	45"	84
Accuflex	Assassin II World Champ	S	62.4	244	36	17	2.1	5.43	45"	84
Grafalloy	ProLaunch 45	S	44.3	247	33	13	2.5	5.71	45"	84
Harrison	Tour Classic II R&F	R	85.2	256	48	16	3.0	4.59	43"	85
True Temper	TT Lite	A	102.0	239	39	13	3.0	3.23	43"	85
Aldila	VX	S	76.5	265	51	15	3.4	5.49	43"	85
Penley	G2-85	S	78.8	253	45	25	1.7	4.41	43"	85
Aldila	One 65 High Launch	R	61.6	244	38	11	3.5	4.43	44"	85
Rapport Composites	Oracle Plus	R	75.9	257	40	13	3.1	5.69	44"	85
Advance Carbon Design	LW	R+	75.5	245	38	10	3.8	4.36	44"	85
Dynacraft	Copperhead	S	69.8	258	45	12	3.8	5.77	44"	85
UST	ProForce XL	R	54.7	240	34	10	3.4	4.65	45"	85
Penley	Graphite Light	S	74.2	253	34	18	1.9	6.14	45"	85
UST	Super 47	S	47.3	247	37	11	3.4	5.37	45"	85

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Aldila	Longwood	Std.	62.2	230	31	12	2.6	5.51	47"	85
True Temper	Dynamic Gold SensiCore	R300	110.6	241	42	16	2.6	3.12	43"	86
Dynacraft	Copperhead Filament Wound	R	80.1	258	40	12	3.3	5.32	44"	86
Penley	Stealth 70	R	66.0	250	36	14	2.6	4.50	44"	86
Rapport Composites	Ni-271	R	89.2	255	38	16	2.4	5.03	44"	86
True Temper	BiMatrx	R	68.7	240	34	16	2.1	3.81	44"	86
Accuflex	Pro	R	65.8	249	35	19	1.8	5.31	45"	86
Grafalloy	ProLaunch 55	R	53.2	244	32	11	2.9	4.80	45"	86
Grafalloy	ProLite 45	R	60.0	245	34	11	3.1	4.84	45"	86
SK Fiber	Pure Energy	R	55.2	242	34	8	4.3	4.78	45"	86
Aldila	Excelerator 60	S	64.2	252	40	11	3.6	5.63	45"	86
Rapport Composites	Cirrus OS .365"	S	65.9	243	32	22	1.5	4.89	45"	86
UST	iRoD Fairway	R	69.1	256	45	19	2.4	3.99	43"	87
Aldila	One 65 Mid Launch	R	59.8	246	38	18	2.1	3.98	44"	87
Dynacraft	Filament Wound Lite	R	75.2	255	42	14	3.0	4.83	44"	87
True Temper	Rocket BiMatrx	R	70.8	256	44	16	2.8	4.84	44"	87
Aldila	One 65 High Launch	S	61.6	252	41	13	3.2	4.48	44"	87
Rapport Composites	Advent	S	78.8	262	41	14	2.9	5.48	44"	87
Rapport Composites	Oracle Plus	S	75.4	261	44	16	2.8	5.52	44"	87
SK Fiber	Lite Revolution I	R	57.8	244	35	11	3.2	4.63	45"	87
UST	ProForce ATR	R	68.8	238	32	11	2.9	4.00	45"	87
Penley	Tour Light	S	64.4	246	30	14	2.1	4.68	45"	87
Advance Carbon Design	UL	R-	66.4	243	37	9	4.1	4.39	45"	87
Harrison	Tour Classic II F&S	Firm	89.0	266				4.61	43"	88
Royal Precision	Rifle	4.5	101.0	247	40	16	2.5	3.16	43"	88
Harrison	Boron Gold 46" R&F	R	83.4	256	45	17	2.6	3.79	43"	88
MCC	MFS 40+	R	79.9	255	47	22	2.1	3.67	43"	88
Royal Precision	Precision Lite	R	105.2	246	40	13	3.1	3.10	43"	88
True Temper	TT Lite	R	107.2	244	43	14	3.1	3.04	43"	88
MCC	MFS 30+	S	79.4	269	52	24	2.2	4.90	43"	88
Aldila	One 85 High Launch	R	79.9	240	35	13	2.7	3.31	44"	88
Accuflex	200 Series	S	76.6	268	46	26	1.8	5.75	44"	88
Advance Carbon Design	LW	S-	74.0	245	40	11	3.6	3.66	44"	88
Aldila	NV 65	R	63.1	239	32	14	2.3	3.94	45"	88
MCC	MFS 58+	R	59.7	249	37	17	2.2	4.73	45"	88
Royal Precision	Rifle Graphite 46"	R75	70.1	246	38	16	2.4	4.54	45"	88

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Grafalloy	ProLite 35 - .350"	R	58.4	238	37	18	2.1	3.90	45"	88
True Temper	Crossfire Fairway	R	93.8	248	40	14	2.9	3.09	43"	89
Paragon	Parasonic	R	83.7	259	47	22	2.1	3.91	43"	89
Grafalloy	ProLite Fairway	R	64.4	263	46	22	2.1	4.10	43"	89
Aldila	HM-2000 Tour 85	R	77.6	248	39	15	2.6	3.62	44"	89
Aldila	One 65 Mid Launch	S	59.0	255	41	19	2.2	4.21	44"	89
Dynacraft	Copperhead Filament Wound	S	80.2	268	44	14	3.1	5.34	44"	89
SK Fiber	Tour Trac 80	S	76.0	257	44	12	3.7	4.54	44"	89
UST	Competition Pro	S	77.6	264	48	20	2.4	5.00	44"	89
Aldila	Tour Gold 65-ST	R	62.8	245	33	12	2.8	4.18	45"	89
Dynacraft	Filament Wound Ultralite	R	64.3	252	38	18	2.1	4.87	45"	89
Graphite Design	YS-6	R	60.4	241	33	10	3.3	3.77	45"	89
Rapport Composites	SL Ultralite	R	64.2	242	30	17	1.8	3.97	45"	89
Aldila	Longwood 50/50	R	48.4	247				6.16	47"	89
UST	iRoD Fairway	S	68.1	266	50	23	2.2	4.07	43"	90
Harrison	Professional 46" R&F	R	85.0	260	48	15	3.2	3.64	43"	90
True Temper	Dynamic Gold	R200	111.2	248	42	15	2.8	2.99	43"	90
True Temper	Dynamic Gold	R300	112	249	42	15	2.8	2.98	43"	90
Aldila	One 85 Mid Launch	R	79.3	243	38	19	2.0	3.17	44"	90
Dynacraft	Filament Wound Lite	S	74.5	263	43	14	3.1	4.65	44"	90
True Temper	BiMatrx	S	70.5	251	40	17	2.4	3.67	44"	90
True Temper	Rocket BiMatrx	S	72.1	262	46	15	3.1	4.65	44"	90
UST	ProForce 65	R	67.9	242	33	14	2.4	3.73	45"	90
Accuflex	Icon v.2	S	67.9	252	39	19	2.1	4.65	45"	90
SK Fiber	Pure Energy	S	58.5	254	37	10	3.7	4.73	45"	90
Advance Carbon Design	UL	R	66.0	247	38	12	3.2	4.07	45"	90
Rapport Composites	SL Ultralite - .350"	R	66.6	241	31	21	1.5	3.67	45"	90
Harrison	Boron Gold 46" F&S	Firm	87.1	265	49	18	2.7	3.80	43"	91
Apollo	Standard Stepped Steel	A	119.7	249	46	20	2.3	2.80	43"	91
Harrison	Boron Gold 46" R&F	Firm	84.0	261	48	18	3.0	3.58	43"	91
True Temper	Dynamic	R	114.9	250	44	16	2.8	2.94	43"	91
True Temper	Dynamic Gold - .350"	R300	113.9	248	44	19	2.3	2.80	43"	91
True Temper	Dynamic Gold	R400	114.4	250	43	15	2.9	2.93	43"	91
MCC	MFS 50+	S	78.2	264	52	23	2.3	3.75	43"	91
True Temper	Dynamic Gold SensiCore	S300	110.9	252	45	15	3.0	2.93	43"	91
Aldila	Tour Gold 80-B	R	71.7	254	43	12	3.6	3.76	44"	91

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Aldila	Tour Gold 80-T	R	76.4	240	37	15	2.5	2.87	44"	91
UST	ProForce 75	R	73.4	254	42	18	2.3	3.72	44"	91
Paragon	Low Torque EX	S	74.1	264	48	20	2.4	4.44	44"	91
Penley	Stealth 70	S	67.2	263	38	14	2.7	4.42	44"	91
SK Fiber	Tour Trac 90	S	82.0	259	45	15	3.0	4.15	44"	91
Aldila	HM-2000 Tour 65	R	60.7	249	35	15	2.3	4.15	45"	91
Grafalloy	ProLaunch 75	R	70.5	246	36	13	2.8	3.86	45"	91
Graphite Design	YS-7	R	73.0	236	32	12	2.6	3.19	45"	91
MCC	MFS65N	R	63.6	248	35	12	2.9	4.08	45"	91
Paragon	VST	R	58.5	250	37	10	3.7	4.13	45"	91
Rapport Composites	Cirrus Pro	R	61.7	245	30	17	1.8	3.84	45"	91
Royal Precision	Rifle Graphite 46"	R65	62.5	247	37	18	2.1	3.83	45"	91
Grafalloy	ProCustom	S	66.4	260	42	10	4.2	5.11	45"	91
Grafalloy	ProLaunch 55	S	55.1	252	35	14	2.5	4.40	45"	91
Penley	Tour Light	X	60.6	253	36	14	2.6	4.44	45"	91
Advance Carbon Design	UL	S-	62.0	243	38	8	4.8	3.51	45"	91
Aldila	Longwood	Tour	61.8	244	37	14	2.6	5.15	47"	91
True Temper	Crossfire Fairway	S	93.8	253	42	17	2.5	2.88	43"	92
MCC	MFS 40+	S	82.7	267	52	23	2.3	3.73	43"	92
Aldila	One 65 Low Launch	R	62.6	253	42	29	1.5	3.50	44"	92
Rapport Composites	Pro Wound	R	71.0	255	40	17	2.4	3.69	44"	92
Advance Carbon Design	LW	S	76.8	251	41	11	3.7	3.41	44"	92
Harmon Tour Design	CB-65	R	63.6	247	38	10	3.8	3.78	45"	92
Harrison	Striper J R&F	R	61.9	254	39	11	3.6	4.33	45"	92
Penley	John Daly	R	67.9	248	32	14	2.3	3.68	45"	92
Rapport Composites	SL Ultralite	S	64.4	252	34	18	1.9	4.15	45"	92
UST	ProForce 55	S	60.1	266	36	14	2.6	5.49	45"	92
Harrison	Professional 46" F&S	Firm	89.6	269	49	19	2.6	3.69	43"	93
True Temper	Dynalite	R	103.3	256	43	17	2.5	2.87	43"	93
True Temper	Dynalite Gold SensiCore	R300	109.4	254	42	18	2.3	2.88	43"	93
Aldila	HM-40 Tour	R	84.7	255	43	13	3.3	3.34	44"	93
Aldila	One 85 High Launch	S	77.2	254	43	14	3.1	3.35	44"	93
Grafalloy	ProLaunch 65	R	61.6	248	37	13	2.9	3.53	45"	93
Grafalloy	ProLite 35	R	59.1	250	35	13	2.7	3.74	45"	93
Harrison	Pro 2.5 Titanium R&F	R	70.6	256	38	11	3.5	4.14	45"	93
Harrison	Striper R&F	R	65.6	257	38	15	2.5	4.26	45"	93

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Aldila	HM-2000 Tour 65	S	61.0	255	37	17	2.2	4.04	45"	93
Dynacraft	Filament Wound Ultralite	S	66.7	262	43	18	2.4	4.64	45"	93
Grafalloy	ProLite 45	S	60.8	264				4.79	45"	93
Graphite Design	YS-6	S	59.8	249	37	14	2.6	3.73	45"	93
MCC	MFS 58+	S	60.4	262	45	17	2.6	4.78	45"	93
UST	ProForce ATR	S	73.1	254	39	14	2.8	3.94	45"	93
UST	ProForce XL	S	57.3	259	41	15	2.7	4.56	45"	93
Royal Precision	Rifle Graphite 46"	S75	69.5	257	42	19	2.2	4.27	45"	93
Rapport Composites	SL Ultralite - .350"	S	65.9	252	34	21	1.6	3.82	45"	93
Harrison	Boron Tour 46" R&F	R	84.0	257	51	20	2.6	2.88	43"	94
UST	ProForce Fairway	R	76.8	265	49	22	2.2	3.26	43"	94
True Temper	Dynalite Gold	R300	103.3	258	42	17	2.5	2.82	43"	94
Royal Precision	Precision Lite	S	107.1	258	45	17	2.6	2.88	43"	94
True Temper	TT Lite	S	109.8	258	46	15	3.0	2.88	43"	94
Harrison	Pro 2.5 FL Lite R&F	R	62.1	253	38	14	2.7	3.56	45"	94
True Temper	EI-70	Tour S	76.5	267	49	22	2.2	4.13	44"	94
Harrison	Striper J R&F	F	62.1	259	40	11	3.6	4.22	45"	94
Aldila	Tour Gold 65-ST	S	63.2	260	41	12	3.4	4.25	45"	94
Graphite Design	YS-7	S	72.3	244	35	14	2.5	3.21	45"	94
MCC	MFS 58P	S	63.8	260	42	20	2.1	4.26	45"	94
Paragon	VST	S	60.2	258	41	12	3.4	4.12	45"	94
Advance Carbon Design	UL	R+	67.3	253	40	13	3.1	3.80	45"	94
Aldila	HM-2000 Tour 65 - .350"	S	63.4	256	39	23	1.7	3.92	45"	94
Apollo	Standard Stepped Steel	R	120.2	259	48	19	2.5	2.81	43"	95
Grafalloy	ProLite Fairway	S	67.8	278	53	25	2.1	3.91	43"	95
True Temper	Dynamic Gold	S200	112.5	259	46	16	2.9	2.80	43"	95
True Temper	Dynamic Gold	S300	114.3	261	47	16	2.9	2.75	43"	95
True Temper	Dynamic Gold SensiCore	X100	108.9	259	44	19	2.3	2.79	43"	95
Aldila	HM-2000 Tour 85	S	80.9	263	44	19	2.3	3.54	44"	95
Rapport Composites	Hyperflex Tour	R	84.9	272	45	16	2.8	4.30	44"	95
Aldila	One 65 Low Launch	S	62.3	262	44	30	1.5	3.50	44"	95
Aldila	Tour Gold 80-B	S	75.1	266	49	15	3.3	3.72	44"	95
Advance Carbon Design	LW	S+	74.6	259	44	11	4.0	3.27	44"	95
Paragon	Pro Player's Edition 2.8	R	69.3	251	37	10	3.7	3.39	45"	95
Grafalloy	ProLite 35	S	62.4	261	41	19	2.2	4.14	45"	95
Graman	TP540	S	66.7	257	40	13	3.1	3.78	45"	95

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
SK Fiber	Lite Revolution I	S	63.1	260	42	11	3.8	4.07	45"	95
Royal Precision	Rifle Graphite 46"	S65	62.7	260	43	20	2.2	4.16	45"	95
Advance Carbon Design	UL	S	65.1	250	41	8	5.1	3.32	45"	95
Aldila	Longwood 50/50	S	52.7	261				5.89	47"	95
Paragon	Parasonic	S	87.1	282				3.99	43"	96
True Temper	Dynamic	S	116.6	261	47	16	2.9	2.80	43"	96
Aldila	One 85 Low Launch	R	81.3	250	41	27	1.5	2.65	44"	96
Graphite Design	YS-8.1	S	76.4	250	41	15	2.7	2.65	44"	96
SK Fiber	Tour Trac 100	S	88.3	263	46	13	3.5	3.48	44"	96
True Temper	EI-70	S	80.2	268	48	20	2.4	3.73	44"	96
UST	ProForce 75	S	74.0	266	47	19	2.5	3.70	44"	96
Harrison	Striper R&F	F	65.4	262	42	15	2.8	4.11	45"	96
Harrison	Striper J F&S	F	62.7	262	41	14	2.9	3.97	45"	96
Harrison	Pro 2.5 Low Launch R&F	R	68.8	251	32	15	2.1	3.22	45"	96
Harrison	Titanium Lite R&F	R	68.5	250	35	11	3.2	3.21	45"	96
Aldila	NV 65	S	64.7	260	41	17	2.4	3.94	45"	96
MCC	MFS65N	S	65.9	261	42	16	2.6	4.03	45"	96
Rapport Composites	Cirrus Pro	S	63.9	261	42	21	2.0	3.87	45"	96
UST	ProForce 65	S	67.1	257	37	16	2.3	3.57	45"	96
Graphite Design	YS-6	SX	61.9	256	41	15	2.7	3.57	45"	96
Grafalloy	ProLite 35 - .350"	S	61.1	260	43	24	1.8	3.92	45"	96
Aldila	Longwood 50/50	X	54.4	265	37	16	2.3	5.98	47"	96
Harrison	Boron Tour 46" F&S	Firm	85.4	267	55	21	2.6	2.86	43"	97
Royal Precision	Rifle	5.5	111.7	266	44	17	2.6	2.8	43"	97
True Temper	Dynalite Gold SensiCore	S300	109.1	263	45	18	2.5	2.69	43"	97
True Temper	Dynamic Gold - .350"	S300	117.1	261	49	21	2.3	2.62	43"	97
True Temper	Dynamic Gold	S400	116.1	262	47	17	2.8	2.72	43"	97
Aldila	HM-2000 Tour 85 - .350"	S	81.6	265	46	26	1.8	3.39	44"	97
Aldila	One 85 Mid Launch	S	76.5	262	47	19	2.5	3.11	44"	97
Rapport Composites	Pro Wound	S	73.5	270	44	19	2.3	3.75	44"	97
Graphite Design	YS-8.1	SX	77.4	252	43	19	2.3	2.66	44"	97
Harrison	Pro 2.5 Titanium R&F	F	67.3	261	39	14	2.8	3.80	45"	97
Grafalloy	Blue	R	61.1	256	40	19	2.1	3.32	45"	97
Grafalloy	ProLaunch 75	S	73.3	263	41	16	2.6	3.81	45"	97
Harmon Tour Design	CB-65	S	65.0	262	42	14	3.0	3.80	45"	97
Penley	ETA	S	64.4	261	37	19	1.9	3.79	45"	97

Men's Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
True Temper	TX-90	A	92.5	268	49	16	3.1	2.76	43"	98
True Temper	Dynalite	S	103.9	265	46	19	2.4	2.68	43"	98
Aldila	HM-40 Tour	S	87.2	268	47	17	2.8	3.30	44"	98
Graphite Design	YS-9.1	S	80.5	262	45	19	2.4	3.08	44"	98
Penley	Stealth 70	X	67.6	281	45	21	2.1	4.25	44"	98
Harrison	Pro 2.5 Titanium F&S	F	68.8	264	39	18	2.2	3.73	45"	98
UST	Accra SC 65	R	66.4	251	37	11	3.4	2.98	45"	98
Aldila	NV 75	S	73.8	258	40	18	2.2	3.44	45"	98
Advance Carbon Design	UL	S+	63.6	256	42	10	4.2	3.19	45"	98
Apollo	Standard Stepped Steel	S	122.1	268	52	23	2.3	2.62	43"	99
UST	ProForce Fairway	S	79.4	276	50	24	2.1	3.14	43"	99
True Temper	Dynalite Gold	S300	103.3	266	45	18	2.5	2.64	43"	99
True Temper	Dynamic Gold	X100	111.2	269	49	18	2.7	2.67	43"	99
Aldila	Tour Gold 80-T	S	82.3	261	45	22	2.1	2.81	44"	99
Graphite Design	Purple Ice 85	R	77.3	259	46	19	2.4	2.69	44"	99
Aldila	One 85 Low Launch	S	75.7	259	43	27	1.6	2.69	44"	99
Rapport Composites	Hyperflex Tour	S	90.9	282	50	17	2.9	4.22	44"	99
Fujikura	Vista Pro 80	X	76.2	280	53	26	2.0	3.92	44"	99
UST	ProForce 75	X	76.3	276	49	23	2.1	3.70	44"	99
Harrison	Pro 2.5 Low Launch F&S	F	67.0	259	34	16	2.1	3.25	45"	99
Grafalloy	Blue	S	59.2	261	40	20	2.0	3.39	45"	99
Grafalloy	ProLaunch 65	S	63.0	259	39	17	2.3	3.31	45"	99
Harmon Tour Design	CB-70	S	69.2	265	42	15	2.8	3.69	45"	99
Graphite Design	YS-6	X	61.2	263	43	16	2.7	3.55	45"	99
UST	ProForce 65	X	70.7	268	42	16	2.6	3.86	45"	99
Royal Precision	Rifle Graphite 46"	X75	72.5	274	45	21	2.1	4.27	45"	99
Grafalloy	ProLite 35 - .350"	X	64.5	265	44	22	2.0	3.62	45"	99
Graphite Design	YS-9.1	SX	82.8	268	50	20	2.5	2.98	44"	100
Fujikura	Speeder 757	S	75.0	260	37	16	2.3	3.23	45"	100
Harrison	Striper J F&S	S	62.0	270	43	15	2.9	3.84	45"	100
Paragon	Pro Player's Edition 2.8	S	74.2	264	44	11	4.0	3.33	45"	100
Graphite Design	YS-7	SX	75.0	260	41	17	2.4	3.18	45"	100
Royal Precision	Rifle	6.0	116.5	273	47	19	2.5	2.64	43"	101
Graphite Design	YS-8.1	X	80.2	264	45	21	2.1	2.66	44"	101
Harrison	Titanium Lite F&S	F	69.9	264	39	15	2.6	3.26	45"	101
Aldila	NV 65	X	66.3	275	46	22	2.1	3.98	45"	101

Men's Driver Shaft Listing by DSFI Ratings continued
Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Graman	TP540	X	69.1	269	44	16	2.8	3.51	45"	101
Graphite Design	YS-7	X	75.1	263	43	17	2.5	3.21	45"	101
Rapport Composites	Cirrus Pro	X	66.0	274	45	23	2.0	3.81	45"	101
Royal Precision	Rifle Graphite 46"	X65	66.0	275	47	25	1.9	3.99	45"	101
Royal Precision	Rifle	6.5	119.2	274	50	20	2.5	2.64	43"	102
Royal Precision	Rifle	7.0	119.6	276	52	21	2.5	2.62	43"	102
True Temper	TX-90	R	94.8	275	49	20	2.5	2.57	43"	102
Graphite Design	Purple Ice 85	S	77.1	265	48	20	2.4	2.65	44"	102
UST	Accra SC 65	S	67.2	262	40	15	2.7	2.95	45"	102
Grafalloy	ProLaunch 75	X	70.2	276	45	18	2.5	3.94	45"	102
Grafalloy	ProLite 35	X	66.1	270	47	26	1.8	3.43	45"	102
Harrison	Pro 2.5 FL Lite R&F	F	62.6	263	40	14	2.9	3.48	45"	103
Graphite Design	YS-9.1	X	86.7	278	53	26	2.0	3.10	44"	103
Grafalloy	Blue	X	59.7	271	46	22	2.1	3.31	45"	103
Harmon Tour Design	CB-65	X	67.2	277	48	15	3.2	3.78	45"	103
Aldila	NV 75	X	75.5	273	44	26	1.7	3.30	45"	104
UST	ProForce LD	X	79.3	264	39	12	3.3	3.99	47"	104
True Temper	Dynalite Gold	X100	108.6	278	47	23	2.0	2.41	43"	105
Graphite Design	Purple Ice 85	X	77.7	273	50	21	2.4	2.67	44"	105
True Temper	TX-90	S	97.1	281	51	22	2.3	2.42	43"	106
Harrison	Pro 2.5 Ultra Lite F&S	F	78.6	269	42	16	2.6	3.29	45"	106
UST	Accra SC 65	X	72.2	274	44	15	2.9	2.91	45"	107
Harrison	Pro 2.5 Ultra Lite F&S	S	75.3	273	46	20	2.3	3.13	45"	108

Men's Driver Shaft Listing by DSFI Ratings
Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Penley	Graphite Light	A	66.3	222	18	11	1.6	6.19	45"	52
Penley	Tour Light	A	59.8	222	23	6	3.8	4.55	45"	52
UST	ProForce XL	A	53.1	224	27	6	4.5	4.84	45"	59
Paragon	Pro X2	A	77.9	221	29	9	3.2	8.63	44"	60
Graman	CF310	A	63.3	219	32	10	3.2	5.03	43"	60
Advance Carbon Design	UL	A-	62.1	225	28	7	4.0	5.56	45"	60
SK Fiber	V.I.P.	A	64.0	227	29	6	4.8	5.57	45"	63

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Advance Carbon Design	LW	A-	73.0	226	33	8	4.1	5.61	44"	65
Advance Carbon Design	UL	A	64.7	229	32	7	4.6	5.41	45"	67
UST	ProForce ATR	A	67.9	227	29	8	3.6	4.19	45"	67
Advance Carbon Design	UL	A+	62.5	235	32	7	4.6	5.19	45"	67
Accuflex	Vizion	R	53.4	238	29	8	3.6	4.95	45"	67
Aldila	VL	A	69.1	246	35	13	2.7	5.21	43"	69
True Temper	Dynalite	A	99.4	232	35	13	2.7	3.46	43"	69
Penley	Tour Light	R	59.0	233	28	11	2.5	4.59	45"	70
Aldila	V2000 Plus	R	69.0	232	34	11	3.1	5.83	44"	71
Advance Carbon Design	LW	A	73.5	229	35	10	3.5	5.23	44"	71
Grafalloy	ProLite 45	A	56.6	236	31	9	3.4	4.76	45"	72
UST	ProForce 55	R	60.0	245	30	10	3.0	5.65	45"	72
Aldila	Exceleator	R	73.9	233	35	11	3.2	5.86	44"	73
Advance Carbon Design	LW	A+	74.5	236	35	11	3.2	5.07	44"	73
True Temper	Release	Men's	101.8	234	35	16	2.2	3.20	43"	73
Advance Carbon Design	LW	R-	74.4	237	37	10	3.7	4.85	44"	74
Rapport Composites	Advent	A	78.2	245	36	11	3.3	5.07	44"	74
Royal Precision	Precision Lite	A	105.8	236	39	13	3.0	3.24	43"	74
True Temper	TT Lite	A	102	239	39	13	3.0	3.23	43"	74
Accuflex	Icon Lite	S	41.2	226	28	14	2.0	5.94	45"	76
UST	Super 47	R	46.4	233	32	10	3.2	5.45	45"	76
Advance Carbon Design	LW	R+	75.5	245	38	10	3.8	4.36	44"	76
SK Fiber	Pure Energy	R	55.2	242	34	8	4.3	4.78	45"	76
Royal Precision	Precision Lite	R	105.2	246	40	13	3.1	3.10	43"	76
Aldila	One 85 High Launch	R	79.9	240	35	13	2.7	3.31	44"	76
Aldila	Exceleator	A	69.7	236	36	13	2.8	5.41	44"	77
Dynacraft	Copperhead	R	66.7	241	37	12	3.1	5.78	44"	77
Grafalloy	ProLaunch 45	R	43.4	240	31	12	2.6	5.62	45"	77
Advance Carbon Design	LW	R	75.1	241	39	10	3.9	4.51	44"	77
Rapport Composites	Advent	R	78.9	250	36	13	3.0	5.12	44"	77
Aldila	One 65 High Launch	R	61.6	244	38	11	3.5	4.43	44"	77
Grafalloy	ProLaunch 55	R	53.2	244	32	11	2.9	4.80	45"	77
UST	ProForce ATR	R	68.8	238	32	11	2.9	4.00	45"	77
Graphite Design	YS-6	R	60.4	241	33	10	3.3	3.77	45"	77
Paragon	Lite Touch	A	59.5	241	39	16	2.4	6.98	43"	79
Harrison	Tour Classic II A&R	A	83.1	244	41	14	2.9	4.82	43"	79

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Rapport Composites	Oracle Plus	A	78.9	240	37	13	2.8	5.00	44"	79
SK Fiber	Tour Trac 80	R	75.1	246	41	9	4.6	4.70	44"	79
UST	ProForce XL	R	54.7	240	34	10	3.4	4.65	45"	79
Penley	Stealth 70	R	66.0	250	36	14	2.6	4.50	44"	79
True Temper	BiMatrx	R	68.7	240	34	16	2.1	3.81	44"	79
Penley	Tour Light	S	64.4	246	30	14	2.1	4.68	45"	79
Advance Carbon Design	UL	R-	66.4	243	37	9	4.1	4.39	45"	79
Graphite Design	YS-7	R	73.0	236	32	12	2.6	3.19	45"	79
Advance Carbon Design	UL	S-	62.0	243	38	8	4.8	3.51	45"	79
Innovative	Compression 35	R	69.7	240	44	15	2.9	6.04	43"	80
Rapport Composites	Synsor Lite	A	63.6	242	37	14	2.6	7.01	44"	80
Royal Precision	Rifle	4.5	101.0	247	40	16	2.5	3.16	43"	80
Advance Carbon Design	LW	S-	74.0	245	40	11	3.6	3.66	44"	80
True Temper	Dynamic Gold	R200	111.2	248	42	15	2.8	2.99	43"	80
True Temper	Dynamic Gold	R300	112.0	249	42	15	2.8	2.98	43"	80
Grafalloy	ProCustom	R	66.7	246	37	8	4.6	5.88	45"	81
Grafalloy	ProLite 45	R	60.0	245	34	11	3.1	4.84	45"	81
True Temper	Crossfire Fairway	R	93.8	248	40	14	2.9	3.09	43"	81
Aldila	Tour Gold 65-ST	R	62.8	245	33	12	2.8	4.18	45"	81
Aldila	VX	R	75.5	250	43	14	3.1	6.26	43"	82
Dynacraft	Copperhead Filament Wound	R	80.1	258	40	12	3.3	5.32	44"	82
True Temper	TT Lite	R	107.2	244	43	14	3.1	3.04	43"	82
Aldila	Tour Gold 80-T	R	76.4	240	37	15	2.5	2.87	44"	82
Penley	Stealth 70	S	67.2	263	38	14	2.7	4.42	44"	82
Advance Carbon Design	LW	S	76.8	251	41	11	3.7	3.41	44"	82
Paragon	PV	R	64.8	244	42	16	2.6	7.16	43"	83
Graman	CF310	R	66.7	244	43	15	2.9	5.59	43"	83
Rapport Composites	Cirrus OS .365"	R	61.9	226	30	18	1.7	5.03	45"	83
Aldila	Excelerator 60	A	61.8	238	34	12	2.8	6.11	45"	83
Grafalloy	ProLaunch 45	S	44.3	247	33	13	2.5	5.71	45"	83
True Temper	Dynamic Gold SensiCore	R300	110.6	241	42	16	2.6	3.12	43"	83
SK Fiber	Lite Revolution I	R	57.8	244	35	11	3.2	4.63	45"	83
Aldila	NV 65	R	63.1	239	32	14	2.3	3.94	45"	83
True Temper	Dynamic Gold	R400	114.4	250	43	15	2.9	2.93	43"	83
Penley	John Daly	R	67.9	248	32	14	2.3	3.68	45"	83
Harrison	Titanium Lite R&F	R	68.5	250	35	11	3.2	3.21	45"	83

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Rapport Composites	Oracle Plus	R	75.9	257	40	13	3.1	5.69	44"	84
True Temper	Dynalite Gold	R300	103.3	258	42	17	2.5	2.82	43"	84
Advance Carbon Design	UL	S	65.1	250	41	8	5.1	3.32	45"	84
UST	Competition Pro	A	73.4	244	39	15	2.6	5.75	44"	85
Rapport Composites	Ni-271	R	89.2	255	38	16	2.4	5.03	44"	85
Aldila	One 65 High Launch	S	61.6	252	41	13	3.2	4.48	44"	85
Rapport Composites	SL Ultralite	R	64.2	242	30	17	1.8	3.97	45"	85
Harrison	Professional 46" R&F	R	85.0	260	48	15	3.2	3.64	43"	85
UST	ProForce 65	R	67.9	242	33	14	2.4	3.73	45"	85
SK Fiber	Pure Energy	S	58.5	254	37	10	3.7	4.73	45"	85
UST	ProForce 75	R	73.4	254	42	18	2.3	3.72	44"	85
MCC	MFS65N	R	63.6	248	35	12	2.9	4.08	45"	85
Paragon	VST	R	58.5	250	37	10	3.7	4.13	45"	85
Rapport Composites	Cirrus Pro	R	61.7	245	30	17	1.8	3.84	45"	85
Paragon	Pro Player's Edition 2.8	R	69.3	251	37	10	3.7	3.39	45"	85
Harrison	Pro 2.5 Low Launch R&F	R	68.8	251	32	15	2.1	3.22	45"	85
Accuflex	Icon v.3	R	64.6	240	33	15	2.2	5.43	45"	86
UST	Super 47	S	47.3	247	37	11	3.4	5.37	45"	86
Advance Carbon Design	UL	R	66.0	247	38	12	3.2	4.07	45"	86
True Temper	Dynamic	R	114.9	250	44	16	2.8	2.94	43"	86
True Temper	Dynamic Gold SensiCore	S300	110.9	252	45	15	3.0	2.93	43"	86
Harmon Tour Design	CB-65	R	63.6	247	38	10	3.8	3.78	45"	86
True Temper	Dynalite	R	103.3	256	43	17	2.5	2.87	43"	86
True Temper	Dynalite Gold SensiCore	R300	109.4	254	42	18	2.3	2.88	43"	86
Grafalloy	ProLite 35	R	59.1	250	35	13	2.7	3.74	45"	86
UST	Accra SC 65	R	66.4	251	37	11	3.4	2.98	45"	86
Harrison	Tour Classic II R&F	R	85.2	256	48	16	3.0	4.59	43"	87
Aldila	Longwood	Std.	62.2	230	31	12	2.6	5.51	47"	87
Rapport Composites	Advent	S	78.8	262	41	14	2.9	5.48	44"	87
Aldila	Tour Gold 80-B	R	71.7	254	43	12	3.6	3.76	44"	87
True Temper	TT Lite	S	109.8	258	46	15	3.0	2.88	43"	87
Advance Carbon Design	LW	S+	74.6	259	44	11	4.0	3.27	44"	87
Graphite Design	YS-8.1	S	76.4	250	41	15	2.7	2.65	44"	87
Royal Precision	Rifle	5.5	111.7	266	44	17	2.6	2.80	43"	87
Aldila	V2000 Plus	S	70.2	249	42	14	3.0	5.64	44"	88
Aldila	Excelerator	S	70.4	251	43	13	3.3	5.38	44"	88

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Aldila	One 65 Mid Launch	R	59.8	246	38	18	2.1	3.98	44"	88
Dynacraft	Filament Wound Lite	R	75.2	255	42	14	3.0	4.83	44"	88
SK Fiber	Tour Trac 80	S	76.0	257	44	12	3.7	4.54	44"	88
Grafalloy	ProLaunch 75	R	70.5	246	36	13	2.8	3.86	45"	88
Grafalloy	ProLaunch 55	S	55.1	252	35	14	2.5	4.40	45"	88
Aldila	HM-40 Tour	R	84.7	255	43	13	3.3	3.34	44"	88
Harrison	Pro 2.5 Titanium R&F	R	70.6	256	38	11	3.5	4.14	45"	88
Graphite Design	YS-7	S	72.3	244	35	14	2.5	3.21	45"	88
Harrison	Boron Gold 46" R&F	R	83.4	256	45	17	2.6	3.79	43"	89
Aldila	HM-2000 Tour 85	R	77.6	248	39	15	2.6	3.62	44"	89
True Temper	Crossfire Fairway	S	93.8	253	42	17	2.5	2.88	43"	89
Royal Precision	Precision Lite	S	107.1	258	45	17	2.6	2.88	43"	89
True Temper	Dynamic Gold	S200	112.5	259	46	16	2.9	2.80	43"	89
Aldila	Excelerator 60	R	62.4	244	37	13	2.9	5.45	45"	90
Dynacraft	Copperhead	S	69.8	258	45	12	3.8	5.77	44"	90
Aldila	One 85 Mid Launch	R	79.3	243	38	19	2.0	3.17	44"	90
Dynacraft	Filament Wound Lite	S	74.5	263	43	14	3.1	4.65	44"	90
True Temper	BiMatrx	S	70.5	251	40	17	2.4	3.67	44"	90
True Temper	Dynamic Gold - .350"	R300	113.9	248	44	19	2.3	2.80	43"	90
Aldila	HM-2000 Tour 65	R	60.7	249	35	15	2.3	4.15	45"	90
Penley	Tour Light	X	60.6	253	36	14	2.6	4.44	45"	90
Rapport Composites	Pro Wound	R	71.0	255	40	17	2.4	3.69	44"	90
Harrison	Striper J R&F	R	61.9	254	39	11	3.6	4.33	45"	90
UST	ProForce 55	S	60.1	266	36	14	2.6	5.49	45"	90
Aldila	One 85 High Launch	S	77.2	254	43	14	3.1	3.35	44"	90
Grafalloy	ProLaunch 65	R	61.6	248	37	13	2.9	3.53	45"	90
True Temper	Dynamic Gold	S300	114.3	261	47	16	2.9	2.75	43"	90
True Temper	Dynamic Gold SensiCore	X100	108.9	259	44	19	2.3	2.79	43"	90
True Temper	Dynamic	S	116.6	261	47	16	2.9	2.80	43"	90
True Temper	Dynalite Gold SensiCore	S300	109.1	263	45	18	2.5	2.69	43"	90
True Temper	Dynamic Gold	S400	116.1	262	47	17	2.8	2.72	43"	90
Advance Carbon Design	UL	S+	63.6	256	42	10	4.2	3.19	45"	90
True Temper	Dynalite Gold	S300	103.3	266	45	18	2.5	2.64	43"	90
Harrison	Pro 2.5 Low Launch F&S	F	67.0	259	34	16	2.1	3.25	45"	90
Harrison	Boron Gold 46" F&S	Firm	87.1	265	49	18	2.7	3.80	43"	91
Advance Carbon Design	UL	R+	67.3	253	40	13	3.1	3.80	45"	91

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Paragon	PV	S	66.2	250	47	17	2.8	7.75	43"	92
Paragon	Pro X2	R	83.4	254	45	13	3.5	8.76	44"	92
Paragon	Low Torque EX	R	78.0	247	42	16	2.6	5.13	44"	92
Aldila	Excelerator 60	S	64.2	252	40	11	3.6	5.63	45"	92
Dynacraft	Copperhead Filament Wound	S	80.2	268	44	14	3.1	5.34	44"	92
Harrison	Boron Gold 46" R&F	Firm	84.0	261	48	18	3.0	3.58	43"	92
Graphite Design	YS-6	S	59.8	249	37	14	2.6	3.73	45"	92
Harrison	Pro 2.5 FL Lite R&F	R	62.1	253	38	14	2.7	3.56	45"	92
Harrison	Striper J R&F	F	62.1	259	40	11	3.6	4.22	45"	92
Paragon	Lite Touch	R	61.1	255	46	19	2.4	7.56	43"	93
Graman	CF310	S	68.2	252	47	18	2.6	5.41	43"	93
Penley	Graphite Light	S	74.2	253	34	18	1.9	6.14	45"	93
Rapport Composites	SL Ultralite - .350"	R	66.6	241	31	21	1.5	3.67	45"	93
Grafalloy	ProCustom	S	66.4	260	42	10	4.2	5.11	45"	93
Rapport Composites	SL Ultralite	S	64.4	252	34	18	1.9	4.15	45"	93
Harrison	Professional 46" F&S	Firm	89.6	269	49	19	2.6	3.69	43"	93
SK Fiber	Tour Trac 100	S	88.3	263	46	13	3.5	3.48	44"	93
True Temper	TX-90	A	92.5	268	49	16	3.1	2.76	43"	93
True Temper	Dynalite	S	103.9	265	46	19	2.4	2.68	43"	93
MCC	MFS 30+	R	76.0	258	48	18	2.7	5.14	43"	94
Aldila	VX	S	76.5	265	51	15	3.4	5.49	43"	94
Paragon	Parasonic	R	83.7	259	47	22	2.1	3.91	43"	94
Apollo	Standard Stepped Steel	A	119.7	249	46	20	2.3	2.80	43"	94
Royal Precision	Rifle	6.0	116.5	273	47	19	2.5	2.64	43"	94
UST	Competition Pro	R	76.7	257	43	17	2.5	5.84	44"	95
Accuflex	Assassin II World Champ	S	62.4	244	36	17	2.1	5.43	45"	95
Rapport Composites	Cirrus OS .365"	S	65.9	243	32	22	1.5	4.89	45"	95
True Temper	Rocket BiMatrx	R	70.8	256	44	16	2.8	4.84	44"	95
Rapport Composites	Oracle Plus	S	75.4	261	44	16	2.8	5.52	44"	95
Grafalloy	ProLite 35 - .350"	R	58.4	238	37	18	2.1	3.90	45"	95
Aldila	One 65 Mid Launch	S	59.0	255	41	19	2.2	4.21	44"	95
SK Fiber	Tour Trac 90	S	82.0	259	45	15	3.0	4.15	44"	95
Harrison	Striper R&F	R	65.6	257	38	15	2.5	4.26	45"	95
UST	ProForce ATR	S	73.1	254	39	14	2.8	3.94	45"	95
Aldila	Tour Gold 65-ST	S	63.2	260	41	12	3.4	4.25	45"	95
Paragon	VST	S	60.2	258	41	12	3.4	4.12	45"	95

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Graman	TP540	S	66.7	257	40	13	3.1	3.78	45"	95
SK Fiber	Lite Revolution I	S	63.1	260	42	11	3.8	4.07	45"	95
UST	ProForce 65	S	67.1	257	37	16	2.3	3.57	45"	95
Harrison	Pro 2.5 Titanium R&F	F	67.3	261	39	14	2.8	3.80	45"	95
Fujikura	Speeder 757	S	75.0	260	37	16	2.3	3.23	45"	95
Harrison	Pro 2.5 FL Lite R&F	F	62.6	263	40	14	2.9	3.48	45"	95
Paragon	Lite Touch	S	61.7	256	48	19	2.5	7.04	43"	96
UST	iRoD Fairway	R	69.1	256	45	19	2.4	3.99	43"	96
True Temper	Rocket BiMatrx	S	72.1	262	46	15	3.1	4.65	44"	96
Harrison	Boron Tour 46" R&F	R	84.0	257	51	20	2.6	2.88	43"	96
Apollo	Standard Stepped Steel	R	120.2	259	48	19	2.5	2.81	43"	96
Rapport Composites	Hyperflex Tour	R	84.9	272	45	16	2.8	4.30	44"	96
True Temper	Dynamic Gold	X100	111.2	269	49	18	2.7	2.67	43"	96
Accuflex	Pro	R	65.8	249	35	19	1.8	5.31	45"	97
MCC	MFS 58+	R	59.7	249	37	17	2.2	4.73	45"	97
Royal Precision	Rifle Graphite 46"	R75	70.1	246	38	16	2.4	4.54	45"	97
Grafalloy	ProLite Fairway	R	64.4	263	46	22	2.1	4.10	43"	97
Aldila	HM-2000 Tour 65	S	61.0	255	37	17	2.2	4.04	45"	97
Harrison	Titanium Lite F&S	F	69.9	264	39	15	2.6	3.26	45"	97
Graphite Design	YS-8.1	SX	77.4	252	43	19	2.3	2.66	44"	98
MCC	MFS 40+	R	79.9	255	47	22	2.1	3.67	43"	99
Royal Precision	Rifle Graphite 46"	R65	62.5	247	37	18	2.1	3.83	45"	99
Rapport Composites	SL Ultralite - .350"	S	65.9	252	34	21	1.6	3.82	45"	99
Harrison	Striper J F&S	F	62.7	262	41	14	2.9	3.97	45"	99
Rapport Composites	Pro Wound	S	73.5	270	44	19	2.3	3.75	44"	99
Paragon	Pro Player's Edition 2.8	S	74.2	264	44	11	4.0	3.33	45"	99
True Temper	TX-90	R	94.8	275	49	20	2.5	2.57	43"	99
UST	Accra SC 65	S	67.2	262	40	15	2.7	2.95	45"	99
Penley	G2-85	S	78.8	253	45	25	1.7	4.41	43"	100
True Temper	Dynamic Gold - .350"	S300	117.1	261	49	21	2.3	2.62	43"	100
Royal Precision	Rifle	6.5	119.2	274	50	20	2.5	2.64	43"	100
True Temper	Dynalite Gold	X100	108.6	278	47	23	2.0	2.41	43"	100
Dynacraft	Filament Wound Ultralite	R	64.3	252	38	18	2.1	4.87	45"	101
UST	ProForce XL	S	57.3	259	41	15	2.7	4.56	45"	101
Aldila	Tour Gold 80-B	S	75.1	266	49	15	3.3	3.72	44"	101
Graphite Design	YS-6	SX	61.9	256	41	15	2.7	3.57	45"	101

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Harmon Tour Design	CB-65	S	65.0	262	42	14	3.0	3.80	45"	101
Penley	ETA	S	64.4	261	37	19	1.9	3.79	45"	101
Aldila	HM-40 Tour	S	87.2	268	47	17	2.8	3.30	44"	101
Graphite Design	YS-9.1	S	80.5	262	45	19	2.4	3.08	44"	101
Grafalloy	ProLaunch 65	S	63.0	259	39	17	2.3	3.31	45"	101
UST	ProForce Fairway	R	76.8	265	49	22	2.2	3.26	43"	102
Harrison	Striper R&F	F	65.4	262	42	15	2.8	4.11	45"	102
Grafalloy	ProLaunch 75	S	73.3	263	41	16	2.6	3.81	45"	102
Harrison	Pro 2.5 Titanium F&S	F	68.8	264	39	18	2.2	3.73	45"	102
Harmon Tour Design	CB-70	S	69.2	265	42	15	2.8	3.69	45"	102
Aldila	Longwood	Tour	61.8	244	37	14	2.6	5.15	47"	103
Graphite Design	Purple Ice 85	R	77.3	259	46	19	2.4	2.69	44"	103
Royal Precision	Rifle	7.0	119.6	276	52	21	2.5	2.62	43"	103
UST	ProForce LD	X	79.3	264	39	12	3.3	3.99	47"	103
Accuflex	Icon v.2	S	67.9	252	39	19	2.1	4.65	45"	104
Aldila	HM-2000 Tour 85	S	80.9	263	44	19	2.3	3.54	44"	104
UST	ProForce 75	S	74.0	266	47	19	2.5	3.70	44"	104
Aldila	NV 65	S	64.7	260	41	17	2.4	3.94	45"	104
MCC	MFS65N	S	65.9	261	42	16	2.6	4.03	45"	104
Aldila	One 85 Mid Launch	S	76.5	262	47	19	2.5	3.11	44"	104
Penley	Stealth 70	X	67.6	281	45	21	2.1	4.25	44"	104
Aldila	NV 75	S	73.8	258	40	18	2.2	3.44	45"	104
UST	ProForce 65	X	70.7	268	42	16	2.6	3.86	45"	104
Harrison	Striper J F&S	S	62.0	270	43	15	2.9	3.84	45"	104
Graphite Design	YS-7	SX	75.0	260	41	17	2.4	3.18	45"	104
Graphite Design	YS-8.1	X	80.2	264	45	21	2.1	2.66	44"	104
True Temper	TX-90	S	97.1	281	51	22	2.3	2.42	43"	104
Harrison	Pro 2.5 Ultra Lite F&S	F	78.6	269	42	16	2.6	3.29	45"	104
Grafalloy	Blue	R	61.1	256	40	19	2.1	3.32	45"	106
UST	ProForce Fairway	S	79.4	276	50	24	2.1	3.14	43"	106
Aldila	Tour Gold 80-T	S	82.3	261	45	22	2.1	2.81	44"	106
Rapport Composites	Hyperflex Tour	S	90.9	282	50	17	2.9	4.22	44"	106
Graphite Design	YS-6	X	61.2	263	43	16	2.7	3.55	45"	106
UST	Accra SC 65	X	72.2	274	44	15	2.9	2.91	45"	106
UST	Competition Pro	S	77.6	264	48	20	2.4	5.00	44"	107
MCC	MFS 50+	S	78.2	264	52	23	2.3	3.75	43"	107

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Paragon	Low Torque EX	S	74.1	264	48	20	2.4	4.44	44"	107
MCC	MFS 40+	S	82.7	267	52	23	2.3	3.73	43"	107
Aldila	HM-2000 Tour 65 - .350"	S	63.4	256	39	23	1.7	3.92	45"	107
Aldila	One 85 Low Launch	R	81.3	250	41	27	1.5	2.65	44"	107
True Temper	EI-70	S	80.2	268	48	20	2.4	3.73	44"	107
Aldila	Longwood 50/50	X	54.4	265	37	16	2.3	5.98	47"	107
Apollo	Standard Stepped Steel	S	122.1	268	52	23	2.3	2.62	43"	107
Graphite Design	Purple Ice 85	S	77.1	265	48	20	2.4	2.65	44"	107
Grafalloy	ProLite 35	S	62.4	261	41	19	2.2	4.14	45"	108
Grafalloy	Blue	S	59.2	261	40	20	2.0	3.39	45"	108
Graman	TP540	X	69.1	269	44	16	2.8	3.51	45"	108
Graphite Design	YS-7	X	75.1	263	43	17	2.5	3.21	45"	108
MCC	MFS 30+	S	79.4	269	52	24	2.2	4.90	43"	109
Harrison	Boron Tour 46" F&S	Firm	85.4	267	55	21	2.6	2.86	43"	109
UST	iRoD Fairway	S	68.1	266	50	23	2.2	4.07	43"	110
Dynacraft	Filament Wound Ultralite	S	66.7	262	43	18	2.4	4.64	45"	110
Royal Precision	Rifle Graphite 46"	S75	69.5	257	42	19	2.2	4.27	45"	110
Aldila	One 85 Low Launch	S	75.7	259	43	27	1.6	2.69	44"	110
Graphite Design	YS-9.1	SX	82.8	268	50	20	2.5	2.98	44"	110
MCC	MFS 58+	S	60.4	262	45	17	2.6	4.78	45"	111
MCC	MFS 58P	S	63.8	260	42	20	2.1	4.26	45"	111
Aldila	One 65 Low Launch	R	62.6	253	42	29	1.5	3.50	44"	112
True Temper	EI-70	Tour S	76.5	267	49	22	2.2	4.13	44"	112
Grafalloy	ProLite Fairway	S	67.8	278	53	25	2.1	3.91	43"	112
Graphite Design	Purple Ice 85	X	77.7	273	50	21	2.4	2.67	44"	112
Accuflex	200 Series	S	76.6	268	46	26	1.8	5.75	44"	113
Royal Precision	Rifle Graphite 46"	S65	62.7	260	43	20	2.2	4.16	45"	113
Rapport Composites	Cirrus Pro	S	63.9	261	42	21	2.0	3.87	45"	113
Grafalloy	ProLaunch 75	X	70.2	276	45	18	2.5	3.94	45"	113
Harmon Tour Design	CB-65	X	67.2	277	48	15	3.2	3.78	45"	113
Aldila	HM-2000 Tour 85 - .350"	S	81.6	265	46	26	1.8	3.39	44"	114
UST	ProForce 75	X	76.3	276	49	23	2.1	3.70	44"	114
Grafalloy	ProLite 35 - .350"	X	64.5	265	44	22	2.0	3.62	45"	114
Aldila	NV 75	X	75.5	273	44	26	1.7	3.30	45"	115
Grafalloy	ProLite 35 - .350"	S	61.1	260	43	24	1.8	3.92	45"	116
Aldila	One 65 Low Launch	S	62.3	262	44	30	1.5	3.50	44"	117

Men's Driver Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Royal Precision	Rifle Graphite 46"	X75	72.5	274	45	21	2.1	4.27	45"	119
Harrison	Pro 2.5 Ultra Lite F&S	S	75.3	273	46	20	2.3	3.13	45"	119
Aldila	NV 65	X	66.3	275	46	22	2.1	3.98	45"	122
Rapport Composites	Cirrus Pro	X	66.0	274	45	23	2.0	3.81	45"	122
Grafalloy	Blue	X	59.7	271	46	22	2.1	3.31	45"	122
Fujikura	Vista Pro 80	X	76.2	280	53	26	2.0	3.92	44"	125
Graphite Design	YS-9.1	X	86.7	278	53	26	2.0	3.10	44"	125
Royal Precision	Rifle Graphite 46"	X65	66.0	275	47	25	1.9	3.99	45"	129
Grafalloy	ProLite 35	X	66.1	270	47	26	1.8	3.43	45"	131

Ladies Driver Shaft Listing by DSFI Ratings continued

Frequency / Torque Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Rapport Composites	Synsor Lite	L	58.8	215	29	16	1.8	8.18	43"	64
Graman	CF310	L	62.2	222	34	11	3.1	5.20	42"	69
Aldila	VL	L	66.8	237	36	15	2.4	6.25	42"	71
Dynacraft	Lady Copperhead	L	59.7	226	32	10	3.2	6.20	43"	71
Dynacraft	Light	L	59.7	226	32	10	3.2	6.20	43"	71
Paragon	Lite Touch	L	57.8	245	41	20	2.1	7.13	42"	72
Aldila	Excelerator	L	65.1	236	36	13	2.8	5.81	43"	75
Aldila	Excelerator 60	L	59.0	234	30	11	2.7	5.56	44"	77
True Temper	Release SensiCore	Ladies	104.9	230	36	17	2.1	3.36	42"	78
Rapport Composites	Oracle Plus	L	77.9	242	35	12	2.9	5.17	43"	78
UST	Competition Pro	L	70.1	245	40	18	2.2	5.75	43"	78
UST	ProForce ATR	L	68.3	224	30	8	3.8	4.31	44"	78
True Temper	Dynalite	L	96.5	233	38	13	2.9	3.47	42"	79
True Temper	Release	Ladies	98.9	232	37	16	2.3	3.31	42"	79
Paragon	Low Torque EX	L	69.3	238	36	9	4.0	4.11	43"	81
Rapport Composites	Advent	L	82.2	245	37	16	2.3	4.62	43"	81
True Temper	TT Lite	L	98.4	241	38	15	2.5	3.27	42"	83
Apollo	Standard Stepped Steel	L	115.1	243	46	21	2.2	2.86	42"	86

Men's #5-iron Shaft Listing by DSFI Ratings

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Rapport Composites	Advent	A	77.4	276	62	32	1.9	2.84	38.5"	58
UST	iRoD Hybrid Long Iron	R	71.9	261	56	30	1.9	2.74	39.5"	58
Aldila	Excelerator	A	68.2	259	59	36	1.6	3.90	38.5"	59
Graman	CF310	A	60.8	268	68	42	1.6	4.09	37.5"	62
Advance Carbon Design	LW	A-	74.1	260	60	39	1.5	3.81	38.5"	62
Advance Carbon Design	LW	R-	78.1	272	65	34	1.9	2.91	38.5"	62
True Temper	Release SensiCore	Men's	102.1	276	67	45	1.5	2.24	37.5"	63
True Temper	Dynamic Gold Lite SensiCore	R	99.5	282	68	44	1.5	2.36	37.5"	63
Rapport Composites	Oracle Plus	A	70.8	276	63	39	1.6	2.92	38.5"	63
UST	iRoD Hybrid Long Iron	S	74.2	270	59	34	1.7	2.68	39.5"	63
Harrison	Premier Lite 41"	R	87.3	286	70	43	1.6	2.22	37.5"	64
Rapport Composites	Advent	R	76.1	286	64	41	1.6	2.92	38.5"	65
True Temper	Dynamic Gold Lite	S	95.0	294	74	42	1.8	2.16	37.5"	66
Rapport Composites	Synsor Lite	A	59.9	279	64	42	1.5	4.73	38.5"	66
Harrison	Tour Classic II A&R	A	80.5	281	72	47	1.5	3.14	37.5"	67
Rapport Composites	Ni-271	A	74.3	284	70	48	1.5	3.46	37.5"	67
Aldila	VX	R	76.2	279	74	45	1.6	3.97	37.5"	67
Advance Carbon Design	LW	R	77.7	284	70	37	1.9	2.76	38.5"	67
Dynacraft	Copperhead	R	74.9	282	67	41	1.6	3.73	38.5"	67
Dynacraft	Filament Wound Lite	R	71.2	284	68	40	1.7	3.49	38.5"	67
Rapport Composites	Oracle Plus	R	71.5	291	71	36	2.0	3.36	38.5"	67
Advance Carbon Design	LW	R+	78.4	291	73	35	2.1	2.63	38.5"	67
Rapport Composites	Oracle Plus	S	72.7	298	73	35	2.1	3.13	38.5"	67
True Temper	Crossfire Hybrid	R	93.7	278	62	37	1.7	2.31	39.5"	67
True Temper	Release 38" Taper	Men's	101.1	284	71	50	1.4	2.01	37.5"	68
True Temper	Dynamic Gold Lite 39" Taper	R	100.4	289	73	48	1.5	2.15	37.5"	68
Advance Carbon Design	LW	A	73.1	270	67	42	1.6	3.72	38.5"	68
Advance Carbon Design	LW	A+	73.6	275	68	41	1.7	3.46	38.5"	68
Aldila	Excelerator	R	76.2	283	70	40	1.8	4.01	38.5"	68
Dynacraft	Copperhead Filament Wound	R	77.5	290	66	43	1.5	2.74	38.5"	68
SK Fiber	Tour Trac 80	R	67.0	284	71	39	1.8	3.42	38.5"	68
Rapport Composites	Advent	S	78.8	290	69	40	1.7	3.00	38.5"	68
UST	ProForce 75 Rv2	R	71.2	284	73	41	1.8	2.99	38"	68
UST	iRoD Hybrid Utility	R	73.0	264	59	41	1.4	2.64	39.5"	68
Aldila	VL	A	68.1	274	70	52	1.4	4.04	37.5"	69
True Temper	Dynalite	A	98.0	290	75	47	1.6	2.02	37.5"	69
True Temper	TX-90	A	87.5	291	75	47	1.6	2.08	37.5"	69
Paragon	PV	R	63.8	293	74	48	1.5	5.12	37.5"	69
True Temper	Dynamic Gold Lite SensiCore	S	100.1	295	76	46	1.7	2.10	37.5"	69
SK Fiber	Tour Performance Taper	R	67.5	280	70	41	1.7	3.17	38.5"	69

Men's #5-iron Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Advance Carbon Design	LW	S-	78.9	289	74	37	2.0	2.35	38.5"	69
Apollo	Balistik	A	111.3	289	76	48	1.6	2.04	37.5"	70
Paragon	Lite Touch	A	55.0	283	75	49	1.5	5.70	37.5"	70
True Temper	Release	Men's	94.3	275	74	49	1.5	2.18	37.5"	70
True Temper	TX-90 Tour	R	92.9	292	77	46	1.7	2.09	37.5"	70
Paragon	PV	S	64.3	291	76	48	1.6	5.17	37.5"	70
UST	Competition Pro	A	67.0	278	71	41	1.7	4.18	38.5"	70
Accuflex	Icon v.2	R	69.6	278	68	50	1.4	4.41	38"	70
Apollo	Standard Stepped Steel	A	110.9	301	76	49	1.6	1.92	37.5"	71
Harrison	Boron Gold 40" R&F	R	84.6	299	77	49	1.6	2.93	37.5"	71
Harrison	Tour Classic II A&R	R	80.8	287	77	48	1.6	3.06	37.5"	71
Royal Precision	Precision Superlite	R	88.6	298	75	50	1.5	1.97	37.5"	71
Harrison	Premier Lite 41"	S	89.5	300	79	46	1.7	2.05	37.5"	71
True Temper	CustomLite	Soft R	99.7	303	77	49	1.6	1.95	37.5"	71
Aldila	V2000 Plus	R	74.9	289	75	39	1.9	4.25	38.5"	71
True Temper	Crossfire Hybrid	S	95.1	285	65	40	1.6	2.20	39.5"	71
Royal Precision	Precision Lite	A	99.9	292	77	50	1.5	1.96	37.5"	72
Graman	CF310	R	64.4	295	76	51	1.5	4.71	37.5"	72
Paragon	Lite Touch	R	59.2	286	76	51	1.5	5.83	37.5"	72
Royal Precision	Precision Lite	R	104.0	300	78	50	1.6	1.92	37.5"	72
Grafalloy	ProLite	R	69.7	287	71	44	1.6	2.71	38.5"	72
Paragon	Low Torque EX	R	76.4	283	73	43	1.7	3.30	38.5"	72
Advance Carbon Design	LW	S	77.3	298	77	38	2.0	2.27	38.5"	72
Dynacraft	Filament Wound Lite	S	74.1	294	71	44	1.6	3.54	38.5"	72
SK Fiber	Tour Performance Taper	S	71.2	290	74	42	1.8	3.35	38.5"	72
Accuflex	200 Series	R	70.3	283	71	50	1.4	4.39	38"	72
Rapport Composites	Ni-271	R	79.9	294	78	51	1.5	3.13	37.5"	73
True Temper	TX-90	R	91.1	300	79	50	1.6	1.95	37.5"	73
Aldila	VX	S	77.6	292	80	49	1.6	3.59	37.5"	73
True Temper	Dynamic Gold Lite SensiCore	X	99.8	307	80	49	1.6	2.03	37.5"	73
Aldila	Excelerator	S	74.7	303	77	41	1.9	3.66	38.5"	73
SK Fiber	Tour Trac 80	S	69.1	292	76	41	1.9	3.15	38.5"	73
True Temper	Dynalite Gold	R300	105.5	298	79	50	1.6	1.93	37.5"	74
True Temper	Dynalite Gold 40" Taper	R300	105.0	295	75	55	1.4	1.95	37.5"	74
Royal Precision	Precision Superlite	S	92.8	306	77	53	1.5	1.84	37.5"	74
True Temper	Dynamic Gold Lite 39" Taper	S	101.3	304	79	51	1.5	2.00	37.5"	74
Dynacraft	Copperhead	S	73.9	301	73	46	1.6	3.95	38.5"	74
UST	iRoD Hybrid Utility	S	76.0	275	65	45	1.4	2.56	39.5"	74
Royal Precision	Rifle	4.5	104.4	307	80	52	1.5	1.86	37.5"	75
Harrison	Boron Gold 40" R&F	Firm	84.9	302	79	53	1.5	2.90	37.5"	75

Men's #5-iron Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Apollo	Standard Stepped Steel	R	113.5	303	81	52	1.6	1.84	37.5"	75
MCC	MFS 30+	R	74.7	304	82	50	1.6	3.48	37.5"	75
MCC	MFS 40+	R	80.0	300	79	54	1.5	2.24	37.5"	75
Paragon	Lite Touch	S	58.6	292	79	53	1.5	5.38	37.5"	75
True Temper	TX-90 Tour	S	95.3	305	81	51	1.6	1.90	37.5"	75
True Temper	Dynamic Gold Lite	X	97.0	308	82	52	1.6	1.97	37.5"	75
Royal Precision	Rifle Graphite	R75	69.9	297	75	46	1.6	3.96	38.5"	75
Aldila	V2000 Plus	S	74.6	301	81	40	2.0	3.88	38.5"	75
True Temper	TT Lite	A	98.5	297	81	54	1.5	1.81	37.5"	76
True Temper	CustomLite	Firm R	100.0	310	82	52	1.6	1.86	37.5"	76
Apollo	Balistik	R	111.8	303	83	51	1.6	1.90	37.5"	76
True Temper	Dynalite	R	103.1	304	83	51	1.6	1.89	37.5"	76
True Temper	Dynamic Gold	R200	109.8	302	82	52	1.6	1.83	37.5"	76
Graman	CF310	S	64.3	303	82	52	1.6	4.47	37.5"	76
Rapport Composites	Ni-271	S	79.7	301	81	53	1.5	3.22	37.5"	76
True Temper	Dynalite Gold	S300	105.8	308	84	51	1.6	1.79	37.5"	76
True Temper	Dynalite Gold SensiCore	S300	111.1	311	81	53	1.5	1.91	37.5"	76
UST	ProForce 95 Rv2	R	88.7	299	80	48	1.7	2.54	38"	76
UST	ProForce 75 Rv2	S	74.7	306	80	48	1.7	2.94	38"	76
True Temper	Dynamic Gold	R300	110.9	304	83	53	1.6	1.80	37.5"	77
True Temper	Dynamic Gold SensiCore	R300	111.7	303	83	53	1.6	1.92	37.5"	77
Apollo	Standard Stepped Steel	S	114.0	309	82	54	1.5	1.77	37.5"	77
True Temper	TX-90	S	93.7	310	84	52	1.6	1.84	37.5"	77
Grafalloy	ProLite	S	71.0	295	76	47	1.6	3.09	38.5"	77
Advance Carbon Design	LW	S+	80.0	305	83	40	2.1	2.09	38.5"	77
UST	ProForce 115 Rv2	R	101.0	299	79	50	1.6	2.28	38"	77
Royal Precision	Rifle	5.5	107.7	319	83	55	1.5	1.78	37.5"	78
True Temper	Dynamic	R	112.9	310	84	54	1.6	1.76	37.5"	78
True Temper	Dynamic Gold SensiCore Taper	R300	115.6	298	80	58	1.4	1.78	37.5"	78
True Temper	Dynamic Gold	R400	113.2	307	84	53	1.6	1.79	37.5"	78
MCC	MFS 40+	S	83.2	314	81	56	1.4	2.19	37.5"	78
True Temper	Dynalite Gold 40" Taper	S300	108.1	307	81	57	1.3	1.82	37.5"	78
UST	Competition Pro	R	70.5	296	77	48	1.6	4.28	38.5"	78
Dynacraft	Copperhead Filament Wound	S	75.8	305	79	46	1.7	3.06	38.5"	78
SK Fiber	Tri-Tec 38.5"	S	76.0	302	81	45	1.8	2.94	38.5"	78
UST	ProForce 95 Rv2	S	90.7	305	80	52	1.5	2.58	38"	78
Paragon	Parasonic	R	75.6	304	86	54	1.6	3.43	37.5"	79
True Temper	Dynamic Gold 39" Taper	R300	115.6	295	80	59	1.4	1.75	37.5"	79
True Temper	CustomLite	Soft S	100.0	316	84	55	1.5	1.79	37.5"	79
True Temper	TT Lite	R	105.9	315	86	55	1.6	1.87	37.5"	80

Men's #5-iron Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
True Temper	TT Lite 38" Taper	R	102.0	312	82	54	1.5	2.05	37.5"	80
Apollo	Balistik	S	114.4	316	87	54	1.6	1.77	37.5"	80
Royal Precision	Precision Lite	S	104.4	311	83	53	1.6	1.80	37.5"	80
True Temper	Dynalite	S	102.9	317	87	55	1.6	1.79	37.5"	80
True Temper	Dynamic Gold Lite 39" Taper	X	102.4	316	84	57	1.5	1.83	37.5"	80
Paragon	Low Torque EX	S	76.1	296	80	48	1.7	3.40	38.5"	80
Grafalloy	ProLogic	R	68.3	308	86	57	1.5	3.86	37.5"	81
UST	Competition Pro	S	71.3	306	81	49	1.7	4.04	38.5"	81
Royal Precision	Rifle	6.0	111.7	323	86	58	1.5	1.70	37.5"	82
Grafalloy	ProLogic	S	69.3	313	88	57	1.5	4.16	37.5"	82
MCC	MFS 30+	S	75.2	310	88	56	1.6	3.43	37.5"	82
True Temper	Dynamic Gold	S200	112.7	318	90	55	1.6	1.67	37.5"	82
True Temper	Dynamic Gold SensiCore	S300	115.1	319	87	58	1.5	1.71	37.5"	82
True Temper	CustomLite	Firm S	100.7	322	87	60	1.5	1.67	37.5"	83
True Temper	TT Lite	S	106.1	325	90	57	1.6	1.75	37.5"	83
True Temper	Dynamic Gold	S300	114.4	320	91	56	1.6	1.66	37.5"	83
True Temper	Dynamic Gold SensiCore Taper	S300	117.1	317	87	60	1.5	1.65	37.5"	83
True Temper	Dynamic Gold	S400	115.4	322	91	56	1.6	1.66	37.5"	83
True Temper	Dynalite Gold	X100	105.6	322	89	57	1.6	1.63	37.5"	83
UST	ProForce 115 Rv2	S	103.9	314	84	56	1.5	2.17	38"	83
True Temper	TT Lite 38" Taper	S	108.1	333	89	60	1.5	1.79	37.5"	84
True Temper	Dynamic Gold SensiCore	X100	115.8	329	90	58	1.6	1.67	37.5"	84
Royal Precision	Rifle	6.5	114.4	328	90	60	1.5	1.66	37.5"	85
Paragon	Parasonic	S	79.9	326	93	57	1.6	3.35	37.5"	85
True Temper	Dynamic Gold	X100	114.9	329	93	58	1.6	1.62	37.5"	85
Royal Precision	Project X	5.5	106.4	321	89	64	1.4	1.60	37.5"	87
True Temper	Dynamic	S	112.6	323	94	59	1.6	1.64	37.5"	87
True Temper	Dynamic Gold 39" Taper	S300	121.0	321	88	65	1.4	1.58	37.5"	87
Royal Precision	Rifle	7.0	121.9	335	95	62	1.5	1.55	37.5"	89
Royal Precision	Project X	6.5	112.5	332	92	67	1.4	1.50	37.5"	90

Ladies #5-iron Shaft Listing by DSFI Ratings

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
Dynacraft	Lady Copperhead	L	68.2	254	54	35	1.5	3.92	37.5"	50
Dynacraft	Light	L	68.2	254	54	35	1.5	3.92	37.5"	50
True Temper	Realease	Ladies	90.2	270	69	45	1.5	2.41	36.5"	58

Ladies #5-iron Shaft Listing by DSFI Ratings continued

Deflection Method

Manufacturer	Shaft	Flex	Shaft	Freq.	Butt	Tip	T/B	Torque	Length	DSFI
True Temper	Release SensiCore	Ladies	99.2	274	70	45	1.5	2.38	36.5"	58
Rapport Composites	Synsor Lite	L	56.1	262	59	44	1.3	4.12	37.5"	58
Graman	CF310	L	58.5	269	69	47	1.5	4.27	36.5"	59
Rapport Composites	Advent	L	79.1	277	62	43	1.4	2.89	37.5"	59
Rapport Composites	Oracle Plus	L	71.0	278	63	41	1.5	3.05	37.5"	59
Aldila	Exceleator	L	67.2	262	63	43	1.5	4.24	37.5"	60
Aldila	VL	L	65.8	270	68	52	1.3	4.46	36.5"	61
Paragon	Lite Touch	L	53.5	280	74	51	1.5	5.86	36.5"	64
Rapport Composites	Ni-271	L	72.7	278	71	53	1.3	3.31	36.5"	64
Paragon	Low Torque EX	L	66.0	281	72	41	1.8	3.24	37.5"	64
True Temper	Dynalite	L	94.9	290	79	50	1.6	2.06	36.5"	66
Apollo	Balistik	L	107.9	288	77	55	1.4	2.05	36.5"	67
UST	Competition Pro	L	66.0	283	73	49	1.5	4.31	37.5"	69
Apollo	Standard Stepped Steel	L	107	297	82	55	1.5	1.95	36.5"	70
True Temper	TT Lite	L	95.9	298	83	58	1.6	1.83	36.5"	72