NEWMAN, HENDER & CO., LTD.
WOODCHESTER, NEAR STROUD.
Brass and Iron Founders.
Manufacturers of High-Class Engine Fittings and Boiler Mountings, Gun Metal and Iron Cocks and Valves of Every Description for Engineers, Boiler Makers, Shipbuilders, etc., etc.

ON ADMIRALTY, WAR OFFICE AND OTHER LISTS.

In any history of the varied industries of Gloucestershire the admirably appointed works operated by Messrs. Newman, Hender and Co., Ltd., are deserving of more than passing mention. Both by reason of the remarkable progress this Company has made, and the very up-to-date methods they employ, they have now a high reputation in Engineering and Manufacturing circles.

Situated upon the little river which winds its course through the entire valley of Woodchester, the principal buildings consist of offices, foundry and machine shops, power house, pattern making department, and store, as well as extensive stock and show rooms for the storage of raw material, partly finished and completely manufactured products of the Company, the whole being conveniently situated relative to each other, lighted throughout by electricity and connected by a complete telephone installation which places the office in direct communication with the foremen in all the various departments. A private railway siding also extends alongside the works.

The business was established in 1879 by Mr. S. J. Newman, Senr., the present Chairman of the Company, an amalgamation being effected in 1896 with Messrs. Hender and Co., and a private Limited Liability Company being formed. The present officers of the Company are Messrs. S. J. Newman, Senr. (Chairman), C. F. Newman and Frank Hender (Joint Managing Directors), Joseph Hender and S. J. Newman, Junr. (Directors), while the latter also fills the post of Secretary.

From the very date of its establishment the business has been distinguished by an almost uninterrupted growth, and is curiously illustrative of our modern industrial progress. From the outset Messrs. Newman, Hender and Co., Ltd., have recognised that to successfully conduct a business in the face of ever-increasing competition it is essential that all goods manufactured must, as far as possible become highly standardised, and a visit to their works will reveal how carefully every detail has been thought out and put into practical working order, tending to the economical production of an article, and at the same time keeping up the very high-class standard of excellence for which this firm's manufactures have always been noted. With this object ever in view large sums of money are yearly expended in equipping the works with the very latest machinery, and it is surprising to note how much of their work which a few years ago was performed by skilled mechanics at high cost and comparatively low production, is now turned out in vast quantities with far greater accuracy than was possible under the old regime, on automatic and semi-automatic machines with unskilled labour. It is also interesting to note that electricity is extensively used throughout the works, it being generated by a considerable water power derived from the little river already mentioned, and a separate power house, equipped with gas engines and a gas producing plant, which supplies the necessary gas to the engines at a very economical cost compared with the ordinary town supply.

Another very important feature is the arrangement whereby every fitting manufactured by the Firm is before being sent out carefully inspected and subjected to a severe steam and hydraulic test, and for this purpose a very complete plant has been installed, including a water tube boiler for generating the necessary steam. Everything is arranged for the convenience of the Admiralty, War Office, or other inspector whose duty it is to inspect and test the work in hand for the particular contract in which he is interested.

The Company also have a large and well-equipped foundry in which are contained the most modern furnaces, melting machines, cranes and other appliances representing the very latest practice in this interesting department, the Firm doing a large business in castings of every size in gun metal, yellowmetal, naval brass, aluminium, phosphor-bronze, and white metal alloys, etc., etc.

A visit to the extensive stock and show-rooms of the Company impresses the visitor with the enormous variety and large stocks kept of the various manufactures of the Firm; every description of gun metal, brass, iron, and other fittings used by engine builders, boiler makers, shipbuilders, mining, railway, water works, and heating, etc., engineers and contractors, in

VIEW IN ONE OF THE MACHINE SHOPS.
Newman, Hender & Company, Limited. (Finishing and Assembling Shop.)

VIEW IN ONE OF THE MACHINE SHOPS.
(Turnery and Capstan Lathe Department.)

VIEW IN ONE OF THE MACHINE SHOPS.

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engaged on it) together with his individual rate of pay is automatically and accurately kept and gives a labour cost which, when taken in conjunction with the material and other charges, enables the Firm to ascertain the total cost of any article produced to the fraction of a penny.

A word must here be said as to the excellent relations which exist between the Company and its employees, everything being done that is possible to further the interests and enhance the comfort and well-being of all concerned. For this purpose first-rate sanitary accommodation and other arrangements exist, while surrounding the works and the property of one of the Directors of the Company are constructed in a manner that is a model of the manufacture of grain-cleaner and elevator apparatus, millstones and rolls, boilers, and other apparatus designed for electric motors, engines, and water wheels, gearing, shafting, etc. They also make a great deal of special machinery for the manufacture of cacao, spices, drugs, pepper, ginger, powder sifting and blending, colour grinding, sugar grinding and dressing, etc. Repairs are promptly executed under personal supervision, and only experienced men are sent out to do erecting.

The Firm also act as valuers and arbitrators, the long experience and the connection having given them peculiar qualifications for this work. Their technical knowledge is enhanced by an integrity which has never been questioned.

The present members of the Firm are Mr. W. S. Barron, the founder and present head, and Mr. S. S. Barron, the latter of whom was but recently admitted to the Firm, was for some years in the works of his uncle, Mr. J. Barron, of Leeds, where he acquired the experience which has been put to good account. The Firm have gained the confidence of trade circles generally and are deservedly regarded as very well fitted for their personal, as well as business, traits.

W. SISOON & SON, GLOUCESTER.

Manufacturers of Patent High Speed Engines for Boats, chassis, and High Class Marine Machinery.

THIS Firm has been in existence since 1889, when the business formerly carried on by the late Mr. J. J. Beeking, was taken over. Since then, 50 hands have been employed, while to day the number has increased to about 70. Being as many as the premises can well accommodate, and the expansion in continuous work the works has been considerably improved.

While Messrs. W. Sisson and Company are marine and general engineers, they have for some years devoted special attention to the manufacture of their own patent high speed engines, which are used in many of the most famous vessels of all types, are working in all parts of the world. They have constructed the engines and boilers for all thefastest races on Wimborne Lake. One of these machines, which they supplied both the hull and the machinery, is 66 feet long, and attained a trial speed of 248 miles an hour; another, 42 feet long, attained a trial speed of 184 miles an hour. They have also supplied a great many engines for Thames steamers, and possess the well-known SALTER Line of passenger boats.

They have recently developed the Sisson Patent High Speed Engine for dynamos driving. These engines, particularly designed for electrical power, have been used throughout the country, and it to produce excellent results. For steam and oil economy, large overload capacity, prompt and close governing, and favourable steam consumption, it is said to see in many of the largest works in the country. The Sisson Patent High Speed Engines has proved itself superior to the best throttle governed high speed engines.

The largest Sisson engine yet made is one of 900 h.p., destined for J. J. Beeking; another 200 h.p. engine for a steamer, of double expansion type, is fitted in a large yacht; and two others of 600 h.p. each, were made for Cape Town, where they have proved the most efficient and powerful engines ever constructed in Gloucester. Three of 400 h.p. have been at work for some years in the Danube district of the City of London Lighting Company (the largest in the country).

Reference has already been made to the high quality of the Company's work. It is said to be with perfect accuracy that their aim and constant effort is to embody in their productions, whether important or comparatively unimportant, the most conscientious work as well as good practical and theoretical knowledge.

Messrs. Sisson and Company intend shortly to erect new works in a more favourable situation, where they can economically produce their manufactures under the best conditions.

LEONARD THOMAS & CO.
COALEY MILLS, Near DURSLEY.

Manufacturers of Spades, Shovels, Draining and Forestry Tools.

JN two respects the works operated by Messrs. Leonard Thomas and Company, Coaley Mills, near Dursley, are unique among Gloucestershire manufacturers. They are the oldest existing ironworks in the County, and the only one devoted exclusively to the manufacture of spades, shovels, and similar implements and tools.

The business was established in 1744, since which time it has never been carried on by another owner. For 80 years ago Mr. Leonard Thomas, the head of the present Company, first became identified with the business. Under his direction the industry has fully maintained its position which it has enjoyed for over a century and a half.

The freestool premises owned and occupied by Messrs. Leonard Thomas and Company comprise 7 acres of ground, with valuable water power and ample reserve ground for further extensions. Among the buildings still in use are the original large stone structures, a separate building of comparatively recent erection, and various additions that have been made from time to time. The motive power is furnished by a water-wheel, two turbines, and an oil engine. Each department, including drainage and wood-working shops, stores, and the warehouse, occupies a separate portion of the buildings.

The mechanical equipment is thoroughly complete, including a number of furnaces, heavy power hammer, stamping, pressing, and punching machines, wood-working machinery, etc., and every tool and appliance necessary for economical production.

As has been stated, Messrs. Leonard Thomas and Company manufacture a wide variety of spades, shovels, for general gardening and draining tools, road scrapers, lades, axes, etc. They publish an attractive illustrated catalogue, which is a valuable piece of literature in their own manufacture. They are contractors to His Majesty's Government, and have executed some of the most important contracts for large Indian railways and contractors. Considerable quantities of their special implements are also exported, principally through the London and other markets.

Of the high character of the Firm's manufacture it is unnecessary to speak, as their long history and unique character are sufficient guarantee of quality. It is but just to add, however, that now, as heretofore, every effort is made by the proprietors of the Company to see that the workmanship and materials are represented in every article that leaves the premises.