GOLF HEADQUARTERS IN NEW YORK

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The VERY FINEST . . .

King's Custom made WOODS

Master Craftsmanship, Superb Designing and the non-chip, no-crack, everlasting (varnish) finish . . . plus the fact that they are handmade to the player's personal requirements, make these America's finest Golf Woods.

We offer GOLF PRIDE "rubber and cork" grips on your new "Kings" or to replace your old grips. Delivery 48 hours.

Irving King
P. O. Box 3252
SHREVEPORT, LOUISIANA

Spalding Precision Forging Assures Quality Club Heads
By JAMES M. LONG
Assistant Manager, Golf Club Dept.
A. G. Spalding & Bros.

The head is the most important part of the club and the secret of making good iron heads is to start with a forged head which is as accurate as possible.

It is not the general practice in the forge industry to work as close as we do in our drop forge and many experienced forge shop owners, who visit our plant, are amazed that we have made a "watch factory out of a drop forge". If we had to use the general run of the mill forging, instead of our own precision forged heads, we wouldn't be able to work as close as we do now in making our finished matched sets. We insist that our forgings do not

Machinist Robert Champigny is operating a huge machine called a Hydro-tei used in making forging dies in Spalding's machine shop. Instrument at the left cuts out exact pattern of the model at right. Dies cut on this machine from the master model are accurate to 8/1000 of an inch.

Bill Duncan, one of the skilled craftsmen who do the important work of making master models and special order irons, is checking a head with a precision gauge.

Golfdom
vary more than 5/1000 from the master model in size and shape or a fraction of an ounce in weight. Because of this high precision forging we can maintain closer tolerances for size, shape, and weight.

To illustrate briefly I will mention the six major operations following forging and the features of the forged head that are the most important to each of these processes: broaching—head that has a straight face and is accurate for size; centerless grinding and drilling—heads with perfectly round hosels; face scoring and stamping—heads that have a maximum of face scoring and are tops in appearance; and polishing—one of the most important and skillful steps.

The first important step in making an iron club is producing a master model of the iron to be made. This has to be hand forged from a steel bar. Naturally after heads have been forged they are put through this large annealing furnace where they are heated and then allowed to cool off slowly under carefully controlled conditions. This process softens the steel and gives the head the same "feel" as mild steel.

Three stages in the forging of a head. (Right) The bar after it has been bent. (Middle) After two blows in the blocking impression. (Left) Forging about to be cut off from bar of steel.

One tool for every job around pro shop and clubhouse. Initial clubs—smooth backs out of irons and faces of wood clubs and for refinishing operations.

The Handee is always ready with smooth, steady power to grind, drill, polish, rout, engrave, cut, carve, sand, etc. Handee does all these operations on all kinds of material, metal, alloy, plastic, wood, etc.

Get a Handee, first tool of its kind—today's finest, and be sure of ruggedness, dependability, long life and cool running. AC or DC 2,000 r.p.m. Weighs only 12 ozs. Easy to carry and use. Balanced for perfect performance.

NEW LOW PRICES
Handee only, with 7 accessories, $19.95. Complete Handee Kit with 51 accessories, $24.95. Order today. Sent postpaid. Satisfaction Guaranteed!

CHICAGO WHEEL & MFG. CO.
1181 W. Monroe St., Dept. G
CHICAGO 7, ILL.

February, 1950
much of the work on this master model is dependent on the trained eye of the skilled craftsman, however, he checks his own work with high precision gauges and fixtures to measure lie, loft, hook, slice, face progression, blade length, blade outline, top line, and sole line thickness. From this master model the forge die is made.

We not only make the forge dies but also the hot strike dies, trimmer punches and dies, broaching fixtures and cutters, drilling fixtures, stamping fixtures and face scoring fixtures and dies. Precision tools are necessary to produce dies from which finely matched precision sets of clubs are made.

It takes between 80 and 100 hours to make one set of dies, time that could be spent otherwise if we didn’t know that the forging of our own heads was so important in the production of the finest matched clubs.

Forging is a very interesting and difficult work. We use a very tough stainless steel alloy, made to our own specifications, and we heat the bars in a furnace where the temperature is regulated, by control equipment, to a heat that is as
free from scaling as possible and yet gives the proper forging heat.

After the solid round bar is heated it is forged into a club head by an average of six blows from the drop forge hammer. First the operator bends the straight piece of metal so that it has the rough angle or shape of an iron head. Next he strikes it with two blows in the blocking impression of the forge die, and then two more in the finishing die, to complete the forging cycle. After the forging is hot trimmed it is re-struck in a single impression finishing die. This hot striking process gives a super finish perfect head. The final operation in the drop forge is to pass the forgings through the annealing furnace to soften the steel and make it 'feel' the same as mild steel.

After the heads have left the drop forge they are carefully sorted in sets, correct shafts are selected for each set,
sprinklers of every type for
golf courses

Individual units or complete 'tee to green' systems keep your course at its best. Write today for specifications.
The Skinner Irrigation Co., 615 Canal St., Troy, N.Y.
Pioneer and Leader in Irrigation for Nearly a Half Century

and then they move down our production line together until they become the fine matched sets of clubs seen in pro shops throughout the country.

JACOBSEN SERVICE SCHOOL

A representative of the Service Department, Jacobsen Manufacturing Co., Racine, Wis., discusses the finer points in the construction of a Jacobsen Lawn Queen. The company is conducting a series of mid-winter classes on the servicing of power mowers. Dealers and servicemen from all parts of the country attend the three-day courses.

GOECKEL, RUBBER THREAD REP.

Ed C. Goeckel, 8811 S. Laflin, Chicago, has been appointed special sales representative by Rhee Elastic Thread Co., Warren, R.I. Ed, for many years in charge of Wilson's field and laboratory golf ball research and factory operations, is highly qualified for the golf ball thread phase of the Rhee production.

MacGREGOR'S "MT" TOURNEY BLADE

The "MT" Tourney blade shown above is gaining a fine reception for the company's new line of clubs, according to officials of the MacGregor Golf Co. Main features of the blade are compactness and scientific placement of weight at the heart of the club. The new club is sold through professionals only.

LIQUA-VITA

The complete Liquid Fertilizer for Golf Greens
Turf Special 12-8-4 Regular 6-9-7
Plus all Trace Elements

Its use on 700 golf courses (as long as 5 years on some) has proved its value as a greens fertilizer. Greenkeepers are enthusiastic over results. It doesn't burn — cuts labor costs — is easy to apply. A trial will convince you.

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